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The 119th Year of
**Thorburn's
Seeds**

ESTABLISHED 1802

1920



J.M. Thorburn & Co.

53 BARCLAY STREET
THROUGH TO 54 PARK PLACE

New York City

Keep Down Your Table Expenses WITH A THORBURN GARDEN



DON'T be a slave to the uncertainty of supply and the high prices of "shipped-in" vegetables this spring. Your own back yard is a veritable gold mine while these essential fresh foods are selling at record-breaking prices. Let us help you have health-building vegetables of full flavored freshness this season—at a fraction of the shopkeeper's prices.

We want you to know **THORBURN SEEDS**—to test the healthful pleasure and economy of cultivating your own vegetables. That's why we're making this "Get Acquainted" offer of one of our famous **COLLECTIONS** of **VEGETABLE SEEDS** for small Gardens.

Collection "A"

\$1.50 (INCLUDING FREE DELIVERY IN U. S.)

- | | |
|---|---|
| 1 pkt. Beans, Refugee Green-Pod. | 1 pkt. Leek, Best Flag. |
| 1 pkt. Beans, Golden Wax. | 1 pkt. Lettuce, Big Boston. |
| 1 pkt. Beet, Egyptian. | 1 pkt. Onion, White Globe. |
| 1 pkt. Cabbage, Early Wakefield. | 1 pkt. Parsley, Extra Curled. |
| 1 pkt. Carrot, Half-Long. | ½lb. Peas, Thorburn's Extra-
Early Market. |
| ½lb. Corn, Early Bantam. | 1 pkt. Radish, Scarlet Turnip. |
| 1 pkt. Cucumber, Improved
White Spine. | 1 pkt. Spinach, Viroflay. |
| 1 pkt. Kohlrabi. | 1 pkt. Turnip, Snowball. |

Victory Collection

\$1.00 (INCLUDING FREE DELIVERY IN U. S.)

One packet each.

- | | | | |
|--------------|---------------------|----------|--------------|
| Green Beans. | Carrot. | Parsley. | Spinach. |
| Wax Beans. | Lettuce. | Peas. | Turnip. |
| Beets. | Onion. | Radish. | Swiss Chard. |
| | Golden Bantam Corn. | | |

THORBURN SEEDS are the pick of the World's best—seeds that combine hardiness, fertility and vigor that assure best results—that produce the biggest, firmest, crispest, best-flavored vegetables.

For other Collections for larger Gardens, ranging from \$4 to \$36, see pages 4 and 5 of this Catalogue

1802—1920

119TH ANNUAL SEED CATALOGUE OF J. M. THORBURN & COMPANY



BECAUSE a business seldom lives long unless it obtains and retains the goodwill of its patrons, age and continuous successful commerce are of more significance than the mere passing of years. High ideals are essential to long life and continued good reputation, particularly in the seed business, in which so much depends not only upon ideals but upon their diligent pursuit in the matters of reliability, purity, and good service.

That we have kept both the quality of our merchandise and of our dealing in the front rank during nearly four generations in the life of men is indicative both of our high aims and of the value of cumulative experience.

Thus, in the beginning of the 119th year of our continuous existence as seedsmen, the Thorburn name stands not only for experience and knowledge in seed-growing, but for that fair dealing which makes transactions with us both safe and pleasant. Retaining our old customers on the basis of our service, we seek new friends also upon the same and single basis of "a square deal" as to **reliability** in merchandise and in methods.

It has always been our effort to make this catalogue truly **representative** and helpful. The descriptions are carefully revised and kept completely accurate, and the concise cultural directions are intended to guide the planter to success. Additional information, impracticable to present here without unduly increasing the bulk of the catalogue, is available from our long and extensive experience and will be cheerfully supplied upon request. We are now preparing

Convenient Leaflets Upon the Culture

of each vegetable, which will be furnished to our customers for the asking, at any time.

In these times of disturbed and congested transportation, and in connection with the shortage of many seed crops in America and abroad, it is an advantage, both to the seedsmen and the planter to have early orders. If, therefore, our friends will make known their wants promptly upon receipt of this catalogue, we can with more certainty make shipment at the proper time. Planting at the most favorable season for successful results may thus be assured. Always, however, we meet the wishes of our customers to the best of our ability, whatever be the time of ordering. Likewise, in the midst of the existing price-soaring conditions, we keep our prices at the lowest point consistent with the exceptional quality we maintain and the necessary cost of handling.

In addition to asking our friends to read carefully the next page preparatory to making up their orders, we call attention to the fact that our seed supplies come from many parts of the world and that sometimes it seems best to send out such portions of orders as may be at the moment available, forwarding the remainder later upon receipt. Please, therefore, await our advice or the invoice before writing us about items not received.

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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 United States.

Seeds by Mail or Express. If wanted by mail in the United States, add postage according to zone rate, as per table below, except for seeds ordered by the packet, ounce, or quarter-pound, which we will mail free. By special arrangement with the express companies, we can ship seeds and bulbs at a reduction of about 25 per cent from the regular rates. In view of the greater safety, it will be found best to send parcels of 15 pounds or over by express, as packages are apt to get crushed in the mail. Seeds may be sent C. O. D. when **25 per cent of the amount is remitted with order.** Potatoes, onion sets, or other perishable articles, fertilizers or insecticides cannot be sent C. O. D.

Parcel-Post Zone Rates

Zone	Within	WITHIN THE UNITED STATES	
		1st lb. or fraction	Additional lb. or fraction
1st	50 miles of New York City.....	\$0 05	\$0 01
2d	50 to 150 miles of New York City.....	05	01
3d	150 to 300 miles of New York City.....	06	02
4th	300 to 600 miles of New York City.....	07	04
5th	600 to 1,000 miles of New York City.....	08	06
6th	1,000 to 1,400 miles of New York City.....	09	08
7th	1,400 to 1,800 miles of New York City.....	11	10
8th	1,800 and over miles of New York City.....	12	12

Maximum weight, 70 pounds to 1st, 2d and 3d Zones, and 50 pounds from the 4th Zone upward. Postage to Canada 12 cents per pound, or fraction thereof, maximum weight, 4 pounds 6 ounces.

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 ourselves shall of course choose the most advantageous and convenient means.

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

Warranties

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

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

Seeds differ greatly as to the temperature required for germination. Beets, Cress, Peas, etc., germinate rapidly at a temperature of 45 degrees, 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 degrees. 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.

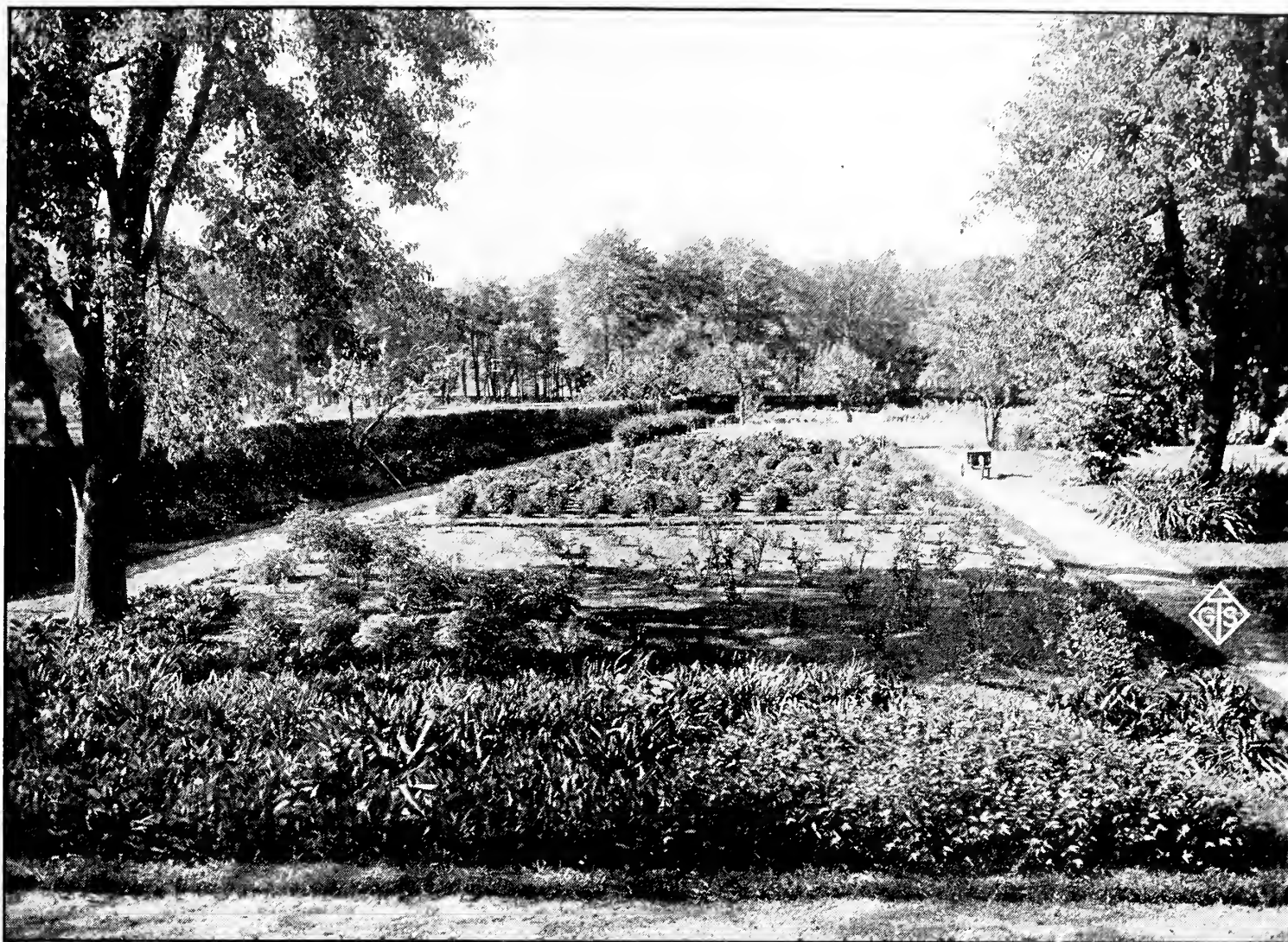
J. M. Thorburn & Co. give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once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

J. M. THORBURN & CO.

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

All communications should be addressed to the company

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



Entrance to Our Trial Grounds

DIRECTIONS FOR THE CULTIVATION OF VEGETABLES

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

A dark-colored soil, or one supplied with a goodly portion of decayed vegetable matter, will produce the earliest crops. If the soil be shallow, it should be deepened gradually by plowing or spading an inch or two deeper each year, and not all at once by trenching or subsoiling, unless manure and money both be abundant. A sandy soil may be greatly improved by adding vegetable mold from the woods. To produce the best results, the vegetable garden should have at least 1 foot of good, rich soil. The roots of large trees should not be allowed to encroach on any part of the garden, though large trees, sufficiently far off, afford a valuable protection on the north and west.

If for any reason you think your soil is not right, consult your experiment station if necessary.

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. Pota-

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

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

To prepare a coldframe. The coldframe is simply a frame set on the ground, no bottom heat being applied. It is banked up on the outside during the winter with salt hay, straw, or coarse litter. The soil is prepared by forking in and thoroughly mixing to the depth of 10 to 12 inches a liberal quantity of old, well-rotted manure. The manure of an old hotbed is good for the purpose. The frame is prepared in the fall, and young Cabbage, Cauliflower and Lettuce plants are set out in it in time to get well

DIRECTIONS FOR THE CULTIVATION OF VEGETABLES, continued

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

bage, 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 cold-frame in the spring from the last week in February to the first week in March. The frame should stand in a warm and sheltered spot, and be kept from freezing by mats or a thick covering of straw during cold nights.

DIRECTIONS FOR MAKING A HOTBED

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

In two or three days fermentation will be apparent by the escape of steam from the heap. Now turn again, and allow the heap to remain until the second fermentation commences. Make a pit 2½ 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 everything is ready, the manure is placed

in the pit and trodden down firmly in layers to the required depth, 2 to 2½ feet. Then put on the sashes and keep the pit closed until the heat arises. At first it will probably be 100 degrees or more, which is too hot to sow the seed in; but in two or three days it will subside to 90 degrees 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 snowstorms 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.

Collections of Vegetable Seeds

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

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

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

Collection No. 1, \$4 Including free delivery in the United States

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

1 lb. Beans , Early Valentine.	½ lb. Corn , Stowell's Evergreen.	1 pkt. Melon , Water, Black Spanish
1 " " Golden Wax.	1 pkt. Cucumber , Improved White	1 " Onion , White Globe.
1 oz. Beet , Egyptian.	Spine.	1 " " Large Red Globe.
1 " " Globe.	1 " Eggplant , Improved New	1 " Parsley , Extra Curled.
1 pkt. Cabbage , Early Wakefield.	York Purple.	1 lb. Peas , Thorburn's Extra-
1 " " Red.	1 " Kohlrabi , Early White.	Early Market.
1 " Carrot , Half-Long.	1 " Leek , Best Flag.	1 " " Wrinkled, our selection.
1 " Cauliflower , Thorburn's Gilt-	1 " Lettuce , Big Boston.	1 oz. Radish , Scarlet Turnip.
Edge.	1 " " Cos or Romaine.	¼ lb. Spinach , Viroflay.
1 " Celery , White Plume.	1 " Melon , Musk, Large Hack-	1 pkt. Tomato , Stone.
1 " Corn , Early Golden Bantam.	ensack.	1 oz. Turnip , Snowball.
½ lb. " Cory.		

Collection No. 2, \$10 Including free delivery in the United States

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

1 lb. Beans , Bountiful Green-Pod.	1 pkt. Cabbage , Ballhead.	1 pkt. Celery , Schumacher.
1 " " Early Valentine.	1 " " Thorburn's Priv-	½ lb. Corn , Early Golden Bantam.
1 " " Stringless Green-Pod.	ate Stock Flat	1 " " Country Gentleman.
1 " " Challenger Pole Lima.	Dutch.	1 " " Metropolitan.
1 " " Thorburn's Dwarf	1 oz. Carrot , Half-Long.	1 " " Stowell's Evergreen.
Lima.	1 " " St. Valery.	1 oz. Cucumber , Improved White
2 ozs. Beet , Eclipse.	1 pkt. Cauliflower , Thorburn's Gilt-	Spine.
2 " " Egyptian.	Edge.	1 pkt. Eggplant , New York Purple.
2 " " Globe.	1 " Celery , Giant Pascal.	1 " Kohlrabi , Early White.
1 pkt. Cabbage , Early Wakefield.	1 " " White Plume.	1 " Leek , Best Flag.

Vegetable Seed Collection No. 2, \$10, continued

I Pkt. Lettuce , Big Boston.	$\frac{1}{2}$ oz. Onion , Large Red Globe.	I oz. Salsify , Mammoth Sandwich Island.
I " " May King.	I pkt. Parsley , Extra Curled.	$\frac{1}{2}$ lb. Spinach , Viroflay.
I " " Cos or Romaine.	I oz. Parsnip , Hollow Crown.	2 ozs. " New Zealand.
I " " Giant Crystal Head.	I lb. Peas , Thorburn's Extra-Early Market.	I pkt. Squash , Early Bush Crook-neck.
I " Melon, Musk , Netted Gem.	I " each Peas , two best Wrinkled, our selection.	I " Tomato , Beauty.
I " " Large Hackensack.	I pkt. Pepper , Chinese Giant.	I " " Stone.
I " " Water , Black Spanish.	I oz. Radish , White-tipped.	I oz. Turnip , Snowball.
I oz. Okra , Perkins' Improved.	I " " Scarlet Turnip.	I " " Red-Top Strap-Leaf.
I pkt. Onion , White Globe.	I " " Scarlet Globe.	I " " Thorburn Rutabaga.

Collection No. 3, \$18 Including free delivery by express in the United States

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

I lb. Beans , Bountiful Green-Pod.	I lb. Corn , Country Gentleman.	2 ozs. Parsnip , Hollow Crown.
I " " Early Valentine.	2 " " Stowell's Evergreen.	2 lbs. Peas , Thorburn's Extra-Early Market.
I " " Golden Wax.	I oz. Corn Salad .	2 " each Peas , three best wrinkled, our selection.
I " " Stringless Green-Pod.	2 " Cress or Pepper Grass .	I pkt. Pepper , Chinese Giant.
I " " Challenger Pole Lima.	I " Cucumber , Improved White Spine.	I oz. Radish , White-tipped.
I " " Thorburn's Dwarf Lima.	I pkt. Eggplant , Improved New York Purple.	I " " Scarlet Turnip.
2 ozs. Beet , Egyptian.	I oz. Endive , Green-Curled.	I " " Scarlet Globe.
2 " " Globe.	I " " Broad-leaved.	I " " Chinese Winter.
2 " " Blood Turnip.	$\frac{1}{2}$ " Kohlrabi , Early White.	I " Salsify , Mammoth Sandwich Island.
I pkt. Brussels Sprouts , Dalkeith.	I pkt. Leek , Best Flag.	I lb. Spinach , Viroflay.
$\frac{1}{2}$ oz. Cabbage , Early Wakefield.	$\frac{1}{2}$ oz. Lettuce , Big Boston.	$\frac{1}{4}$ " " New Zealand.
$\frac{1}{2}$ " " Thorburn's Private Stock Flat Dutch	$\frac{1}{2}$ " " May King.	I oz. Squash , Early Bush Crook-neck.
I " Carrot , Early French Forcing.	$\frac{1}{2}$ " " Cos or Romaine.	I pkt. " Early White Scallop Bush.
I " " Chantenay.	$\frac{1}{2}$ " " Giant Crystal Head.	I oz. " Boston Marrow.
I pkt. Cauliflower , Thorburn's Gilt-Edge.	I pkt. Melon, Musk , Large Hackensack.	I pkt. Tomato , Beauty.
I " " Thorburn's Snowball.	I " " Netted Gem.	I " " Stone.
$\frac{1}{2}$ oz. Celery , Schumacher.	I " " Water , Black Spanish.	I oz. Turnip , Thorburn's Rutabaga.
$\frac{1}{2}$ " " White Plume.	2 ozs. Okra , Perkins' Improved.	I " " Snowball.
I pkt. " Golden Self-blanching.	I " Onion , Yellow Danvers.	I " " Red-Top Strap-Leaf.
I lb. Corn , Early Golden Bantam.	I " " Large Red Globe.	I pkt. each Herbs , five varieties.
I " " Cory.	I " " White Globe.	
	I " Parsley , Extra Curled.	

Collection No. 4, \$36 Including free delivery by express in the United States

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

2 lbs. Beans , Green-Pod Bountiful.	4 lbs. Corn , Metropolitan.	12 lbs. Peas , three best Wrinkled, our selection.
2 " " Early Valentine.	4 " " Stowell's Evergreen.	$\frac{1}{2}$ oz. Pepper , Chinese Giant.
I " " Stringless Green-Pod.	I oz. Cucumber , Improved Long Green.	$\frac{1}{4}$ lb. Pumpkin .
2 " " Golden Wax.	2 " " Improved White Spine.	4 ozs. Radish , White-tipped.
I " " Challenger Pole Lima.	$\frac{1}{2}$ " Eggplant , Improved New York Purple.	2 " " Icicle, Long White.
I " " Thorburn's Dwarf Lima.	I " Endive , Green Curled.	4 " " Scarlet Turnip.
4 ozs. Beet , Eclipse.	I " " Broad-leaved.	2 " " Chinese Rose, Winter.
4 " " Egyptian.	I " Kohlrabi , Early White.	4 " " Scarlet Globe.
4 " " Globe.	I " Leek , Best Flag.	2 " Salsify , Mammoth Sandwich Island.
4 " " Blood Turnip.	I " Lettuce , Big Boston.	$\frac{1}{4}$ lb. Spinach , New Zealand Summer.
$\frac{1}{2}$ " Brussels Sprouts , Dalkeith.	I " " Cos or Romaine.	$\frac{1}{2}$ " " Viroflay.
$\frac{1}{2}$ " Cabbage , Early Wakefield.	I " " Early Curled Simpson.	I oz. Squash , Early Bush Crook-neck.
$\frac{1}{2}$ " " Savoy, Early.	I " " Giant Crystal Head.	I " " Early White Scallop Bush.
$\frac{1}{2}$ " " Thorburn's Private Stock Flat Dutch.	2 " Melon, Musk , Netted Gem.	I " " Boston Marrow.
4 " Carrot , Early French Forcing.	2 " " Large Hackensack.	$\frac{1}{2}$ " Tomato , Beauty.
4 " " Half-Long.	2 " " Water , Black Spanish.	$\frac{1}{2}$ " " Stone.
4 " " Long Orange.	4 " Okra , Perkins' Improved.	I pkt. " Bonny Best.
I pkt. Cauliflower , Thorburn's Gilt-Edge.	2 " Onion , Yellow Danvers.	2 ozs. Turnip , Snowball.
I " " Thorburn's Snowball.	2 " " White Globe.	2 " " Red-Top Strap-Leaf.
I oz. Celery , Schumacher.	2 " " Large Red Globe.	2 " " Thorburn's Rutabaga.
I " " White Plume.	2 " Parsley , Extra Curled.	I pkt. each Herbs , five varieties.
$\frac{1}{2}$ " " Golden Self-blanching.	4 " Parsnip , Hollow Crown.	
2 lbs. Corn , Early Golden Bantam.	2 lbs. Peas , Thorburn's Extra-Early Market.	
2 " " Cory.		
4 " " Country Gentleman.		

Desirable Vegetable Seed Specialties

Marvel of Paris Bean

Slender, flat, green pods, 5 inches long. Early, productive, very tender, brittle, fine grained, of excellent quality. Lb. 90 cts., 2 lbs. \$1.75.

Green-seeded Flageolet Bean

To be used as a Shell Bean only. Tender and of fine flavor; seeds keep their green color when fully dry, and even when cooked. Lb. 90 cts., 2 lbs. \$1.75.

Dwarf Green-podded Bean Masterpiece (Sutton's)

The plant is a robust grower, very prolific, and the pods are straight, handsome, very tender, and stringless. Early and well adapted for forcing; an exceptionally fine green, round-podded variety. Pkt. 15 cts., lb. 90 cts., 2 lbs. \$1.75.

Brussels Sprouts, Thorburn's Improved

We grow this specially for the private and market garden, and consider it the best strain produced anywhere. Oz. 85 cts., $\frac{1}{4}$ 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. \$4.

Early Jersey Wakefield Cabbage

THORBURN'S SELECTED STOCK

Undoubtedly the finest strain of this most popular, well-known early Cabbage in cultivation. The heads are extremely solid, pyramidal in shape, with very little outside foliage. Pkt. 10 cts., oz. 45 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.50.

Extra-early Nordheim Sweet Corn

The earliest Sweet Corn in cultivation. Produces stalks from 6 to 7 feet high, each bearing three or four nearly perfect ears of finest quality. On style of Minnesota, but far exceeding that variety in the deliciousness of its flavor, as well as in earliness and productiveness. $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 5 lbs. \$2.25.

Golden Evergreen Sweet Corn

Late; very sweet, round grains; beautiful table variety. $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 5 lbs. \$2.25.

Thorburn's Early White Perfection Corn

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. One grower says of this Corn that it is one of the best varieties of Sweet Corn ever seen in the field. $\frac{1}{2}$ lb. 30 cts., lb. 50 cts., 5 lbs. \$2.25.

Cucumber, Thorburn's Noroton Selected White Spine

A selection of the Improved White Spine, but earlier, more perfect in shape and more prolific. The best slicing variety we have seen, being solid in flesh, fine-grained, tender and of delicious flavor. Vigorous, healthy grower. A splendid sort for the home garden, and absolutely without an equal for market. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Celery, Thorburn's Gilt-edge Golden Self-blanching

Golden Self-blanching is the variety of Celery par excellence, and we can recommend our strain with every confidence. The chief characteristics of this sort are its self-blanching qualities and the beautiful waxy yellow appearance of the stalks. It is of compact, heavy growth and produces stalks that are brittle and crisp in the extreme and hearts that are large and solid. Pkt. 20 cts., oz. \$1, $\frac{1}{4}$ lb. \$3, lb. \$10.

Thorburn's Big Boston Lettuce, Improved

Our strain of this well-known and most popular sort is without doubt the finest in existence. It is too well known to require any lengthy description. It is sufficient to say that it is equally valuable for growing in greenhouses for winter use, in frames for spring, or for sowing the seed in the open ground for use in summer and fall. It is unequalled by any other variety for crispness and tenderness; produces large, solid heads with few outside leaves, and stands long before running to seed. Pkt. 5 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Egyptian Deity Muskmelon Persian Delight

A new Melon of Cassaba type, from South Africa, said to be very fine quality. Pkt. 10 cts., oz. 20 cts.

Denia Onion

Imported from Spain. Very large, globe-shaped, pale yellow. This is the Onion shipped to this market from Spain. Pkt. 15 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.

Tomato, Perfection

Large, smooth, blood-red fruit, 10 days earlier than the well-known Stone variety. Very desirable for the home-garden. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75.

Turnip, Snowball

The best variety for the summer garden; pure white; delicate flavor. Oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

Flower Seed Novelties and Specialties of Merit

Adonis Aleppica, The Syrian Flos Adonis

This most beautiful annual grows to a height of 16 to 20 inches and produces 16 to 20 chief stems. From these there are many lateral branches, each ending in a round flower, about four times as large as those of the common Flos Adonis. Color is a brilliant, dark red; free blooming; very floriferous; handsome feathered foliage; excellent for cutting and as a pot plant. May be started in a coldframe or sown in the open ground early in spring. It takes, under normal conditions, four to six weeks for it to germinate, but occasionally six months to one year. Autumn sowing does not succeed. Pkt. 50 cts.

Antirrhinum nanum grandiflorum, Peace

Of compact growth, not exceeding 15 inches in height, and with distinct narrow foliage. This beautiful new variety bears shapely flowers of a lovely rose-pink, with slight salmon shading. Pkt. 50 cts.

Aster, Hercules White

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

Aster, Vick's Early Branching Rosy Red

A new color, darker than rose, lighter than crimson—a beautiful rosy red. Plants are more vigorous and larger than any other shade of red. Pkt. 25 cts., 2 pkts. 40 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 a round, compact bush. The unique form and coloring of the flowers will appeal to those who like oddities. Pkt. 15 cts.

Calceolaria, Covent Garden Strain

Extra choice; recommended for habit, size and marking of flowers. Pkt. 30 cts.

Cosmos

New Double Crimson. Full, round, double Pkt. flowers.....\$0 25
Double Crested Pink Beauty. Soft pink.... 15
Double Crested Crimson King. Dark crimson..... 15
Double Crested White Queen. These double-crested varieties are not fully double, but are double-crested, having double centers and a row of petals around the base of the flower, making them very effective.... 15

Chrysanthemum maximum laciniatum, White Comet Marguerite

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

Dahlia, "Peter Pan"

This new dwarf Dahlia is quite unique, both in habit and in form of flower. The wonderfully compact little bushes begin to bloom when barely a foot in height, and do not exceed 18 inches to 2 feet. The flowers may be described as anemone-shaped, with tubular center and outspread ray florets, in many combinations of bright colors. Pkt. 50 cts.

Delphinium, "Blue Gem"

ANNUAL

A plant of compact and bushy growth, giving an abundance of bloom. Height 9 to 12 inches. The flower is large and of a beautiful deep blue. Of good, compact habit; an excellent pot plant. Pkt. 50 cts.

Eschscholtzia, Vesuvius

Wallflower-red, same color inside petals as outside. Pkt. 10 cts.

Lupinus polyphyllus, "Lavender Queen"

Very pretty lavender, tinted rose. A lovely new shade. Pkt. 30 cts.

FLOWER SEED NOVELTIES AND SPECIALTIES OF MERIT, continued

Myosotis "Blue Eyes"

FORGET-ME-NOT

A strong-growing, free-blooming, compact variety; color bright blue. 12 inches. Pkt. 25 cts.

Pansy, "Apricot Queen"

Distinct new bedding variety; very compact and free-flowering, of a pretty apricot, shaded yellow. Pkt. 25 cts.

Double Queen Poppies

A lovely strain of hardy annual Poppies. Abundant flowers of the Shirley type, but double, of the most delicate and brilliant colors, ranging from palest pink to rosy scarlet; many charming selfs, others beautifully picoteed various red shades. Fine cut-flowers. Pkt. 25 cts.

Lilliput Poppy (Papaver Rhoëas pumilum)

This new introduction represents a very dwarf class of the single-blooming Shirley Poppy. Height 12 to 14 inches. Each tuft develops straight peduncles, standing about 2 inches above the leaves and ending in a mass of from 60 to 120 flowers, 1½ to 2 inches in diameter. Color mostly light or dark rose, with golden yellow anthers; blooms all summer. Sow in the open ground either in spring or autumn. Pkt. 30 cts.

Sweet Peas (Spencer), "The Cardinal"

Brilliant, intense, poppy-scarlet; bears four large, waved flowers to a stem. The best sunproof scarlet. Pkt. 15 cts., oz. 40 cts.

Stocks, Mammoth Ten-Weeks, "Heatham Beauty"

A new and quite distinct color, pyramidal habit, with very large flowers of a rich mauve, shaded terracotta. Pkt. 30 cts.

Stock, Nice, Early Giant-flowering Winter, "Aurora"

In habit and large size of flower, Aurora compares with the grand Giant Nice varieties. Produces huge spikes thickly studded with large blooms, of a lively golden buff, suffused with rose—a splendid color. Pkt. 50 cts.

Schizanthus grandiflora, Hybrid

Mayblossom. Pale rose-pink and white, free from any markings or darker tints; dwarf, compact, pyramidal habit. Pkt. 25 cts.

Thermopsis Caroliniana

"ST. PETER'S STAFF"

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

Verbena hybrida, "Lucifer"

Intense brilliant scarlet, with no eye. A great improvement on Defiance. Pkt. 30 cts.

Verbena hybrida grandiflora (Mammoth), "Rose Queen"

Originating from the well-known variety, "Helen Willmott," this superb new sort bears flowers of a lovely delicate rose. Blooms are unusually large, 20 to 30 of them often being grouped on a single umbel, producing a magnificent effect. Blooms very early. Pkt. 50 cts.

Verbena hybrida grandiflora (Mammoth), "Scarlet Queen"

Flowers of the most vivid scarlet, with a large and distinct white eye. The blooms are very large, with a long season of blooming. Pkt. 50 cts.

Verbena hybrida gigantea, Mixed

Giant florets the size of a fifty-cent piece. Pkt. 30 cts.

New Double Semi-dwarf Wallflower

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

Zinnia elegans robusta grandiflora, "Achievement"

Distinct from all other Zinnias. Rich variety of colors; free and strong grower, producing an abundance of double flowers; blooms attain a diameter of 5 to 6 inches. Excellent as a cut-flower. Pkt. 30 cts.

Zinnia elegans robusta grandiflora plenissima, "Rose King"

This grand new giant Zinnia bears flowers of a beautiful carmine-rose tint, of immense size, probably surpassing those of any other Zinnia. Pkt. 50 cts.

VEGETABLE SEEDS

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

See second cover and pages 4 and 5 of this Catalogue for COMPLETE COLLECTIONS OF VEGETABLE SEEDS of approved and choice sorts from \$1 to \$36, and page 62 for CHOICE COLLECTIONS OF FLOWER SEEDS.

Some varieties of seeds may again be late in reaching us this season. Under the circumstances it will be well, therefore, to state when ordering, whether we are at liberty to substitute or not. Customers can depend upon our using our best judgment in substituting other equally good sorts for those ordered which we may not be able to supply.

ARTICHAUT **ARTICHOKE** *Alcachofa*

CULTURE.—Hardy perennial requiring protection in our climate. Deep, rich, sandy loam with plenty of well-rotted manure. Sow seeds ½ inch apart in April or May, and when plants are large enough, transplant into rows 3 to 4 feet apart and 2 feet in the rows. They reach maturity the second year. When cold weather sets in, bank the earth to the top, first cutting off and tying up the leaves to protect the heart of the plant from soil, so that they will occupy less space, and in the spring uncover each plant and fork in a dressing of manure. Artichoke may also be treated as an annual by sowing the seed in hotbeds during February, potting the plants to avoid setting back and transplanting in May when frosts are past. Seedlings should give edible heads the same summer. 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.

		Pkt.	Oz.	¼lb.
French Green Globe. (Seed.) The standard sort.....	110	\$0 25	\$0 90	\$2 25
French Purple Globe.	120	25	90	2 25

Jerusalem Artichoke Roots. Will grow in any soil that is not wet, but prefers a sandy, well-drained soil. Plant whole tubers; if large, cut to two eyes. Plant as early as the ground can be worked. For best results take off all flowers; dig when tops die down. Requires a season of five months. Qt. 25 cts., pk. \$1.50.

ASPARAGUS

ASPERGES *Esparrago*

CULTURE.—Sow the seed thinly in rows 1 foot apart in April or May (4 or 5 pounds to the acre; 1 ounce will sow a 50-foot row), 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 under-drained. In planting for private use, set out in beds 5 feet wide, three rows in a bed, the outer being each 1 foot from the edge, and allow 18 inches between the rows; set the plants from 4 to 6 inches below the surface, 2 feet apart. 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.*

All 5 cents per packet

Colossal. The approved standard sort. The famous <i>Argenteuil</i> of the French is identical with it.....	170	\$0 10	\$0 30	\$1 00
Palmetto. Of southern origin; a very desirable bright green Asparagus. 180	180	10	30	1 00
Bonvalette's Giant. An improved Palmetto, said to produce larger stalks.....	190	10	30	1 00
Columbian Mammoth. Very large shoots.....	200	10	30	1 00
Giant Argenteuil. Popular variety in France, similar to Colossal, but larger stalks.....	210	10	30	1 00



Giant Argenteuil Asparagus

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

ASPARAGUS ROOTS

Plant either in the spring or fall

	50	100	1,000
Colossal. 2-year-old roots.....	\$0 60	\$1 00	\$9 00
“ 3-year-old roots.....	1 00	1 50	14 00
“ 4-year-old roots. For forcing.....	1 50	2 25	20 00
Columbian Mammoth. 2-year-old roots.....	75	1 25	10 00
Barr’s Mammoth. 2-year-old roots.....	75	1 25	10 00
Giant Argenteuil. 2-year-old roots.....	75	1 25	10 00
“ “ 3-year-old roots.....	1 00	1 50	14 00
Palmetto. 2-year-old roots.....	60	1 00	9 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.

BEANS

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

CULTURE.—About the first of May, if the ground is perfectly warm, select a warm, dry sheltered spot, any good soil, preferably a moist, deep loam, not over-rich in nitrogen, dig and manure very 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 up to about August 1, for a succession. Two pounds (1 quart) to 100 feet of drill; 1 to 1½ bushels (60 to 90 pounds) to the acre, in drills. For quick results, soak the seeds before planting.

DWARF GREEN-PODDED SNAP BEANS

HARICOTS NAINS *Frijoles*

We supply packets of all Green-podded Snap Beans at 15 cts. each, postpaid, except where quoted otherwise; other quantities not prepaid; add postage at zone rates

	1 lb.	2 lbs.	5 lbs.
Thorburn’s Earliest of All. Long, round, green pod; stringless; prolific and of finest quality; also a good forcer, and as the name indicates, this is the earliest of all Dwarf Beans. At time we go to press it is uncertain if we shall have any of this variety, crop being doubtful.....	300		
Bountiful. One of the best green-pod sorts; extra early, very prolific and long-bearing; long, broad, flat green pods, tender and stringless.....	310	\$0 40	\$0 75 \$1 75
Dwarf Horticultural. Late and productive; broad, flat stringless pods. It is also used as a <i>Shell Bean</i>	320	40	75 1 75
Full Measure. Large, round pods; firm, tender, sweet and entirely stringless.....	340	40	75 1 75
Green-seeded Flageolet. Only used as a <i>Shell Bean</i> when green. Beans tender and of fine flavor.....	370	90	1 75 4 25
Longfellow. Long, straight, round, solid, green pods; very early; of good quality; stringless when young.....	390	35	65 1 50
Low’s Champion. Large, flat pods; stringless; fine flavor; early.....	400	40	75 1 75
Marvel of Paris. Long, slender, flat pods; early; very productive; very tender, brittle, fine-grained, of excellent quality.....	410	90	1 75 4 25
Mohawk. Long, flat, straight pods; early; very productive and very hardy.....	420	40	75 1 75
Refugee Late, or 1,000-to-1. Medium to late; very productive and tender; long green, round pods of exquisite flavor...	440	35	65 1 50
Refugee, Thorburn Extra-Early. Has all the superior qualities of the famous Refugee, and is fully two weeks earlier in podding. Pods round, light green, extra fine and borne profusely.....	450	35	65 1 50
Refugee, Stringless. Stringless at all stages of development.....	470	40	75 1 75
Six Weeks, Long Yellow. Early; full, flat pods of good quality.....	480	30	55 1 25
Six Weeks, Round Yellow. Full, green, roundish pods; early and productive; fine flavor.....	485	30	55 1 25



Stringless Green Pod

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

DWARF GREEN-PODDED SNAP BEANS, continued

Stringless Green-Pod. Extra early; stringless; prolific; dark green, round pods; decidedly curved.....	490	1 lb. \$0 40	2 lbs. \$0 75	5 lbs. \$1 75
Stringless Green-Pod, Giant. Improved, long-podded strain of above; light green.....	500	40	75	1 75
MASTERPIECE (Sutton's). A superior green round-podded variety; very prolific; long, straight, stringless pods; very early, fine forcer. Our stock of this exceptionally fine variety has given great satisfaction wherever tried.....	510	90	1 75	4 25
Valentine, Extra-Early. Hardy, vigorous, and upright in growth; round, thick, solid pods; tender; fine flavor.....	520	35	65	1 50
Valentine, Black. Resembles the Valentine, but with black seed; long, round, solid pods; very tender and of good flavor; very early and productive.....	540	30	55	1 25

ENGLISH DWARF BEANS

FEVE DE MARIAS *Haba*

CULTURE.—Sow in drills 2 feet apart, the Beans 3 to 4 inches apart in the rows, and 2 inches deep, 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. May be sown under glass in February and planted out when well hardened, as soon as the ground is fit, earthing up slightly against late frosts. When in pod, break off the top of the plant to check the growth. Plant and hoe the same as for Dwarf Beans. A strong soil suits them best.

Properly cooked, these Beans form one of the most delicious vegetables. To each half gallon of water allow one heaping 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. Add postage at zone rates.

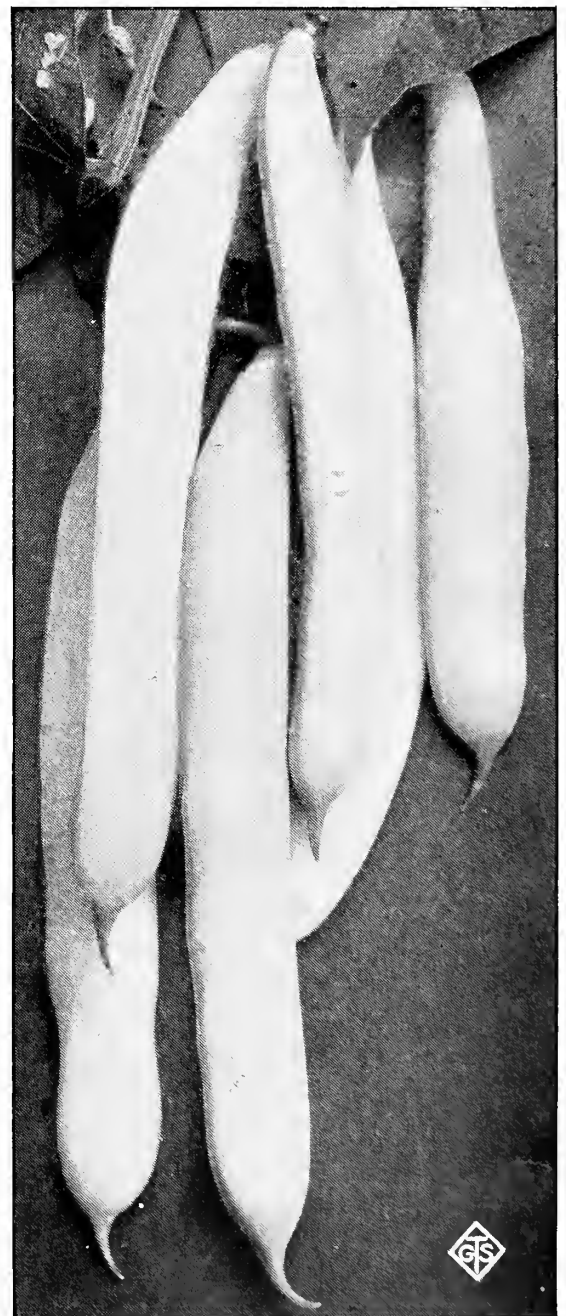
Broad Windsor. Largest and best of the class.....	650	1 lb. \$0 60	2 lbs. \$1 10	5 lbs. \$2 50
Sword Long-Pod. A size smaller than Windsor.....	670	50	90	2 10
Mazagan. Earliest of the class.....	660	45	85	2 00

DWARF WAX BEANS

Culture same as on page 10

We supply packets of all Dwarf Wax Beans at 15 cts. each, postpaid; other quantities not prepaid; add postage at zone rates

Black Wax, Improved Prolific. Very early and prolific. The pods are round, full, stringless and of fine quality... 750	1 lb. \$0 40	2 lbs. \$0 75	5 lbs. \$1 75
Black Wax, Currie's Rust-proof. Flat pods; early; productive; fine quality. 770	40	75	1 75
Black Wax, Pencil-Pod. Slender, long, round pods..... 780	45	85	2 00
Davis Kidney Wax. Long, handsome, waxy white, flat pods; vigorous and upright in growth, holding pods well up from the ground..... 790	40	75	1 75
Detroit Wax. Resembles Golden Wax; flat pods; early, hardy and prolific.. 792	40	75	1 75
Golden Wax, Improved. Very early; flat pods; stringless; prolific, hardy and much less liable to blight or rust than the old Golden Wax..... 800	40	75	1 75
Golden-eye Wax. Hardy and prolific; flat, yellow pods; early and free from rust; vigorous and productive..... 820	40	75	1 75
Hodson Wax. Very large, brittle, tender flat wax pods; very productive; late. 830	40	75	1 75
Refugee Wax, Thorburn's Stringless. A perfect Refugee, with brittle, round, wax pods; for early or late sowing; immense yielder; late..... 850	40	75	1 75
Round-Pod Kidney Wax, or Brittle Wax. Similar to Wardwell's Kidney, but with round pods..... 860	45	85	2 00
Valentine Wax, Thorburn's. Round pod; prolific; solid and meaty; very fine quality when young; one of the earliest. 880	50	90	2 10
Wardwell's Kidney Wax. Early; long, flat, purely wax pods and of handsome appearance; stringless; of fine quality. 890	50	90	2 10
Webber Wax. Vine strong, holding pods well up from the ground. Pods small in size, curved, round, bright yellow; early and very prolific..... 900	50	90	2 10



Improved Golden Wax Beans

DWARF LIMA AND DWARF WHITE BEANS

CULTURE.—Plant as soon as warm weather has fairly set in. Soil should be light and rich. Sow in drills 2 feet apart, the Beans about 6 inches apart, and covering about 2 inches. Two pounds to 100 feet of drill. Mulching keeps the pods from the ground.

We supply packets of these Beans at 15 cts. each, postpaid; other quantities not prepaid; add postage at zone rates

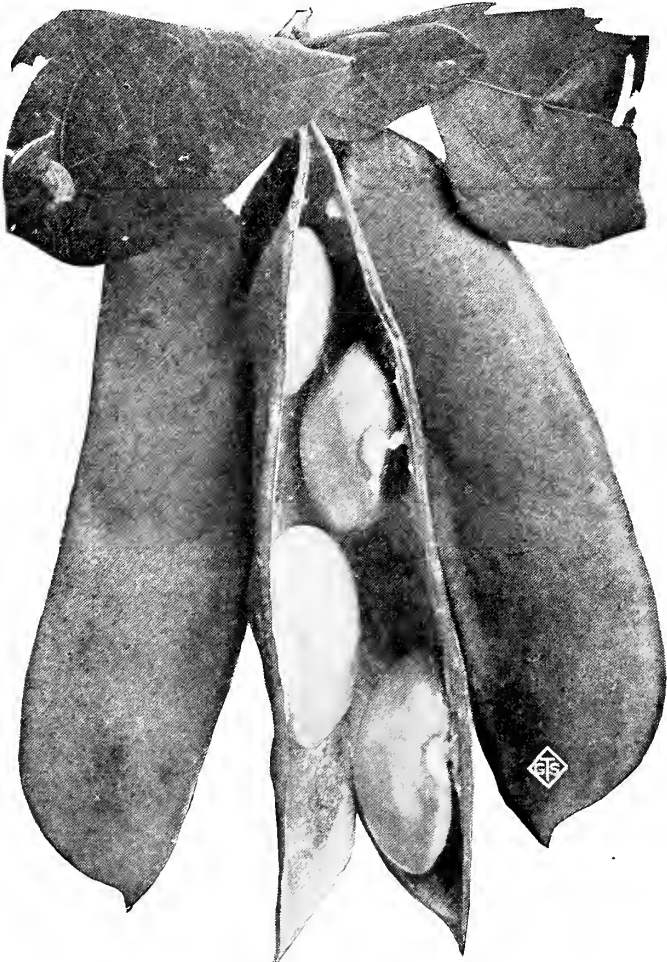
Thorburn's Dwarf Lima. (The True Kumerle Strain.) Dwarf form of Challenger Lima—the finest of all Limas—with the same flavor. The Beans are extra large, and are a pure creamy white; very tender.....	1000	\$0 60	\$1 10	\$2 50
Burpee's Bush Lima. A bush form of the large, flat, Pole Lima, growing only 18 to 20 inches high. The Beans are borne very profusely.....	1010	55	1 00	2 30
Burpee's Improved Bush Lima. Much larger pods and Beans than above.....	1020	60	1 10	2 50
Fordhook's Bush Lima. Immense pods and Beans; a strong grower and very prolific.....	1030	60	1 10	2 50
Henderson's Bush Lima, or Dwarf Sieva. Productive; Beans somewhat smaller than the others but of fine quality.....	1040	40	75	1 75
Jackson Wonder, or Calico. Dried Beans irregularly spotted and streaked dark brown.....	1045	40	75	1 75
New Wonder Bush Lima. Early and productive, similar to Burpee's Bush Lima.....	1050	50	90	2 10
Wood's Prolific Bush Lima. The Early Sieva or Butter Bean of the South. Very productive.....	1060	45	85	2 00
White Kidney. Excellent either green or ripe, as a Shell Bean.....	1070	25	45	1 00
“ Marrow. Good either as a String or Shell Bean.....	1080	25	45	1 00
Red Kidney. Long, flat pods; good both green and dry; fine variety for baking. . .	1090	25	45	1 00
White Navy. Well-known small white Bean used for “Boston Baked Beans.” . .	1095	25	45	1 00
“ Tepary (Field Bean). Very early and very productive; being a native of the arid Southwest, valuable for dry weather; cooks tender and of fine flavor. Plant 12 pounds to the acre.....	1100	25	45	1 00

HARICOTS A RAMES POLE, or RUNNING BEANS *Frijoles de Bejuco*

CULTURE.—Sow as the soil becomes warm and dry, from the first to the latter part of May for all except Limas, in hills 4 feet apart each way. Limas should not be planted until warm weather has fairly set in. Two pounds (1 quart) of Limas will plant about 100 hills, allowing four or five Beans to a hill, and of the smaller sorts, about 200 hills. Plant Pole Limas eye down, 2 inches deep. Poles 8 to 10 feet long should be firmly set in the hills before planting seed.

We supply packets of Pole Beans at 15 cts. each, postpaid; other quantities not prepaid; add postage at zone rates

LIMA, THORBURN'S CHALLENGER. Thick and productive; best of all..	1200	\$0 50	\$0 90	\$2 10
Lima, Carpinteria Pole. Large; thicker than ordinary Pole Limas; vigorous grower. Very large flat Beans. . .	1204	45	85	2 00
Lima, Early Jersey. Very early; Beans large, tender, three to pod. . . .	1214	40	75	1 75
Lima, King of the Garden. Large pod and Bean; late.....	1230	50	90	2 10
Lima, Large White. An old standard sort, highly esteemed.....	1232	40	75	1 75
Lima, Leviathan. Early; very prolific and of excellent quality.....	1235	45	85	2 00
Lima, Small Sieva or Carolina. Early.....	1250	40	75	1 75
Dutch Case-Knife. Pods long, green, flat; good as a Snap or Shell Bean.....	1270	40	75	1 75
Golden Cluster Improved Wax. Long, golden pods in clusters. . .	1300	50	90	2 10
Horticultural Pole. Good as a Snap or a Shell Bean. One of the old standards and still very popular. . .	1280	35	65	1 50
Kentucky Wonder or Old Homestead. Pods green; very long and flat; exceedingly prolific.....	1310	35	65	1 50
Kentucky Wonder. White seed.....	1314	30	55	1 25
Kentucky Wonder. Golden Wax Pod.....	1320	50	90	2 10
Scarlet Runner. The popular English Pole Bean, good for String Beans and ornamental.....	1340	50	90	2 10
Southern Creaseback. Long, round, stringless pods; fleshy, tender, and of good flavor.....	1350	35	65	1 50
Yard-Long French. Pods grow sometimes 2 to 3 feet long; very slender; curious; grow on pea brush. . . .	1390	60	1 10	2 50



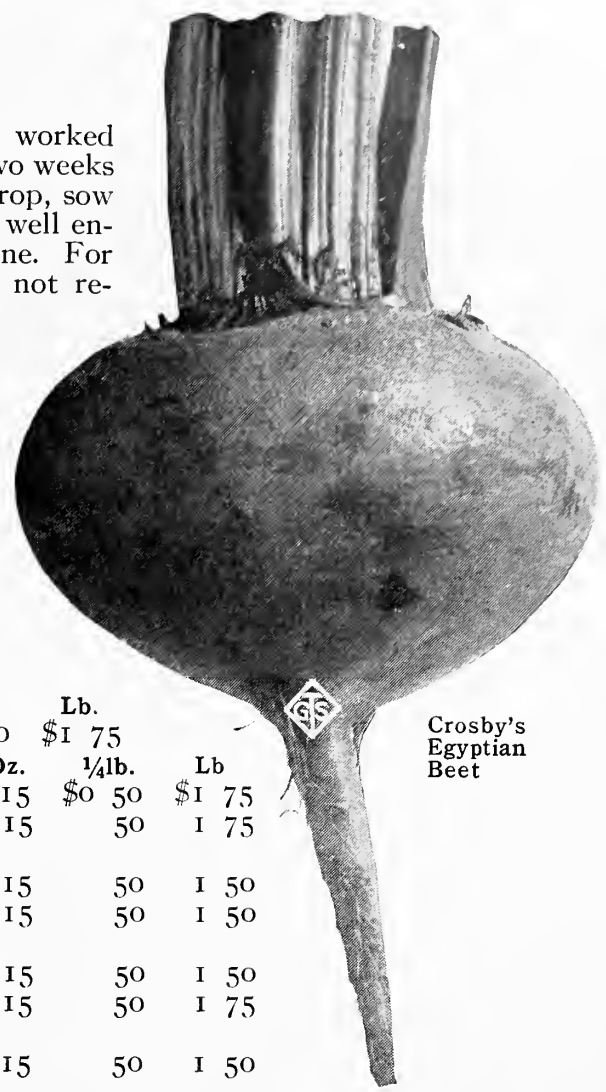
Thorburn's Challenger Lima Beans

BETTERAVE **BEET** *Remolacha*

CULTURE.—Sow as early in the spring as the ground can be worked (1 ounce to 50 feet of drill; 5 or 6 pounds to the acre), and every two weeks after for a succession up to the first week of July. For general crop, sow about the middle of May. The soil should be light, sandy loam, well enriched with stable manure and plowed and harrowed until very fine. For long Beets the soil should be rich and deep, well pulverized and not recently manured. The Turnip Beet matures in 60 to 75 days; the long varieties require the whole season for their growth. Sow in drills 1 foot to 15 inches apart, and when well up, thin to from 4 to 6 inches. The young Beets, with their tops, pulled out of the row, are excellent used as a spinach. For this purpose, sow frequently and use when of the size of a hickory nut.

All 5 cents per packet

Bassano. Early; light color; good sort; very sweet.....	1500	Oz. \$0 15	1/4lb. \$0 50	Lb. \$1 50			
Crimson Globe. Globular shape; flesh rich, deep crimson; tender and sweet...	1520	15	50	1 50			
Sutton's Globe. Early, especially on light soils; of high quality and handsome shape.....	1530	Oz. \$0 15	1/4lb. \$0 50	Lb. \$1 75			
Detroit Dark Red Turnip. Round; skin dark blood-red; flesh bright red.....	1540	Oz. \$0 15	1/4lb. \$0 50	Lb. \$1 75			
Dewing's Early. Of fine form and flavor; good for market.	1550	15	50	1 75			
Early Blood Turnip. Dark red; fine flavor; good for winter.....	1560	15	50	1 50			
Eclipse. Early; round; bright red.....	1570	15	50	1 50			
Edmand's Blood Turnip. A market-gardeners' strain; regular in shape and of best quality.....	1580	15	50	1 50			
Egyptian. Extra early; flat.....	1590	15	50	1 75			
Egyptian, Crosby's. Extra early; round; dark blood-color.	1600	15	50	1 50			
Long Smooth Blood. (Out of ground.) A good late variety for winter.....	1620	20	60	2 00	Oz.	1/4lb.	Lb.
Treviso or Columbia. Red; early; flat; tender. Fine sort for table.....	1644	\$0 20	\$0 60	\$2 00			
Witham Fireball. Brilliant red flesh; solid, sweet and crisp; fine quality; globe-shaped; very early.....	1650	20	60	2 00			
Swiss Chard or Silver Beet. To be used same as spinach (see page 37).....	1690	15	50	1 75			
Swiss Chard or Silver Beet, Lucullus. Large leaves; tender and of fine flavor; dark green; pure white ribs (see page 37).....	1700	15	50	1 80			



Crosby's Egyptian Beet

MANGEL-WURZEL AND SUGAR BEET

CULTURE.—As all Mangels require a deep rich soil in order to grow well, plow and subsoil at least 1 foot to 18 inches and apply plenty of rich stable or our Complete Manure. Sow in May or June, in rows 18 inches to 2 feet apart, and thin to 8 to 12 inches in the rows. Young plants may be transplanted to fill up vacancies. Sow in addition, when the plants are 3 to 4 inches high, at the rate of 200 pounds of Complete Manure, 200 pounds of bone meal and 400 pounds of salt to the acre. As soon as frost occurs, dig the crop. In order to be well preserved for gradual consumption during the winter, the roots should be heaped to a height of perhaps 6 feet, on a dry, sloping situation; cover at first with a piece of canvas and as the cold increases this should be replaced by about 6 inches of either salt hay, straw, seaweed or cornstalks, 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

Giant Half-Sugar. White, green top; long, ovoid; red skin, white flesh.....	1850	Oz. \$0 15	1/4lb. \$0 40	Lb. \$1 25
Giant Half-Sugar, Rose Top.	1855	15	40	1 25
Golden Tankard. Large; bright yellow skin; handsome, sweet and productive..	1870	15	40	1 25
Golden Yellow Globe. Productive.....	1874	15	40	1 25
Giant Yellow Intermediate. Very large.....	1860	15	40	1 25
Mammoth Long Red Mangel-Wurzel. Very large; enormously productive under careful culture.....	1910	10	30	1 00
Yellow Ovoid. Of distinct shape; one of the most productive sorts; flesh white, tender and sweet.....	1950	15	40	1 25

SUGAR BEET

We recommend 5 to 10 pounds to the acre.

Klein Wanzleben	2000	Oz. \$0 15	1/4lb. \$0 50	Lb. \$1 75
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BORAGE

BOURRACHE

Borraja

The young leaves of this annual, which smell somewhat like a cucumber, are used as salad, or boiled like spinach. Should be sown to the depth of 1/2 to 1 inch, at intervals, as the leaves are palatable only when young. Sow in the spring, in light soil; transplant in shallow drills, 1 foot apart, when of six weeks' growth. 240. Pkt. 10 cts., oz. 30 cts., 1/4lb. 85 cts., lb. \$3.

BROCCOLI

BROCCOLI

Brocoli

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 same as cabbage, in rich, moist, and moderately deep soil, and use the same remedies for insect attacks. The inner leaves should be tied over the head as soon as formed. The following are sorts best adapted to this climate; they are excellent and deserve much wider culture than is usual in this country. One ounce will produce about 2,000 plants.

All 10 cents per packet

	Oz.	1/4lb.		Oz.	1/4lb.	
Early White	2100	\$0 50	} Purple Sprouting	2122	\$0 30	
Mammoth White	2110	50		} St. James' Late	2125	50
					} Veitch's Self-Protecting	2130
						1 50



Aigburth Brussels Sprouts

BRUSSELS SPROUTS

CHOU DE BRUXELLES

Berza de Bruselas

Brussels Sprouts is, without exception, the best winter vegetable that can be grown. It is as hardy as the common curled greens. The Sprouts, which are about the size of a marble and very firm, fairly melt in the mouth when just cooked through.

CULTURE.—For early crop, as soon as ground is fit, sow thinly 1/2 inch deep in seed bed with rows 1 foot apart. Thin to 2 inches or more apart; transplant in June so that plants stand at least 1 foot apart and rows 1 1/2 feet apart; for late crop proceed as above, except that seed is planted early in June, 1 inch deep, and is transplanted about August 1. Rich loam is best. If soil is sandy, dig in compost around each plant or mulch to conserve moisture. As the Sprouts begin to grow big, break off the leaves near them. When the Sprouts are full size, cut as wanted, but not too close—sometimes other Sprouts will start in their places.

All 10 cents per packet

Dalkeith. Of dwarf growth, producing large, solid sprouts.....	2190	\$0 40	Oz.	40	1/4lb.	\$1 25
Aigburth. Compact heads; prolific.....	2195			40		1 25
Cambridgeshire Champion. Heavy cropper; fine quality; excellent sort for market.....	2200			40		1 25
Dwarf Improved	2210			40		1 25
Thorburn's Improved	2212			85		3 00
Sharpe's Standard. Finest tall variety, with large solid sprouts.....	2220			50		1 50
Scrymgers. Tall standard sort.....	2225			40		1 25

CAULIFLOWER

CHOU-FLEUR

Coliflor

CULTURE.—The same as for cabbage except that extra manure and plenty of water will pay upon Cauliflower. If the soil be dry, water frequently, and, if the plants have a heavy mulch of hay or straw, it will keep the soil moist, and they will not suffer from drought. Cauliflower can be grown for an early crop by starting the seed under glass late in February or very early in March. Prick out the seedlings once. Keep them stocky but do not stunt. Harden off to set out when the soil is in best condition in April. The late kinds may be planted out the same time as cabbage. It is also possible to get a late crop by sowing the early varieties in seed-bed early in June, transplanting when about 5 inches high, giving the plants liquid manure or nitrate of soda.

When the heads form and begin to push aside the small leaves, tie the larger leaves together over the center, leaving some loose, to exclude rain and sun; see that the worms have been previously exterminated.

Thorburn's Extra-Early Dwarf Erfurt. The best and earliest for forcing; very dwarf and compact, with short stem and small leaves. The curd is very tender and exceedingly fine flavored. Should not be confounded with entirely different sorts advertised. Price, if obtainable. .2250

Pkt.	1/4oz.	1/2oz.	Oz.
\$0 50	\$2 75	\$4 50	\$8 00

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

CAULIFLOWER, continued

THORBURN'S GILT-EDGE.

Large, heavy sort, maturing immediately after our Large Snowball. Best of all. See Novelties. 2270. Pkt. 25 cts., 1/4oz. \$1.50, 1/2oz. \$2.50, oz. \$4.00.

Thorburn's Extra-Early Snowball.

Our strain of this popular variety is unequalled. It is one of the best for forcing under glass or for open ground. 2280. Pkt. 25c., 1/4oz. \$1.75, 1/2oz. \$3, oz. \$5.

Thorburn's Large Early Snowball.

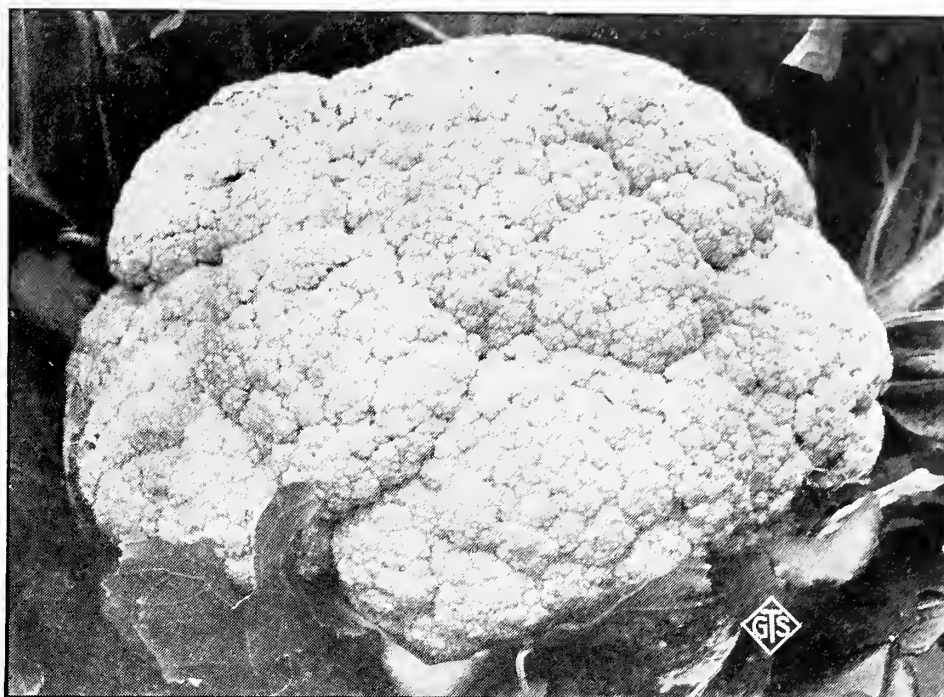
A large strain of the above. 2290. Pkt. 25 cts., 1/4oz. \$1.50, 1/2oz. \$2.50, oz. \$4.

Danish Giant, or Dry Weather.

Later than Early Erfurt, pure white and of fine quality, said to be less affected by drought than any other variety. 2295. Pkt. 50 cts., 1/4oz. \$2, 1/2oz. \$3.50, oz. \$6.

Extra-Early Paris.

Heads of medium size; first-class. 2310. Pkt. 25 cts., 1/4oz. \$1.25, 1/2oz. \$2, oz. \$3.50.



Thorburn's Gilt-Edge Cauliflower

	Pkt.	Oz.	1/4lb.
Lenormand Short-Stem. Has very large heads; white and firm.....	2320	\$0 25	\$1 00 \$3 00
Algiers, Large Early	2330	25	2 00 6 00
Thorburn's Nonpareil. A first-class standard sort.....	2340	25	1 00 3 00
Early London. Large and hardy.....	2350	25	1 00 3 00
Early White Nocera. Short stem.....	2355	10	75 2 25
Early Giant of Naples	2356	10	75 2 25
Late Giant of Naples	2358	10	75 2 25
Autumn Giant. Vigorous in growth; very large; late.....	2360	10	60 2 00

CHOU **CABBAGE** *Col repollo*

CULTURE.—Soil for Cabbage should be rich and heavy loam, with good drainage. On such a soil, with an abundance of stable or our 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. One ounce of seed will produce 2,000 to 2,500 plants. The culture for Cabbage should be clean and regular. Do not allow the ground to dry out, for if the plants are checked in their growth, and then are saturated by a good rain, the heads are likely to split. By deep raking, therefore, maintain a good mulch over the Cabbage patch. To destroy the green worm, an experienced grower says: "Take one ounce of saltpeter and dissolve it in 12 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. Against Cabbage pests generally, keep down all weeds and burn the rubbish of the patch.

All 10 cents per packet, except where quoted otherwise

	Oz.	1/4lb.	Lb.
Allhead. Very early; very solid; large.....	2394	\$0 40	\$1 15 \$4 00
Autumn King. Large flat heads, fine quality and good keeper for winter....	2380	35	1 00 3 50
Copenhagen Market. The finest large, round-headed, early Cabbage. Very solid; of fine quality; short-stemmed.....,pkt. 25 cts...	2390	65	1 75 6 50
Danish Ballhead Winter. Very round, solid winter sort, largely grown in Denmark for the London market. A fine shipper.....,pkt. 25 cts...	2397	60	1 75 6 00
Danish Roundhead. Similar to the above, but matures earlier, good keeper..	2400	60	1 75 6 00
Early York. The standard English sort. Splendid.....	2420	45	1 25 4 50
EARLY JERSEY WAKEFIELD, THORBURN'S SELECTED STOCK. Undoubtedly the finest strain of this most popular, well-known early Cabbage in cultivation. The heads are extremely solid, pyramidal in shape, and of most excellent quality, with very little outside foliage.....	2460	45	1 25 4 50

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



Thorburn's Selected Early Jersey Wakefield Cabbage

CABBAGE, continued*All 10 cents per packet, except where quoted otherwise*

	Oz.	¼lb.	Lb.
Charleston Wakefield. Large strain of the above.....	2464 \$0 45	\$1 25	\$4 50
Enkhuizen Glory. Large, early, white, solid, ball-shaped heads. American grown.....	2470 60	1 75	6 00
Early Flat Dutch, Stein's. For forcing or for general crop.....	2475 40	1 15	4 00
Early Winnigstadt. A standard second-early variety; very hard heads. A valuable market Cabbage.....	2484 40	1 15	4 00
Early Summer. Second-early; produces large, solid heads of finest quality and of fine flavor.....	2490 40	1 15	4 00
Fottler's Brunswick. Of dwarf, compact growth; hard and solid heads. Good for both intermediate and winter use.....	2500 40	1 15	4 00
Green Glazed. A distinct variety; leaves rounded, very firm and stiff; dark green and glazed all over; does not head very well.....	2505 50	1 50	5 00
Succession Improved. Excellent second-early sort; large, solid heads; very popular second crop.....	2520 40	1 15	4 00
Large Late Drumhead. Large-sized variety; many leaves; dark green, waving at the edges; compact; rounded; very late; good keeper.....	2530 40	1 15	4 00
Drumhead Champion, Large Late. Large sized, very late variety, fairly short stem, compact head, good keeper.....	2533 40	1 15	4 00
Large Oxheart. Medium early; head large; obtusely conical; somewhat gray-green.....	2535 40	1 15	4 00
Large Late Flat Dutch. A valuable sort for market. One of the best-known winter Cabbages.....	2540 40	1 15	4 00
Premium Late Flat Dutch. A standard variety of the popular late flat Dutch..	2545 40	1 15	4 00
Thorburn's Market-Gardeners' Private Stock Flat Dutch. Fine strain of the immense winter Cabbage grown on Long Island for market. Of the finest quality and flavor.....	2560 45	1 25	4 50
Schweinfurt Drumhead. One of the largest Cabbages. Medium early; head broad and flat; outer leaves pale green, often tinged with brown.....	2562 45	1 25	4 50
Surehead, Flat Dutch Type. Heads large, round, flattened at the top; very firm; excellent shipper and desirable keeping variety.....	2564 40	1 15	4 00

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

CABBAGE, continued

	Oz.	1/4lb.	Lb.
Red Dutch. Popular pickling variety; large heads of finest quality.....	2610	\$0 50	\$1 50 \$5 00
Mammoth Red Rock. Very large, dark color.....	2615	45	I 25 4 50
Savoy, Early Ulm. Medium size, round, deep green heads; very early.....	2640	50	I 50 5 00
Savoy, Late Drumhead. Large, late, finely curled.....	2650	40	I 15 4 00
Stonemason. Round, medium sized and extremely hard head. Reliable header..	2655	40	I 15 4 00
Chinese (Pe-Tsai). Commonly known in the markets as Celery Cabbage....	2660	45	I 25 4 50
Wong-Bok. A Chinese Celery Cabbage with a delicate mild cabbage flavor..	2670	60	I 75 6 00

CARDOON

CARDOON *Cardo*

CULTURE.—Sow early in spring, 1/2 to 1 inch deep, in rows 3 to 4 feet apart, where the plants are to stand, and thin them, when well up, to 2 feet apart. Soil should be moist, rich, and deep. 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 may be wintered in a dark cellar away from frost.

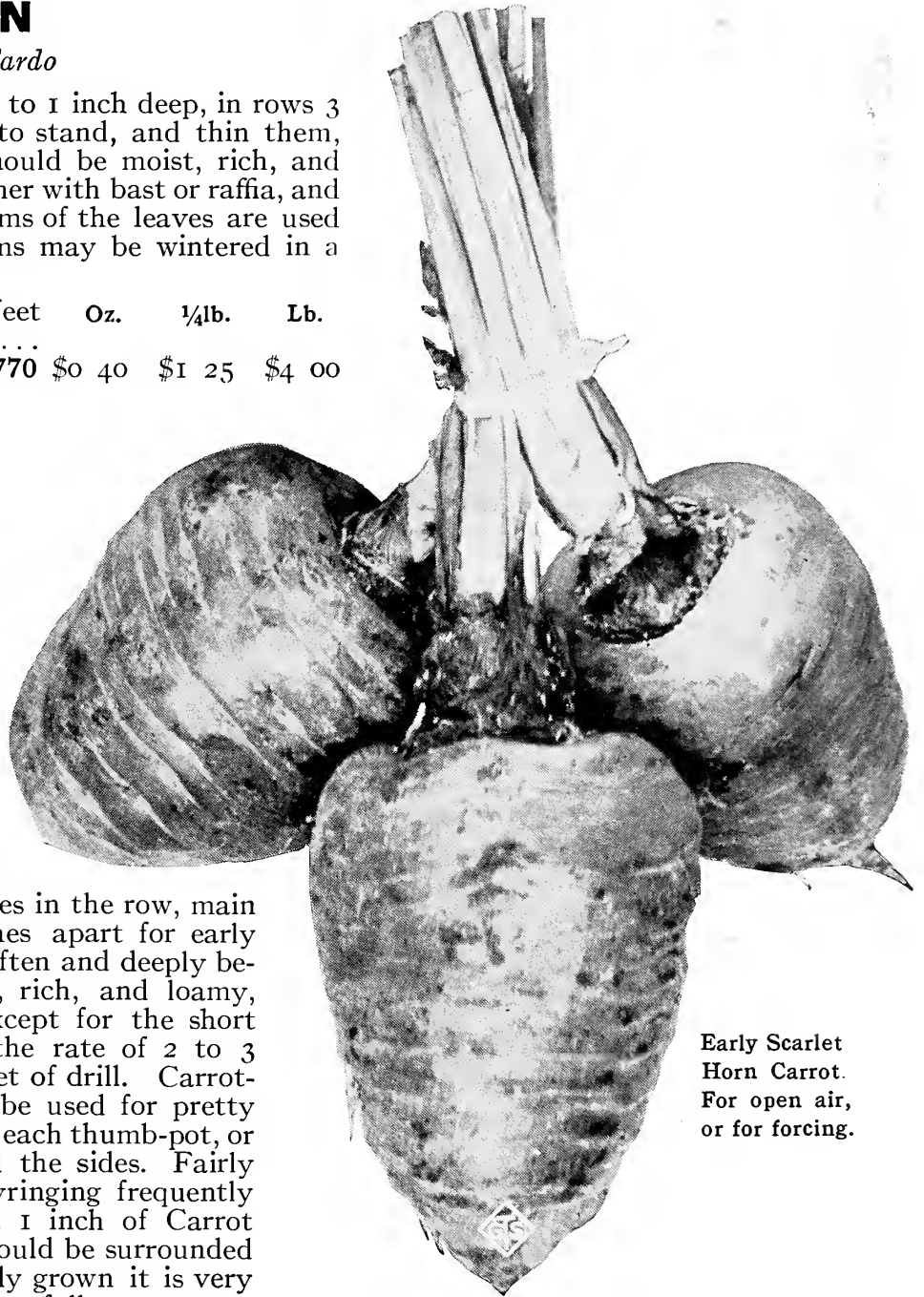
Large Solid. Smooth; grows about 4 feet high; leaves nearly free from spines.....	Oz.	1/4lb.	Lb.
.....pkt. 10 cts..	2770	\$0 40	\$1 25 \$4 00

CARROT

CAROTTE *Zanahoria*

CULTURE.—Sow No. 2890 as early as the ground can be worked; or, for late crop, until the latter part of July, or early in August for a winter crop. This is the finest and most tender for table use. For main crop sow other sorts from middle of May to the first of July. The soil must not be allowed to bake over the seeds as they germinate slowly. The seedlings are delicate and require careful cultivation until the tops cover the ground. 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 inches for main crop. Hoe often and deeply between the rows. Soil should be light, rich, and loamy, richly manured (but not recently, except for the short varieties), and deeply dug. Sow at the rate of 2 to 3 pounds to the acre; 1 ounce to 100 feet of drill. Carrot-tops cut from fairly young plants may be used for pretty indoor greenery. Put one cutting into each thumb-pot, or three or four into a larger pot around the sides. Fairly good and sandy soil should be used, syringing frequently until growth is well forward. About 1 inch of Carrot should be left to put in soil, but this should be surrounded with soil or moss to hide it. When fully grown it is very pretty, the long fronds hanging over gracefully.

All 5 cents per packet



Early Scarlet
Horn Carrot.
For open air,
or for forcing.

	Oz.	1/4lb.	Lb.
Parisian Forcing. Early; tender and sweet; fine for early and late crops, also for frames.....	2890	\$0 20	\$0 60 \$2 00
Oxheart Half-Short (Guerande). Very thick and short.....	2920	20	60 I 75
Scarlet Horn, Early. Very thick roots; fine for frames.....	2930	20	60 2 00
Half-Long Stump-rooted. An excellent sort of good quality.....	2960	20	60 I 75
Half-Long, Stump-rooted, Nantes Strain. One of the most popular sorts..	2970	20	60 2 00
Chantenay, Half-Long, Stump-rooted. Style of Nantes, broader shoulder..	2990	20	60 I 75
Danvers Half-Long. Large; of good quality; productive.....	3020	20	60 I 75
St. Valery. A thick, intermediate long red.....	3030	20	60 I 75
Long Orange. Best for stock-feeding.....	3040	20	60 I 75
Long White Belgian. Very large; one of the best varieties for stock.....	3070	20	60 I 75

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



Thorburn's Gilt-Edge Golden Self-Blanching Celery

CELERY

CELERI *Apios*

CULTURE.—Sow the seed in a light, rich, dry border as early as the ground can be worked, in drills 8 to 10 inches apart, and cover the seeds about ¼ inch deep, rolling or treading them in if the ground be dry. One ounce will be sufficient for 2,500 to 3,000 plants. When fairly out of the seed-leaf, they may be transplanted to another bed, or they may be thinned out to 6 or 8 inches apart, and let grow until wanted to plant out in beds or trenches. The beds should be kept well weeded, and an occasional soaking with water in dry weather will do the plants good. Early in July in the North, a month or six weeks later in the southern states, is the proper time to set the plants out in beds or trenches. Cutting the tops keeps them back. Cut off tap-root when first transplanted, and press the soil firmly against the roots. In the garden the better way is to set the plants in shallow trenches. We say shallow, for it is obviously a bad plan to remove all the good soil (as must be done in a deep trench) and put the plants in that which is poor. The plants must be set in a single row in a narrow trench; or the trench may be made into a bed wide enough to hold two, three or four rows, 1 foot apart, and the plants about 8 inches apart in the rows, and in this case the plants are in compact form to be covered for the winter where they grow. This will save much labor where there is no root-cellar for storage, as often happens to be the case. The bed should be made very rich with thoroughly decomposed manure. The plants will need to be earthed up two or three times, the first time when the plants are 4 inches or more above the ground so that the stalks will protect the center from contact with the earth. Care should be taken

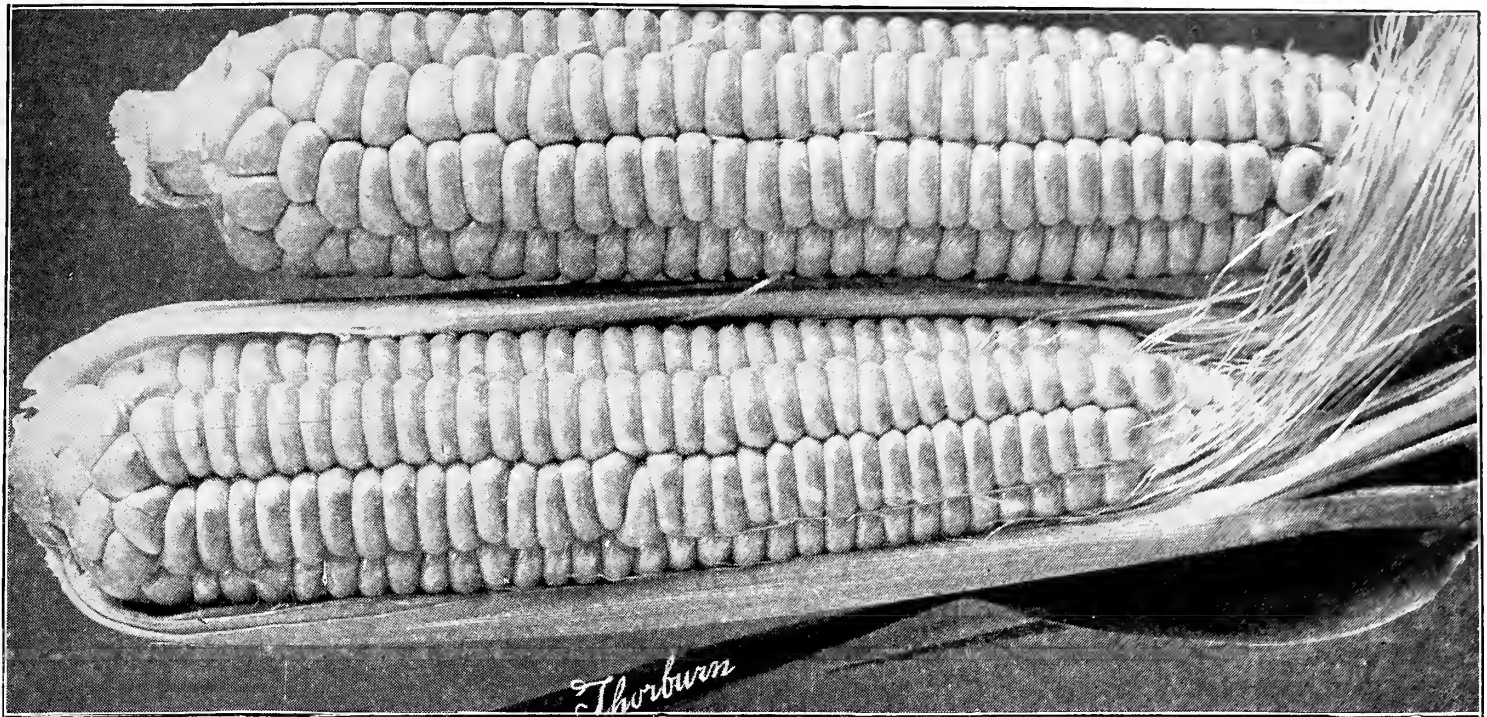
not to let the earth get into the heart of the plant. In field culture, the plants are set on the surface in rows 4 feet apart when the Celery is to be earthed up in the field for early use, and 2 feet apart when the plants are to be taken up and blanched in the cellar for winter use. The plants are 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 to 1½ feet apart, the plants 9 inches apart in the rows, cutting off the tap-root when transplanting. Keep the earth from the heart of the plant in cultivating. Fertilize with nitrate of soda or liquid manure, lightly, after transplanting. When the knob-roots are well formed keep the suckers and side roots trimmed off. Early spraying with bordeaux mixture is extremely efficacious in case of Celery blight or rust.

All 10 cents per packet, except where quoted otherwise

	Oz.	¼lb.	Lb.
Improved White Plume. Naturally white or light foliage requires but little banking up to blanch; very early and extensively grown for market.....	3210	\$0 40	\$1 25 \$4 00
GOLDEN SELF-BLANCHING, THORBURN'S GILT-EDGE. Our finest strain.....	pkt. 20 cts.	3230	1 00 3 00 10 00
Boston Market. The best for winter use; a good keeper; quality excellent...	3235	35	1 00 3 50
Perfection Heartwell. One of the finest and largest of winter varieties, either for family or market-garden. The heart is golden yellow.....	3260	35	1 00 3 50
Schumacher. Solid and crisp; firm, golden yellow heart.....	3270	35	1 00 3 50
Giant Pascal. An easily blanched and fine-keeping, large, late sort.....	3300	35	1 00 3 50
Giant Golden Heart. Very large; solid and fine-flavored; vigorous grower...	3344	35	1 00 3 50
New Rose. Fine flavor; handsome variety.....	3350	45	1 25 4 50
Winter Queen. Very large, solid, green winter sort; blanches well.....	3384	40	1 15 4 00
Celeriac, Giant Prague. Very large roots, for soups and stews; when cooked and sliced makes fine winter salad.....	3400	35	1 00 3 50
Celeriac, Apple. Has small foliage and small, smoothish roots; for soups....	3420	45	1 25 4 50
Celeriac, Extra-Early Paris. Smaller than the Large Smooth Paris; root clean skinned, regularly rounded in shape.....	3430	45	1 25 4 50

CELERIAC MAY BE STORED LIKE BEETS, AND WILL KEEP ALL WINTER

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



Golden Bantam Sweet Corn

CORN, SWEET or SUGAR

CULTURE.—As soon as danger from frost is past plant in hills 3 feet apart each way, and five or six kernels in a hill. The hills should be prepared before planting by digging in a shovelful of compost and a double handful of high-grade fertilizer. In spring plant 1 inch deep; later plantings 1½ to 2 inches deep. Thin out to three plants in the hill, or if in rows, to 12 inches apart. Two pounds will plant 150 to 200 hills. Hoe often and draw soil up to stem; break off side shoots. Corn requires a warm rich soil and a sunny exposure. Plant for succession every two weeks until middle of July. If sown thinly in drills, a greater yield from a given surface will be obtained.

We supply packets of Corn at 15 cts. each, postpaid; for other quantities, not prepaid, add postage at the zone rates. Most varieties can be furnished on ears at 10 cts. each, transportation extra

EXTRA-EARLY

	½lb.	Lb.	5 lbs.	15 lbs.
THORBURN'S NORDHEIM EXTRA-EARLY. Earliest and finest of all. The stalks grow 6 to 7 feet high, each bearing three or four nearly perfect ears of excellent quality. The grains are large, white and very sweet. 7 inches long, 5 inches circumference; 8 to 10 rows of large kernels.3700	\$0 30	\$0 50	\$2 25	\$6 00
Early Mayflower. Extra early; large ears; sweet and tender. 6½ to 7 inches long; 5½ to 6 inches circumference; 8 to 12 rows of medium large kernels.3705	25	45	2 00	5 50
Early Red-Cob Cory. A very early variety with good-sized ears. Very sweet, tender and of fine flavor.3710	25	45	2 00	5 00
White Cory. Resembles the ordinary Cory, but with white cob.3720	25	45	2 00	5 00
Mammoth White Cory. Ears double the size of the old Cory, and better in flavor.3740	25	45	2 00	5 00
Metropolitan. Large, handsome ears of fine quality; very early. A splendid market variety. 9 inches long; 6½ inches circumference; 12 to 14 rows of large kernels.3750	25	45	2 00	5 50
Golden Bantam. Extra early; yellow; very sweet and tender. 6½ to 7 inches long; 4½ to 5 inches circumference; 8 to 10 rows of large kernels.3760	30	50	2 25	6 00
Seymour's Sweet Orange. A vigorous grower, attaining a height of 6 to 7 feet, and producing generally two good-sized ears to a stalk. It matures about a week later than Golden Bantam and is fully equal to it in the deliciousness of its flavor.3764	30	50	2 25	6 00
Early Fordhook. Large ears; extra early; pure white.3769	25	45	2 00	5 00
Peep-o'-Day. Very early, sweet and of delicate flavor.3780	25	45	2 00	5 00
Minnesota. Nearly as early as Cory, but with larger ears.3790	25	40	1 75	4 50
Perry's Hybrid. Very early for so large-eared a sort; fine quality.3800	25	40	1 75	4 50
Premo, Extra-Early. Very sweet; ears large, considering its extreme earliness.3810	30	50	2 25	6 00
Kendel's Giant. Very early for so large-eared a variety; sweet and tender.3840	25	40	1 75	4 50
Extra-Early Adams. Not a Sugar Corn, but grown for early use. Tender and sweet; fine for the table.3860	20	35	1 50	3 50
Stabler's Early Pedigree. A fine Corn.3870	25	45	2 00	5 00

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

SWEET CORN, SECOND-EARLY, or INTERMEDIATE

Thorburn's Early White Perfection. A valuable second-early sort, producing good-sized ears. The cob is small and the grain is almost white. It is a heavy yielder, very sweet and an almost perfect type, without flint or glaze. One grower says of this Corn that it is one of the best varieties of Sweet Corn ever seen in the field.....	3900	\$0 30	\$0 50	\$2 25	\$6 00
Champion Early. Very large ears, considering its earliness.....	3910	25	45	2 00	5 50
Early Mammoth. Large ears; fine quality; not very late.....	3930	25	45	2 00	5 00
Crosby. Matures after Minnesota; fair-sized ears of good quality....	3940	25	45	2 00	5 50
Golden Cream. Early; grain rich cream-color; attractive; fine quality; very sweet and tender.....	3943	25	45	2 00	5 00
Howling Mob. An early Corn of large size; white and sweet.....	3944	25	45	2 00	5 00
Long Island Beauty. Very early; large size; valuable market sort. 9½ inches long; 7 inches circumference; 16 rows of large kernels.....	3945	25	45	2 00	5 00
Potter Excelsior, or Squantum. Good-sized ears of fine quality....	3950	25	45	2 00	5 00
Early Evergreen. A week earlier than Stowell Evergreen.....	3970	25	45	2 00	5 00
Early Adams. Grown extensively for market.....	3980	20	35	1 50	3 50

SWEET CORN, GENERAL CROP

Hickox Improved. Handsome ears; very white and of rich flavor. 9½ inches long; 6½ inches circumference, 12 to 15 rows of large kernels.....	4020	25	45	2 00	5 00
Stowell Evergreen. One of the most popular varieties. 8 inches long, 7½ inches circumference; 8 to 12 rows of medium large kernels....	4040	25	45	2 00	5 00
Golden Evergreen. Late; very sweet, round grains; beautiful variety of most excellent quality.....	4050	30	50	2 25	6 00
White Evergreen. Strain of Evergreen with pure white grains.....	4060	25	45	2 00	5 00

LATE

Black Mexican. Very sweet, of superior flavor; grains black.....	4100	25	45	2 00	5 50
Late Mammoth. Rank in growth; large ears, rich and sweet.....	4120	25	45	2 00	5 00
Country Gentleman. A large selection of the Ne Plus Ultra, introduced by us in 1888. Ears 8 inches long; 6 inches circumference; grains irregular, not in rows. Small kernels, and very long, slender deep grains.....	4140	25	45	2 00	5 50
SWEET FODDER CORN. (Larger quantities than 15 pounds, 15 cts. per pound).....	4180				3 00

For Field Corn and Pop Corn, see page 55

CERFEUIL **CHERVIL** *Perifollo*

CULTURE.—Cultivate and use the curled variety of Chervil like parsley. Sow as soon as the ground can be worked, or at any time in the spring in shallow drills, 1 foot apart, in well prepared ground, preferably in a cool and moist situation; shady or northern aspect. Thin early to 8 or 10 inches in the row. Several cuttings can be made from the plant throughout the season.

All 10 cents per packet

Curled. Leaves used for flavoring soups and stews and for garnishing.....	4240	\$0 50
Plain. Like above, but not curled.....	4250	40
Tuberous-rooted. A variety which has edible roots.....	4260	50

CHICORY

All 10 cents per packet

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. Always keep the roots well covered. The young shoots form the <i>Barbe de Capucin</i>	4300	\$0 35	\$1 25
Magdeburg, Large-rooted. Roots are the Chicory of commerce.....	4305	35	1 25
Witloof. Known in restaurants as French Endive. Sow about 1 inch deep in May and June, in drills 15 inches to 2 feet apart, in good garden soil; 1 ounce to 100 feet. Transplant or thin to 6 inches; treat as endive, except that in late summer or fall it should be gradually banked up like celery. The stalks, when blanched, make a delicious salad. It is also used by the French as a boiled vegetable.....	4310	45	1 50
WITLOOF ROOTS. For forcing and blanching. Largely used for salad, and also as a cooked vegetable. The roots may be forced in a dark, dry cellar on a mild hotbed made with fresh horse-manure; when this becomes hot cover with a layer of rich, light soil to a depth of 1 foot. As soon as the soil becomes warm plant the roots close together in rows, all crowns at same level, each row 6 inches apart. Cover with 8 inches of very light soil. There are also systems of hot-water pipes used in place of manure for forcing this vegetable. \$1.25 for 20, \$3 for 50, \$5 per 100.			

See also Endive, the Chicory of the French, page 23

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

COLLARDS

CULTURE.—Sow seeds in a rich, moist soil, as for cabbage, in June, July and August for succession. One ounce will give 2,500 to 3,000 plants. Transplant when a month old in rows a foot apart each way and hoe often.

Georgia	pkt. 5 cts.	4380	Oz. \$0 20	¼lb. \$0 60	Lb. \$2 00
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CORN SALAD, or FETTICUS

MACHE *Macha o Valerianilla*

CULTURE.—Sow during August or early in September, in drills ¼inch deep and 6 inches apart, for spring use. If the weather is dry when the seed is sown, tread it lightly to insure germination. Soil should be light and warm, with previous manuring. Keep weeds down with hoe. Just before the winter cover thinly with straw or leaves. The leaves should be picked when half as large as lettuce. A second crop may be picked from the same plant.

Large-seeded, Broad-leaved	4430	Pkt. \$0 05	Oz. \$0 30	¼lb. \$0 85	Lb. \$3 00
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CRESS

CRESSON *Bara o Mastuerzo*

CULTURE.—Sow No. 4520 thickly in shallow drills, ¼inch deep, and a foot apart early in spring, every two or three weeks until warm weather, in good garden soil; if moist, cool and rich, all the better. One ounce will sow 50 to 100 feet. Begin to sow again from the middle to the end of August every week or two for fall succession. 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. No. 4570 should be sown in damp soil but not muddy; 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. Do not pick until the plants are growing *well*, and do not pick more leaves than the plants can readily replace.

All 5 cents per packet, except where quoted otherwise

Curled, or Pepper Grass	4520	Oz. \$0 15	¼lb. \$0 50
Common, or Plain-leaved	4530	15	50
Upland or Winter Improved	4540	30	75
True Water Cress	pkt. 10 cts.	4570	1 00 3 50

CUCUMBER

CONCOMBRE *Pepino*

CULTURE.—For very early, sow in hotbeds upon pieces of sod, or in small pots. They can be readily transplanted with a gain of about six weeks over those sown in the open ground. Plant out in rich soil when danger of frost is over, or protect by hand-glasses, or by paper held down at the corners with a handful of earth. For general crop, sow in the open ground as soon as the weather is settled and warm, and every two weeks for a succession. Sow the seed about ¾inch in depth. One ounce will do for 60 to 70 hills. Thin, leaving four or five of the strongest seedlings in a hill. 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. Fresh manure will make the plants run to vine. For mildew and wilting spray with Bordeaux. For beetles and other insect pests, spray with tobacco water and whale-oil soap, reaching the underside of the foliage, or dust with tobacco dust.

All 5 cents per packet, except where quoted otherwise

Chicago Pickling. Uniform; prolific; good color and fine pickling variety . . .	4730	Oz. \$0 15	¼lb. \$0 50	Lb. \$1 50
Cornichon de Paris. Very productive, vigorous, mostly cultivated for its small fruits, which are fine for pickling. Fruit is oblong in shape and gathered soon after the plant flowers, when they are about as thick as the finger. pkt. 10 cts. . .	4740	30	85	3 00
Cumberland. One of the best for pickling; handsome and productive; flesh firm, but very crisp and tender.	4750	15	50	1 50
Davis Perfect. Fine for forcing or for outdoors. The fruit is long and straight, and being a comparatively shy seeder, is very valuable for slicing.	4770	15	50	1 50
Early Green Cluster. Fruit small and in clusters; very prolific.	4780	15	50	1 50
Giant Pera. Very long; one of the best for table use.	4800	20	60	1 75
Thorburn's Everbearing. Small-sized; very early and enormously productive; valuable as a green pickler.	4820	20	60	1 75
Cool and Crisp. Extra early and very prolific; long, straight, slender and very dark green; good either for pickling or slicing.	4830	15	50	1 50
Early Short Green. Good for pickling; productive.	4840	15	45	1 25
Fordhook Famous. Long, straight and well formed; vigorous grower; very productive; does not turn yellow.	4850	15	45	1 25

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



Thorburn's Noroton Selected White Spine Cucumber

CUCUMBER, continued*All 5 cents per packet, except where quoted otherwise*

	Oz.	¼lb.	Lb.
Jersey Pickling. Very productive; fruit long, tapering, and slender.....4855	\$o 15	\$o 45	\$I 35
White Spine Improved. A very handsome and uniform early variety.....4870	15	45	I 25
“ “ Arlington. Fine either for forcing or for outdoors.....4880	15	45	I 25
“ “ Klondyke. A desirable early dark green variety; very prolific..4885	15	45	I 25
“ “ Hill's Forcing4886	15	45	I 25
“ “ THORBURN'S NOROTON SELECTED. Our well-known selection of Improved White Spine. Earlier, more perfect in shape and more prolific; best slicing variety; splendid either for home garden or market.....pkt. 10 cts...4890	20	60	2 00
“ “ Extra-Long. A beautiful, large and well-shaped Cucumber...4900	15	50	I 50
“ “ Long Green4910	15	45	I 25
Long Green Improved. Long and crisp; a popular variety for pickles.....4920	20	60	2 00
“ “ Extra Smooth4925	15	50	I 50
“ “ Turkey. Fruit very long and slim.....4930	15	50	I 50
Green Prolific Pickling. One of the best for pickling; dark green.....4940	15	50	I 50
Nichol Medium Green. Most symmetrical and a very fine table sort.....4950	15	45	I 25
Japan Climbing. Good for frames or open ground.....4970	20	60	2 00
West Indian Gherkin. Very small burr; used for pickles.....pkt. 10 cts...4980	30	85	3 00
Lemon Cucumber, or Garden Lemon. Almost round, yellow and green markings; tender and of sweet flavor. Like a lemon in appearance.....pkt. 10 cts...4990	30	85	3 00

ENGLISH CUCUMBERS FOR FRAMES*(Concombre especes Anglaises pour couches)*

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

	Pkt.
Hurst's Monarch. Splendid sort.....5096	\$o 25
Rochford's Market. Fine variety.....5120	25
Telegraph. Free-bearing; handsome.....5130	25
Veitch's Sensation. Fine dark variety.....5160	25

ENDIVE, or CHICORYCHICOREE *Escarola o Endivia*

CULTURE.—Sow in June, July or August, in good, rich garden soil; cover lightly; when up, thin out to 8 or 10 inches apart and water well, if dry; or sow under glass in March or April, transplanting and hardening off. Then set out in the open as soon as ground is fit. The young plants will do well, if dressed at least once with nitrate of soda or liquid manure. 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

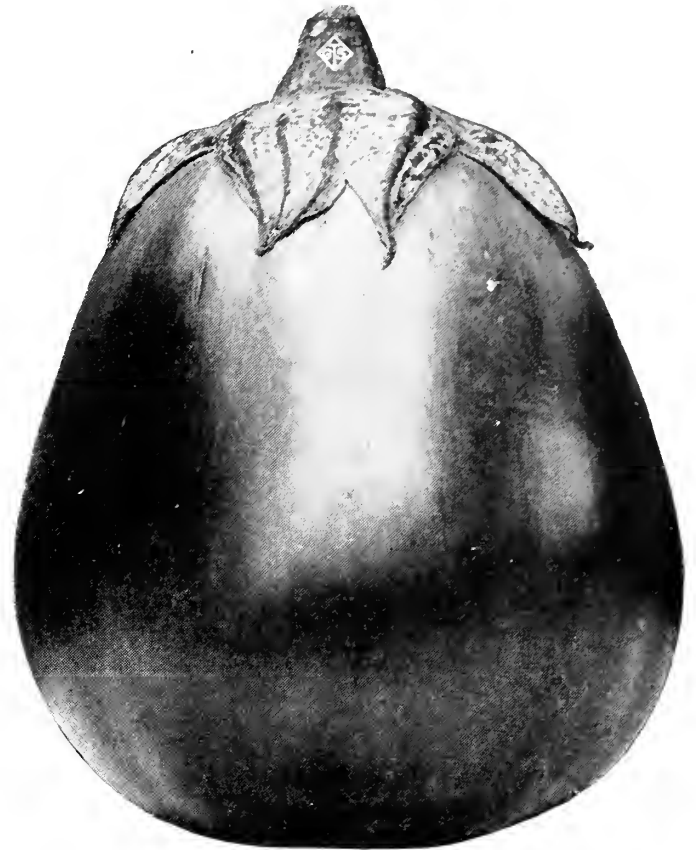
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ENDIVE or CHICORY, continued

be kept dry and have plenty of air. To blanch, tie the tops of the heads together, to keep the light from the heart. One ounce of seed will plant a 100-foot row.

All 5 cents per packet

	Oz.	¼lb.	Lb.
Green Curled Winter. Standard sort for fall and winter crop. 5210	\$0 20	\$0 60	\$2 00
Moss Curled. Compact plants with finely divided leaves 5215	20	65	2 25
Large Green Curled (de Ruffec). Broad ribs; fine for fall and winter. 5220	20	60	2 00
Giant Fringed or Oyster. New. Has a large white heart . . . 5227	20	65	2 25
White Curled. For early use. 5240	20	65	2 25
Broad-leaved (Escarolle). A sweet variety; fall and winter . . . 5230	20	60	2 00
Broad-leaved Batavian. . . . 5250	20	60	2 00



New York Spineless Eggplant

EGGPLANT

AUBERGINE *Berengena*

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. Soil should be a rich, sandy loam and exposed to the sun. One ounce will plant 2,000 plants or more. Keep some back in frames for a second planting, in case of weather changing unexpectedly. Set out plants 3 by 2 feet. Dress the young plants once after thinning or setting out, with nitrate of soda, or liquid manure.

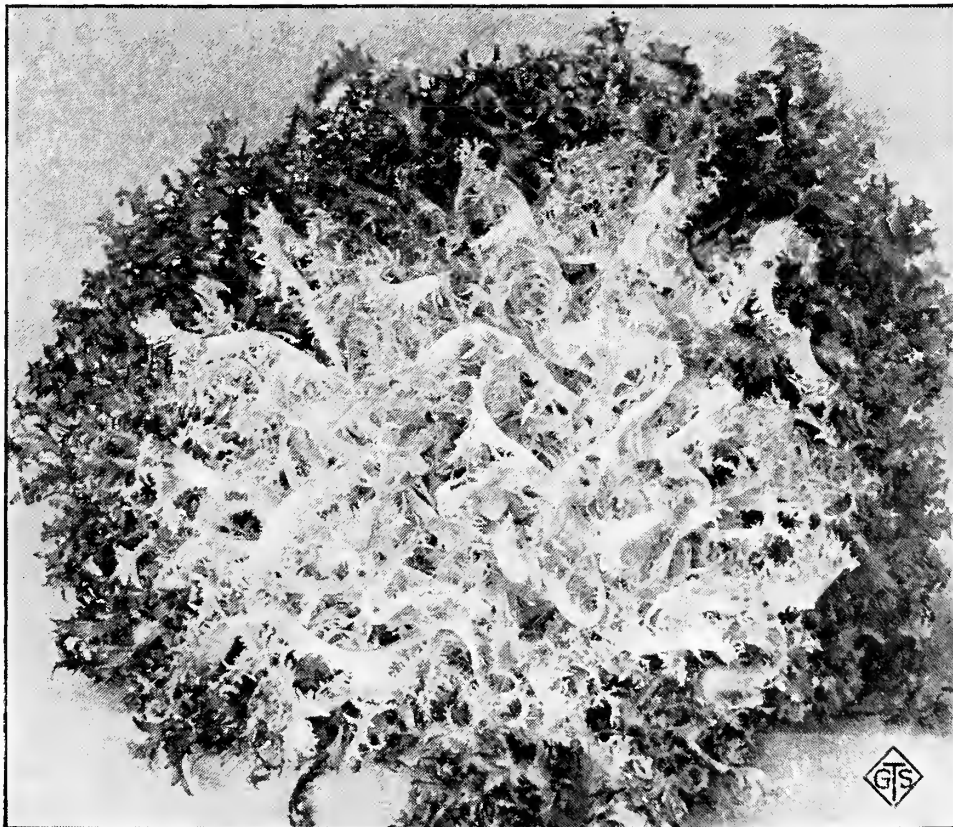
All 15 cents per packet

Improved New York Spineless. The standard; largest and best; oval; deep purple; early and productive. 5310	Oz. \$0 75	¼lb. \$2 50
BLACK BEAUTY. As large as the New York Improved but about ten days earlier; very rich purplish black. 5320	80	2 75
Early Dwarf Purple. Dwarf; very early; small, ovoid fruit. 5330	80	2 75
Florida High Bush. Purple, though not so deep as the New York Spineless, which it resembles in shape. Productive, vigorous and can stand more cold than that variety. . . 5340	60	2 00
Long Purple. Of distinct shape and fine quality. 5350	80	2 75

Large Round Purple. Good quality, fine shape and color; good for market. 5360. Oz. 75c., ¼lb. \$2.50.

Black Pekin. Round, blackish purple fruit: flesh tender, of fine flavor; dark foliage. 5370. Oz. 80 cts., ¼lb. \$2.75.

Long White China. Small and ornamental fruit; white, resembling an egg, turning yellow when ripe. 5400. Oz. 80c., ¼lb. \$2.75.



Green Curled Winter Endive

FENNEL, FLORENCE or NAPLES

FENOUIL DE FLORENCE
Finocchio di Napoli

CULTURE.—Sow in spring, 1 to 2 inches deep, 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 resembling celery, but has a sweet taste and a more delicate odor. 14180. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.

See, also, Herbs



Early White Vienna Kohlrabi

inches through they are fit to eat, and should be used at once, being tough when old. Cook same as turnips.

All 10 cents per packet

Early White Vienna. Handsome; very delicate in flavor.....	5800	Oz. \$0 40	¼lb. \$1 00	Lb. \$3 50
Early White Vienna, For frames. Fine every way.....	5810	45	1 25	4 00
Early Purple Vienna. Purple ball; a very good sort.....	5820	40	1 00	3 50
Extra-Large White Goliath. Forms a large ball; not so fine in flavor, but more productive.....	5840	40	1 00	3 50
Imperial Green. Early; dwarf top; fine quality.....	5850	45	1 25	

POIREAU **LEEK** *Puerro*

CULTURE.—Sow very early in spring, in drills 6 inches apart and 1 inch deep, one ounce to 100 feet of drill. Thin out to 1 inch. When about 7 inches high, transplant in rows 12 inches apart, as deep as possible, but do not cover the young center leaves. Water thoroughly if dry when planted out. Draw earth up to them as they grow; deep, rich soil is required. Dress twice, and freely, ten days apart, with nitrate of soda or liquid manure. If they need water, give it to the roots through a pipe thrust down among the stems,—taking care not to wet the leaves. Take up and store in earth in a cool cellar before winter weather. The seeds may also be sown in September and wintered under frames, and the young plants transplanted in spring to where they are to remain.

All 10 cents per packet

THORBURN'S BEST LARGE FLAG. Hardy and productive.....	5910	Oz. \$0 40	¼lb. \$1 25	Lb. \$4 00
Large Rouen. A standard sort; fine keeper.....	5920	40	1 25	4 00
Large Carentan. Distinct, dark-colored leaves; stout in habit and hardy...	5940	45	1 25	4 50
Musselburgh. Similar to above....	5950	40	1 25	4 00



Thorburn's Best Large Flag Leek

KALE or BORECOLE

CHOU VERT FRISE *Col*

CULTURE.—Cultivated and grown exactly like cabbage. Sow No. 5600 in August and September for early greens, in rows 2 feet apart, and thin to 18 inches or 2 feet in the rows. Sow seed ½ to 1 inch deep. One ounce will do for a 100-foot row. In very cold situations a light mulch may be required in winter.

Curled Dwarf Green Scotch. Very dwarf and spreading; best strain; largely grown in the South, being sown in August and September.....	5600	Oz. \$0 30	¼lb. \$0 85	Lb. \$3 00
Curled Tall Green Scotch. A taller growth of No. 5600. pkt. 10c....	5610	30	85	3 00
Curled Siberian, Thorburn's Improved. Green curled; hardy.....	5630	20	60	1 75
Thousand-headed. For cattle.....	5640	20	60	2 00

KOHLRABI

CHOU-RAVE *Colinabo*

CULTURE.—Sow in spring, about 1 inch deep, 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. Soil should be same as for cabbage; a rich loam. Do not let the earth get into the heart of the plants and do not cover the thick stem or knob. One ounce will give about 1,500 plants. Keep the weeds down, and when the thickened stems above ground are 2 or 3

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LETTUCE

LAITUE *Lechuga*

CULTURE.—Sow 6030, 6120, 6230, 6340 and 6350 in hotbeds in March, and these as well as all the other varieties in the open ground as soon as it can be worked, and transplant in rows 8 inches apart and rows 1 foot apart. Sow in two weeks' time again for a succession; also Cos sorts. Latter part of August, sow any of the varieties. In October some of these may be planted in frames, to head in winter and early spring. One ounce is sufficient for 1,000 plants or 300 feet in rows. Sow ½ to 1 inch deep—if under glass, ¼ inch. 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. *All 5 cents per packet*



Thorburn's Big Boston Improved Lettuce

	Oz.	¼lb.	Lb.
American Gathering. A decidedly crisp variety; strictly bunching. Leaves bright brown varying to bright green and very much blistered and crumpled. Large size; late-intermediate in development. 6020	\$0 15	\$0 45	\$1 25
Australian Gathering. A crisp bunching variety; large size; intermediate in development. Forms a well-blanchd dense cluster of leaves, more or less open; never cabbage-like. Leaves light green, crumpled and twisted. Very sweet. 6025	15	45	1 25
Big Boston. Strictly cabbage-heading; large; late-intermediate in development; fairly buttery flavor. Leaves broad, mostly smooth, very slightly blistered and crumpled. Light dull green, excepting extremely narrow light brown border. The heads are broad, slightly pointed and hard. Fine for forcing under glass. 6030	15	50	1 50
Buttercup. A cabbage-headed variety; small to medium in size; intermediate to late in development. The heads are globular in form. Leaves broad, slightly blistered and twisted. Color very light green. Fine for forcing under glass. 6040	15	45	1 25
Brown Dutch. A cabbage-heading variety; very buttery flavor; medium to large in size; late to intermediate in development. Head globular and firm. Leaves broad, fairly blistered and twisted. Color dull green, tinged with faint blotches. . . . 6045	15	45	1 25
California Cream Butter. This is a strictly cabbage variety with a decidedly buttery flavor; large; late to intermediate in development. Head very firm, and globular in shape. Leaves slightly blistered and crumpled. Color dark, rich glossy green, distinctly spotted with deep brown. 6050	15	45	1 25
Crisp as Ice. Forms a slightly pointed head of small to medium size; decidedly buttery in flavor. Leaves broad, fairly blistered and twisted. Color a dark, almost solid brown in summer but bright green during spring. 6060	15	45	1 25
Deacon. Head large to medium in size; intermediate in development; globular or slightly flattened when fully developed. Flavor decidedly buttery; leaves broad, smooth, slightly blistered and crumpled. Color a peculiar light grayish green. . 6070	15	45	1 25
Denver Market. A decidedly crisp variety; fairly cabbage-heading; large to medium in size; late to intermediate in development. Head oval, somewhat soft; leaves excessively blistered and crumpled and slightly twisted. Color very light green. Fine for forcing under glass. 6080	15	50	1 40
Giant Crystal Head. A crisp variety; large and late. Head globular, extremely hard. Leaves broad, fairly blistered, crumpled and twisted. Color light green, excepting faint brown on borders of leaves. 6100	15	45	1 25
Golden Queen. This is a strictly cabbage-heading variety with a buttery flavor; small to medium in size. Head somewhat pointed, well blanchd. Leaves blistered, crumpled and twisted. Color beautiful rich, very light green, sometimes described as golden green. 6118	15	50	1 50
Grand Rapids Forcing. This is a bunching variety, decidedly crisp; early to intermediate in development. Forms a loose, rounded cluster of leaves close enough together for blanching to only a small extent. Leaves excessively blistered and crumpled and slightly twisted. Color very light green. Fine for forcing under glass. 6120	15	50	1 50

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LETTUCE, continued *All 5 cents per packet*

	Oz.	¼lb.	Lb.
Hanson Improved. This variety is strictly cabbage-heading and decidedly crisp; very large and very late. Head globular; extremely hard and well blanched. Leaves broad, fairly blistered, crumpled and twisted. Color very light green.....	6140	\$0 15	\$0 50 \$1 50
Hubbard Market. This is a cabbage-heading Lettuce of decidedly buttery flavor, large to medium in size; early to intermediate in development. Head globular, very firm and well blanched. Leaves broad, slightly blistered, crumpled and twisted. Color medium green. Quality excellent. Fine for forcing under glass.....	6160	15	50 1 50
Iceberg. It is a strictly cabbage variety; crisp rather than buttery; large and late. Head is globular, extremely hard and well blanched. Leaves are slightly blistered, crumpled and twisted. Color light green except faint brown borders. Very good quality.....	6170	20	60 2 00
Mammoth Black-seeded Butter. This is a strictly cabbage-heading variety of a decidedly buttery flavor; large; intermediate in development. Head slightly oval, somewhat soft, well blanched. Leaves broad, much blistered and crumpled, and slightly twisted. Color light brown. Excellent quality.....	6200	15	50 1 50
Market-Gardeners' Private Stock. A selected strain; solid, large heads, resisting the sun for a long time before shooting to seed.....	6210	15	50 1 40
Maximum. A late-maturing sort with very large cabbage-head and a very buttery flavor. The head is globular or oval, firm and very well blanched. Leaves broad, fairly smooth, being only slightly blistered, crumpled and twisted. Color dull dark green freely spotted with dark brown. Quality to be recommended.....	6220	15	45 1 25
May King. One of the best known and most popular varieties; fairly new; strictly cabbage-heading and a buttery flavor. The heads are small to medium in size. Leaves light green, slightly tinged with brown at edge. It is especially good for outdoor culture and fine for forcing under glass.....	6230	15	50 1 40
Mignonette. A cabbage-heading variety; fairly crisp; size small to medium; early to intermediate in development. Head globular, extremely hard, very well blanched. Leaves broad, excessively blistered, crumpled and twisted. Color dull; very dark brown with dull dark green in less exposed parts. Quality is excellent, being exceedingly tender, crisp and sweet.....	6240	15	50 1 75
New York Cabbage. This is a decidedly crisp variety, forming a very large cabbage-head of late maturity. Heads are globular or slightly oval, very hard and well blanched. Leaves broad, fairly blistered, crumpled and twisted. Color dark green. Quality very good, being sweet but never buttery in flavor.....	6250	20	65 2 25
Orchid. This is a true buttery variety forming a small to medium size cabbage-head, and late to intermediate in development. Head globular, slightly firm but well blanched. Leaves broad, fairly blistered and crumpled, and slightly twisted. Color bright green thickly spotted with bright brown. Quality is good. Flavor buttery and very sweet.....	6255	15	45 1 25
Philadelphia Dutch Speckled Butter. A variety of slight buttery flavor; fairly cabbage-heading; medium in size; early to intermediate in development. Plant is low growing; very flat at top, forming a solid, well-blanched head. Leaves are broad, crumpled, and twisted. Color medium green tinged with brown and spotted. .	6275	15	45 1 25
Prize Head. A decidedly crisp variety, strictly bunching. Large; early to intermediate at time of attaining fullest development; not cabbage-like or solid, though, nevertheless, the inner part of the plant is well blanched. Leaves blistered and crumpled. Color light brown, varying to bright green toward center of the plant. Desirable for home garden.....	6280	15	45 1 25
Reichner's White Butter. A decidedly butter variety; strictly cabbage-heading; medium size; matures early; plant very compact, forming a globular or slightly elongated, firm, well-balanced head. Leaves broad, fairly blistered and crumpled, color light green. Delicate and sweet.....	6285	15	50 1 50
Salamander Improved. A most popular variety. It is strictly cabbage-heading, of a buttery flavor, and medium size. Color a medium green. Leaves slightly crumpled. Forms a good solid head. It does well under almost any weather and is a variety which we recommend for quality.....	6300	15	50 1 50
Shotwell Brownhead. This forms a distinctly cabbage-head, medium in size and intermediate in development. Head is globular, firm, well blanched. Leaves fairly blistered, crumpled and twisted. Color a medium dull green, tinged throughout with faint dull brown. The quality is of the best; flavor decidedly buttery and sweet.	6310	15	45 1 25
Early Curled Simpson. This variety is decidedly crisp; strictly bunching; large to medium in size but intermediate in time of attaining fullest development. Plant is spreading, covering a rounded, well blanched, dense cluster of leaves. Never cabbage-like. Leaves broad, much blistered and crumpled and slightly twisted. Color very light green. Very sweet flavor.....	6320	15	45 1 25
Black-seeded Simpson. A decidedly crisp variety; strictly bunching, sometimes tending to a cabbage-like growth; large; marketable early, but late attaining fullest development. It forms a firm, well-blanched, rounded cluster of leaves closely drawn together. Leaves broad, much blistered, crumpled and twisted. Color very light green.....	6330	15	50 1 50

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LETTUCE, continued *All 5 cents per packet*

	Oz.	¼lb.	Lb.
Tennisball, White-seeded. It is strictly cabbage-heading; small to medium in size; matures very early, and is of a decidedly buttery flavor. Head globular and well blanched. Leaves broad, blistered, crumpled and slightly twisted. Color dull medium green, sometimes brownish in distinct blotches. Quality excellent. Fine for forcing under glass.....6340	\$0 15	\$0 45	\$1 25
Tennisball, Black-seeded. A decidedly butter variety; cabbage-heading; large to medium in size; early to intermediate in development. Head globular, firm and well blanched. Leaves excessively blistered, crumpled and slightly twisted. Color light green. Quality excellent. Fine for forcing under glass.....6350	15	50	1 40
Wayahead. A cabbage-heading variety, buttery flavor; medium to small in size. Color dark green. Forms a very hard, compact head and does well under all conditions. This is a very popular variety.....6370	15	45	1 25
White Summer Cabbage Lettuce. A cabbage-heading variety. Heads large to medium in size; globular in form and very firm. It blanches very well and is of a decidedly buttery flavor. The leaves are slightly blistered, crumpled, and twisted. Color medium green. Quality excellent.....6390	15	50	1 75
Wonderful. A crisp, not a buttery variety; leaves fairly blistered, twisted and crumpled; color dark green.....6420	20	65	2 25

ROMAINE, or COS LETTUCE

All 5 cents per packet

Bath Cos. Pale green leaves, slightly tinged with brown. Outer leaves spreading, inner leaves well blanched, forming a soft globe-shaped head. Early and productive and of fine flavor.....6440	15	50	1 75
White Paris Cos. Of upright growth; fine. Forms a well-blanched head decidedly loaf-shaped. Color very dark green.....6450	15	50	1 75
Trianon Cos. Resists heat well. Very compact plant forming a loaf-shaped head round at the top; well blanched; firm.....6460	15	50	1 75
Balloon Cos. Fine sort. Closely resembles White Paris Cos, but larger.....6480	15	50	1 75

MUSHROOM SPAWN

BLANC DE CHAMPIGNON *Seta*

CULTURE.—Mushrooms may be grown in cellars, under benches of greenhouses, or in sheds, wherever the temperature of 50 degrees can be kept up through the winter. The beds should be made from November to February, according to the time the Mushrooms are wanted, and it requires about two months for them to begin bearing. Secure fresh horse manure, free from straw and litter, and mix an equal bulk of loam from an old pasture with it. Keep this under cover, taking care to turn it every day to prevent heating, until the pile is large enough to make a bed the required size. Three to 4 feet wide, 8 inches deep and any length desired are the proper proportions for a bed, but these may be varied. Prepare the mixture of loam and manure, making the bed in layers, and pounding down each with the back of the spade. Leave this to

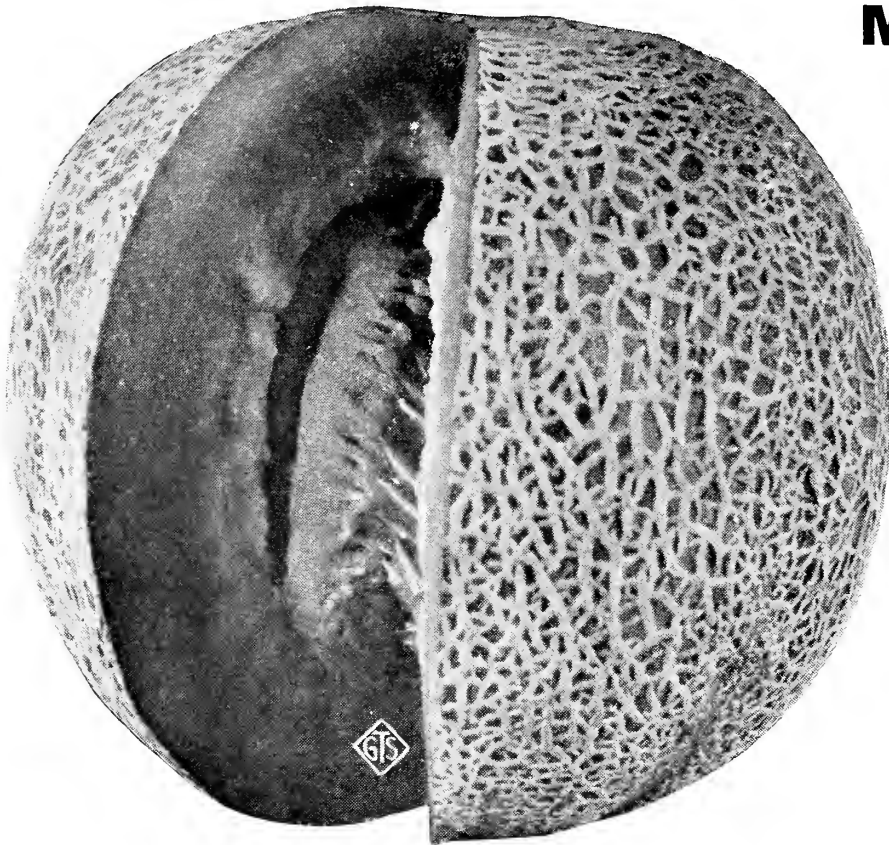


heat through for a few days, and as soon as the heat subsides to 90 degrees, make holes in the bed about a foot apart each way, and about 1 inch deep, into which put pieces of the spawn 2 or 3 inches in diameter; fill up the holes with the compost, and at the expiration of a week or ten days the spawn will have thoroughly diffused itself through the bed. Spread a layer of fresh soil over the heap to the depth of 2 inches and cover with 3 or 4 inches of hay, straw or litter. Examine the bed often to see that it does not get dry. Take special care, however, when water is given that it be at a temperature of about 100 degrees. Every other day is a fair interval for picking, care being taken not to disturb any nearby.

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

If by mail, add postage

	Per Brick	10 Bricks	20 Bricks	100 Bricks
American Pure-Culture Spawn. Direct bricks; latest strain. Weight about 1 pound each.....6630	\$0 30	\$2 75	\$5 25	\$25 00
English Spawn. In bricks. About 1½ pounds each.....6635	25	2 25	4 00	18 00
French Spawn.6640			about 2-lb. box,	\$1 25



Banquet Muskmelon

MUSKMELON (Cantaloup)

MELON MUSCADE *Melon Muscatel*

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. The hills should have a mixture of well-rotted manure and a fertilizer fairly strong in potash and phosphoric acid dug into them. Or the center of the hill may be removed and a bushel of compost spaded in, covering with a few inches of earth. The melon-patch should be cultivated regularly after each rain and all weeds removed.

All 5 cents per packet, except where quoted otherwise

SALMON- AND YELLOW-FLESHED VARIETIES

	Oz.	¼lb.	Lb.
Banquet. Beautifully netted; medium size; rich salmon flesh; fine quality.	6790 \$0 20	\$0 60	\$2 00
Brockway's Sport. Slightly oblong, averaging 6 inches in diameter; flesh light red, very sweet; lightly ribbed and netted.	7115 20	55	1 90
Burrell's Gem. Reddish orange flesh; fine-grained and spicy.	6800 20	55	1 90
Davis' White-seeded. Egg-shaped; fair size; slightly netted; yellow flesh.	6802 15	50	1 50
Defender. One of the very best yellow-fleshed sorts; medium size, oval in shape; flesh very firm and rich. Very vigorous and productive.	6804 20	55	1 90
Emerald Gem. Small; extra early; dark green skin, orange flesh; very sweet.	6810 15	50	1 50
Long Yellow Cantaloup. Yellow flesh; late.	6812 20	60	2 00
Golden Eagle. Oval; heavily ribbed and netted; skin a light golden hue, when ripe; flesh a rich salmon, sweet and luscious.	6813 30	85	3 00
Osage. Coconut-shaped; yellow flesh; light green, netted skin.	6814 20	60	2 00
Paul Rose. Handsome and oval variety; rich orange flesh; very sweet.	6820 20	55	1 90
Nutmeg Tip-Top. An improved strain; very sweet salmon flesh.	6840 20	60	2 00
Thorburn's Orange Christiana. Fine orange sort. Round, very sweet, and very early.	6850 20	60	2 00

GREEN-FLESHED VARIETIES

Baltimore Market. Oblong; green flesh of fine quality; intermediate.	6870 20	60	2 00
Bay View Hybrid. Prolific; very large; late; green flesh.	6880 20	60	2 00
Hybrid Casaba. A vigorous grower and an enormous yielder; produces melons of large size and unsurpassed flavor; skin is green until fruits begin to ripen, when it turns to a light yellow; white flesh, rich and luscious and from 2 to 3 inches thick. Splendid for warm climates.	6904 20	60	2 00
Eden Gem. The popular shipping melon at Rocky Ford. Flesh deep green, very solid and firm; skin heavily netted.	6914 15	50	1 50
Egyptian Deity (Persian Delight). Round; flesh whitish green and surpassingly luscious in flavor, very juicy; rind thin and smooth; excellent for warm climates.	6915 20	60	2 25
Gold-lined Rocky Ford. Delicious; flesh thick, fine grained and sweet; color green, with a gold margin next to the seed-cavity; slightly oval and heavily netted.	6916 20	60	2 00
Hackensack. Large, round, and of good quality; a popular variety; early.	6920 20	60	2 00
Hackensack Extra-Early. Ripens ten days earlier than the Hackensack.	6930 20	60	2 00
Honey Dew. New. Large, round, light-colored melon; delicious, rich green flesh.	6935 20	60	2 25
Jenny Lind. Old favorite. Small; green-fleshed; very early; good quality.	6940 15	50	1 50
Long Island Beauty. On style of Hackensack. The earliest and finest in quality, and the most beautiful of all Muskmelons.	6950 25	75	2 50
Montreal Green. Large, round; netted; flesh thick and light green; late.	6970 20	60	2 25

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

MUSKMELON, continued

All 5 cents per packet, except where quoted otherwise

	Oz.	¼lb.	Lb.
Netted Gem, Round. Very early; small and of fine flavor; green flesh	6980 \$0 20	\$0 60	\$2 00
Netted Gem, Oblong. Same as above, save in shape.	6990 20	60	2 00
Netted Rock. Produces melons of uniform standard size, covered with a beautiful grey lace-like netting; flesh green, with delicate pink around the small seed cavity; sweet and superb flavor.	6995 20	60	1 75
Nutmeg. Sweet, green flesh; very early; named from its shape.	7000 20	60	2 00
Rocky Ford. Improved Netted Gem; very sweet and fine flavored; oblong. . .	7010 20	60	2 00
Skillman's Netted Gem. Oval shape; early; sweet and highly perfumed. . .	7030 20	60	2 00
Winter Pineapple. An extraordinary melon; can be kept in splendid condition for months after being pulled. For the South only.	7140 15	50	1 50

MISCELLANEOUS MUSKMELONS

All 5 cents per packet, except where quoted otherwise

Banana Citron. Cucumber-shaped; highly perfumed; late.	7110 20	60	2 00
Mango Melon (Vine Orange). Size, shape, and color of an orange; fine for preserving or for pickling.	7120 30	85	3 00
Vine Peach. Color of a peach; fine for preserving or for pickling.	7135 30	85	3 00

IMPORTED FRAME SORTS

For growing under glass, in packets only, 25 cts. each. Delight of the Table, Eclipse, Gunton Scarlet, Little Heath, Tours Sugar.

WATERMELON

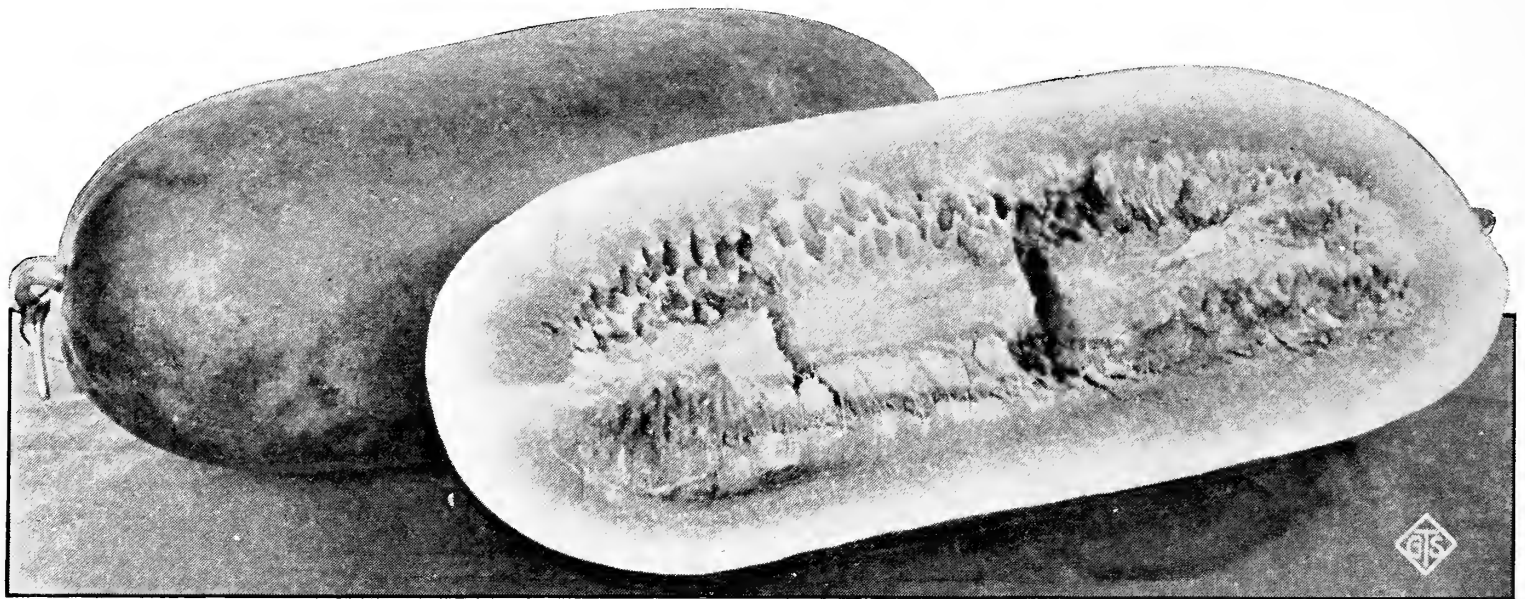
MELON D'EAU *Zandia*

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

All 5 cents per packet

	Oz.	¼lb.	Lb.
Alabama Sweet. Dark green; tender red flesh; long. Fine shipper.	7410 \$0 15	\$0 40	\$1 25
Angel's Kiss. One of the best-flavored sorts; flesh deep crimson, sweet and melting; oblong in shape; very prolific.	7420 10	30	1 00
Black Diamond. Dark green, tough skin; large size. Round.	7430 15	40	1 25
Black Spanish. Roundish; nearly black; dark red flesh; early.	7440 15	40	1 25
Boss. Oblong; dark green; flesh deep scarlet; rind thin; intermediate.	7450 15	50	1 50
Bradford. Long and of dark color; red flesh, sweet and tender.	7480 15	40	1 25
Cole's Early. Medium size; red flesh; green skin; oval.	7490 15	50	1 50
Cuban Queen. Solid and heavy; skin marked regularly; excellent; early; oval. .	7500 15	40	1 25
Dixie. Excellent quality; very large and solid; red flesh; intermediate; long. .	7510 15	30	1 15
Early Fordhook. Extra early; good size; green skin; red flesh; oval.	7530 15	40	1 25
Florida Favorite. A superior strain; oblong; red flesh; intermediate.	7540 10	30	1 00
Golden Honey. Oblong; flesh golden shade, very tender and delicious; rind light green with mottled stripes.	7547 10	30	1 00
Halbert's Honey. Dark, glossy green skin; flesh crimson, luscious and sweet. Strong, vigorous grower and free fruiter; long. Fine for northern states.	7550 15	40	1 25
Hungarian Honey. A very early sort; fine for northern latitudes; perfectly round; brilliant red flesh.	7560 15	50	1 50
Ice Cream, or Peerless. Very early; red flesh; oval.	7570 10	30	1 00
Icing, Dark. Solid; dark green skin; red flesh of superior quality; white seed; early; nearly round.	7580 10	30	1 00
Icing, Light. Round; pink flesh of fine quality.	7590 10	30	1 00
Irish Grey. A distinct and valuable melon; wonderfully productive. Long, thick, and uniform; color of rind yellowish grey; flesh sparkling bright red, sweet and very firm and compact. One of the best shippers.	7595 15	40	1 25
Jordan Gray Monarch. Largest grown; crimson flesh; late; long.	7600 10	30	1 00
Kleckley Sweets. Exceedingly sweet and fine flavored; dark green skin; thin rind; flesh scarlet, solid, and firm; long.	7610 10	30	1 00
Kolb Gem. Large; good shipper; bright red flesh; intermediate; oval.	7620 15	40	1 25
Mammoth Ironclad. Long; very large; late; red flesh; good shipper.	7630 15	40	1 25
Mammoth Santiago. Light green skin, striped darker; deep blood-red flesh of sweet flavor; uniformly large and long; a good shipper.	7640 15	40	1 25
McIver's Wonderful Sugar. Oblong; handsome and very sweet.	7645 15	50	1 50
Mountain Sweet. Red flesh; late; dark green; long, tapers to stem end.	7650 10	30	1 00

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



Tom Watson Watermelon

WATERMELON, continued

All 5 cents per packet

	Oz.	1/4lb.	Lb.
Phinney, Early. Oblong; fine quality; large; solid; red flesh.....	7660 \$0 15	\$0 40	\$1 25
Pride of Georgia. Round; large; crisp; bright red flesh; intermediate.....	7670 15	50	1 50
Rattlesnake, Southern. Oblong; dark and striped; bright red flesh; late....	7680 15	40	1 25
Sugar Stick. Light green; oblong; luscious rich red flesh; strong grower.....	7700 15	40	1 25
Sweetheart. Oval; very large; bright skin; fine quality.....	7720 10	30	1 00
Tom Watson. Produces melons 16 to 22 inches long and 8 to 10 inches in diameter. The dark green rind is thin but tough; stands shipping well. The flesh is deep red, crisp and melting and of finest flavor; long.....	7724 10	30	1 00
Citron, Green Seed. Used for preserves.....	7750 15	40	1 25
Citron, Red Seed. Round and handsome; for preserving.....	7760 15	40	1 25

MUSTARD

MOUTARDE *Mostaza*

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. Needs to be gathered before it goes to seed.

	Oz.	1/4lb.	Lb.
Black. These seeds form the mustard of commerce.....	7800 \$0 10	\$0 30	\$0 90
Chinese Broad-leaved. Leaves of agreeable flavor when cooked like spinach..	7803 10	25	75
Fordhook Fancy. Very ornamental; plants of vigorous growth; leaves dark green, curved outwardly. If used as a vegetable, cook like spinach.....	7810 10	30	1 00
Giant Southern Curled. Very large leaves.....	7815 10	25	75
Ostrich Plume. Leaves curled and frilled like an ostrich plume.....	7820 10	25	75
White London. Leaves used for salads while young; grows very rapidly.....	7825 10	30	1 00

NASTURTIUM

CAPUCINE *Maraneula*

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.

All 5 cents per packet

	Oz.	1/4lb.	Lb.
Tall Mixed	7920 \$0 15	\$0 50	\$1 50
Dwarf Mixed	7930 20	60	2 00

OKRA, or GUMBO

GOMBAUD *Quimbombo*

CULTURE.—Sow late in the spring, after the ground has become warm, in drills 3 feet apart, where the plants are to remain. Thin out to from 9 to 12 inches. They should be well manured. They may also be raised in pots or a hotbed, and transplanted. For keeping, they should be picked while small and tender. Should be picked usually in less than two days after the blossoms have fallen. Do not leave until the pods have become hard and stringy.

All 5 cents per packet

	Oz.	1/4lb.	Lb.
Long Green. Very productive; moderately long green pods.....	8020 \$0 10	\$0 30	\$1 00
White Velvet. Tender, long, white pods; smooth and velvety in appearance..	8030 10	30	1 00
Dwarf Green Prolific. Short, thick pods.....	8040 10	30	1 00
Perkins' Mammoth. Fine strain; very long pods.....	8050 10	30	1 00
Tall Green. Very tall plant; late maturing, long green pods.....	8055 10	30	1 00

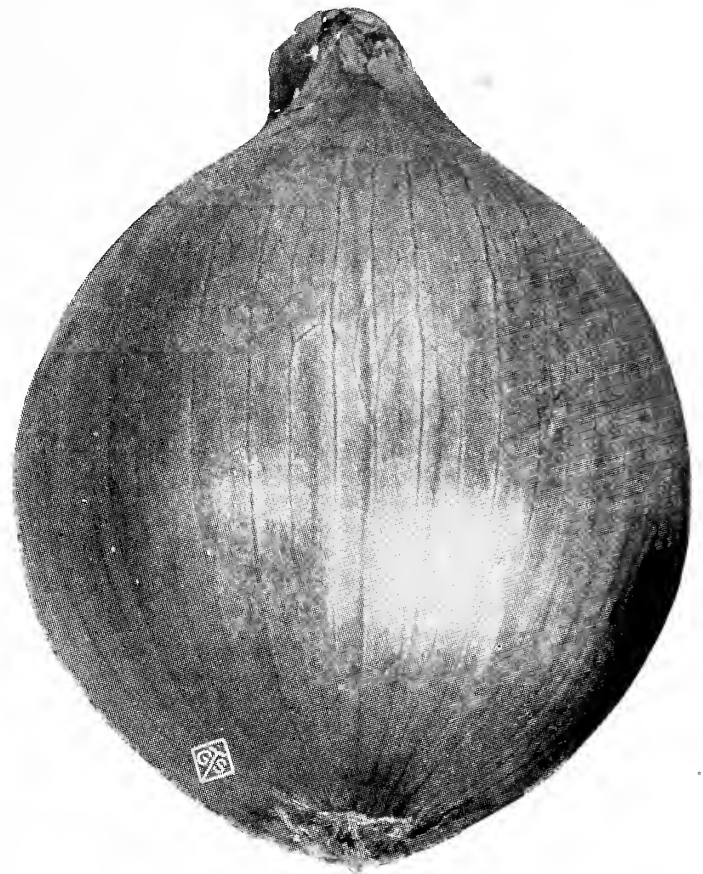
ONION

OIGNON *Cebolla*

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 pounds to the acre. Thin to 3 to 4 inches, using the rake and hoe frequently to keep down the weeds. The finest Onions are produced by the new method of sowing the seed in hotbed in February and March and transplanting the seedlings to the open ground. Watch for diseases and insect troubles, taking precautions against them. Diseases are hard to control. It is perhaps best simply to destroy all plants that are attacked.

All 10 cents per packet, except where quoted otherwise

	Oz.	¼lb.	Lb.
White Early Barletta. A small white Italian sort; very early.....8320	\$0 45	\$1 50	£4 50
“ Queen. Pure white; small, flat; extra early; fine for pickling.....8330	40	1 25	4 00
“ Very White Pearl. Extra-early; round; very white; fine flavor.....8334	50	1 75	5 00
“ Victoria. White and globular.....8350	45	1 50	4 50
“ Large Portugal. The standard large flat sort of the New York markets..8360	30	85	3 00
“ Large Globe. (Southport Strain.) Very large and handsome.....8370	35	1 00	3 50
“ Mammoth Garganus (Silver King). Large silvery white. Italian..8380	45	1 50	4 50
“ Maggiajola. Early; white; flat.....8385	45	1 50	4 50
“ Paris Silverskin.....8390	40	1 00	3 75
“ Philadelphia Silverskin..8392	40	1 00	3 75
“ Bermuda. (Teneriffe-grown.).....8400	35	1 00	3 50
“ Bermuda (True Crystal Wax). (Teneriffe-grown.) pkt. 15 cts..8410	45	1 50	4 50
“ Tripoli (El Paso; Mexican). Large white Italian variety.....8420	\$0 45	\$1 50	\$4 50
“ Bunching (Italian Silverskin)8430	40	1 00	3 75
“ Marvel of Pompeii. Small Italian sort; two weeks earlier than Barletta.8440	40	1 00	3 75
“ Vaugirard. White; flat; for pickling.....8450	40	1 25	4 00
“ Welsh. The leaves are used for salad early in spring. Sow in fall. Pkt. 15c.8520	60	2 00	6 00
Yellow Danvers. A standard sort; early and a good keeper.....8540	30	85	3 00
“ Globe Danvers. Of more globular shape; keeps well.....8550	30	85	3 00
“ Globe, Large. (Southport Strain.) The finest large yellow.....8560	30	85	3 00
“ Globe, Michigan. Fine keeper.....8564	30	85	3 00
“ Globe, Australian.....8565	25	75	2 25
“ Denia. Imported from Spain. It is generally conceded that this is the parent type of the well-known Prizetaker, of which, however, it is a far superior strain.....8574	75	2 00	7 50
“ Rocca, Giant. Pale yellow.....8576	45	1 50	4 50
“ Prizetaker. Immense size; globe-shaped.....8570	35	1 00	3 50
“ Strasburg, or Dutch. Fine keeper; flat; yellow skin; white flesh...8580	30	85	3 00
“ Ailsa Craig. A splendid Yellow Globe variety; grown largely for exhibition purposes. A great forcer.....pkt. 15 cts..8600	40	1 25	4 00
Red Australian Brown. Medium size; hard; solid; very early.....8700	30	85	3 00
“ Bermuda. (Teneriffe-grown.).....8710	35	1 00	3 50
“ Italian Tripoli.....8715	45	1 50	4 50
“ Wethersfield, Large. Half-early, and a good keeper; large size.....8720	30	85	3 00
“ Globe, Large. (Southport Strain.) The finest large red sort.....8730	40	1 25	4 00
“ Flat, Early.....8750	30	85	3 00
“ Globe, Early.....8760	30	85	3 00



Yellow Globe Danvers Onion

	Oz.	¼lb.	Lb.
8420	\$0 45	\$1 50	\$4 50
8430	40	1 00	3 75
8440	40	1 00	3 75
8450	40	1 25	4 00
8520	60	2 00	6 00
8540	30	85	3 00
8550	30	85	3 00
8560	30	85	3 00
8564	30	85	3 00
8565	25	75	2 25
8574	75	2 00	7 50
8576	45	1 50	4 50
8570	35	1 00	3 50
8580	30	85	3 00
8600	40	1 25	4 00
8700	30	85	3 00
8710	35	1 00	3 50
8715	45	1 50	4 50
8720	30	85	3 00
8730	40	1 25	4 00
8750	30	85	3 00
8760	30	85	3 00

ONION SETS

Plant in drills about 12 inches apart and 4 inches in the row, with their tops just showing. Give high culture.

Yellow Onion Sets.....	Lb.	\$0 30
White Onion Sets.....		35
Red Onion Sets.....		30

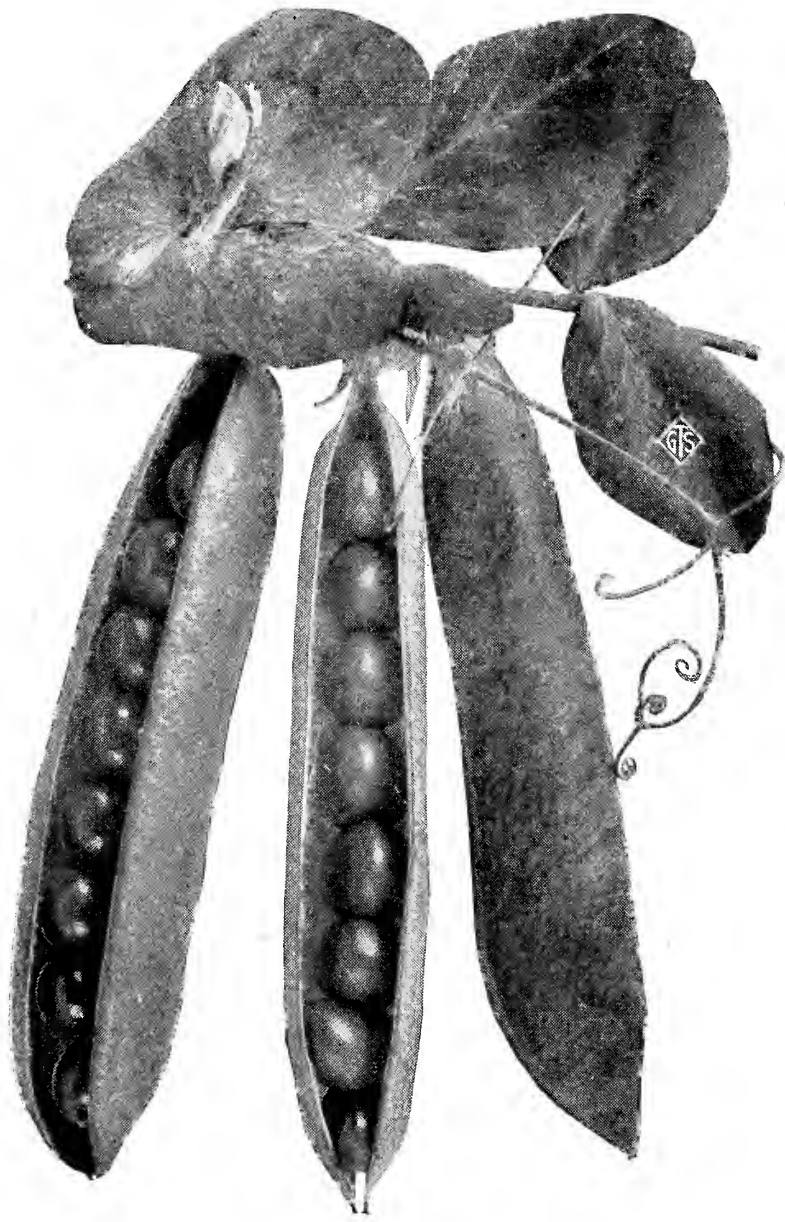
PARSLEY

PERSIL *Perijil*

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. 8870 should be thinned out while young, and managed in after cultivation the same as carrots and parsnips. The roots are edible either raw or cooked.

All 5 cents per packet

		Oz.	¼lb.	Lb.
Thorburn's Extra Curled. Superior.....	8850	\$0 15	\$0 50	\$1 50
Thorburn's Champion Moss Curled. Pretty.....	8855	15	50	1 50
Plain. The ordinary form.....	8865	15	40	1 25
Hamburg, Thick-rooted	8870	20	60	1 75



Gradus Peas

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 15 cts. each, postpaid; other quantities not prepaid. Add postage at the zone rates

PANAIS PARSNIP *Chirijia*

CULTURE.—Sow as early in the spring as the ground can be worked, in rich soil, free from large stones and without lumps, 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.

All 5 cents per packet

		Oz.	¼lb.	Lb.
Thorburn's Hollow-Crown. A market-gardener's strain.....	8890	\$0 15	\$0 50	\$1 50
Guernsey	8896	15	50	1 50

PEAS

Pois *Chicharos o Guisanthes*

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 10 days for succession. Peas may be sown in this vicinity as late as August 20. 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, 2 pounds to 100 feet of drill. In this climate, the O'Rourke Pea, if planted from the 10th to the last of August, will produce a fair crop for fall picking, when Peas will be most acceptable. Hoe often and keep the ground clean and fine. As Peas suffer in drought, moisture should be conserved by good cultivation. They should also be planted deep, especially the later crops. For this purpose furrow out to 6 inches in depth and cover the seed to only 2 or 3 inches. As the plants grow, fill up the furrow, gradually while cultivating. 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

EXTRA-EARLY PEAS

		Height in feet	Lb.	2 lbs.	5 lbs.
Thorburn Extra-Early Market. Our standard market-garden extra-early Pea; productive and profitable to grow.....	8900	2 ½	\$0 45	\$0 85	\$2 00
Daniel O'Rourke, Improved. Extra early; favorite sort.....	8910	2 ½	45	85	2 00
First-of-All. First-class selected strain of extra-earlies.....	8920	2 ½	45	85	2 00

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

EXTRA-EARLY PEAS, continued

	Height in feet	Lb.	2 lbs.	5 lbs.
Pedigree. Extra early; vigorous and prolific.....	2 1/2	\$0 45	\$0 85	\$2 00
The Leader. "Round-seeded Gradus." Long pods.....	3	40	75	1 75
Alaska. One of the very earliest blue Peas; quite productive.....	2 1/2	40	75	1 75
*† 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 to 8 large wrinkled Peas of the finest flavor.....	3	55	1 00	2 25
*† 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.....	3	55	1 00	2 25
Ameer (Claudit). Finest quality; exceedingly productive.....	2 1/2	45	85	2 00
* American Wonder. Early and productive; fine quality.....	1	50	95	2 25
* Sutton's Excelsior. As early as American Wonder, with much broader pods, filled with large Peas of finest flavor; very prolific; one of the finest dwarf Peas in cultivation.....	1	55	1 00	2 25
* Nott's Excelsior. Splendid early wrinkled sort; very prolific.....	1	50	95	2 25
Premium Gem. Early; straight pods; well filled.....	1	50	95	2 25
* Little Gem. Early; straight pods.....	1 1/2	50	95	2 25
*† Laxtonian. Very large, dark green, curved pods and Peas of finest flavor; great yielder; very early.....	2	55	1 00	2 25
* World's Record. Large-podded Pea of fine quality; very early.....	4	55	1 00	2 25

EARLY AND MEDIUM PEAS

* Advancer. A fine standard sort of excellent quality.....	2 1/2	40	75	1 75
* Abundance. Long, round, well-filled pods. Sow thinly.....	3	45	85	2 00
* Horsford's Market-Garden. On the style of Advancer; prolific....	2 1/2	45	85	2 00
Everbearing. Long pods; large Peas; sow thinly.....	2 1/2	45	85	2 00
† Pride of the Market. Very large pods; green Peas. Sow thinly....	2	45	85	2 00
* Champion of England. A well-known standard sort. Sow thickly..	5	60	1 10	2 50
* Dwarf Champion (Juno). A dwarf form of the popular Champion of England, with large pods; very productive; finest quality.....	2	60	1 10	2 50
*† Duke of Albany (American Champion). Immense pods on style of Telephone; very superior.....	5	65	1 25	3 00

MAIN- AND LATE-CROP PEAS

*† Admiral Dewey. Enormous pods; large wrinkled Peas of fine flavor; very productive.....	4	60	1 10	2 50
*† Stratagem. Very large pods; Peas of finest quality.....	2	55	1 00	2 25
*† Potlatch. A large-podded Pea; fine.....	2	55	1 00	2 25
*† Telegraph. Large pods and Peas.....	4	55	1 00	2 25
*† Telephone. Enormous pods and Peas of best quality.....	4	65	1 25	3 00
Boston Unrivalled. Large pod; prolific; suitable for light soil.....	4 1/2	60	1 10	2 50
Late White Marrowfat. Very hardy and prolific.....	4	40	75	1 75
Late Black-eyed Marrowfat. Very hardy and prolific.....	3	40	75	1 75

SUGAR PEAS (Edible Pods)

Sugar Peas have edible pods which are eaten when young.

Mammoth-podded Sugar. Immense pods.....	5	55	1 00	2 25
Mammoth Melting	4	55	1 00	2 25

PIMENT **PEPPER** *Pimiento*

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. The soil should be light, warm, and rich, but not dry. One ounce will produce 1,500 to 2,000 plants. In case of frost give cover—or if the vines bend and the fruit is likely to be soiled, give support.

All 15 cents per packet except where quoted otherwise

Bell, Large. Bright red; largely used for pickling. It is of such mild flavor that it may be eaten as a vegetable.....				Oz. 9650 \$0 75
CHINESE GIANT. Very large; flesh very mild and thick; bright scarlet color.....				9660 1 00
Cayenne Long Red. Slender pods; 3 inches; pungent.....			pkt. 10 cts.	9670 50
Crimson Giant. Upright growth; large, thick, mild flesh.....				9685 75
Golden Dawn. Mild and sweet; handsome and distinct; small.....				9690 75
Monstrous, Sweet. Very large and of mild flavor; for use when green.....			pkt. 10 cts.	9710 60

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



Chinese Giant Pepper (see page 33)

PEPPER, continued

All 15 cents per packet, except where quoted otherwise

Neapolitan. Early and productive; large and sweet.....	9720	Oz. \$0 75
Perfection Sweet. A very sweet Pepper, piquant flavor, not fiery; medium size; thick-skinned and of brilliant scarlet; top-shaped.....	9725	75
Red Cherry. Cherry-shaped; used for pickles; very hot.....	9740	pkt. 10 cts. 60
Red Chili. Productive; small; red and very pungent.....	9750	pkt. 10 cts. 60
Royal King. Similar but greatly superior to Ruby King. Flesh very thick, mild, and sweet; fine shipper.....	9755	75
Ruby Giant. Large, desirable shape for stuffing; mild and delicate.....	9764	75
Ruby King. Bright red; 4 to 6 inches long; mild; best for stuffing.....	9770	75
Squash, Large, or Tomato. Productive; for pickles.....	9780	pkt. 10 cts. 60
Sweet Spanish. Large; mild; used for salad.....	9800	pkt. 10 cts., ¼lb. \$1.75, lb. \$6. 60

POTIRON **PUMPKIN** Calabaza

CULTURE.—Any average garden soil will do. May be planted middle of spring, among the Indian corn or in the field or garden, in hills 8 to 10 feet apart each way, 4 seeds in a hill. Spade into the hills a bushel or more of compost, and a double handful of good commercial fertilizer. In other respects is cultivated in same manner as melons and cucumbers. Avoid planting near other vines. Sow seeds about 1 inch deep, 1 ounce for 30 hills. If the largest possible fruit is wanted, allow but one to set on a plant, pinching off all others.

All 5 cents per packet

	Oz.	¼lb.	Lb.
Large Cheese. Flat; one of the best varieties for family use.....	10150	\$0 15	\$0 50 \$1 50
Early Sugar. Fine-grained, sweet and prolific; small; yellow. Flattened or slightly ribbed; one of the best for Pies.....	10170	15	50 1 75
Golden Oblong. Orange skin; light yellow flesh; fine quality; good keeper.....	10200	Oz. \$0 15	¼lb. \$0 50 Lb. \$1 75
Cushaw Striped. A splendid striped crook-neck variety.....	10220	20	60 2 00
Cushaw White, or Jonathan. A white crookneck variety of excellent quality; fine for pies.....	10224	20	60 2 00
Cushaw Mammoth Golden. A golden yellow variety of excellent quality; fine for pies.....	10225	20	60 2 00
Tennessee Sweet Potato. Very large; bell-shaped; thick white flesh; fine for pies.....	10230	15	50 1 75
Japanese Pie. Early; dark green; flesh yellow. Similar in size and form to the well-known Cushaw.....	10246	15	50 1 75
Mammoth King. Salmon-orange skin; very thick bright yellow flesh; fine grained and tender. Grows to an enormous size.....	10260	20	60 2 00
Mammoth Tours. Very large, oval; deeply ribbed; skin greenish yellow; flesh thick and deep yellow.....	10270	20	60 2 00
Quaker Pie. Bell-shaped, slightly crooked; very large; yellow, mottled green; yellow flesh; very prolific and a good keeper; fine for pies.....	10280	20	60 2 00
Red Etampes. Medium size, round, flat; ribs broad and well marked; skin a very bright and distinct orange-red color. Fine thick yellow flesh; grows 12 to 15 inches in diameter.....	10285	20	60 2 00
Winter Luxury. Medium size, nearly round; russet yellow; very thick light yellow flesh. A fine keeper and one of the best for pies.....	10290	15	50 1 75
Connecticut Field. Very large, oval, flattened ends; red; deep yellow skin and flesh. Grown in cornfields for stock.....	10300	15	50 1 50

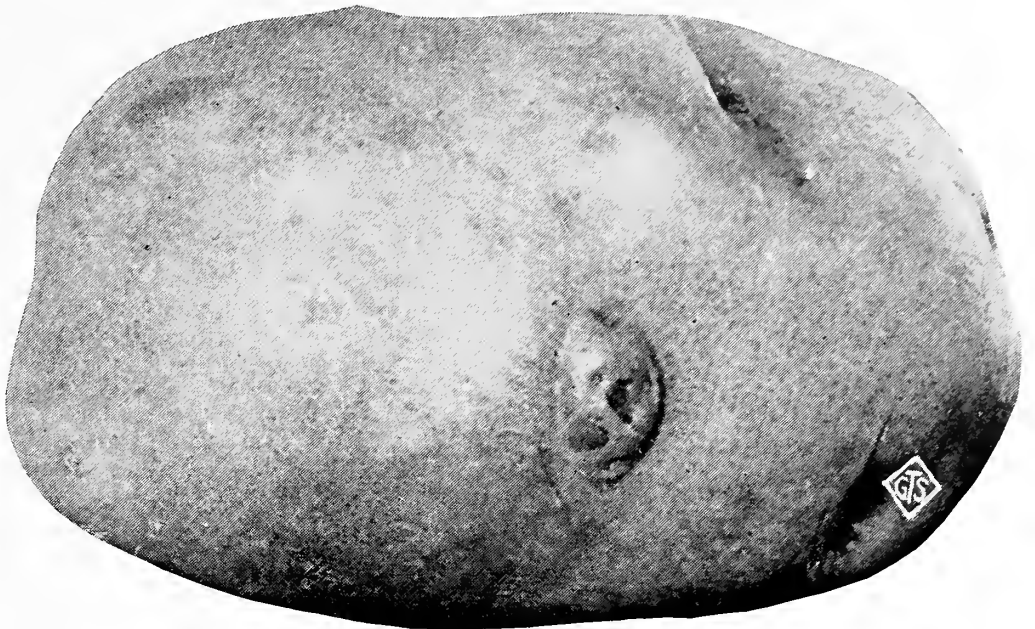


Quaker Pie Pumpkin

POMME DE TERRE **POTATOES** *Patatas*

Grown Expressly for Seed. In Barrels

CULTURE.—Three to 4 barrels to the acre, 1 peck for 100 feet of row. 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, neither dry nor wet. It is wise to select a variety that has done well in the gardener's locality. The farther south the grower lives, the surer he should be that his seed is from the North, for southern-grown seed keeps poorly and sprouts badly. Be sure that all danger of frost is past before planting. Cut the potatoes into chunky pieces of one quarter or so, not thin slices, and plant in rows 3 feet apart, and the sets 1 foot in the rows and about 4 inches deep. 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, so as not to break the sprouts, and set out on fresh horse dung, so that the heat will cause them to start at once. For diseases and pests in general, beginning when the plants are up 6 to 8 inches, spray with a mixture of bordeaux and paris green every two weeks or so. 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.



Carman No. 1 Potato

These are prices ruling January 1; later on they may be higher and are subject to change without notice. We ship Potatoes entirely at customer's risk

One barrel weighs 165 pounds net; one bushel, 60 pounds net

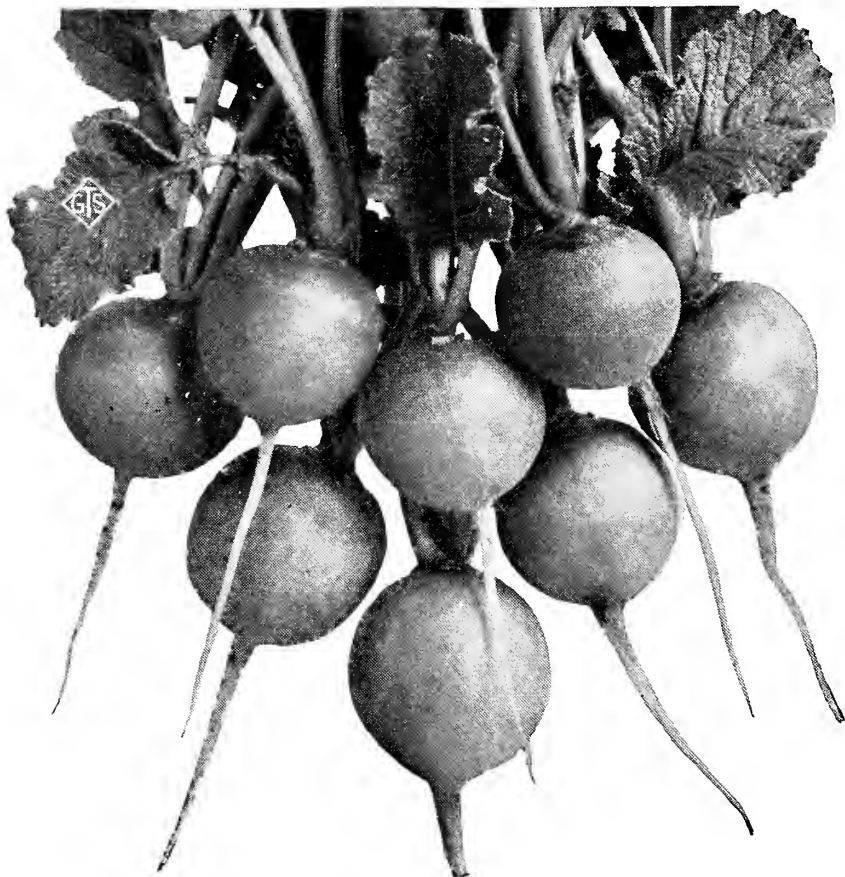
EARLY POTATOES

	1/2pk.	Pk.	1/2bus.	Bus.	Bbl.	
Thorburn's Beauty of Hebron. Slightly flesh-colored skin, with pure white flesh; early; very productive and of the finest quality....	10420	\$0 70	\$1 00	\$1 90	\$3 50	\$9 00
Irish Cobbler. Fine; white; vigorous grower.....	10430	70	1 00	1 90	3 50	9 00
Bovee. Extra early; very productive; fine quality; flesh white....	10440	70	1 00	1 90	3 50	9 00
Early Rose. Popular market sort; very early; fine quality; very productive.....	10460	70	1 00	1 90	3 50	9 00

INTERMEDIATE AND LATE POTATOES

Gold Coin. A splendid main-crop variety of remarkable productiveness and finest table quality; slightly oblong form; light golden skin; flesh pure white, fine-grained; cooks very dry.....	10520	70	1 00	1 90	3 50	9 00
Carman No. 1. This most valuable Potato was introduced by us in 1894, and it is a recognized high-class standard sort the world over. The finest second-early Potato ever offered.....	10530	70	1 00	1 90	3 50	9 00
Dibble's Russet. Best main-crop Potato now in cultivation; round to oblong in shape, of good size; pure white flesh; russet skin; few and shallow eyes; excellent quality; very productive and a good market variety; vines rich dark green, very robust, and extremely disease resistant.....	10535	70	1 00	1 90	3 50	9 00
Sir Walter Raleigh. Very productive; white flesh of best quality..	10560	70	1 00	1 90	3 50	9 00
Rural New Yorker. An old standard Potato. Very few and shallow eyes; fine, pure white skin and flesh; immense yielder; fine table quality, cooking very mealy.....	10580	70	1 00	1 90	3 50	9 00
Green Mountain. Oval shape; white skin and flesh; excellent; heavy yielder.....	10590	70	1 00	1 90	3 50	9 00

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Scarlet Globe-shaped Turnip Radish

RADISH

RADIS ET RAVE *Rabanos y Rabanitos*

CULTURE.—Sow as soon as the ground is dry in the spring, in rows 8 to 12 inches apart, and ½ inch deep, every week or 10 days for a succession up to the middle of June, after which they are but little used unless a cool northern spot can be had, where the ground is shaded during a part of the day. They should be sown in light, rich soil, as a crisp Radish cannot be produced in heavy soils. Sow also in early fall for late crops and winter use. Sow 8 to 10 pounds to the acre; 1 ounce for 100- to 125-foot row. 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.

All 5 cents per packet

	Oz.	¼lb.	Lb.
* Turnip, Early Scarlet. Very early. The French favorite.....10680	\$0 15	\$0 45	\$1 25
* Turnip, Early Scarlet Forcing. Crisp; very early.....10690	15	50	1 50
* Turnip, Extra - Early Scarlet Forcing, "Ne Plus Ultra" ... 10700	15	50	1 50
* Turnip, Early Scarlet White-tipped. Very early; for frames or outdoors.10710	15	50	1 50
" " " " " Forcing, Rosy Gem10720	15	50	1 50
* " " " Cooper's Sparkler. Carmine, with white tip.....10730	15	50	1 50
" " " Deep Scarlet. Very early; crisp.....10740	15	50	1 50
* " " " SCARLET GLOBE-SHAPED. Fine for forcing or open ground. The Radishes are almost round, of a beautiful rich scarlet, very tender and crisp.....10810	15	50	1 50
" " " CRIMSON GIANT FORCING. Good also for outdoors. In spite of their large size these Radishes are crisp and solid.....10820	15	50	1 60
" " " White10842	15	50	1 60
" " " Round White Forcing, or Box10850	15	50	1 60
" " " Large White Summer10860	15	50	1 50
" " " Early Yellow. Extra early.....10890	15	50	1 50
* French Breakfast. Pink and white; early.....11000	15	50	1 60
Olive-shaped Scarlet11094	15	50	1 50
Half-long Deep Scarlet (Paris Beauty)11140	15	50	1 75
* Long Scarlet Short-Top. Very long; crisp; for frames or outdoors.....11180	15	50	1 60
* Long White Vienna, or Lady Finger. Crisp and tender in summer.....11220	15	50	1 50
Long Icicle. Pure white; of fine flavor; suitable for forcing.....11230	15	50	1 50
Long Cincinnati Market. An improved strain of Long Scarlet.....11240	15	50	1 60
Long Scarlet Chartier. Tipped white; splendid summer variety.....11245	15	50	1 50
* Long Wood's Frame. Long; red; crisp; good forcer.....11250	15	50	1 50
* White Strasburg Summer. Very large; a popular favorite.....11320	15	50	1 75
* Winter Rose Chinese Half-long. Very handsome and distinct and keeps well.....11380	15	50	1 50
Winter Long Black Spanish. The popular winter sort.....11390	15	50	1 60
Winter Round Black Spanish. Fine for winter.....11420	20	60	1 90
Winter Celestial. Roots white, cylindrical, very large; flesh white; mild flavor.....11440	15	50	1 50
Winter California Mammoth White. Very large winter variety.....11450	15	50	1 50
Sakurajima (Mammoth Japan). The largest sort in cultivation. Sow early in rich soil. In Japan it grows as much as 21 inches long and 43 inches in circumference. Thin well to allow of proper development.....11480	25	75	2 50

ROQUETTE

CULTURE.—Sow early in spring, and thin out to 8 to 10 inches. If kept well scuffled and watered the tart flavor of the leaves is greatly diminished. This flavor is not pronounced in the small leaves, which are used for salad. The flowers, appearing from May to June, have very much the odor of orange-blossoms. 11590. Pkt. 10 cts., oz. 30 cts., ¼lb. 85 cts., lb. \$3.

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 the 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 and deep 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.
Victoria	11640	\$0 05	\$0 25	\$0 75 \$2 50
		Each	10	
Strong ROOTS of Victoria	11700		\$0 35	\$3 00

Transportation charges extra

SCOLYMUS

The roots resemble a small parsnip, and will keep through the winter like a turnip. It is cultivated exactly like the carrot, except that it should be grown in rows 3 feet apart and 18 inches in the rows. It is eaten boiled like salsify. **11740.** Pkt. 10 cts., oz. 30 cts., ¼lb. 85 cts., lb. \$3.

SCORZONERA

CORZONERE *Escorzonera*

CULTURE.—Cultivate the same as salsify. It is cooked in the same manner, but on account of being somewhat more difficult to raise, is seldom seen in cultivation. Considered by many superior to salsify. It is also called Black Salsify. **11780.** Pkt. 10 cts., oz. 40 cts., ¼lb. \$1.25, lb. \$4.

SALSIFY, or VEGETABLE OYSTER

SALSIFIS *Ostion Vegetal*

CULTURE.—Salsify will grow in any good garden soil. Work in some good general chemical fertilizer and scatter some of it along the furrow, covering lightly before dropping in the seed. 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. Use 1 ounce to a 60-foot row; 8 to 10 pounds to the acre. Keep the plants free from weeds. 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 ½inch 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.

	Pkt.	Oz.	¼lb.	Lb.
Long White French	11840	\$0 15	\$0 45	\$1 25 \$4 50
Mammoth Sandwich Island. Large.	11850	15	45	1 25 4 50



SORREL

OSEILLE *Acedera*

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

		Oz.	¼lb.
Garden, Large French	11930	\$0 30	\$1 00
“ Mammoth Lyons, White	11940	30	1 00
“ Golden-leaved Lyons	11944	30	1 00

Mammoth Sandwich Island Salsify

Would you like to have larger and better crops, with less fertilizer and less labor, and at the same time improve the soil for future crops? Mulford's Cultures or Farmogerm will do all this for you. They increase the yield of Peas and Beans, likewise the quality, and cause them to bear earlier and longer. See page 58 for full information.

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



Giant Lucullus Swiss Chard

SWISS CHARD, or SILVER BEET

Silver-Leaf. This is a Beet producing leaves only, of a quality superior to those of the ordinary Beet, and excellent as greens. Cultivate about the same as spinach, by sowing the seed in early spring in drills about a foot apart. As it grows, thin out for use, and keep clear of weeds if success is desired. When thinned out to 1 or 1½ feet apart in the rows, pull the leaves as required, leaving the interior head to grow again. Good cultivation will increase the delicacy and tenderness of the leaves. 1690. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. \$1.75.

Giant Lucullus. Large, crinkled leaves; tender and of fine flavor; dark green; pure white ribs. 1700. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. \$1.80.

SPINACH

EPINARD *Espinaca*

CULTURE.—Sow in early spring, 1 inch deep, in drills a foot apart (10 to 12 pounds to the acre; 1 ounce to 100-foot drill), every two weeks for a succession, and, as it grows, thin out for use. Soil should be rich and light. Spade in plenty of compost or well-rotted manure, with a good high-grade fertilizer, putting also some of the latter under the row, covering lightly before sowing the seed. For fall use, sow in August, and for winter crop in September. Cover that which is left out over winter with straw or leaves after the weather

becomes quite cold. Keep clear of weeds. Sow the seeds of New Zealand in hills 2 feet apart each way, three or four seeds in a hill.

All 5 cents per packet

	Oz.	¼lb.	Lb.	
Round Viroflay (Thick-leaved). Has very large, thick, dark green leaves; the favorite market-gardeners' sort for fall or spring sowing.....	12000	\$0 10	\$0 25	\$0 75
Long Season, Thorburn's. Stands longer before running to seed than any other sort except New Zealand.....	12010	10	25	75
Round-leaved Flanders. A standard sort.....	12020	10	25	75
Curled-leaved Savoy, (Bloomsdale). Large curled and wrinkled leaves; tender and of finest flavor.....	12050	10	25	75
Long-standing (Round Thick-leaved). Dark green; leaves large and thick; very long-standing. Best for spring growing.....	12060	10	25	75
Victoria. Extra-dark, black-green color. Two or three weeks later than the ordinary "Long-standing." A fine variety for spring sowing.....	12070	10	25	75
Prickly, or Winter. Vigorous and hardy; recommended for fall sowing.....	12080	15	45	1 25
Triumph. An improved long-standing sort.....	12100	10	25	75
New Zealand Summer. Not a Spinach, but used as such. Grows 1½ feet high and is very prolific. Pick the leaves and shoots as wanted. It does well in hot summer weather; valuable for hot climates. Soak the seed in hot water before sowing.....	12120	20	60	2 00



Mammoth Whale Squash (see page 39)

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

SQUASH

COURGE *Calabaza*

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. Four ounces to 100 hills for bush varieties and eight ounces for running varieties.

All 5 cents per packet except where quoted otherwise

BUSH VARIETIES

	Oz.	1/4lb.
Early Golden Bush. Fine for summer; not so early as the White Bush.....	12200	\$0 25 \$0 75
Golden Custard. Mammoth strain of the Golden Bush. A valuable variety; golden yellow flesh; fine quality.....	12210	25 75
Early White Scallop Bush. A good early shipping variety.....	12220	25 75
Mammoth White Scallop Bush (Silver Custard). Not so early as the former, but it produces larger fruits.....	12224	25 75
Long Island White Bush. An improved strain of Early White Scallop Bush; very prolific.....	12230	25 75
Fordhook White Bush. Oblong fruits; smooth, thin yellow skin.....	12234	25 75
Summer Crookneck. Yellow fruit; distinct; best for summer.....	12270	25 75
“ “ Giant; double the size of the above.....	12280	25 75
“ “ White fruited	12285	25 75
Cocozelle Bush (True Italian Vegetable Marrow). A fine variety; oblong shape; skin smooth, dark green, marbled yellow or pale green..... Pkt. 10 cts....	12300	45 1 25

RUNNING VARIETIES

	Oz.	1/4lb.
Boston Marrow. Oval; bright orange; flesh yellow and fine.....	12410	\$0 25 \$0 75
Delicata. Orange-yellow, striped green; small size, but very prolific; it is extra early, solid, and a good keeper; flesh dry and of fine quality.....	12440	20 60
Delicious. Green skin; orange flesh, fine-grained, sweet and dry.....	12450	25 75
Fordhook Running. One of the best winter sorts; fine quality.....	12470	20 60
Hubbard. Well known and liked for late use; an excellent sort for pies.....	12500	25 75
Golden or Red. Same as above, but with orange-red skin.....	12510	25 75
Mammoth Warted. Immense size, covered with warts.....	12530	25 75
Mammoth Chili. Rich orange flesh; grows to an enormous size.....	12540	25 75
Mammoth Whale. Enormous size; solid; bright orange flesh of fine quality.....	12550	25 75
Marblehead. Gray skin; very productive; fine keeper.....	12560	25 75
Orange Marrow. Quite distinct; very early, and of most delicate flavor; suitable for fall and winter.....	12570	\$0 25 \$0 75
Turban. Orange-yellow flesh; good flavor.....	12590	30 1 00
Early Prolific Marrow. Similar to Boston Marrow, but earlier; bright orange; delicate, rich flavor; vigorous and very productive.....	12595	25 75
Lagenaria leucantha longissima. Known to some gardeners as “Cutcutza.” Averages 2 feet long, 3 inches in diameter, tapering to 2 inches. Should be eaten when young..	12598	30 1 00

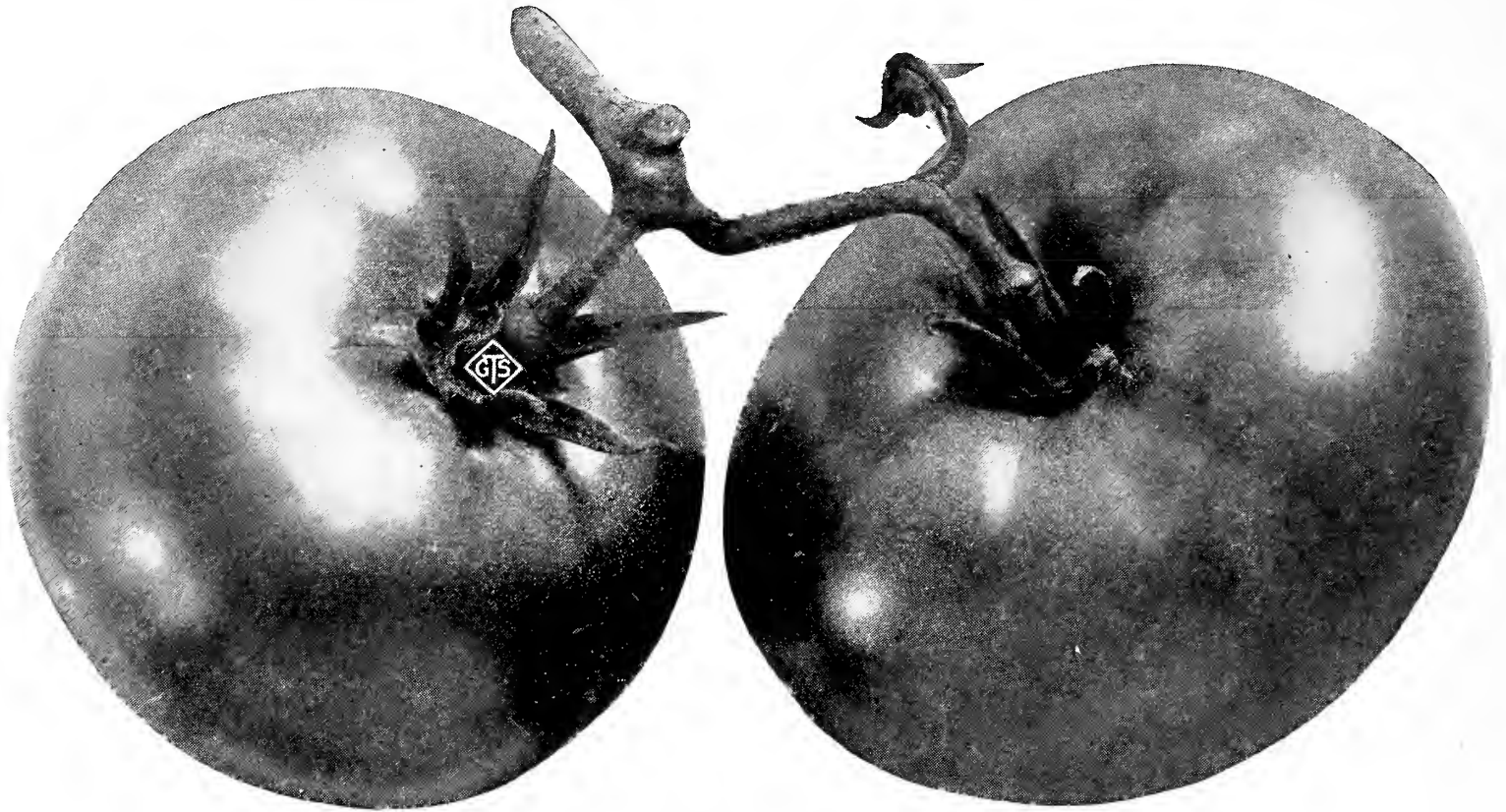


Delicious Squash

VEGETABLE MARROW

	Oz.	1/4lb.
English. True strain; cream color.....	12680	\$0 25 \$0 75
“ True strain; white.....	12685	25 75
“ True strain; green.....	12690	25 75
Italian (Cocozelle di Napoli). Grows about 20 inches long, with a diameter of 3 to 4 inches. Skin smooth, dark green, marbled yellow or pale green. In Italy it is eaten when quite young.....pkt. 10 cts....	12700	45 1 25

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Thorburn's Stone

TOMATO **TOMATO** *Tomate*

CULTURE.—Sow in a hotbed in early spring, about 1/8 inch deep, 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. One ounce will produce 1,500 to 2,000 plants. Transplant to the open ground when all danger of frost is past, setting the plants 3 to 4 feet apart each way. Soil should not be wet, but should have a good supply of moisture. It should be deep, with plenty of well-rotted manure. Avoid any nitrogenous food, and dress the plants only once or twice lightly with manure water or nitrate of soda. Fruit may be had several weeks earlier by sowing seed quite early and transplanting into small pots. When setting out plants, put them several inches lower in the ground than they stood in the pot, in order that they will not dry out. Tomatoes that have not ripened at the end of the season may be taken from the vines and placed in empty coldframes, or wrapped in tissue paper and carefully packed in flat boxes, where a large proportion of them will ripen from time to time, frequently until Christmas.

The varieties marked * are best for forcing

All 10 cents per packet, except where quoted otherwise

	Oz.	1/4lb.
Acme. Medium size; smooth and good; crimson.....	12740	\$0 50 \$1 50
* Atlantic Prize. Extra early; smooth; medium scarlet; good size.....	12750	50 I 50
Beauty. Large; smooth; dark crimson; thick flesh; regular form.....	12770	50 I 50
Bonny Best. Very early; scarlet; medium to full market size; even, smooth and regular; valuable for home garden or market.....	12775	50 I 50
Buckeye State. Very large and productive; crimson; smooth, uniform; good quality..	12780	50 I 75
* Carter's Sunrise. Early and productive; medium-sized, bright scarlet fruits; smooth and solid; for forcing or for outdoors.....	12794	60 2 00
Chalk's Early Jewel. Fine; large; solid; smooth; scarlet; similar to Stone; early...	12800	60 2 00
Coreless, Livingston's. Almost round; bright red; very productive. Ripens all over at once and being almost free from green core it is an exceptionally fine slicing sort..	12810	30 I 00
Crimson Cushion. Extra large; handsome; bright crimson.....	12830	75 2 50
Cluster, Thorburn's Improved. Bright scarlet; grows in bunches like grapes....	12835	50 I 50
Dwarf Champion. Quite distinct; early; fruit like the Acme; crimson; of medium size; good quality.....	12840	50 I 75
Dwarf Giant. Largest-fruited of all dwarf sorts; crimson; firm flesh of delicious flavor. Compact and vigorous grower.....	12844	50 I 50
* Earliana. Extra early; cardinal-scarlet; smooth.....	12850	50 I 50
Favorite. Large, smooth; productive and good shipper.....	12900	50 I 50
* Frogmore Selected. Medium size; bright, deep red; smooth; very solid and fine-flavored. An excellent sort for forcing under glass.....	12920	50 I 50
Freedom. Early; regular and uniform; bright scarlet.....	12930	50 I 50
Globe, Livingston's. Very early; crimson; smooth and of large size; very productive and a good keeper. A standard variety which retains its popularity.....	12940	60 2 00
Golden Queen. Smooth; golden yellow; about size and form of Beauty; of good flavor and solid; fine; very early.....	12950	75 2 50
Lorillard. Bright glossy red; smooth; of fine flavor and very early; very productive and satisfactory.....	13000	75 2 50

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



Small-Fruited Tomato—Red Cherry

TOMATOES, continued

All 10 cents per packet, except where otherwise quoted

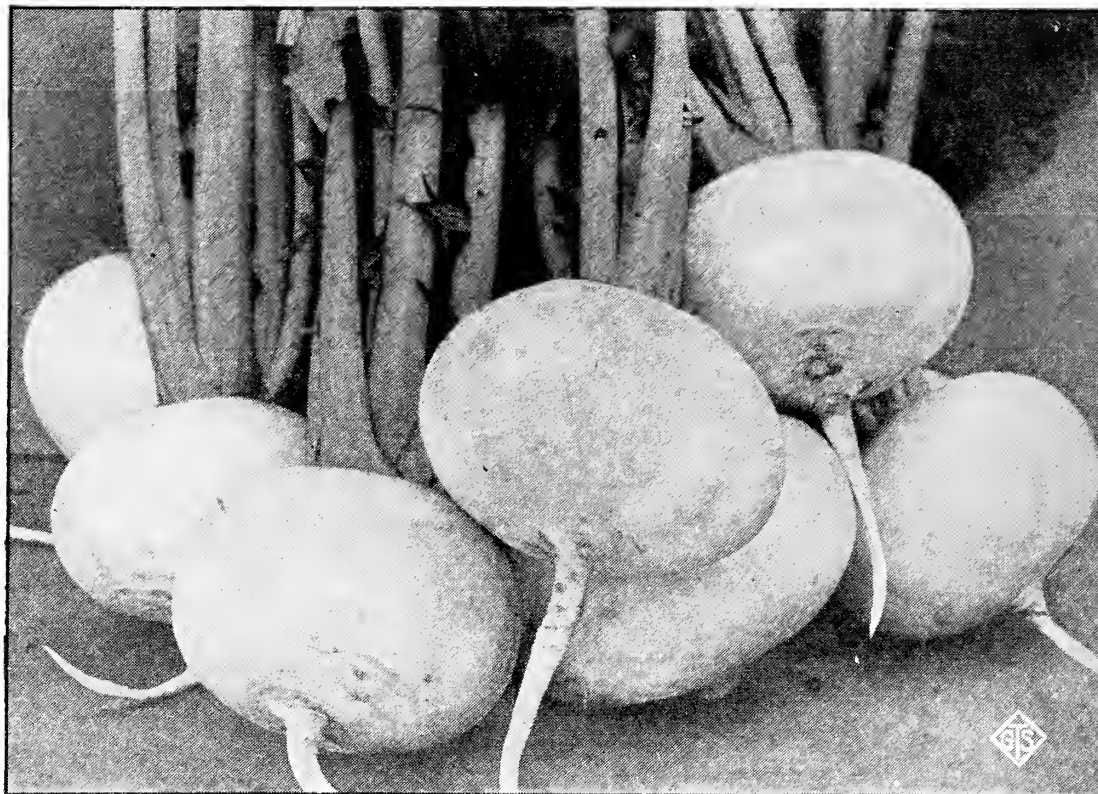
	Oz.	1/4lb.
Matchless. Extra large; smooth and handsome; scarlet; very solid. Plant of vigorous growth and prolific.	13030 \$0 50	\$1 50
Michigan Early. Large; scarlet; smooth and solid.	13035 50	1 50
Mikado. Crimson; large; smooth and solid.	13040 60	2 00
Noroton Forcing. Bright crimson; solid; very prolific; of uniform size, averaging about six to a pound. Valuable forcer.	13045 50	1 50
Optimus. Medium size; cardinal-scarlet; smooth and solid; second early.	13050 50	1 50
Paragon. Cardinal-scarlet; round; very productive.	13060 50	1 50
Perfection. Early; regular and productive; scarlet.	13070 50	1 75
Ponderosa. The largest variety in cultivation; crimson. pkt. 15 cts.	13080 75	2 50
RED ROCK. An improvement on the well-known Stone. Exceedingly firm-fleshed; very large size, and ripens evenly without cracking. The vine is a strong, vigorous grower and produces its fruit in great profusion.	13084 50	1 50
Ruby Early. Very early; large size; color bright scarlet.	13110 50	1 50
* Stirling Castle. Small size; solid; finest flavor; scarlet; good for forcing under glass.	13120 60	2 00
Stone, Thorburn's. Very large; perfectly smooth; fine dark scarlet.	13130 50	1 50
Stone Dwarf. In fruit resembling Dwarf Champion, but with much larger fruit; color bright scarlet; perfect shape; very solid; of the best quality.	13140 50	1 50
Success. Large; bright scarlet; smooth and solid; productive. Plant strong and thrifty in growth.	13150 50	1 50
Trophy. Very solid; standard late; fine canner; dark scarlet. A particularly vigorous and thrifty grower.	13200 50	1 75
Trucker's Favorite. Crimson; large; smooth and very regular in form; solid.	13210 50	1 75

SMALL-FRUITED TOMATOES

For pickling and preserving. Also invaluable for garnishing.

	Oz.
Red Cherry. Small fruits, used for pickles; very handsome.	13300 \$0 60
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" Plum. Bright red; round; regular; for pickles.	13340 60
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" Plum. Round and regular; bright yellow; used for pickles.	13390 60

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



Early Snowball Turnips

TURNIP

NAVET *Nabo*

CULTURE.—For early Turnips, sow as soon as the ground opens in spring. Nos. 13854 to 13930 should be sown from any time in July to first of August, but the other kinds, for winter use, may be sown from the middle of July to the end of August. Turnips are generally sown broadcast but much larger crops are obtained (particularly of the Rutabagas) by cultivating in drills 18 inches apart, and thinning to 6 inches in the drill. Sow in drills, 1 pound to the acre; 1 ounce to 150 feet of drill; broadcast, 2 to 3 pounds to the acre.

All 5 cents per packet

WHITE VARIETIES

	Oz.	¼lb.	Lb.
Cow Horn. Long; white; in shape resembling a cow's horn.....	13500	\$0 20	\$2 00
Early Snowball. Small; of rapid growth; pure white.....	13510	20	2 00
Globe-shaped Red-Top. A standard sort in the New York market.....	13530	15	1 50
Globe Pomeranian White. Good either for table or stock.....	13540	15	1 50
Jersey Lily (White Model). Snow-white; globular.....	13570	20	2 00
Kashmyr Scarlet. Bright, handsome color; small; flat; extra early; pure white flesh of finest quality.....	13580	15	1 50
Milan, Early Purple-Crown. Earliest of all; white, with purple top; flesh of fine quality and tender.....	13590	25	3 00
Milan, Early Pure White. Very handsome; pure white; crisp and tender; as early as above.....	13600	25	3 00
Strap-Leaf, White. A good early, white flat sort.....	13640	15	1 50
Strap-Leaf, Red-Top. The popular fall flat sort.....	13650	15	1 50
White Egg. Oval; handsome and sweet.....	13680	15	1 75

YELLOW VARIETIES

Aberdeen Yellow. Hardy, productive and a good keeper.....	13750	15	1 50
Amber Globe. Fine, sweet, light yellow sort.....	13755	15	1 50
Golden Ball. Very handsome; keeps fairly well.....	13780	15	1 50

RUTABAGA

American Purple-Top. Yellow flesh.....	13842	15	1 50
Bangholm. Extra selected. Small neck; yellow flesh; dark purple top.....	13845	15	1 75
Budlong White Rock. Very early; round and white.....	13854	15	1 50
Thorburn's Family. For family use.....	13850	25	2 25
Laing's Improved Strap-Leaf.	13855	15	1 50
Champion Purple-Top. Very large.....	13844	15	1 75
Sweet German or Russian.	13880	15	1 50
White Rutabaga.	13870	15	1 50
Yellow Perfection. Extra fine.....	13930	15	1 50

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

Seeds of Pot, Sweet and Medicinal Herbs

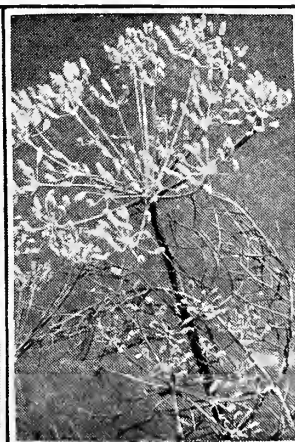
		Pkt.	Oz.	¼lb.
Agrimony. For medicinal purposes.....	<i>Agrimonia officinalis</i>	14000	\$0 25	
Angelica, Garden. For flavoring wines and cakes..	<i>Archangelica officinalis</i> ..	14010	10	\$0 50
Anise. Seeds aromatic and carminative.....	<i>Pimpinella anisum</i>	14020	10	30
Balm. For culinary purposes.....	<i>Melissa officinalis</i>	14040	10	50
Basil, Sweet. Culinary herb used for flavoring soups, etc.....	<i>Ocimum Basilicum</i>	14050	10	25
Basil, Dwarf or Bush. Culinary herb.....	<i>Ocimum minimum</i>	14060	10	25
Belladonna. Used for medicine.....	<i>Atropa Belladonna</i>	14070	25	1 00
Borage. Leaves used as a salad.....	<i>Borago officinalis</i>	240	10	30
Caraway. For sowing. Used in flavoring liquors and bread.....	<i>Carum Carvi</i>	14100	10	30
Coriander. Seeds aromatic. For sowing.....	<i>Coriandrum sativum</i>		Lb. \$1..	14130
			05	10
Dill. Ordinary variety.....		14150	10	20
				\$0 50
Dill, Mammoth. Seeds used for flavoring vinegar. Larger than the ordinary variety.....		14154	10	20
				50
Elecampane. Has tonic and expectorant qualities..	<i>Inula Helenium</i>	14160	25	1 50
Fennel, Sweet. Seeds aromatic; for flavoring.....	<i>Anethum Fœniculum</i>	14170	10	20
“ Florence. In flavor resembling celery.....	<i>Anethum Fœniculum</i>	14180	10	20
				60
Fumitory. A medicinal herb.....		14200	25	
Hemlock. Has medicinal qualities. Poisonous.....	<i>Conium maculatum</i>	14210	25	1 50
Henbane. Has medicinal qualities. Poisonous.....	<i>Hyoscyanus niger</i>	14220	10	50
Horehound. Has medicinal qualities.....	<i>Marrubium vulgare</i>	14230	10	50
Hyssop. Has medicinal qualities.....	<i>Hyssopus officinalis</i>	14240	10	60
Lavender. True. For oil and distilled water.....	<i>Lavandula vera</i>	14250	25	1 00
“ Possessing qualities as above in a lesser degree.....	<i>Lavandula spica</i>	14260	10	50
Marigold, Pot. Single. For medicinal purposes.....	<i>Calendula officinalis</i>	14280	10	25
Marjoram, Sweet. Is used in seasoning.....	<i>Origanum Majorana</i>	14290	25	1 00
“ Pot. Used in seasoning.....	<i>Origanum Onites</i>	14294	25	2 00
Mint. Peppermint.....	<i>Mentha piperita</i>	14310	25	
“ Curled	<i>Mentha crispa</i>	14300	25	
Pennyroyal. Has medicinal qualities.....	<i>Hedeoma pulegioides</i>	14320	25	1 00
Rue. Said to have medicinal qualities.....		14340	10	60
Sage, Broad-leaved. A culinary herb; also used in medicine.....	<i>Salvia officinalis</i>	14360	25	1 00
				3 00
Savory, Summer. Is used as a culinary herb.....	<i>Satureia hortensis</i>	14390	10	50
“ Winter. Is used as a culinary herb.....	<i>Satureia montana</i>	14400	10	40
Tansy. Generally used in bitters.....	<i>Tanacetum vulgare</i>	14410	25	1 00
Tarragon. True. Does not produce seed. Roots in fall and spring. 35 cts. each, \$3 for 10.....	<i>Artemisia Dracunculus</i> ..	14420		
Thyme, English.		14430	25	2 00
“ French.	<i>Thymus vulgaris</i>	14440	25	
“ Winter.			10	60
Wormwood. Has medicinal qualities.....	<i>Artemisia Absinthium</i> ..	14460	10	50



Peppermint



Lavender



Sweet Fennel



Sage



Summer Savory

TOBACCO SEED

	Oz.	¼lb.
Climax. A cross between Burley and Sterling; fine bright variety.	14610	\$0 75 \$2 00
Connecticut Seed Leaf. The popular sort; used for cigar wrappers.	14620	75 2 00
Conqueror. Superior bright yellow.	14622	75 2 00
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Havana. Seed gathered for us from the celebrated plantations of the "Vuelto de Abajo".....	14630	80 2 50
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Kentucky Yellow. Leaf of large size, handsome shape, excellent quality and of surprisingly fine texture, taking size into consideration.	14650	75 2 00
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Virginia James River.	14755	75 2 00
White Burley, Improved. Leaf is large and broad, with yellowish white stem and ribs.	14756	75 2 00
Yellow Mammoth. Large yielder.	14760	75 2 00

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

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

	Lb.
Canary Seed, Plain. Best grade.	\$0 25
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Hemp.	25
Sorghum, Mixed (Kaffir Corn). For pigeons, etc. 25 lbs. \$2.50, 50 lbs. \$4.50..	12
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Millet, Golden.	20
Rape.	20
Gravel for Cages. per qt. 10 cts. ...	
Cuttlefish Bone.	I 00
Sunflower Seed for Parrots.	25

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

ESCULENT PLANTS AND ROOTS

Artichoke Roots, Jerusalem. per qt. 25 cts., pk. \$1.50.	10	100	1,000
Asparagus Roots. Plant either in fall or spring.			
Colossal. Two years old; in bundles of 50.50 for 60 cts.	\$1 00	\$9 00
" Three years old.50 for \$1	1 50	14 00
" Four years old; for forcing.50 for \$1.50	2 25	20 00
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" Three years old.50 for \$1	1 50	14 00
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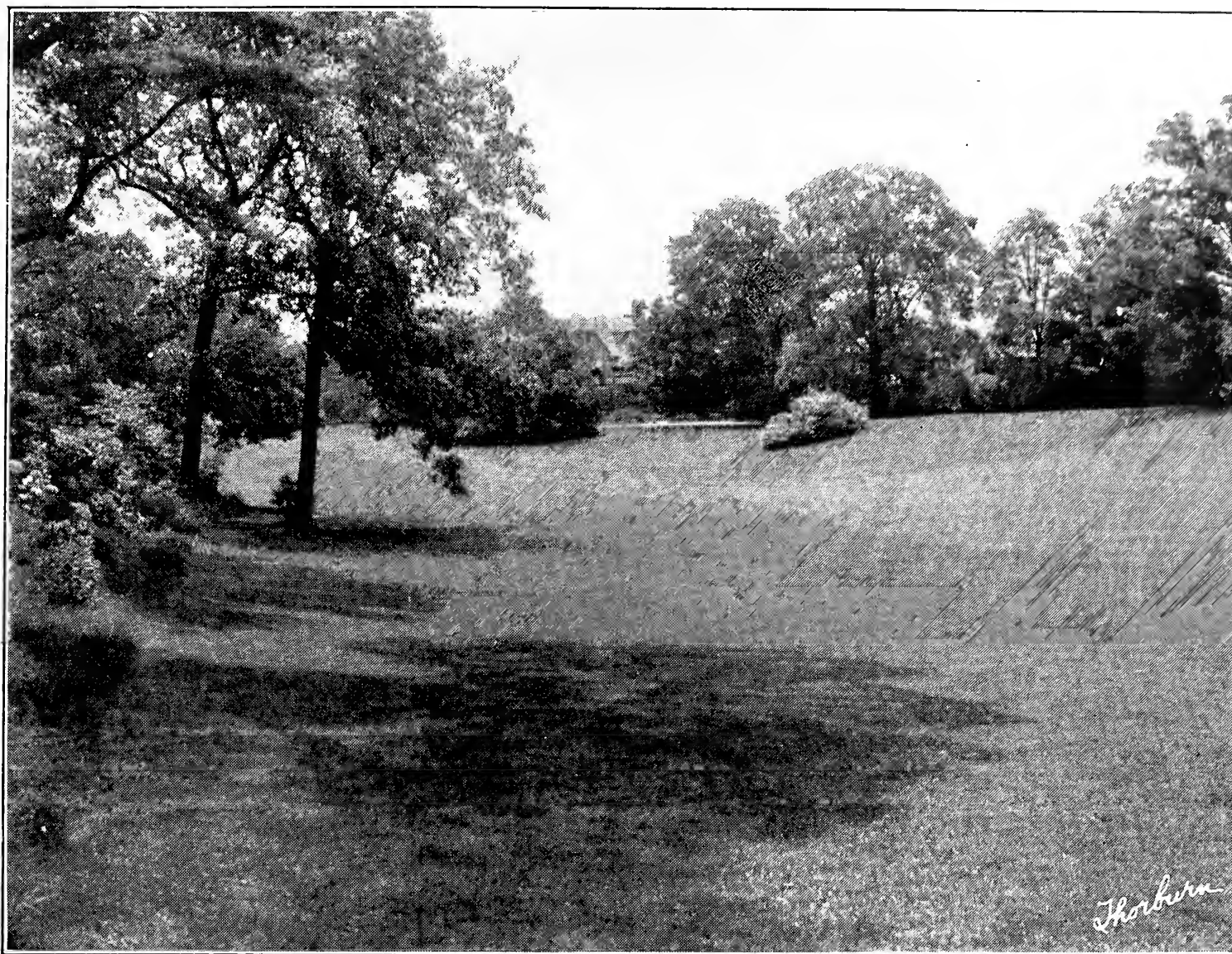
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Lawns like this can be produced by sowing Thorburn's Lawn Grass Seed

ABOUT LAWNS AND LAWN GRASS SEED

Formation of Lawns from Seed

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

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

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

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

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

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

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



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

LAWN GRASS SEED MIXTURES

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

THE THORBURN LAWN GRASS SEED

Many of the finest lawns in America were produced from this mixture. It is composed exclusively of permanent grasses that will make a finer and thicker turf the older they become, and yet give a rich greensward in three or four weeks from the time of sowing. Sow at the rate of 80 to 100 pounds to the acre. One pound of our Lawn Grass Seed will sow a plot of 400 to 500 square feet.

½lb.....	\$0 30	2 lbs.....	\$1 00	10 lbs.....	\$4 00
1 lb.....	55	5 lbs.....	2 25	25 lbs.....	9 00
				100 lbs.....	35 00

Thorburn's Lawn Grass Seed for the South

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

Lb.....	\$0 65	10 lbs.....	\$4 50
2 lbs.....	1 25	25 lbs.....	10 00
5 lbs.....	2 50	100 lbs.....	37 00

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 resow such places is very early in the spring, but seed may also be sown with good results in the fall, from the first of September to the first of October. Some **Lawn-Restoring Grass Seed** should also be sown before every summer rain on thin places.

Lb.....	\$0 65	10 lbs.....	\$4 50
2 lbs.....	1 25	25 lbs.....	11 00
5 lbs.....	2 50	100 lbs.....	40 00

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

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

Lb.....	\$0 65	10 lbs.....	\$4 50
2 lbs.....	1 25	25 lbs.....	11 00
5 lbs.....	2 50	100 lbs.....	40 00

Thorburn's Lawn Grass Mixture for the Seashore

A mixture of fine grasses peculiarly suited to seaside lawns.

Lb.....	\$0 60	10 lbs.....	\$4 00
2 lbs.....	1 10	25 lbs.....	9 50
5 lbs.....	2 25	100 lbs.....	36 00

Terrace Lawn Grass Seed

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

Lb.....	\$0 65	10 lbs.....	\$4 50
2 lbs.....	1 25	25 lbs.....	11 00
5 lbs.....	2 50	100 lbs.....	40 00



PERMANENT GRASS SEED FOR GOLF-LINKS, TENNIS-COURTS, POLO-GROUNDS, ETC.

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

Bags at cost and transportation extra. Prices subject to market fluctuations during the season.

Polo-Grounds Mixture

A mixture of fine-leaved and deep-rooting grasses forming a strong and lasting turf that will stand hard usage.

25 lbs.....\$11 00 | 100 lbs.....\$40 00

Tennis-Court Mixture

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

Lb.....\$0 65		10 lbs.....\$5 00
2 lbs.....1 20		25 lbs.....12 00
5 lbs.....2 75		100 lbs.....45 00

GOLF-LINKS

Fair-Green Mixture

For the grounds in general.

25 lbs.....\$11 00 | 100 lbs.....\$40 00

Putting-Green Mixture

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

5 lbs.....\$3 00		25 lbs.....\$13 00
10 lbs.....5 00		100 lbs.....50 00

For Teeing Grounds

5 lbs.....\$2 50		25 lbs.....\$11 00
10 lbs.....4 50		100 lbs.....40 00

Grass Mixture for Railroad Banks, Etc.

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

Lb.....\$0 70		10 lbs.....\$5 50
2 lbs.....1 30		25 lbs.....13 00
5 lbs.....3 00		100 lbs.....50 00

GRASS SEED MIXTURES FOR MEADOWS AND PASTURES

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

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

 Prices subject to market fluctuations during the season without notice

MEADOW MIXTURES FOR ONE ACRE

No. 1. On Good Land, neither Too Dry nor Too Wet	No. 2. On High and Dry Land	No. 3. On Wet Late Land
8 lbs. Fancy Red-Top.	8 lbs. Fancy Red-Top.	12 lbs. Fancy Red-Top.
½ " Perennial Sweet Vernal.	1 " Tall Meadow Oat Grass.	6 " Orchard Grass.
2 " Chewing's Fescue.	6 " Crested Dog's-tail.	2 " Meadow Fescue.
10 " Perennial Rye Grass.	2 " Orchard Grass.	1 " Kentucky Blue Grass.
17 " Timothy.	2 " Chewing's Fescue.	12 " Perennial Rye Grass.
2 " Red Clover.	13 " Timothy.	5 " Timothy.
½ " Alsike Clover.	2 " Red Clover.	1 " Red Clover.
	4 " Kentucky Blue Grass.	1 " Alsike Clover.
	2 " Alsike Clover.	
40 lbs. \$12.	40 lbs. \$16.	40 lbs. \$15.50.
<i>Sow 40 pounds to the acre</i>	<i>Sow 40 pounds to the acre</i>	<i>Sow 40 pounds to the acre</i>

PASTURE MIXTURES FOR ONE ACRE

No. 4. On Good Land, neither Too Dry nor Too Wet	No. 5. On Dry Land	No. 6. On Wet Land
7 lbs. Fancy Red-Top.	5 lbs. Fancy Red-Top.	10 lbs. Fancy Red-Top.
7 " Kentucky Blue Grass.	8 " Orchard Grass.	10 " Orchard Grass.
9 " Orchard Grass.	10 " Timothy.	1 " Red Clover.
12 " Perennial Rye Grass.	10 " Perennial Rye Grass.	12 " Perennial Rye Grass.
3 " Timothy.	2 " Red Clover.	2 " Timothy.
2 " Red Clover.	4 " Kentucky Blue Grass.	3 " Kentucky Blue Grass.
	1 " Chewing's Fescue.	2 " Alsike Clover.
40 lbs. \$14.50.	40 lbs. \$13.50.	40 lbs. \$15.
<i>Sow 40 pounds to the acre</i>	<i>Sow 40 pounds to the acre</i>	<i>Sow 40 pounds 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 climatic conditions.

GRASS SEEDS

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

Not less than one pound of any one sort sold

 Prices subject to market fluctuations during the season without notice

The weight per bushel, where given, is average actual weight

AGROSTIS TENUIS (*Rhode Island Bent Grass*). Resembles Red-Top (*A. palustris*, 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. For lawns 60 pounds of seed to the acre is recommended. (16 pounds to the bushel.) We find it is impossible to procure pure seed of the Rhode Island Bent this year. All samples show an admixture of other grasses.

AGROSTIS MARITIMA or 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 from 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 pounds to the acre should be used. As the true seed of Creeping Bent Grass comes from Germany only, it is impossible to secure any until conditions abroad are more settled.

AGROSTIS PALUSTRIS or AGROSTIS ALBA (*Red-Top; Herd's Grass*). Unhulled. 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. Sow 75 pounds to the acre.

Lb.....	\$0 28		25 lbs.....	\$6 25
10 lbs.....	2 60		100 lbs.....	24 00

RED-TOP GRASS, FANCY HEAVY. Extra cleaned. Absolutely clean and free from chaff. Sow about 50 pounds to the acre.

Lb.....	\$0 50		25 lbs.....	\$11 00
10 lbs.....	4 50		100 lbs.....	40 00

ALOPECURUS PRATENSIS (*Meadow Foxtail*). One of the best permanent pasture grasses for rich, moist soil. Its chief characteristics are its earliness and its faculty of standing high summer heats without burning. It prefers moist, low 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 pounds to the acre; if sown alone, 25 pounds to the acre.

Lb.....	\$0 70		25 lbs.....	\$16 00
10 lbs.....	6 75		100 lbs.....	60 00

ANTHOXANTHUM ODORATUM (*True Perennial Sweet Vernal Grass*). For a mixture with pas-

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

Lb.....	\$0 90		10 lbs.....	\$8 00
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AVENA ELATIOR (*Tall Meadow Oat Grass*). Most valuable for pasture on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle early and late. For hay it may be cut twice a year, and for green soiling it may be cut four or five times in favorable seasons. It is very hardy, and withstands extreme drought and heat and cold. It is very valuable for our southern states, where it is extensively cultivated for winter grazing and for hay. Sow 50 pounds to the acre.

Lb.....	\$0 70		25 lbs.....	\$16 00
10 lbs.....	6 75		100 lbs.....	60 00

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

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. 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 will 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 pounds to the acre.

Lb.....	\$0 70		25 lbs.....	\$16 00
10 lbs.....	6 75		100 lbs.....	60 00

BROMUS PRATENSIS (*Meadow Brome Grass*). A hardy perennial, 2 to 3½ feet high, much used in mixtures for meadows both for mowing and pasture. It is not recommended to be sown alone except in poor soil, on dry, stony hillsides, where better grass will not grow. It withstands extreme

GRASS SEEDS, continued

BROMUS PRATENSIS, continued

cold and drought, and, if cut before flowering, it makes good hay. If left to grow older, it becomes very tough. Sow 30 pounds to the acre. Crop uncertain.

CYNOSURUS CRISTATUS (*Crested Dog's-tail*).

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

Lb.....	\$0 65		25 lbs.....	\$14 00
10 lbs.....	6 00		100 lbs.....	55 00

DACTYLIS GLOMERATA (*Orchard Grass; Cock-foot*).

Extra re-cleaned selected stock. 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. Sow about 75 pounds to the acre.

Lb.....	\$0 60		25 lbs.....	\$13 00
10 lbs.....	5 50		100 lbs.....	50 00

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

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

Lb.....	\$0 90		25 lbs.....	\$20 50
10 lbs.....	8 50		100 lbs.....	80 00

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 grows 2 to 3 feet high. It prefers dry uplands and thrives in poor, shallow, gravelly soils, where other grasses would fail. It is very hardy, resisting extreme heat and cold. Though of dwarf growth, it grows thickly, yielding a large amount of nutritious herbage. In grass mixtures, for pastures on high and dry lands, it is especially valuable. Though a "bunch grass," it may be included in lawn mixtures as well as in fair-green mixtures on account of its fine foliage and dwarf dense growth. Sow 35 pounds to the acre.

Lb.....	\$0 50		25 lbs.....	\$11 00
10 lbs.....	4 50		100 lbs.....	40 00

FESTUCA PRATENSIS (*Meadow Fescue; English Blue Grass*). One of the grasses most used in permanent or temporary meadows for mowing or for pasture. It succeeds best in cold, moist, light soils, in well-drained meadows and in low valleys rich in organic matter. It should not be grown at all on warm, dry land. It does not reach its full development until the second or third years, 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 cut young. Sow 40 pounds to the acre. Crop uncertain.

FESTUCA (*Chewing's New Zealand Fescue*). A variety of Hard Fescue of dwarf habit, grown with great success on poor, light, as well as heavier soils, forming a good sward where no other grass would succeed; it stands drought well and is good in mixtures for permanent pasture, golf links, or lawns. Sow 15 pounds to the acre.

Lb.....	\$0 70		25 lbs.....	\$16 00
10 lbs.....	6 75		100 lbs.....	60 00

FESTUCA TENUIFOLIA (*Slender Fescue*). This is really a variety of *Festuca ovina*, with much finer leaves. It will grow on very dry and inferior soils, and its dwarf habit of growth and fineness of leaf render it not unsuitable for dry slopes on lawns and golf-links. It stands grazing well, is very hardy, and lasts long, and may therefore be recommended for permanent pasture on high and dry situations. Sow 30 pounds to the acre. Crop uncertain owing to the conditions abroad—will give price on application, if practicable.

FOXTAIL. See *Alopecurus pratensis*.

HUNGARIAN GRASS. See *Panicum germanicum*.

JOHNSON GRASS. See *Sorghum Halepense*, page 58.

LOLIUM PERENNE (*Pacey's Perennial Rye Grass*). Short-seeded. Although called a perennial, it seldom lasts more than three or four years. It is the most valuable grass in 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. Sow 60 pounds to the acre.

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

LOLIUM PERENNE (*English Rye Grass*). A carefully selected, dwarf-growing strain, suitable for lawns. Makes a fine green turf in three weeks.

Lb.....	\$0 28		25 lbs.....	\$5 50
10 lbs.....	2 50		100 lbs.....	20 00

LOLIUM ITALICUM (*Italian Rye Grass*). Though lasting two or three years, under very favorable circumstances, it is practically an annual. Like the Perennial Rye Grass, it is a remarkably rapid grower, and has, in addition, the advantage of standing extremes in temperature, remaining green throughout the winter, and retaining its freshness in the hottest summer months and during pro-

GRASS SEEDS, continued

LOLIUM ITALICUM, continued

longed 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. Sow 50 pounds to the acre.

Lb.....\$0 28 | 25 lbs.....\$5 50
10 lbs..... 2 50 | 100 lbs.....20 00

OAT GRASS. See *Avena elatior*.

ORCHARD GRASS. See *Dactylis glomerata*.

PANICUM GERMANICUM (Hungarian Grass).

One of the most valuable annual soiling plants. It grows on any ordinary soil; withstands drought well. As it is of very rapid growth, being ready for cutting within sixty days, it may be sown in this latitude as late as the middle of July for hay, or in the middle of August for green fodder. It should be cut just before blooming, when it makes a tender and nutritious hay. Sow 75 pounds to the acre.

Lb.....\$0 22 | 25 lbs.....\$4 50
10 lbs..... 2 00 | 100 lbs.....16 00

PAPSALUM 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 pounds to the acre, with 5 pounds of Hungarian Grass as a temporary protection. Price on application, if obtainable.

PHLEUM PRATENSE (Timothy).

A native of Europe, but long ago naturalized in America, where it ranks as by far the most important of hay grasses. On moist, loamy or clayey soil it produces a larger hay crop than any other grass. It is not as 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. If sown alone, at least 25 pounds to the acre should be used; with Red-Top Grass and Red Clover, 15 pounds of Timothy, 12 pounds of Red-Top Grass (Fancy) and 3 pounds of Red Clover; or with Red Clover only, 20 pounds of Timothy and 5 pounds of Clover. The seed weighs 45 pounds to the bushel. Several grades are always on the market, differing in purity and vitality, but the seed we offer is of the very highest quality and extra clean. It is always most economical to buy the highest grade, known as "Fancy."

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

POA COMPRESSA (Canada Blue Grass).

Highest grade. A very hardy perennial grass, with creeping root-stocks. It grows on the poorest and driest soils, sandy, gravelly or clayey, standing extremes of wetness or drought, and keeping green until the severe frosts of winter. It is especially valu-

POA COMPRESSA, continued

able for dairy pastures, cows feeding on it yielding the richest milk from which the finest butter is made. It is distinguished from the Kentucky Blue Grass by its flattened, wiry stems and by its decidedly bluer color. Sow 60 pounds to the acre.

Lb.....\$0 38 | 25 lbs.....\$8 00
10 lbs..... 3 50 | 100 lbs.....30 00

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 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. Sow 50 pounds to the acre.

Lb.....\$0 50 | 25 lbs.....\$11 00
10 lbs..... 4 50 | 100 lbs..... 40 00

POA TRIVIALIS (Rough-stalked Meadow Grass).

A spreading, thickly matted, stoloniferous-rooted species, forming a fine turf, and adapted for shaded portions of lawns. It thrives on rich, moist soil and in sheltered situations, but not on dry land. Valuable for forming bottom grass in mixtures for permanent pastures. Sow 20 pounds to the acre.

Lb.....\$0 95 | 25 lbs.....\$21 00
10 lbs..... 9 00 | 100 lbs..... 80 00

RHODES GRASS (Chloris gayana).

A recent acquisition from Africa, grows 4 to 6 feet high. The Florida Experiment Station reports on it as follows: "Excellent for hay as well as for grazing purposes; keeps green until cut down by severe frost and then starts growing again as soon as warm weather returns. Yields enormously and can be cut three to five times." Sow 5 pounds to the acre. Present price:

Lb.....\$1 00 | 100 lbs.....\$90 00

SUDAN GRASS.

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

Lb.....\$0 25 | 100 lbs.....\$20 00

RED-TOP. See *Agrostis alba*.

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

RHODE ISLAND BENT GRASS. See *Agrostis tenuis*.

TIMOTHY. See *Phleum pratense*.

KENTUCKY BLUE GRASS. See *Poa pratensis*.



Sudan Grass (see page 53)

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 without notice.

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. American seed. Market variable. Price on application.

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. Sow 15 pounds to the acre. Market variable. Price on application.

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. Market variable. Price on application.

BOKHARA CLOVER (*Melilotus alba*). Valuable sort for soiling and for ensilage and bees. Grows from 3 to 5 feet high; sown in rich soil it may be cut three times; lasts for years if cut before flowering. Sow 15 pounds to the acre.

Lb.....	\$0 50		25 lbs.....	\$11 50
10 lbs.....	4 75		100 lbs.....	45 00

RED CLOVER, MEDIUM (*Trifolium pratense*). One of the most valuable farm crops of the eastern states for pasture, hay, or for turning under for green manure. Sow in the spring, 15 pounds to the acre. Market price.

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 pounds to the acre.

Lb.....	\$0 40		25 lbs.....	\$9 00
10 lbs.....	3 75		100 lbs.....	35 00

KIDNEY VETCH, or SAND CLOVER (*Anthyllis vulneraria*). A deep-rooted, herbaceous hardy perennial, 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 pounds to the acre. Price on application.

CRIMSON, or SCARLET CLOVER (*Trifolium incarnatum*). Erect annual, 1 to 2 feet high, with bright scarlet flowers. A native of southern Europe; largely grown in our southern states for improving the soil by turning under. Will not endure severe frost, and cannot be depended upon to stand the winter north of New Jersey. It is a valuable crop for pasturage or green manure. For hay, cut when in full bloom. Cattle are very fond of it. Sow 20 pounds to the acre.

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

WHITE CLOVER (*Trifolium repens*). White Clover is of dwarf habit, spreads rapidly and is very hardy. It is valuable in permanent pastures, being sweet and nutritious and forms a close herbage which stays green throughout the year. Sow in spring, 8 to 10 pounds to the acre. At the present time White Clover is extremely scarce and high—price on application.

N. B. All prices are subject to market fluctuations without notice

CEREALS

Bags charged at cost

PRICES ALL SUBJECT TO CHANGE WITHOUT NOTICE. PRICES ARE F. O. B. NEW YORK

FIELD CORN

(56 pounds to the bushel). All grown especially for seed

FLINT VARIETIES

	Qt.	Pk.	Bus.
Canada Early Yellow. Very early; yellow flint; 8-rowed.....	\$0 25	\$1 50	\$5 50
King Philip. Early; reddish yellow flint; 8-rowed.....	25	1 50	5 50
Longfellow (Yellow Flint). Small cob and large grain; popular 8-rowed variety.....	25	1 50	5 50
Thoroughbred (White Flint). (See, also, Ensilage varieties.).....	25	1 75	6 00

DENT VARIETIES

Champion White Pearl. Large grain; 14 to 18 rows; ripens in about 95 days.....	25	1 50	5 50
Iowa Gold Mine. Dent; deep grain; ripens in about 90 days.....	25	1 50	5 00
Iowa Silver Mine. Large grain; dent; white cob, ripens in about 100 days.....	25	1 50	5 50
Leaming Early. Large; deep grains; dull yellow; early and productive.....	25	1 50	5 00

FODDER AND ENSILAGE VARIETIES

Cuban Giant Ensilage. Very prolific.....	20	1 25	4 50
Red-Cob Ensilage. Abundant herbage; tall growth; fine.....	25	1 50	5 50
THOROUGHbred WHITE FLINT. Spreading habit; broad blade and small stalk; valuable for fodder, ensilage, and grain. Leave only one kernel to grow in a hill....	25	1 75	6 00
Virginia Horse-Tooth. For fodder and ensilage.....	25	1 50	5 00

POP-CORN (Shelled)

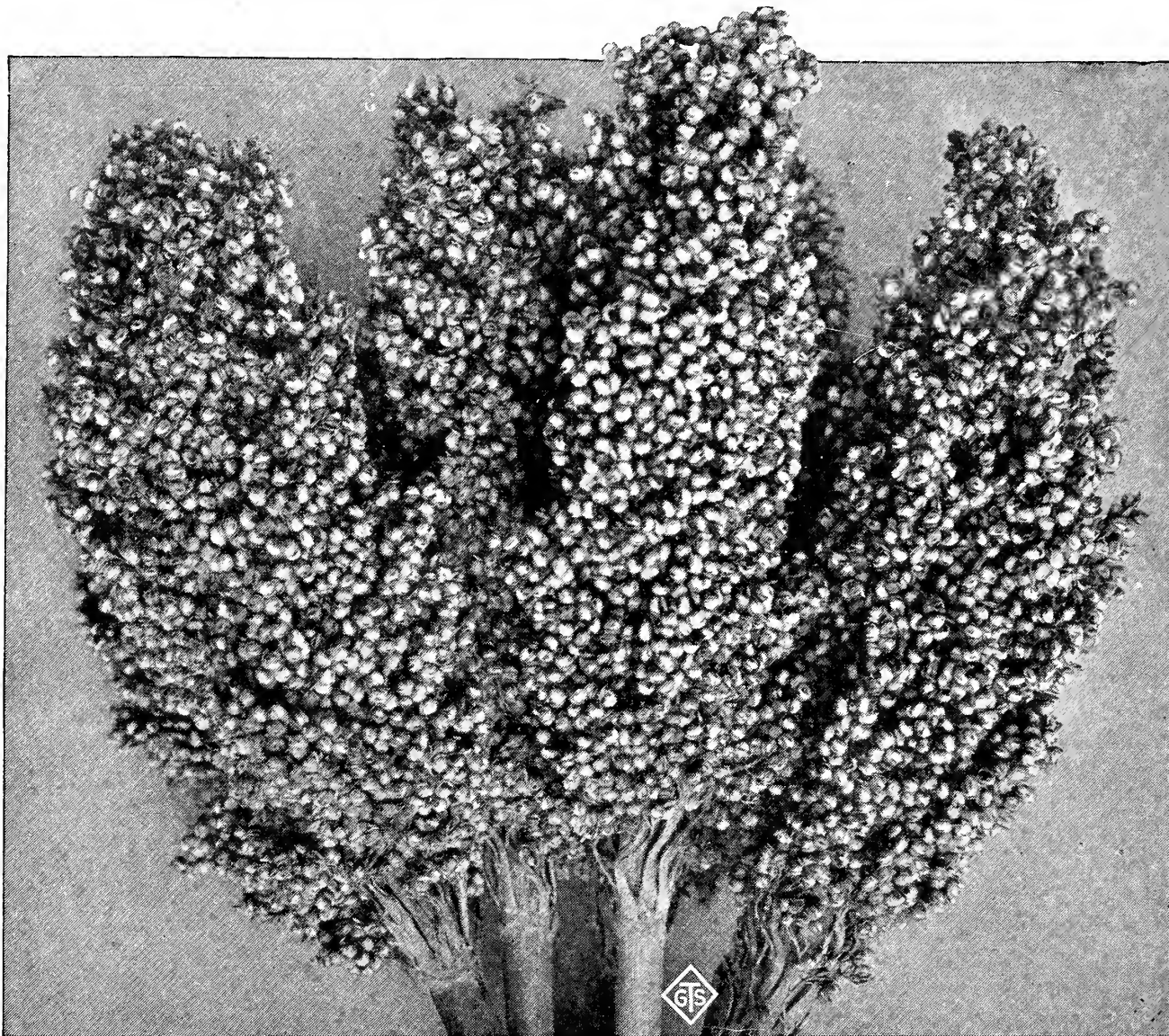
(56 pounds to the bushel)

	Qt.	½pk.	Pk.
Golden Queen	\$0 40	\$1 50	\$2 50
Red Beauty	45	1 75	3 00
Silver Lace	35	1 25	2 25
White Pearl	35	1 25	2 25
White Rice	35	1 25	2 25

MISCELLANEOUS CEREALS

ALL SUBJECT TO CHANGE IN PRICE WITHOUT NOTICE

BARLEY. (48 lbs. to the bus.)	Bus.		
Bearded. 2 bushels to the acre..	\$3 00		
Champion. Beardless.....	3 00		
BUCKWHEAT. (48 lbs. to the bus.)			
2 bushels to the acre.			
Japan. Productive; large grains.			
Price uncertain.....About	3 50		
MILLET. (50 lbs. to the bus.)			
Golden. Extra-large seed-heads. Lb. 100 lbs.			
1½ bus. to the acre.....	\$0 20	\$15 00	
Japanese Barnyard (<i>Panicum Crus-galli</i>). 30 to 40 lbs. to the acre.....	15	10 00	
Pearl. Southern fodder-plant....	35	30 00	
Siberian	10	7 50	
White French. White grain.....	35	30 00	
White Wonder. Broad, heavy foliage; very large heads, producing			
MILLET, White Wonder, continued			
immense amount of excellent fodder. Earlier than Golden Millet..	\$0 15	\$10 00	
OATS. (32 lbs. to the bus.) 2 to 3 bus. to the acre.		Qt.	Bus.
Canada Cluster	\$0 15	\$2 25	
Swedish Select	15	2 75	
Tartar King	15	2 25	
RYE. (56 lbs. to the bus.) 1½ to 2 bus. to the acre.			
Mammoth Winter. Very fine strain, grows 6 to 7 feet high, giving 25 per cent more straw than any other variety.....	20	3 25	
WHEAT, WINTER. (60 lbs. to the bus.) 1½ bus. to the acre.			
Red Wave. Bald; red grain.....			5 00
Klondyke. White grain; bald....			5 00



White Kaffir Corn (see page 58)

Forage, Economical and Miscellaneous Seeds

Except where noted, these seeds are not sold in packets. From 15 cts. to 25 cts. worth is the smallest quantity put up

ALL SUBJECT TO CHANGE IN PRICE

AUSTRALIAN SALT BUSH (*Atriplex semibacata*). Thrives in soils on which nothing else will grow, and it is highly recommended for alkali soils and all regions subject to periodical drought. It is very nutritious, and good for all kinds of 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. Lb. 70 cts.

BEANS (60 lbs. to the bushel)—

Velvet Bean (*Dolichos multiflorus*). Used in the South as a forage plant, and as a fertilizer plant for turning under. Stock readily eat the vines and leaves, and the Beans, when ground, with or without the pod, are used in place of oats or corn, or mixed with them. Plant in rows 4 feet apart and 1 foot in the row, 2 or 3 Beans in a place, as soon as danger of frost is past. The vines are strong and vigorous in growth, rapidly covering the ground, and bearing immense quantities of Beans. Qt. 25 cts., bus. \$6.

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

BEANS, Soybean, continued

Hollybrook Early. A vigorous, quick-growing variety. Pk. \$2.50, bus. \$8.50.

Mammoth Yellow. The largest growing Soybean, valuable for green fodder and for improving the soil. Pk. \$2.25, bus. \$8.

BEGGAR-WEED (Florida or Giant Beggar-Weed; *Desmodium tortuosum*). An erect, leguminous annual, growing from 3 to 8 feet high, with abundant foliage; valuable as forage or for soil renovation in subtropical regions; it also makes hay of a fine quality. It should be sown at the rate of 10 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. Lb. 60 cts., 100 lbs. \$50.

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

Improved Dwarf. Lb. 12 cts., 100 lbs. \$10.

Long-Brush Evergreen. Lb. 12 cts., 100 lbs. \$10.

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

CAPER TREE (*Capparis inermis*). Pkt. 25 cts., oz. \$1.

FORAGE, ECONOMICAL AND MISCELLANEOUS SEEDS, continued

CASTOR BEAN (*Ricinus*). The plant from which castor-oil is made. Lb. 30 cts., 100 lbs. \$25.

COTTON (*Gossypium*), **Sea Island**. Lb. 25 cts., 100 lbs. \$20.

Upland Big Boll, Trice Variety. Lb. 25 cts., 100 lbs. \$20.

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

Black. Standard variety; early and very prolific. Price variable. Present quotation, pk. \$2.50, bus. \$8.50.

Clay. A little later than the Black; prolific in both Peas and growth of vine. Price variable. Present quotation, pk. \$2.50, bus. \$8.50.

New Era. Upright-growing, quick to mature and very prolific of peas. Price variable. Present quotation, pk. \$2.50, bus. \$8.50.

Whippoorwill. A favorite sort; makes a good growth of vine and very good for improving the land. Price variable. Present quotation, pk. \$2.50, bus. \$8.50.

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 there from Russia, where it is considered a valuable cereal on account of its hardiness and drought-resisting qualities. Lb. 20 cts., 100 lbs. \$12.

ESPARSETTE. See *Onobrychis sativa*.

FETERITA. A new forage plant, similar to Kaffir Corn, but much earlier, and is a great drought resister. Sow 8 to 10 pounds to the acre in drills. Produces large crops of both grain and forage. Lb. 15 cts., 100 lbs. \$12.

FURZE (*Ulex europæus*). 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. Sow 25 pounds to the acre. Oz. 15 cts., lb. \$1.50.

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 also be sown broadcast, 6 or 7 pounds to the acre. Oz. 15 cts., lb. 75 cts.

KAFFIR CORN. See *Sorghum*, page 58.

LENTILS. Extra-large yellow. The variety commonly cultivated. Sow in spring as soon as ground can be worked, on light soil in drills. Market price on application.

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

villosus, or major (Greater Bird's-foot Trefoil). Lb. \$1.

LUPINE, White (Large Flat Seed). One of the best plants known for green manure, as it gathers large quantities of nitrogen from the air. It may be sown from April to July and plowed under when in flower. The seed, when burned, is excellent manure for orange and olive trees. Lb. 35 cts., 100 lbs. \$30.

MILLETS. See *Miscellaneous Cereals*, page 55.

ONOBRYCHIS sativa (French, *Sainfoin*; *Esparsette*). A perennial leguminous plant, belonging to the same family as clover and lucerne. It is a valuable plant for growing on poor land and barren hillsides. When once well established, it lasts for many years. If to be used for hay, cut just before the flowering period. Sow in spring, covering the seeds quite deeply, at the rate of 80 to 100 pounds to the acre. Lb. 45 cts., 100 lbs. \$40.

OSAGE ORANGE (*Maclura aurantiaca*). Useful for hedges. Lb. \$2.

PEANUTS, Spanish. Used in the South as a hay and grain ration; the tops also make good forage, either green or cured. Nuts are smaller but better flavored than other sorts. Price variable. Present quotation, lb. 35 cts., 100 lbs. \$30.

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. Lb. 35 cts., 100 lbs. \$30.

PEAS, Canada Field. Valuable for northern climates, for cattle-feeding, especially for milch cows. This pea also makes fine ensilage and for plowing under as a green manure has no equal. It is sown broadcast in the spring and harrowed in 2½ to 3 bushels to the acre. If sown with oats, use about 1½ bushels to the acre. Price variable. Present quotation, qt. 35 cts., bus. \$9.

PENICILLARIA spicata. See *Pearl Millet*.

POPPY, Opium (*Papaver somniferum*). The seed furnishes an agreeable sweet oil, used for the table, also for painting and for illuminating. May be sown in spring, either broadcast or in drills, covering thinly. Also cultivated for opium. Oz. 15 cts.

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. Price variable. Present quotation, lb. 25 cts., 100 lbs. \$20.

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

RICE SEED. For sowing. Best Carolina. Lb. 25 cts., 100 lbs. \$20.

SAINFOIN. See *Onobrychis*, above.

SALT BUSH. See *Australian Salt Bush*, page 56.

SORGHUM. If sown in drills 25 pounds are required to the acre; for dry fodder, 2 bushels to the acre.

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

Brown Dhoura. Lb. 15 cts., 100 lbs. \$12.

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. Price on application.

Holcus saccharatus (Sugar Millet). Rich in saccharine matter, and a large amount of nutritive fodder can be obtained from it. Lb. 25c., 100 lbs. \$20.

Jerusalem Corn (White Dhoura). Lb. 20 cts., 100 lbs. \$18.

Red Kaffir Corn, or Sorghum. Non-saccharine. The plant is low, stalky, perfectly erect. The whole stalk, as well as the blades, cures into excellent fodder, and in all stages it is available for green feed. Lb. 15 cts., 100 lbs. \$10.

White Kaffir Corn. Lb. 15 cts., 100 lbs. \$10.

Early Orange Sugar-Cane. Ripens about 10 days after Early Amber, and is said to produce a larger crop. Lb. 15 cts., 100 lbs. \$10.

Shallu. A non-saccharine Sorghum from India, also known as Egyptian wheat. Requires more room to develop than ordinary Sorghum, and consequently needs less seed to sow an acre. Lb. 25 cts., 100 lbs. \$20.

SORGHUM, continued

White Milo Maize. Lb. 15 cts., 100 lbs. \$10.

White Dhoura. See Jerusalem Corn.

Yellow Branching (Yellow Milo Maize). Non-saccharine; useful for the large amount of foliage, green feed, or cured fodder that it furnishes, and for its grain. Lb. 15 cts., 100 lbs. \$10.

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. Sow 15 pounds to the acre. Lb. 25 cts., 100 lbs. \$20.

Giant Spurry. Lb. 25 cts., 100 lbs. \$20.

SUNFLOWER, Large Russian. Lb. 25 cts.

TEOSINTE. See *Reana luxurians*, page 57.

TOBACCO SEED. See page 44.

ULEX europæus. See Furze, page 57.

VELVET BEAN. See page 56.

VETCHES, Spring Tares (*Vicia sativa*). Sow 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, lb. 20 cts., 100 lbs. \$15.

Sand, Winter or Hairy Vetch (*Vicia villosa*). Thrives on poor, arid, sandy soils. It may be sown either in fall or 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 seed. Perfectly hardy. Sow from 30 to 50 pounds to the acre. Price on application.

Bacteria Preparations Mulford Cultures and Farmogerm

PREPARED FOR THE FOLLOWING CROPS

White Clover

Red Clover

Crimson Clover

Alsike Clover

Alfalfa Clover

Garden Beans

Cowpeas

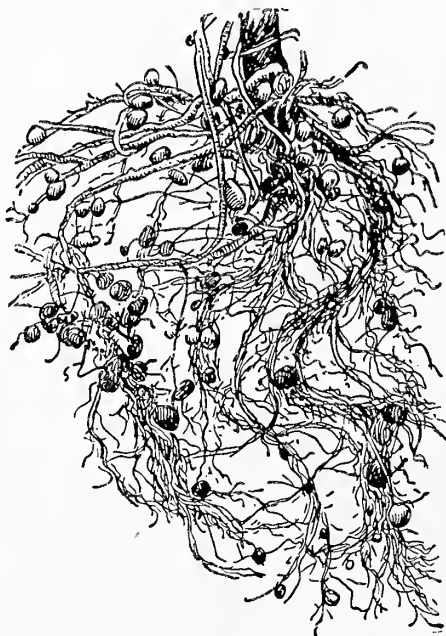
Vetches

Canada Field Peas

Garden Peas

Sweet Peas

Soybeans



SOY BEAN

Mulford Cultures

For inoculating all legume crops with nitrogen-fixing bacteria to increase the crop and improve the soil.

5-acre size \$5, 1-acre size \$1.50, ¼-acre size 50 cts., small size 25 cts. The small size only supplied in 4 varieties for Garden Peas, Garden Beans, Lima Beans, and Sweet Peas. Always specify on your order what crop you want to inoculate, a different variety being used for each legume.

Farmogerm

The Original and Genuine Seed Inoculant. A preparation of high-bred, nitrogen-gathering bacteria in sealed bottles, ready to use, with water added, according to directions.

Price per acre bottle, \$2; 5-acre bottle \$8. When ordering state for what crop Farmogerm is wanted.

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

TREE AND SHRUB SEEDS

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

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

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. On account of labor trouble it has been almost impossible to collect Tree Seeds the past season. We are offering only the varieties we expect to receive.

EVERGREEN TREE AND SHRUB SEEDS

We do not sell Tree or Shrub Seeds in quantities of less than one ounce of any one variety, except those quoted at 25 cents per packet

	Oz.	Lb.
Abies amabilis (Silver Fir).....	\$0 80	\$8 00
canadensis (Hemlock Spruce).....	Crop failed	
concolor (Calif. White Silver Fir)....	40	4 00
grandis (Great Silver Fir of Oregon).		
pkt. 25 cts...	50	5 00
magnifica (Superb Silver Fir).....	30	3 00
Martensiana (Calif. Hemlock).....		
pkt. 25 cts... I	50	
nobilis (Noble Fir).....	80	8 00
Arborvitæ. See <i>Thuja</i> .		
Arbutus Menziesii (Madrona Tree)....	30	3 00
Arctostaphylos glauca (Great-berried Manzanita).....	20	2 00
Buxus sempervirens (Evergreen Box)..	25	2 50
Cedrus Libani (Cedar of Lebanon)....	30	3 00
Cupressus		
macrocarpa (Monterey Cypress).....	45	4 50
Fir Tree. See <i>Abies</i> and <i>Picea</i> .		
Juniperus		
virginiana (Red Cedar).....	20	2 00
Libocedrus decurrens (California White Cedar).....	pkt. 25 cts... 65	6 50
Picea Douglasii (Douglas Spruce).....	60	6 00
Engelmannii.....	80	8 00
Menziesii (Menzie's Fir).....	75	7 50
ajanensis. From Japan.....	75	7 50
pungens (Colorado Blue Spruce).....	50	5 00
rubra.....	75	7 50
Pinus		
australis or palustris (Southern Pine).	30	3 00
Banksiana (Jack Pine).....	60	6 00
contorta (Scrub Pine).....	60	6 00
densiflora (Japan Pine).....	25	2 50



Abies concolor



Pinus Strobus

EVERGREEN TREE AND SHRUB SEEDS, continued

	Oz.	Lb.
Pinus, continued		
edulis (American Nut Pine).....	\$0 40	\$4 00
heterophylla or caribæa (Slash Pine). pkt. 25 cts. ...	70	7 00
Jeffreyi (Jeffrey's Pine).....	45	4 50
koraiensis. From Japan.....	25	2 50
Lambertiana (Sugar Pine).....	30	3 00
Laricio (Corsican Pine).....	20	2 00
maritima (Seaside Pine).....	15	1 50
monticola (Mountain White Pine)...	80	8 00
muricata (Bishop's Pine).....	60	6 00
Pinea (Stone Pine).....	10	1 00
ponderosa (Heavy Pine).....	40	4 00
rigida (Northern Pitch Pine).....	50	5 00
Sabiniana (Sabine's Nut Pine).....	25	2 50
Strobus (White Pine).....	40	4 00
Torreyana (Torrey's Pine).....	45	4 50
Sequoia gigantea	I 25	12 00
sempervirens (California Redwood)...	75	7 50
Spruce Tree. See <i>Abies</i> and <i>Picea</i> .		
Thuja		
gigantea (Giant Oregon Arborvitæ)...	60	6 00
occidentalis (American Arborvitæ)...	45	4 50
Tsuga canadensis		Crop failed
Yucca filamentosa (Adam's Needle)...	40	4 00
gloriosa.....	75	7 50

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 25 cents per packet

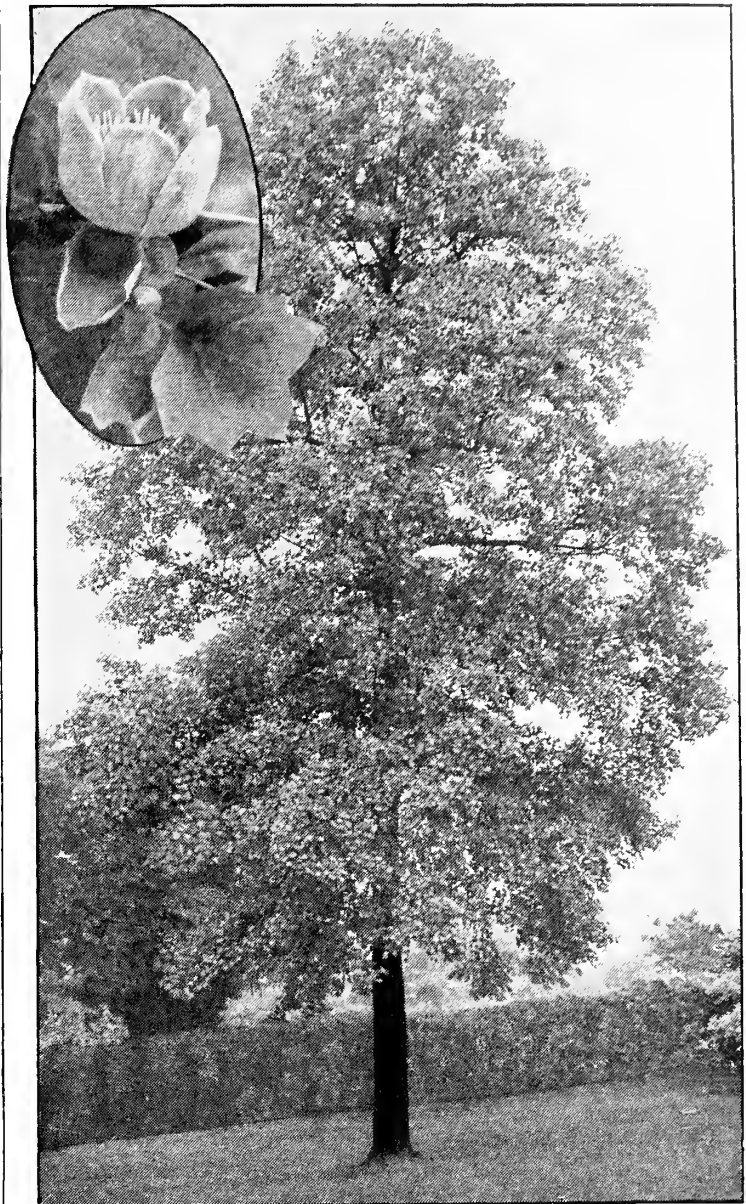
	Oz.	Lb.
Acer saccharum (Sugar Maple).....	\$0 30	\$3 00
Ampelopsis Veitchii (Boston Ivy).....	50	5 00
Aralia cordata (Udo Salad).....	30	3 00
spinosa (Virginia Angelica Tree).....	30	3 00
Aristolochia Siphon (Dutchman's Pipe). 65		6 50
Asimina triloba (Paw-paw).....	20	1 75
Berberis canadensis.....	25	2 50
Thunbergii. Fine for hedges.....	25	2 50
vulgaris (Common).....	15	1 50
Calycanthus floridus (Common Carolina Allspice).....	15	75
Camellia japonica. From Japan.....	30	3 00
Carpinus americana.....	15	1 50
Carya alba (Shellbark Hickory).....		20
amara (Bitternut).....		20
sulcata (Big Shellbark Hickory).....		20
tomentosa.....		20
Castanea		
americana (American Chestnut).....		30
Catalpa speciosa. <i>True Hardy Catalpa</i> ..	15	1 50
Celastrus scandens (Climbing Bittersweet).....	20	2 00
paniculatus.....	20	2 00
Chionanthus virginica (Virginia Fringe Tree).....	25	2 50
Cornus florida (Flowering Dogwood)...	15	60
Crataegus Crus-galli (Cockspur Thorn). 15		75
Dogwood. See <i>Cornus</i> .		
Eucalyptus		
amygdalina (Peppermint Gum Tree)..	45	4 50
globulus (Tasmania Blue Gum).....		
pkt. 25 cts. ...	I 00	10 00



Catalpa speciosa

DECIDUOUS TREE AND SHRUB SEEDS, continued

	Oz.	Lb.
Eucalyptus , continued		
leucoxyton (Australian Iron Bush) .	\$0 75	\$7 50
obliqua (Stringy-bark Tree)	45	4 50
pauciflora (White Gum)	80	8 00
robusta (Brown Gum) .pkt. 25 cts.	I 00	10 00
rostrata (Red Gum) . . .pkt. 25 cts.	I 00	10 00
Stuartiana (Apple-scented Gum Tree) .	80	8 00
viminalis (Blue Gum)	80	8 00
Exochorda grandiflora	50	5 00
Fagus americana (American Beech)	15	1 50
Genista tinctoria (Dyers' Broom)	40	4 00
Halesia tetraptera (Silver Bell)	15	1 50
Holly . See <i>Ilex</i> .		
Hibiscus syriacus (Rose of Sharon)	15	1 50
Ilex opaca (American Holly)	15	1 50
Juglans cordiformis. From Japan	10	50
nigra (Black Walnut)		15
Kalmia latifolia	40	4 00
Larix americana	50	5 00
leptolepis (Japanese Larch)	40	4 00
Ligustrum Ibot	25	2 75
Liriodendron Tulipifera	10	1 00
Maclura aurantiaca (Osage Orange)	20	2 00
Magnolia acuminata (Cucumber Tree) .	25	2 50
glauc . (Sweet Bay)	30	3 00
grandiflora (Large-flowered Magnolia) .	25	2 50
tripetala (Umbrella Tree)	30	3 00
Myrica carolinensis	15	1 50
Nyssa sylvatica (Sour or Black Gum) . .	15	1 00
multiflora (Sour Gum)	15	1 00
Osage Orange . See <i>Maclura</i> .		
Prunus americana (Wild Plum)	15	1 50
serotina (Wild Black Cherry)	15	1 00
virginiana	15	1 50
Rhamnus carolina (Indian Cherry)	15	1 50
Rosa carolina (Swamp Rose)	15	1 50
multiflora nana	30	3 00
Sambucus canadensis (American Elder) .	15	1 00
Sassafras officinale (Sassafras Tree)	15	1 50
Sorbus americana (Mountain Ash)	30	3 00
Taxodium		
distichum (Deciduous Cypress)	15	1 50



Liriodendron Tulipifera

	Oz.	Lb.
Ulex europæus (Furze, Gorse or Whin) .	\$0 15	\$1 50
Viburnum acerifolium (Dockmackie) . . .	15	1 50
Lentago	15	1 50
Opulus (Snowball)	30	3 00
prunifolium (Black Haw)	15	1 50
Walnut . See <i>Juglans</i> .		
Wisteria sinensis (Chinese Wistaria) . . .	40	4 00
sinensis alba (White Chinese Wistaria) .	60	6 00

FRUIT SEEDS

	Oz.	Lb.
Apricot Pits	\$0 50	
Cherry Pits , Black Mazzard	80	
Mahaleb	I 00	
Domestic	50	
Currant , Red Dutch	\$0 20	2 00
White Dutch	25	2 50
Gooseberry		
Green and Yellowpkt. 50 cts.	2 00	
Redpkt. 50 cts.	2 00	
Peach Pits , Natural . .qt. 25c., bus. \$4.50		

	Oz.	Lb.
Plum Pits , Myrobolan		\$0 60
St. Julien		1 00
Quince Seed	\$0 30	3 00
Raspberry , Red	25	2 50
Strawberry , Mixed	I 00	
Red Alpinepkt. 50 cts.	2 50	
Vitis æstivalis (Summer Grape)	25	2 25
cordifolia (Frost Grape)	25	2 25
Labrusca (Northern Fox Grape)	25	2 25
riparia	25	2 25

SEEDS OF HEDGE PLANTS

For prices see under head of Tree Seeds

Barberry	Berberis Thunbergii	Osage Orange	Maclura aurantiaca
Furze or Gorse	Ulex europæus	Sheepberry (Black Haw)	Viburnum prunifolium



Branching Aster



Centaurea Cyanus



Dianthus (Pinks)



Eschscholtzia

CHOICE COLLECTIONS OF FLOWER SEEDS

FREE BY MAIL

Collection of 12 Varieties of Dwarf Annuals 93000

1 packet each, as follows, for 50 cts.

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

Collection of 12 Varieties of Tall Annuals 93020

1 packet each, as follows, for 50 cts.

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

Collection of 12 Varieties of Dwarf Perennials 93080

1 packet each, as follows, for \$1

Alyssum saxatile compactum	Centaurea candidissima	Pinks, Mixed
Arabis alpina	Daisy, Double, Mixed	Polyanthus, Mixed
Campanula carpatica, Blue	Gypsophila	Primrose, Yellow
Candytuft sempervirens	Lychnis Haageana Hybrids	Snapdragon, Dwarf, Mixed

Collection of 12 Varieties of Tall Perennials 93120

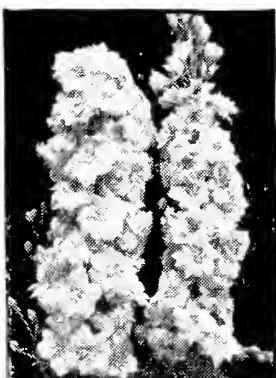
1 packet each, as follows, for 85 cts.

Aquilegia, Mixed	Gaillardia	Poppy, Oriental
Coreopsis	Galega	Scabiosa caucasica
Delphinium, Mixed	Hollyhock	Sweet William
Foxglove	Lupinus polyphyllus	Valeriana

Collection of 12 Varieties of Greenhouse Seeds 93180

1 packet each, as follows, for \$2

Asparagus plumosus nanus	Coleus, Fine Hybrids	Primula obconica grandiflora
Begonias, Single, Tuberous-	Cyclamen persicum giganteum,	hybrida, Mixed
Cineraria hybrida, Mixed rooted	Mixed	Primula obconica malacoides
Calceolaria hybrida. Large-	Heliotrope	Smilax
flowered, self-colored	Musk Plant	Stevia serrata



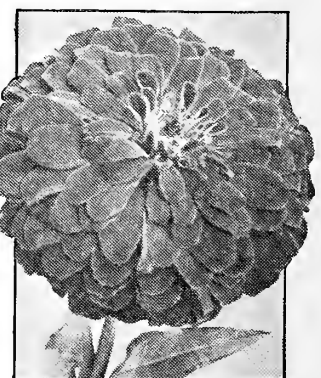
Larkspur



Marigold



Nasturtium



Zinnia

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

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

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

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

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

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

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

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

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

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

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



King Asters (see page 65)

ASTER

One of the very best Annuals for cut-flowers

The Aster has long been one of our most popular garden flowers, not only because of its beautiful blooms but because it is one of our hardiest annuals and will thrive in any soil, from a light sand to a heavy clay. It produces a profusion of bloom, and by a careful selection of early- and late-flowering varieties, its blooming season may be extended over several months. As a cut-flower it rivals the chrysanthemum in lasting properties and lovely coloring.

When planting Aster seeds, do not cover with more than $\frac{1}{2}$ inch of soil. If the soil is too poor, add some well-rotted stable-manure, or if that is not procurable, pulverized sheep-manure is an excellent substitute. All manures must be thoroughly mixed with the soil in order to be most beneficial, and they should be well-rotted and not applied too liberally, or there is danger of their inducing Aster diseases. Small quantities of slaked lime or fresh wood-ashes, stirred into the surface of the Aster-bed, form good tonics for the plants and keep diseases and insects from the roots.

Seed sown in the open ground in May will produce plants that will bloom finely in September and October. When the plants have three or four leaves, transplant, 12 to 18 inches apart each way, into well-prepared beds. Asters do not object to partial shade, and in such places are less subject to attacks of insects. After transplanting, stir the soil as often and as deeply as possible. Never allow a crust to form, as it prevents the air from entering the soil and allows the moisture to escape rapidly. If watering is necessary, give the plants a good soaking—do not merely sprinkle them. If a mulch of lawn clippings or other material is placed on the beds when the flower-buds have formed, it will help to retain the moisture in the soil and prevent the opening flowers from being soiled by a storm.

For July and August flowers, sow in March or April in the coldframe, spent hotbed, or in pots and boxes indoors. Water thoroughly when necessary, and allow surface to become dry before watering again. Transplant as directed above. Aster Seeds run from 3,000 to 3,500 in $\frac{1}{4}$ ounce.

BRANCHING, Semple's. Forms broad bushes, with large, long-petaled flowers, graceful and feathery in effect; excellent for cut-flowers. 2 $\frac{1}{2}$ ft. Pkt.

Crimson	50145	10
Lavender	50150	10
Pink	50155	10
Purple	50158	10
Rose	50160	10
White	50165	10
Mixed $\frac{1}{4}$ oz. 50c., oz. \$1.75	50170	10
Collection of six colors.....	50180	40

COMET, Giant. Petals wavily reflexed, curled and twisted; flowers of extraordinary size and beauty. 2 ft. Pkt.

Lavender	50272	15
Light Blue	50275	15
Crimson	50280	15
Purple	50282	15
Rose	50285	15
White	50295	15
Mixed $\frac{1}{4}$ oz. 60c., oz. \$2	50300	10
Collection of six colors.....	50310	60

ASTERS, continued

CREGO, Giant. Superb class with very large flowers and long petals. Comet-flowered; branching habit. 2 ft.

	Pkt.
Crimson	50415 15
Dark Blue	50420 15
Lavender	50425 15
Rose	50430 15
Shell-Pink	50435 15
White	50440 15
Mixed ¼oz. 70c., oz. \$2.25..	50445 10
Collection of six colors.....	50450 60

KING. Produces showy flowers on long stems. The blooms are very large, with long, narrow petals; strong grower.

	Pkt.
Crimson	50640 15
Lavender	50642 15
Pink	50644 15
Rose	50646 15
Violet	50648 15
White	50650 15
Mixed ¼oz. 75c., oz. \$2.50..	50652 10
Collection of six colors.....	50660 60

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

	Pkt.
Crimson	50665 15
Dark Blue	50670 15
Rose	50675 15
White	50680 15
Mixed ¼oz. \$1, oz. \$3.50..	50685 10
Collection of four colors.....	50695 40

QUEEN OF THE MARKET. The best very early Aster, growing not over 1 foot high; excellent for bouquets.

	Pkt.
Purple	50726 15
Lavender	50728 15
Light Blue	50730 15
Crimson	50735 15
Pink	50738 15
Flesh-Color	50742 15
Scarlet	50745 15
White	50755 15
Mixed ¼oz. 60c., oz. \$2..	50760 10
Collection of eight colors.....	50770 80



Branching Asters (see page 64)

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

	Pkt.
Light Blue	50845 15
Crimson	50850 15
Rose	50855 15
Scarlet	50860 15
Snow-White	50865 15
Mixed ¼oz. 75c., oz. \$2.50..	50870 10
Collection of five colors.....	50875 50

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

	Pkt.
Carmine-Rose	50977 15
Dark Blue	50980 15
Light Blue	50985 15
Peach Blossom	50990 15
Rose	50995 15
Dark Scarlet	51000 15
White	51005 15
Mixed ¼oz. 75c., oz. \$2.50..	51010 10
Collection of six colors.....	51020 60

IMPROVED AMERICAN VICTORIA (Daybreak Type).

	Pkt.
Azurea ¼oz. 80c..	51030 15
Daybreak . Shell-pink.... ¼oz. 80c..	51060 15
Pale Lavender ¼oz. 80c..	51070 15
Purity . Snow-white..... ¼oz. 80c..	51110 15
Rose-Pink ¼oz. 80c..	51120 15

MIXED, QUILLED. oz. 35c., lb. \$3.50.. 51130 05

SINGLE ANNUAL MIXED. oz. 25c.. 51140 05

PERENNIAL MIXED. Extra-fine, from a splendid collection; sown early in spring, they will flower the same year..... 51150 10



Giant Crego Aster

SWEET PEAS

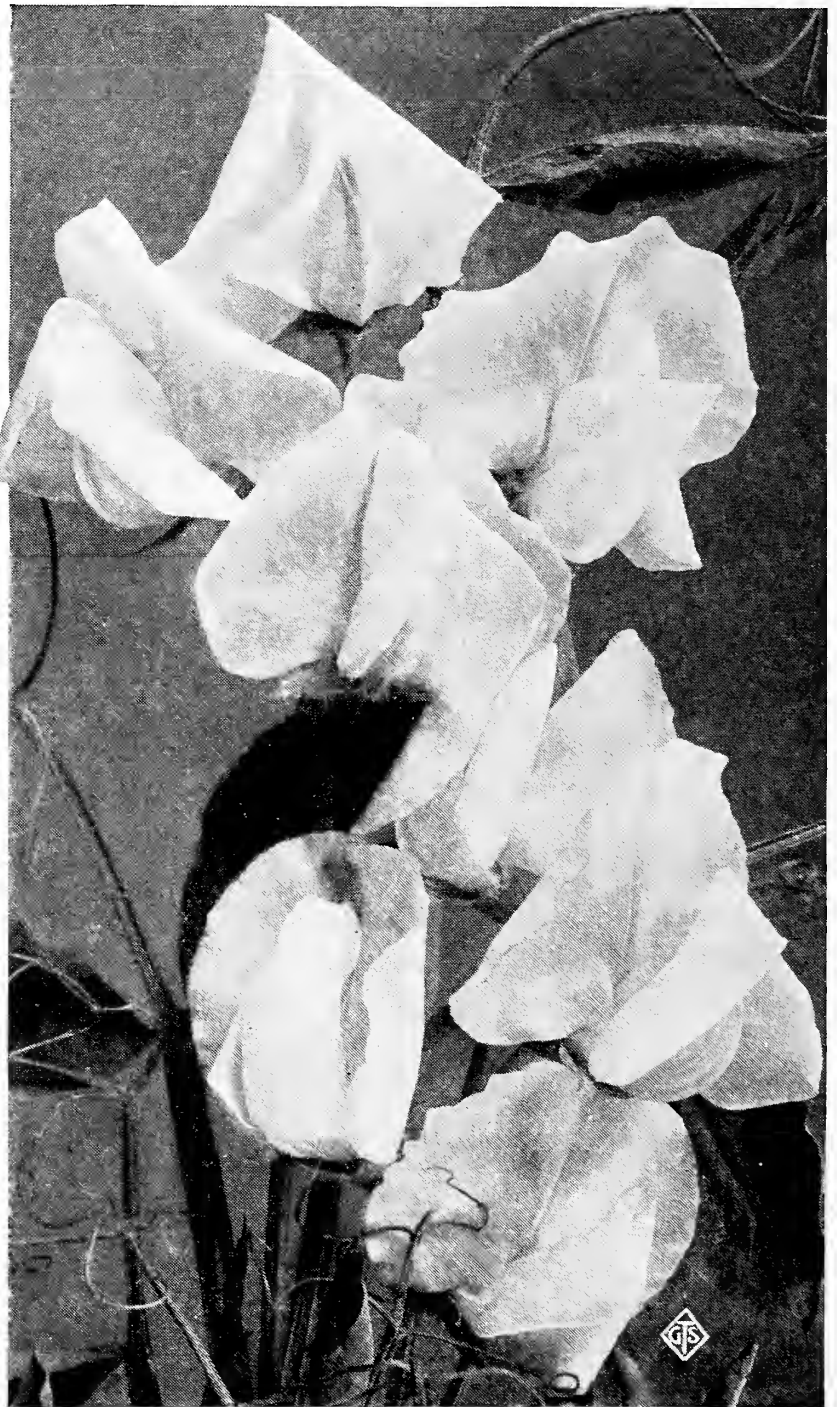
Lathyrus odoratus

N. B.—Intending purchasers are strongly advised to order as soon as possible after receipt of catalogue

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 and branching, and bloom more freely, some varieties showing three or 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 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 12 inches deep, and 9 to 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, white-seeded varieties should not be sown until the ground is fairly warm. The earliest flowers are from seed sown in fall, preferably in a dry situation, and 6 to 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 a 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.

We do not sell less than 1 oz., ¼lb. or ½lb. at the prices quoted per oz., ¼lb., ½lb. and lb. respectively. This applies to all types and to the mixtures.



Thorburn's Spencer Sweet Peas, King White

In order to assist our customers in making their selections, we group the different varieties according to color.

Thorburn's Selected Sweet Peas

- Assortment** containing 1 pkt. each of 20 named varieties, **Our Selection**.....52010 \$0 85
- Assortment** containing 1 pkt. each of 10 named varieties, **Our Selection**.....52020 45
- Assortment** containing 1 pkt. each of 12 finest **Named Exhibition Varieties of Spencer Sweet Peas, Our Selection**.....52030 1 00

Named Large-Flowered (Grandiflora) Sweet Peas

All 5 cents per packet

LIGHT BLUE AND LAVENDER

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

DARK BLUE AND PURPLE

- Captain of the Blues.** Standard purple; wings bright blue.....52350 Oz. ¼lb. \$0 10 \$0 30
- Lord Nelson.** A fine, rich bright blue.....52410 10 30
- Navy-Blue.** The color is deep violet-blue.....52430 10 30

NAMED LARGE-FLOWERED (GRANDIFLORA) SWEET PEAS, continued

CLARET AND MAROON			
Black Knight. Fine, self-colored, deep maroon.....	Oz. 52480	15	1/4lb. \$0 40
Othello. Fine, deep maroon...	52520	10	30
CRIMSON AND SCARLET			
King Edward VII. A fine, self-colored, bright crimson.....	52630	10	30
Salopian. Very fine, sunproof scarlet.	52690	10	30
PINK (LIGHT SHADES)			
Lovely. Shell-pink, shaded light rose toward edges.....	52910	10	30
Prima Donna. Fine; large; soft pink.	52930	20	60
PINK (DEEPER SHADES)			
Apple Blossom. Bright pink and blush, beautifully shaded....	52980	20	60
Katherine Tracy. A fine, brilliant pink.....	53020	10	30

PINK AND WHITE (BICOLOR)			
Blanche Ferry. Pink and white; popular sort.....	Oz. 53240	10	1/4lb. \$0 35
Dainty. White with pink edge; fine.	53260	15	
STRIPED AND MOTTLED			
America. White, striped orange-scarlet.....	53330	15	40
Aurora. White, flaked and striped orange-salmon.....	53350	10	35
PURE WHITE			
Blanche Burpee. Snowy white. A fine, large flower.....	53540	15	40
Emily Henderson. Early white.	53580	10	30
White Wonder. Double-stemmed; large, white flowers.....	53680	10	30
YELLOW AND BUFF			
Hon. Mrs. E. Kenyon. Deep primrose-yellow; grand flower....	53770	10	30

Spencer Sweet Peas

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.

1 ounce will plant a row of 20 to 30 feet, and 1 packet a row of 6 to 8 feet

All 10 cents per packet, except where quoted otherwise

BLUE (LIGHT AND DARK SHADES)			
Asta Ohn. Lavender, tinted mauve; delicate coloring; very large.....	Oz. 53900	25	\$0 25
Captain of the Blues Spencer. A fine purple.....	53910	25	
Flora Norton Spencer. Bright blue, slightly tinged with purple.....	53920	25	
Masterpiece. Lavender.....	53935	25	
Royal Purple. Rich, warm, rosy purple; immense flowers... Pkts. only, 15 cts....	53952	25	
Tennant Spencer. Beautiful purplish mauve, self-colored.... Pkts. only, 15 cts....	53960	25	
Wedgwood. Lovely, light Wedgwood-blue..... Pkts. only, 15 cts....	53962	25	
CRIMSON AND MAROON			
Nubian. Very dark crimson-maroon; large and waved.....	54030	25	
Othello Spencer. An elegant rich, deep maroon.....	54040	25	
PINK (LIGHT SHADES)			
Countess Spencer. Beautiful, soft rose-pink. One of the best.....	54110	25	
Mrs. C. W. Breadmore. Cream, pink edged; very large flower.....	54172	25	
PINK (ROSE-PINK)			
Apple Blossom Spencer. Rose standards; blush-rose wings; large flowers.....	54220	25	
Blanche Ferry Spencer. Carmine-rose, with white wings.....	54225	25	
Constance Oliver. Buff-pink; large flower.	54228	25	
George Herbert. Rich salmon-rose color; splendid.....	54240	25	
John Ingman. Rose-carmine; large; fluted flowers.....	54260	25	

Pink (Rose-Pink), continued			
Mrs. Cuthbertson. Rose-pink, flushed white.....	Oz. 54275	25	\$0 25
Rosabelle. Fine, deep rose, with white blotch at base.....	54290	25	
SALMON AND ORANGE			
Barbara. Fine salmon... Pkts. only, 15 cts....	54310		
Fiery Cross. Red-orange-cerise; very brilliant..... Pkt. 15 cts....	54326	40	
Helen Lewis. A very fine orange-pink; most showy.....	54330	25	
Mrs. Hardcastle Sykes. Beautiful light salmon-pink; large flower.....	54350	25	
SCARLET			
Cardinal. Brilliant intense poppy-scarlet; large waved flowers, borne four to a stem. The best sunproof scarlet.....	Pkt. 15 cts., 1/4lb. \$1.25..	54363	40
WHITE			
America Spencer. White, striped with crimson-red.....	54390	25	
Etta Dyke. A white Spencer; of fine form and substance.....	54400	25	
King White. Pure white; flowers of enormous size and fine form.... Pkt. 15 cts....	54404	40	
White Spencer. Pure white; large, beautifully waved flower.... Pkt. 15 cts....	54420	40	
YELLOW SHADES			
Dobbie's Cream. Fine; large; primrose...	54480	25	
Primrose Spencer. Light primrose-yellow; finest-formed flowers... Pkts. only, 15 cts....	54490		

New Giant, Early-Flowering, Long-Season Spencer Sweet Peas

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

- Early Melody.** This is a deeper shade of pink than Early Songbird, on white ground. It might be described as rose-pink on white ground; very pleasing; mostly four well-waved blossoms to each stem; free-flowering. .54544 Pkt. of
50 seeds 25
- Early Morning Star.** Deep orange-scarlet or flame-color in standard, with rich orange-pink wings. Keeps its color well and does not burn badly. Flowers are large and waved, borne in threes and fours abundantly. Under artificial light its coloring is exquisite.54555 25
- Early Snowflake.** The blossoms are very large and of the best waved form, resembling the noted White Spencer; a free bloomer, with good, long stems.54566 25

- Early Song-Bird.** Soft blush pink shade; large, fine flowers, borne on long stems in threes and fours. When in full growth it appears as though every stem has four blossoms, and of great quality.54576 Pkt. of
50 seeds 25
- Early Spring Maid.** The color is light pink on a cream ground. A most lovely variety, with very large, waved flowers. For an early cream-pink, Early Spring Maid is unexcelled.54587 25
- Early Heather Bell.** Beautiful shade of rich mauve; flowers borne on long stems and are of true Spencer form.54588 25
- Yarrawa.** Rose-color on first opening, changing as it develops to a charming combination of light pink standards and blush wings; of vigorous habit. The flowers are produced on long stiff stems. oz. \$1.25. 54590 25



Giant Spencer Sweet Peas

Early and Winter-Flowering Sweet Peas

SPENCER VARIETIES

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.

- Blanche Ferry Spencer.** Pink and white. 54640 Pkt. of
50 seeds 25
- Lavender-Pink Spencer.**54710 25
- Mrs. Sim. Spencer.** Apricot-pink54730 25
- Red Orchid Spencer.**54735 25
- White Spencer.** Best pure white.54750 25
- Choice Mixed Spencer.** oz. \$1. .54760 25

GRANDIFLORA VARIETIES

All 10 cents per packet

- | | Oz. | ¼lb. |
|---|--------|--------|
| Canary-Primrose. Beautiful primrose. (Christmas.)54650 | \$0 15 | \$0 50 |
| Christmas Pink.54660 | 15 | 50 |
| Christmas White.54670 | 15 | 50 |
| Christmas Lavender (Mrs. Alex. Wallace).54680 | 15 | 50 |
| Earliest of All. Pink and white, resembling Blanche Ferry. (Christmas.)54690 | 15 | 50 |
| Le Marquis. Navy-blue. (Christmas.)54720 | 15 | 50 |
| Meteor. Bright red.54725 | 15 | 50 |
| Mixed Christmas.54770 | 15 | 50 |

Sweet Peas in Mixture

- | | Pkt. | Oz. | ¼lb. | ½lb. | Lb. |
|--|--------|--------|--------|--------|--------|
| THORBURN'S SPECIAL MIXED. Comprising the finest Eckford and newest and best large-flowering (Grandiflora) varieties.54800 | \$0 05 | \$0 10 | \$0 35 | \$0 65 | \$1 00 |
| Spencer Varieties, Mixed. A very fine assortment of all the best varieties.54820 | 10 | 20 | 75 | 1 40 | 2 50 |
| Eckford, Mixed. The finest Eckford varieties only.54860 | 05 | 10 | 35 | 65 | 1 00 |
| Silver Gilt Medal Mixture. A blend of the most beautiful varieties of Spencers, to which was awarded the Silver Gilt Medal of the National Sweet Pea Society of Great Britain.54870 | 10 | 30 | 95 | 1 80 | 3 50 |
| Perennial Peas. See Lathyrus. | | | | | |

SELECTED LIST OF FLOWER SEEDS

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

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

FLOWER SEEDS DELIVERED FREE BY MAIL ON RECEIPT OF THE STATED PRICE
Not less than 1/4oz. or 1 oz. sold at the prices quoted per 1/4oz. or 1 oz. respectively. Price, on application, per ounce or pound for those not quoted.

Explanation of Signs Employed in This List

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

A represents Annual—lasting but one year. **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.

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.

The letter *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. If ordered from any catalogue other than this (1920) kindly state from which year's catalogue the numbers are taken. This will facilitate the filling of orders and will insure prompt shipment.

Many of our Flower Seeds are grown in Europe, and some sorts may not be received until later in the season than usual. At the time of going to press we expect to receive all the varieties we quote.

If permission is given us to substitute, we shall use our best judgment in sending equally good sorts for those originally ordered, or a memorandum will be kept of any items not sent and the seeds will be forwarded as soon as they arrive.

ABRONIA umbellata grandiflora (Sand Verbena). Handsome, trailing plants, these hardy annuals with lilac-rose-colored flowers, are especially adapted for vases and rock-gardens, doing best in light, sandy soil. Sow in the open ground in May.....55020 10 Pkt.

ABUTILON, Mixed Hybrids (Chinese Bell-flower; Flowering Maple). Greenhouse shrub of easy culture; continuous bloomer; bell-shaped flowers; very decorative; desirable for house or garden. Grows 3 to 4 feet in height.....55050 25 Pkt.

ACACIA (Tassel Tree). Beautiful greenhouse shrubs; elegant foliage, graceful branches, and fine racemes of richly scented, yellow flowers. Soak the seeds in hot water before sowing, then plant in sandy peat in a temperature of 55 to 60 degrees. Pkt.

Baileyana. 6 to 10 ft.....55090 10 Pkt.

cultriformis. 6 ft.....55110 10 Pkt.

dealbata. 4 ft.....55130 10 Pkt.

decurrens. 6 ft.....55150 10 Pkt.

melanoxyton. 8 ft.....55210 10 Pkt.

floribunda. 6 ft.....55230 10 Pkt.

Fine Mixed......55290 05 Pkt.

ACANTHUS (Bear's Breech). Hardy perennial plants, flourishing in almost any soil or situation. Much prized for decorative purposes. Pkt.

mollis. White. 3 ft.....55320 10 Pkt.

ACHILLEA Ptarmica, Double, "The Pearl." Free-blooming, hardy perennial. The pure white flowers are borne in clusters on long stems. Fine for florists for cut-flowers. Succeeds well in any common garden soil; blooms all summer and fall. 1 1/2 ft..55340 25 Pkt.

ACONITUM. Hardy perennial plant, with showy panicles of helmet-shaped flowers; does well in shady places or under trees. 4 ft. Pkt.

Napellus (Monkshood). Blue.....55380 10 Pkt.

ACROCLINIUM. Showy, half-hardy annuals for the summer garden, with Everlasting flowers, which are much used for winter decorations. Flower-heads, to be preserved, should be gathered when young. 1 ft. Pkt.

roseum. Rose.....55430 5 Pkt.

“ **album.** White.....55450 5 Pkt.

“ **Mixed.**.....55470 5 Pkt.

“ **Double Rose.**.....55490 5 Pkt.

“ **Double White.**.....55510 5 Pkt.

“ **Double Mixed.**.....55530 5 Pkt.

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

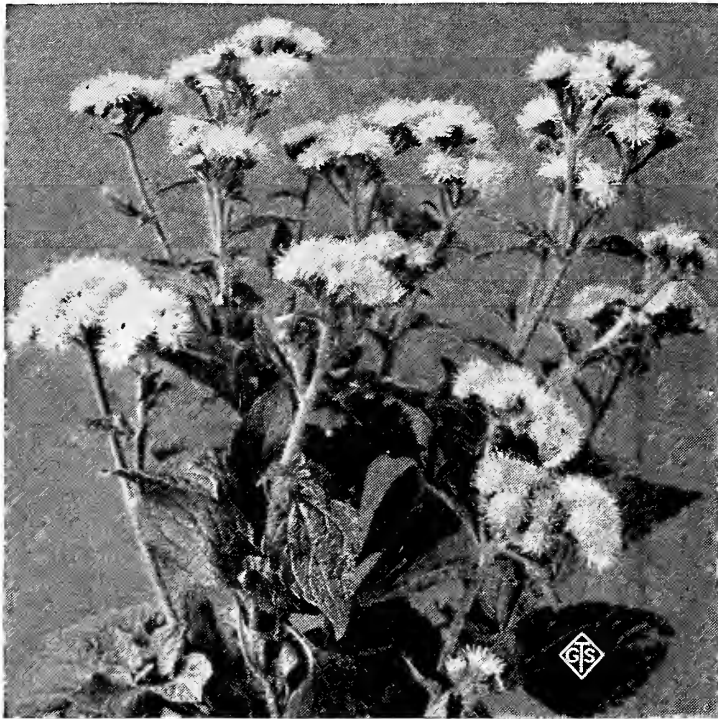
ADONIS. Both the annual and perennial varieties are, with their bright flowers, great favorites in the flower-garden. All succeed well in any common soil.

autumnalis (Flos Adonis). hA. Crimson; Pkt. fall-blooming. 1 ft.....55600 10 Pkt.

æstivalis. hA. Scarlet. 1 1/2 ft.....55620 5 Pkt.

vernalis (Ox-Eye). hP. Bright yellow; spring blooming. 1 ft.....55640 5 Pkt.

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



Ageratum

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

AGERATUM. For strengthening the garden's color-forces in blue, no annual is so good as the Ageratum. Though ordinarily used in bedding and borders, in contrast with such plants as geraniums, perillas, etc., the rose, white and blue sorts are exceedingly attractive when mingled with alyssum, candytuft, etc. They grow well almost anywhere and bloom the whole season. The dwarf blue sorts make fine borders. Sow under glass early in the season or, later, outdoors in a mellow seed-bed. Seeds sown in August will produce good plants for winter flowering.

Laseauxii. Clusters of handsome rose-colored flowers. 1 ft.55720 10

mexicanum. hA. Blue. Parent of the annuals below. 1½ ft.55730 5

album. White. 1½ ft.55735 5

Blue Perfection. Fine dwarf variety, with large flowers. Splendid. 9 in.55740 10

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

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

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

Little Blue Star. Bright blue flowers, fine for carpet bedding. 5 in.55810 25

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

Fine Mixed.55840 5

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

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

AGROSTEMMA, continued

- † **coronaria** (Rose Champion). hP. Pkt.
 - Rose. 2 ft.55880 5
- † " **Dark Blood-Red.** hP. 2 ft.55890 10
- † " **White.** hP. 2 ft.55900 5
- † " **Mixed.** hP. 2 ft.55910 5
- † **Flos-Jovis** (Flower of Jove). hP. Rose.
 - 1 ft.55920 5

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

- linifolia.** Scarlet.55970 5
- Warscewiczii.** Scarlet.55980 5

ALSTRÆMERIA (Peruvian Lily). Lily-like, hardy perennial. Blooms all summer. 3 ft. Pkt.

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

ALTHÆA rosea. See Hollyhock.

ALYSSUM. Most popular, free-blooming annuals; suitable for borders, baskets, pots, rockwork, and for cutting. In the garden sow thickly so as to form masses, early in spring or even the previous autumn. For winter bloom sow late in August, and thin the seedlings to about a dozen for a good-sized basket. Cut back after the first flowers fade and others will come. Pkt.

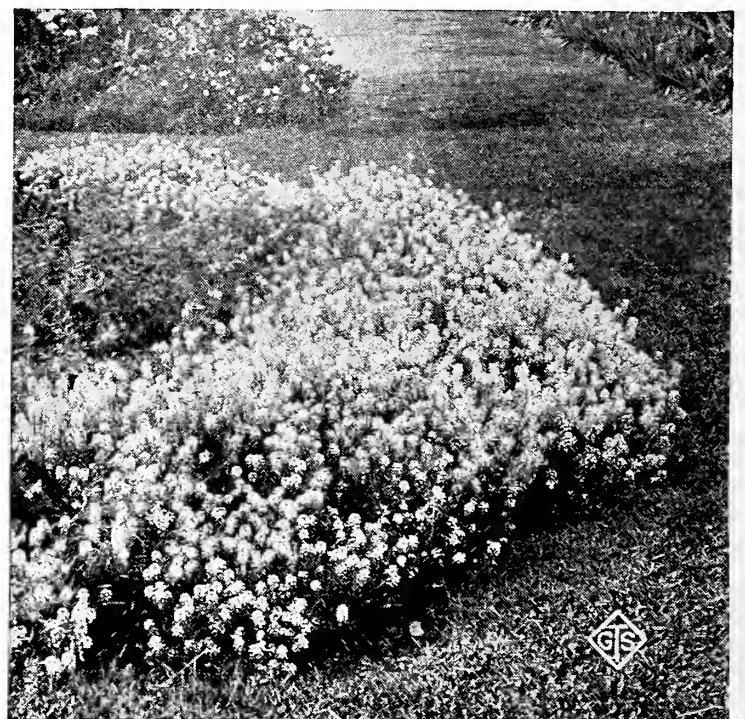
- maritimum** (Sweet Alyssum). hA. Fragrant white flowers, in clusters, all summer. 1 ft. oz. 50c. ...56050 5

- compactum lilacinum** (Lilac Queen). 56055 10
- " **Little Gem.** Grows erect. 6 in. ¼oz. 20c., oz. 60c. ...56060 10

- procumbens, White Carpet.** Of trailing habit, forming a dense mass. ¼oz. 20c., oz. 60c. ...56070 10

- Thorburn's Bouquet.** Very dwarf and compact; for pots and borders. 3 in. ¼oz. 30c. ...56080 15

- saxatile compactum** (Gold Dust). hP. Single plants cover a square foot in a year and produce hundreds of yellow flower-heads; grayish foliage. 1 ft.56090 5



Alyssum maritimum

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

- *bicolor ruber.** Red. 2 ft.....56150 Pkt. 5
- *cruentus** (Prince's Feather). Dark red. 3 ft.....56160 5
- *caudatus** (Love-Lies-Bleeding). Dark red. 3 ft..... oz. 30c...56170 5
- coleifolius superbus.** Dark red. 3 ft.. 56180 5
- *melancholicus ruber.** Red. 2½ ft.. 56200 5
- *salicifolius** (Fountain Plant). Purple. 2½ ft. 56210 10
- *tricolor** (Joseph's Coat). Variegated. 2½ ft. oz. 50c...56220 5
- *Fine Mixed**..... oz. 30c...56250 5

AMETHYST. See Browallia.

AMMOBIUM alatum grandiflorum. White. Pretty half-hardy perennial Everlastings of easiest culture; bloom all summer. 2 ft. 56280 5

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

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

- capensis** (Cape Forget - Me - Not). hhA. Azure-blue. 1½ ft..... 56330 10
- italica, Dropmore variety.** hP. Blue. 3 ft. 56340 10

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

- coronaria** (St. Brigid Poppy - flowered). **Mixed**..... 56360 10
- " **Caen, Mixed**..... 56370 10
- japonica alba.** White..... 56390 25
- sylvestris.** White..... 56395 15

ANTHEMIS. A very pretty plant, producing daisy-like, golden yellow flowers all summer; fine for cutting. Pkt.

Kelwayi tinctoria. hP. Fine, large flowers on good stems. 2 ft..... 56460 10

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

ANTIRRHINUM. See Snapdragon.

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

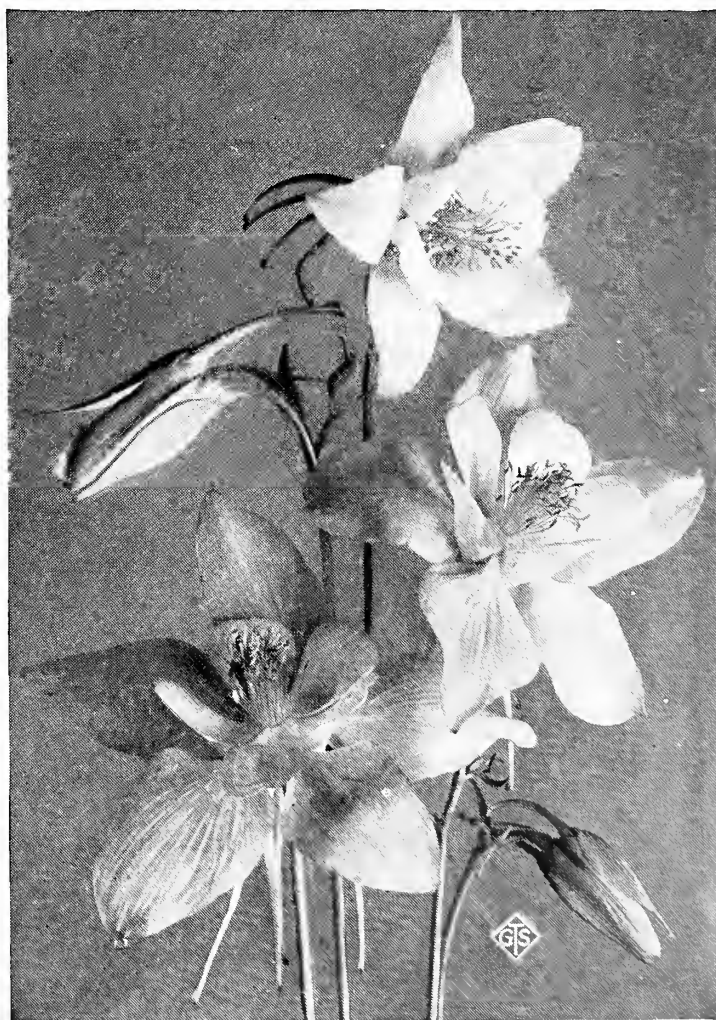
AQUILEGIA, continued

- californica hybrida.** Orange-red and yellow; splendid. 2 ft..... 56500 Pkt. 25
- canadensis.** Scarlet and yellow; for shade. 1½ ft..... 56510 10
- chrysantha.** Golden yellow; flowers large, long spurred. 3 ft..... 56520 25
- carulea** (Rocky Mountain Blue Columbine). One of the most beautiful of our native flowers. Sepals blue, petals white. 3 ft... 56530 15
- glandulosa vera.** One of the handsomest hardy perennials; stems 2 feet high, with sometimes 50 to 80 blossoms 3 inches in diameter, of the deepest blue, with white corolla; a splendid flower..... 56560 50
- Long-spurred Hybrids, Mrs. Scott Elliot's Strain.** Magnificent hybrids in the greatest variety of colors and shades. One of the finest strains. 2 ft..... 56580 25
- Skinneri** (Mexican Columbine). Very handsome and distinct; spurs and sepals long; crimson and green. 3 ft..... 56590 25
- vulgaris, Double Mixed.** Best colors. 56620 5
- " **Single Mixed.** Many good sorts. . 56630 5

ARABIS. An early-flowering, hardy perennial especially suited for edgings and rockwork, becoming a sheet of white bloom in early spring. Grows about 6 inches in height and adapts itself to almost any situation; of easiest culture. Pkt.

alpina (Rock Cress). White. 9 in. . . 56660 10

ARCTOTIS grandis. White and lilac. The large, daisy-like blooms of this fine hardy annual are excellent for cutting. 2 ft. . . 56680 10



Aquilegia, Long-spurred

ARGEMONE. Easily grown, showy, hardy annuals, with poppy-like flowers; blooms through the summer and autumn. 2 to 3 ft. Pkt.

grandiflora. White.....56720 5
" **lutea.** Yellow.....56730 5

‡**ARISTOLOCHIA elegans.** gP. Purple and white. Beautiful, strong-growing climbers for both greenhouse and open ground; grow finely all summer. 20 ft.....56750 25

Sipho (hP). The "Dutchman's Pipe" Vine. 30 ft.....56760 25

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

Curassavica (Swallow-wort). gP. Orange; Pkt. free bloomer.....56810 10

tuberosa. hP. Orange.....56840 10

ASPARAGUS. Beautiful, fern-like foliage; fine for bouquets; an excellent house plant; white flowers. 4 to 6 ft. Pkt.

plumosus nanus. gP. The dwarf variety so largely used by florists.....56860 25

Sprengeri. gP. Fine for basketwork and for use with cut-flowers.....56890 10

ASPERULA. Sweet-scented, pretty plants for borders or rockwork; succeed finely in shady places or under trees; continuously in bloom. 1 ft. Pkt.

azurea setosa. hhA. Light blue.....56920 5

odorata (Sweet Woodruff; Waldmeister). hP. White.....56930 10

ASTERS. See pages 64 and 65.

AUBRETIA. Hardy perennial trailers for beds, rockwork, or herbaceous borders; resemble alyssum in character. Pkt.

deltoidea. Lilac; very pretty.....56960 25

Leichtlinii. Rosy carmine; fine.....56990 25

AURICULA (*Primula auricula*). hP. **Finest Mixed.** Beautiful shades of color. These

early spring-blooming garden Primroses are great favorites. 6 in.. 57020 25

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

BALLOON VINE (*Cardiospermum*). A pretty and fast-growing, half-hardy annual climber, with white blossoms. 10 ft. oz. 50c. 57080 5

BALSAM

(*Lady's-Slipper*). These favorite half-hardy annuals are of the easiest culture, but love hot sun, rich soil, and plenty of water. The young plants are quick, sure growers, and, from seed sown in the

BALSAM, continued

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. 1 1/2 ft. Pkt.

Double Bright Scarlet.....57100 10

" **Rose**.....57150 10

" **Yellow**.....57155 10

" **White**.....57160 10

Finest Double, Mixed. A splendid assortment.....oz. 50c...57165 10

Camellia-flowered. Flowers of extra size, double, and full centered, with reflexed petals. The plant grows rapidly to a good height and is extremely floriferous.

Camellia-flowered, White.....57170 10

" " **Lilac**.....57172 10

" " **Light Pink**.....57174 10

" " **Rose**.....57176 10

" " **Mixed.** Best colors. Oz. 50c...57190 10

BALSAM APPLE and PEAR. See *Momordica*.

BAPTISIA australis (False Indigo). Light blue. Very beautiful, strong-growing and ornamental, hardy, perennial border plant for summer blooming. 3 ft.....57280 5

BARTONIA aurea. Golden yellow. Beautiful hardy annuals that bloom all through the season; very fragrant in the evening. 3 ft. 57300 5

BEGONIA. gP. Begonias are invaluable for growing in beds and borders; also for pot culture, being perfect in habit, with very handsome foliage. Average height about 1 foot. The tuberous-rooted varieties produce gorgeous effects in the garden and are one of our best summer-blooming plants. The seeds of all varieties should be started early. Pkt.

Single, Tuberous-Rooted, Mixed...57420 25

Double Tuberous-Rooted, Mixed...57430 50

gracilis luminosa. Dark scarlet; reddish brown foliage; winter-flowering; fine for pots.....57460 25

***Rex.** Ornamental-leaved varieties in mixture.....57480 25

semperflorens rosea. Rose-colored flowers; fine for edging.....57500 25

" **alba.** White flowers, borne in profusion.....57510 25

" **Vernon.** Red; for borders... 57540 25

" **Mixed**.....57570 25

BELLIS perennis. See Daisy.

BENINCASA cerifera. tA. A black, wax-like gourd with yellow flowers. 6 ft.....57610 10

BIDENS atrosanguinea. hA. Showy, like the calliopsis; easily grown; flowers dark red. 2 ft.....57630 10

BLUE BOTTLE. See *Centaurea Cyanus*.

***BOCCONIA japonica.** A very ornamental, hardy perennial; fine in large beds; flowers white. 6 ft.....57650 10



Camellia-flowered Balsam



Calendula officinalis

BRACHYCOME. The well-known "Swan-River Daisy" is a beautiful, little, half-hardy annual; blooms all summer; fine for edgings and borders. Should be started in hotbed. 1 ft. Pkt.

- iberidifolia.** Blue.....57710 10
- " **alba.** White.....57720 10
- " **rosea.** Rose.....57730 10
- " **Mixed.**57740 10

BROWALLIA (Amethyst). Half-hardy, profuse-blooming annual, highly prized for summer bedding or as greenhouse plants. Fine for cutting. 2 ft. Pkt.

- elata.** Blue.....57780 10
- " **alba.** White.....57790 10
- " **Mixed.**57800 10
- speciosa major.** Very large blue flowers... 57820 25

CACALIA (Tassel Flower). Very pretty and most easily grown hardy annual, with tassel-shaped flowers. 1 1/2 ft. Pkt.

- coccinea.** Scarlet.....57880 5
- " **lutea.** Orange.....57890 5

CACTUS. hhP. **Mixed Varieties.** Seeds of these interesting plants should be started in the greenhouse in moist sand.....57900 25

‡**CALAMPELIS scabra** (†hP). Fine climber for trellises; flowers orange-scarlet. 10 ft... 57920 10

CALANDRINIA. Brightly colored, little hardy annuals, fine for edgings; continuously in bloom, and do well in sunny situations. 6 in. Pkt.

- speciosa.** Purple.....57950 5
- umbellata.** Violet.....57960 10

CALCEOLARIA. The seeds are very small, and should be sown in the greenhouse on the surface of 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

CALCEOLARIA continued

seed. The watering should be done carefully; an atomizer or brush is best. To retain the moisture the box may be covered with a pane of glass, which must be removed as soon as plants appear. Soil should be light and rich. Pkt.

- hybrida.** Large-flowered; self-colored. 2 ft. 57990 25
- " Large-flowered; tigered or spotted. 2 ft.....58000 25
- " Large-flowered; dwarf; tigered. 1 ft.....58010 25
- scabiosæfolia (californica).** hA. Yellow; for bedding. 1 ft.....58100 10

CALENDULA. Hardy annuals about 1 foot high. Sow in the open early in spring and the plants will bloom early in summer. Calendulas have become very popular of late. The striking orange, red, and yellow blooms are very effective and attractive, growing on stout, long stems. They are excellent for cutting, and are produced in great profusion, blooming until late in autumn. Pkt.

- officinalis fl. - pl. grandiflora** (Orange King). Double; large-flowered; deep orange.....58160 5
 - " **fl.-pl. grandiflora sulphurea.** Double; light yellow; large-flowered.....58170 5
 - " **Sulphur Crown.**.....58175 5
 - " **Nankeen.** A rich, soft shade of nankeen-yellow; large flowers... 58180 5
 - " **Meteor.** Creamy center, edged with orange; fine for cutting... oz. 25c...58190 5
 - " **Prince of Orange.** Glittering orange and yellow. One of the best.....oz. 30c...58200 5
 - " **ranunculoides** (Garden Marigold). Orange; double flowers. 58210 5
 - pluvialis** (Cape Marigold). White or ivory. 58220 5
 - Pongei fl.-pl.** Handsome, double, white flowers.....58230 5
 - Mixed.**.....oz. 25c...58240 5
- See, also, Marigold.

CALLIOPSIS. This hardy annual is another of the garden's great forces in yellow, strengthened with rich red-marrons and browns. Sow in open ground in spring, and, in thinning or transplanting, give the plants plenty of room to spread. Their tall, slender habit makes neat staking and tying necessary. Fine for cutting. Pkt.



Calliopsis

- bicolor (tinctoria).** Yellow-brown. 2 ft.....58290 5

- CALLIOPSIS**, continued
- bicolor Crimson King**.....58295 Pkt. 5
 - “ **marmorata**. Maroon and gold. 1 1/2 ft.....58310 5
 - “ **nana radiata** (Ray of Gold). Golden yellow flowers. 6 to 8 in....58320 10
 - coronata**. Yellow; very fine. 1 1/2 ft. .58340 5
 - Drummondii** (Golden Wave). Golden brown. 1 ft.....oz. 50c...58350 5
 - Mixed Annual Sorts**.....oz. 40c...58370 5

- COREOPSIS** (Perennial Calliopsis). One of our finest hardy perennials; bloom practically all summer; fine for borders and groups. Pkt.
- grandiflora**. Large flowers of rich yellow. 2 ft.....58400 10
 - lanceolata grandiflora**. Large, golden yellow flowers; fine for cutting.....58410 10

CAMELLIA japonica. See Tree Seeds.



Campanula Medium

CAMPANULA (**Canterbury Bells**). Popular and beautiful are Campanulas. Although the Canterbury Bells are biennials, they may also be treated as annuals, and will flower the first year from seed, if sown early in the spring. For effect in the border, plant them in clumps of separate colors, and they are beautiful when massed. The perennial varieties, treated as perennials, will flower most profusely by mid-summer. The tall and stately growing kinds will be found of great value for the border, while the dwarf sorts make charming rock and edging plants. All the varieties like a rich, sandy soil with good drainage. Pkt.

- carpatica**. hP. Deep blue; for rockeries, beds and edgings. 6 in.....58530 10
- “ **alba**. Flowers white. 6 in...58540 10
- Medium, Single Blue** (Canterbury Bells). hB. Blooms first year if sown early. 2 ft.....58560 5
- “ **Single White**. Pretty for contrasts.....58570 5
- “ **Single Rose**.....58580 10

- CAMPANULA**, continued
- Medium, Single Mixed**.....58600 5
 - “ **Double Blue**. Rich, heavy, curious flowers through summer and fall.....58610 10
 - “ **Double White**. Waxy appearance.....58620 10
 - “ **Double Rose**.....58630 15
 - “ **Double Mixed**.....58640 10
 - “ **calycanthea** (Cup - and - Saucer). hB. Blue; symmetrical; often has 35 to 40 flowers open at same time on a single plant; for pots or borders. 2 ft..58650 10
 - “ **calycanthea alba**. A white-flowered variety of the above...58660 15
 - “ **calycanthea rosea**. Rose. A very fine sort.....58670 15
 - “ **calycanthea, Mixed**. Shades of blue and white.....58680 10
 - “ **Prize Mixture** of all colors, Single and Double and Calycantheas; an unequalled strain.....58700 15
 - persicifolia grandiflora, Blue**. hP. Superb large flowers and long, narrow, peach-like foliage. For finest effect plant the blue and white varieties together. 2 to 4 ft. June and July.....58770 25
 - “ **grandiflora alba**. A white-flowered variety of the above, growing to the same height..58780 25
 - “ **grandiflora, Fine Mixed**.58790 25
 - pyramidalis** (Chimney Bellflower). hhP. Spikes 3 to 4 feet tall, erect, pyramidal; flowers large and of beautiful blue; blooms in late summer and autumn. 58800 10
 - “ **alba**. White.....58810 10
 - “ **Mixed**.....58815 10

See, also, Platycodon, page 97.

‡**CANARY-BIRD FLOWER** (*Tropæolum canariense*). Also known as Canary Creeper. Fine, half-hardy annual; yellow flowers. 10 ft.....58860 10

CANDYTUFT (*Iberis*). The Candytufts are among our best hardy annuals for edgings, bedding, massing or rockeries, and for cutting. Several of the varieties are fragrant, and all are profuse in bloom. Sow outdoors in April, and thin well when the plants grow about an inch. Sow again in a month, and late in July for fall flowers. Give rich soil and water freely. Pkt.

- affinis**. Neat and pretty bedder. 6 in. 58870 5
- amara**. White. 1 ft.oz. 25c...58875 5
- coronaria** (Rocket Candytuft). Of candelabra form; flowers in upright spikes.....oz. 40c...58880 5
- “ **Empress**. White. 1 ft..... 1/4oz. 20c., oz. 50c...58885 5
- “ **Giant Hyacinth-flowered**. White flowers borne in large trusses.....58890 5
- odorata**. Small, white, fragrant flowers.... 58900 5
- umbellata**. Purple. 1 ft.....58905 5
- “ **carminea**. Bright carmine. 1 ft.....58910 10
- “ **carnea**. Flesh-colored. 1 ft.... 58915 5

CANDYTUFT, continued

umbellata Dunnettii. Dark crimson.	Pkt.
1 ft.....	58920 5
" lilacina. Lilac. 1 ft.....	58925 5
" Tom Thumb. White...	58932 5
" Dwarf Hybrids. Mixed colors.	
6 in.....	58935 10
" Mixed.	58938 5
Mixed Annual Sortsoz. 30c...	58940 5

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. Pkt.

sempervirens. White flowers remain fresh nearly a month. 1 ft.....58990 15

***CANNA** (Indian Shot). hhP. One of our best bedding plants; beautiful, ornamental foliage and large, brilliant flowers. Much employed in subtropical gardening, groups on lawns and mixed flower-beds. Soak the seed before planting. 4 ft. Pkt.

***Dark-leaved Sorts, Mixed.**.....59030 10

indica, Fine Mixed......59035 5

***Finest Mixed, Crozy's Hybrids.** Very fine.....59050 5

CANTERBURY BELLS. See Campanula.

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 the tall varieties, staking and tying are 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 five months from sowing. Grown as annuals from seed every spring, they are most satisfactory. Pkt.

Double White. Large, perfect flowers. 1 1/2 ft.....59120 10

Double Yellow. A clear, soft shade. 1 1/2 ft.....59130 25

Double Mixed. 1 1/2 to 2 ft.....oz. \$1.50..59140 10

Giant Margaret. Malmaison Strain. Extra large and perfect, flowering in a rich variety of colors; 80 per cent of the flowers generally come double. A splendid sort for cutting. 1 ft.....59145 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.

CARNATION, continued

Chabaud Perpetual Double. Mixed—	Pkt.
Yellow, Red, White, etc. Blooms in six months. 1 1/2 ft.....	59160 25
Jeanne Dionis. Enormous flowers of the purest white and most perfect form.	59190 75
Chabaud Yellow.	59230 25
Giant Perpetual, Fine Mixed. Enormous flowers; perfectly double; splendid colors.	
	59240 50

BORDER CARNATIONS, etc. We invite attention to the splendid collection below. Pkt.

Red Grenadine, Double. Brilliant scarlet. 2 ft.....59270 25

Early Dwarf Vienna, Double Mixed. Fine for garden culture and for cutting. 1 ft.....59290 15

Double Mixed......59370 10

CASSIA artemisioides (Senna). gP. A very pretty shrub, with finely cut, silvery foliage and yellow flowers; sweet-scented; will stand drought very well. 4 ft.....59450 15

CASTOR-OIL PLANT. See Ricinus.

CATCHFLY. See Silene.

CELOSIA (Cockscomb).

CRISTATA. An annual of easy culture. They are most effective in the border. Transplanting into a rich soil about the time the combs begin to form makes the flower-heads much larger, and they last from midsummer until frost. Pkt.

Glasgow Prize. Dark leaves and crimson combs; fine for solid beds and for edgings. 1 ft.....59520 10

Dwarf Crimson......59540 10

" **Dark Yellow.** Yellow combs... 59550 10

" **Light Yellow.**.....59560 10

" **Mixed.** Extra-large combs in all the preceding colors... 59570 10

Tall Mixed. Very fine.....59575 10



Margaret Carnations



Celosia plumosa

CELOSIA, continued

PLUMOSA (Plumed or Ostrich-feather). Beautiful annual foliage plants, blooming in late summer and autumn, and producing large, showy plumes, curled and curved, much resembling ostrich feathers. Elegant for beds and borders. 2 to 3 ft.

Ostrich - Feather, Pkt. Crimson . 59590 10

Ostrich - Feather, Finest Mixed . . . 59605 10

Pride of Castle Gould. Handsome, compact, feathery plumes. In shades of blood-reds, carmines, yellow, and orange. . . . 59620 25

Thompsonii. Feathered; red; superb. . . . 59635 15

" **magnifica alba** . . . 59621 10

" **aurea** . . . 59622 10

" **carminea** . . . 59623 10

" **Kermesina** . . . 59624 10

" **coccinea** 59626 10

" **lutea** . . . 59628 10

" **purpurea** . . . 59630 10

" **Rouge Feu** . . . 59632 10

" **Yellow** . 59638 15

" **Mixed.** Superb assortment of the plumed varieties. . . . 59640 15

Pompon (Chinese Woolflower). Brilliant scarlet; quite distinct. . . . 59680 10

CENTAUREA. The popular Cornflower, *Centaurea Cyanus*, is also known as Blue Bottle, Ragged Sailor, and sometimes as Bachelor's Button. Bright-flowered plants of the hardiest nature and simplest culture, among the most attractive and graceful of all the old-fashioned flowers. The perennial sorts increase rapidly and bloom profusely.

PERENNIAL FLOWERING. A dry, sandy soil of moderate fertility seems to suit them best, keeping up a profusion of bloom all summer.

montana, Blue. Large-flowered perennial Pkt. Cornflower. . . . 59725 10

" **alba.** White. . . . 59730 20

PERENNIAL, SILVER-LEAVED. These are used for borders or edgings, and thrive anywhere. Flowers white, leaves grayish; half hardy. 1 ft. Pkt.

candidissima. Silvery white leaves. 59740 10

gymnocarpa. Silvery white, small leaves. 59760 10

HARDY ANNUALS. Flower finest in full sun and thin soil. Sow in open ground in spring. 1 1/2 to 2 ft.

CENTAUREA, continued

americana. Large, lilac-purple flowers; Pkt. bushy plants; very fine; constant and profuse bloomer. . . . 59780 10

" **alba.** Pure white. . . . 59785 15

imperialis (Giant). A hardy annual of great beauty. The fluffy flowers, borne on long, stiff stems—yellow, purple, lilac, rose and white in color—are very beautiful. They are splendid for cutting, and the cut blooms, if placed in water, are very lasting.

" **White.** Very large-flowered, hardy, and floriferous. 59790 10

" **Purple.** Beautiful, velvety purple. . . . 59798 10

" **Lilac.** Very large-flowered; hardy; the same as the white, except in color. . . . 59810 10

" **Rose.** Charming, glowing rose. 59818 10

" **Yellow.** Bright yellow flowers; very fine for use as cut-flowers. . . . 59830 10

" **Mixed.** Very large-flowered; hardy. . . . 59840 10

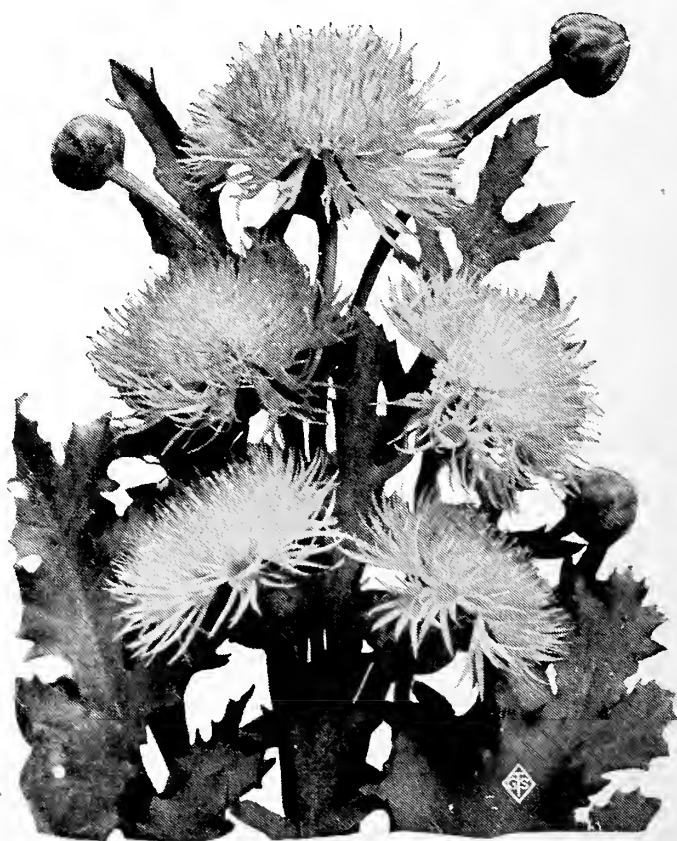
odorata Margaritæ. Pure white; 2 1/2 inches across; lacinated and scented; forms stocky, well-budded little bushes. 1 1/2 ft. . . . 59880 10

moschata atropurpurea (Purple Sweet Sultan). Large flowers on long stems. . . 59900 10

" **atropurpurea alba** (White Sweet Sultan). . . . 59910 10

" **atropurpurea, Mixed.** (Mixed Sweet Sultan). 59930 10

suaveolens (Yellow Sweet Sultan). Fine. . . . 59950 10



Centaurea imperialis

CENTAUREA, continued

- Cyanus** (Cornflower). Blue; delightful, old-fashioned flowers, blooming profusely all summer; borne on long, stiff stems, and fine for cutting. 1 to 2 ft. 59970 5
- “ **Emperor William.** Blue; one of the finest of all Cornflowers, and much used for cutting. oz. 50c. 59980 5
- “ **Double Blue.** 59985 15
- “ **Rose.** Distinct shade; flowers borne on long stems; good for cutting. 60010 5
- “ **Victoria, Dwarf Compact.** For pots and edgings; azure blue; 9 in. 60020 10
- “ **Pure White.** Very fine. 60030 5
- “ **Mixed.** oz. 40c. 60040 5
- “ **Double Mixed.** 60050 5
- “ **Mixed Dwarf Hybrids.** 1/4 oz. 25c., oz. 80c. 60050 5
- “ **Mixed Dwarf Hybrids.** 1/4 oz. 25c., oz. 80c. 60060 10
- Collection** of five varieties *Centaurea imperialis*. 60065 40

CENTRANTHUS. Very pretty, free-flowering annuals, suitable for rockeries, vases, and the garden border. 1 ft. Pkt.

- macrosiphon.** Red. 60120 5
- “ **Mixed.** 60150 5

CERASTIUM (Snow-in-Summer). Pretty, silver-leaved, trailing, hardy perennials; fine edging plants, also for rockeries. 6 in. Pkt.

- tomentosum.** White. 60190 25

CHELONE. Beautiful, decorative, hardy perennials, worthy of a place in every garden. 2 to 3 ft. Pkt.

- barbata coccinea.** Scarlet. 60300 10
- “ **hybrida, Mixed.** 60310 10

CHRISTMAS ROSE. See Helleborus.

CHRYSANTHEMUM. Do not confound these annuals with the winter-flowering sorts of the florists. They bloom profusely from early summer until frost, and, when grown in large beds or masses, their bright colors make a splendid show. The plants can be brought into bloom early by sowing the seeds in frames or window-boxes, and afterwards transplanting to the garden; or seed may be sown where the plants are to flower, if the seedlings are thinned to 8 to 10 inches apart. Pinching back in early growth makes the plants bushy and shapely. Average height, 1 to 1 1/2 ft. Pkt.

- coronarium, Double sulphureum.** Pale yellow. 60370 5
- “ **Double Yellow.** Golden yellow; splendid. 60390 5
- “ **Double White.** 60410 5
- “ **Double Mixed.** Yellow, white, etc. oz. 50c. 60430 5
- tricolor.** The tricolor sorts have beautiful rings and eyes of various colors, and are distinctively handsome, with long stems. Pkt.
- “ **Burridgeanum.** Crimson-maroon, with white edge and inner circle; brilliant and showy. 60450 5
- “ **Eclipse.** Yellow, with velvety brown band. 60460 10
- “ **Golden Feather.** Foliage rich yellow; flowers bright red and white on long stems. 60470 10



Centaurea Cyanus

CHRYSANTHEMUM, continued

- tricolor, Scarlet.** Dark and rich. 60490 10
- “ **Yellow.** 60500 5
- “ **White.** 60510 5
- “ **Single Mixed.** All colors. 1/4 oz. 20c., oz. 60c. 60520 5
- “ **Double Golden (Dunnettii).** 60530 10
- “ **Double White (Dunnettii).** 60540 10
- “ **Double hybridum, Mixed (Dunnettii).** 1/4 oz. 40c., oz. \$1.25. 60550 10

frutescens (Paris Daisy; Marguerite). gP. Beautiful for cutting and pot culture; long-stemmed, single, white flowers, with golden centers. A favorite variety with florists. 60610 10

inodorum, Double. Pretty, white flowers, carried on long, stiff stems; fine for cutting. 1 ft. 60620 10

Leucanthemum (Shasta Daisy). hP. Extra-large flowers, with pure white petals and brilliant, golden yellow center. 2 to 2 1/2 ft. 60630 10

Leucanthemum secundum (June Marguerite). Flowering in succession to the Shasta Daisy. 60635 15

segetum, Morning Star. Large, yellow flowers; for cutting. 60650 5

“ **Helios, Evening Star.** Fine for cutting; pure golden yellow flowers of gigantic size, borne on long stems. 60660 5

Collection of five varieties *Chrysanthemum tricolor*. 60690 40

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



Annual Chrysanthemum

CHRYSANTHEMUM, PERENNIAL, continued varieties, expecting them to yield the grand show flowers of late fall. For ordinary culture and room decoration, plants pinched back to form a number of branches, and holding from five to ten flowers, are satisfactory. Average height of show kinds, 3 ft. Pkt.

indicum, Single. Will produce superb flowers of different types and colors; fine for forcing and cut-flowers. 60720 25
 " **Double** 60730 25

" **Pompon.** The pretty, hardy dwarfs, with bright, clustered flowers, which brighten up the garden late in autumn. 1½ ft. 60740 25

japonicum fl.-pl. From finest flowers. An extra-choice mixture, including many of the finest large-flowering double sorts. 60750 50

CINERARIA. One of the most useful and ornamental of greenhouse plants, with flowers of the richest and most brilliant colors and shades, and of the finest texture. It is rather a difficult plant to grow if its requirements are not understood. The mistake generally made is in growing it in a warm house instead of a cool one. The seed should be started in the greenhouse. For winter blooming sow in April and May in shallow boxes, in fine soil; drop the seed in shallow drills, cover, and press the earth rather firmly with a piece of board or the bottom of a pot. Set the box where it will get the morning sun, water moderately and carefully. Average height, 2 ft. Pkt.

Large-flowered Crimson. Very brilliant and showy. 60800 50
 " " **Stella, Mixed.** Twisted and fluted petals; large flowers of very rich and bright colors. 60820 50
 " " **White.** Handsome. 60830 25
 " " **Prize Mixed.** Magnificent strain. 60840 60

CINERARIA, continued Pkt.
Large-flowered Half Dwarf, Prize Mixed.
 " " Exquisite. 1 ft. 60850 60
 " " **Self Colors, Mixed.** 60855 50
Splendid Mixed. All fine sorts 60860 25
 " " **Double.** 60870 60
stellata (Polyantha). Mixed. 60880 25
hybrida, Extra-choice Mixed. 60890 50

HALF-HARDY PERENNIALS. Require some protection. Pkt.
maritima (Dusty Miller). Silvery leaves. 60910 5
 " **candidissima.** Beautiful white foliage; the best. 60920 10
 " **Diamond.** Pure white foliage; very fine. 60930 10

CLARKIA. One of the prettiest and showiest of hardy annuals that bloom freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight; useful for hanging-baskets, vases and as edgings to beds of larger growing plants. Sow outdoors in early spring and grow in partial shade. The plants keep up a continuous bloom through midsummer to late autumn. Average height, 1½ ft. Pkt.

elegans alba, Double. White. 60960 10
 " **rosea, Single.** Rose. 60970 5
 " **rosea, Double.** Rose. 60980 10
 " **Salmon Queen, Double.** Salmon-pink. 60983 10
 " **Scarlet Queen, Double.** Orange-scarlet. 60985 10
 " **Single Mixed.** 60990 5
 " **Double Mixed.** 61000 5
 " **Double and Single Mixed.** 61010 5
pulchella alba. White. 61030 5
 " **Red** 61050 5
 " **White Tom Thumb, Double.** 61060 5
 " **Single Mixed.** 61070 5

CLARY (*Salvia Horminum*). Pretty, hardy annuals for beds and borders. 1½ ft.
Purple-Top. Purple. 61110 5
Red-Top. Red. 61120 5

‡**CLEMATIS** (*Virgin's Bower*). Excellent, hardy climbing perennials for trellises, arbors, verandas, etc. Do well in most locations. Pkt.
crispa. Pale purple; floriferous. 10 ft. 61160 25
flammula. White; sweet-scented. 25 ft. 61170 10
paniculata. White; fragrant; very free blooming. 10 to 20 ft. 61180 10
Jackmanii Hybrids, Mixed. Collection of the best colors. 10 to 15 ft. 61190 25
 See, also, Tree Seeds, page 67.

CLEOME. Curious, ornamental, hardy annual, on castor-oil plant style. Blooms freely in sandy soil. Pkt.
pungens (Giant Spider Flower). Pink. 3 ft. 61210 10

CLIANTHUS puniceus. Greenhouse plants, with pea-shaped, scarlet, white-spotted flowers. Soak the seeds in hot water before planting. 61250 25
 " " **alba.** White. 61260 25

CLINTONIA (Downingia) pulchella. Very pretty border annual; flowers freely in purple, white, and yellow (tricolor); fine for edging. 6 in. 61270 25

- ‡**COBÆA.** Tender climbing perennials of rapid growth. 20 ft. Pkt.
 ‡**scandens.** Purple, bell-shaped flowers. oz. 50c. 61330 10
 ‡ " **alba.** White. 61340 15

COCKSCOMB. See Celosia.

- ***COLEUS.** gP. Splendid bedding plants with beautifully colored foliage; very useful for decorative purposes. 2 ft. Pkt.
Fine Hybrids, Mixed. 61410 25
Large-leaved, Finest Mixed 61420 50

COLLINSIA. Free-flowering annuals. If sown in autumn, will stand the winter and flower early in spring. All are brightly colored and are excellent for growing in patches or clumps; grows in any garden soil. 1 to 1½ ft. Pkt.

- bicolor.** Lilac and white. 61490 5
 " **alba.** White. 61500 5
grandiflora. Blue. 61520 5
multicolor. White, violet, and lilac. 61530 5
vena. Light blue and white. 61550 5
Mixed. 61560 5

COLLOMIA. Hardy annuals suitable for massing; fine for bees. Pkt.

- coccinea.** Scarlet and yellow. 1 ft. 61590 5

COLUMBINE. See Aquilegia.

COMMELINA. Showy, half-hardy perennials; favorite plants for pots and gardens. 1½ ft. Pkt.

- cœlestis.** Blue 61630 5

CONVOLVULUS

TALL. Beautiful and easily grown annual; rapid in covering screens, trellises, etc.

- aureus superbus.** hhA. Golden yellow. Pkt.
 5 to 10 ft. 61680 10
major (Tall Morning-Glory). **Mixed.** Finest colors. 10 ft. up. 61690 5
mauritanicus. hP. Blue; trailing habit; fine for baskets and rockeries. 61700 10
 For **Japanese Morning-Glory**, see Ipomœa.

DWARF. Dwarf Morning-Glories are elegant annuals for growing in clumps or beds; also for edgings and hanging-baskets; bushy, of easiest culture; bloom all season. 12 in. Pkt.

- tricolor (minor).** Blue. 61730 5
 " **Rose** 61750 5
 " **unicaulis.** Purple. 61760 5
 " **White** 61770 5
 " **Mixed** 61780 5

CORDYLINE. See Dracœna.

COREOPSIS. See Calliopsis.

CORNFLOWER. See *Centaurea Cyanus*.

COSMOS. One of the notable fall flowers. A strong, tall-growing annual, with bold flowers of exquisite daintiness and airiness heightened in effect by their foliage setting of feathery green. It is most effective when planted in broad masses, or long background borders against evergreens or fences. We offer only the choice, large-flowering strains. *To make sure of flowering early, Cosmos should be started indoors and transplanted into dry, sandy, or poor soil, in a sunny situation.*

EARLY FLOWERING. If seed is started early in the house or frame, this fine strain will produce flowers a month earlier than Mammoth Perfection. Pkt.

- Crimson.** 61880 10
Pink. 61890 10
White. 61900 10
Mixed. ¼oz. 25c., oz. 75c. 61910 10



Mammoth Cosmos

COSMOS, continued Pkt.

- Lady Lenox.** Lovely, large, shell-pink flowers of great substance. One of the finest of Cosmos. 61920 10

- Lady Lenox, White.** Counterpart of above, except as to color. 61925 15

MAMMOTH PERFECTION. Large flowers on long stems, lasting until frost.

- Conchita.** Crimson. ¼oz. 20c., oz. 60c. 61930 10

- Erlinda.** White. ¼oz. 20c., oz. 60c. 61940 10

- Rosita.** Pink. ¼oz. 20c., oz. 60c. 61950 10

- Mixed** ¼oz. 20c., oz. 50c. 61960 10

- Klondyke.** Orange-colored; distinct foliage. 61990 25

Marguerite. Petals deeply and irregularly fringed; in various bright colors. An attractive flower. 62010 10

Striped. Charming and distinct; large, white centers; petals striped white. 62030 10

NEW DOUBLE VARIETIES.

- Crimson.** Full, round, double flowers; very fine. 62070 25

- Crimson King.** Crested. Dark crimson. 62072 15

- Pink Beauty.** Crested. Soft pink. 62074 15

- White Queen.** Crested. Pure white. 62076 15

These called double crested, are not fully double, but are double crested, having double centers and a row of petals around the base of the flower; very effective. See Novelties, also. Pkt.

COWSLIP (*Primula officinalis hybrida*). hP. Favorite spring flower; fragrant; mixed colors. 6 in. 62080 10

- Yellow.** 62085 10

†**CUCUMIS.** Very luxuriant, half-hardy, climbing annuals of extremely rapid growth; bearing curious fruits; flowers yellow. 10 to 15 ft. Pkt.

- flexuosus** (Snake Cucumber). 62140 5

- grossulariæformis** (Gooseberry Gourd). 62150 10

CUCURBITA. See Gourds.

†**CUPHEA.** Pretty half-hardy perennials; fine border and pot-plants. 1 to 1½ ft. Pkt.

- miniata.** Rich scarlet. 62200 10

- platycentra** (Cigar Plant). Long-shaped, scarlet flowers all summer. 62210 10

- Roezii.** Red. 62230 25



Cyclamen Papilio

CYCLAMEN. These bulbous greenhouse plants are all very beautiful and are unapproached among winter-flowering plants for duration of bloom, variety of shades, and wealth of coloring. They are among the best plants recommended for house culture, as they thrive well and bloom profusely in the average temperature of the living-room. Sow the seed in small boxes or seed-pans in a compost of well-rotted manure, leaf-mold and sand, in the early winter months. Cover lightly with moss, which should be kept moist and should be removed after the seed germinates. Prick out into small pots when the young plants have two leaves. If grown steadily without any check, they will flower in from ten to twelve months. Average height 9 in.

PERSICUM GIGANTEUM—	Pkt.
album, Mont Blanc. White.....	62300 25
albo-rubrum. White with red eye.....	62310 25
100 seeds, \$1..	62310 25
atropurpureum. Dark red.....	62320 25
Brilliant Red. Wine-color.....	62322 50
Christmas Cheer. Blood-red.....	62324 50
Daybreak. Light pink.....	62325 50
Glory of Wandsbek. Dark salmon.....	62326 50
Lavender. Dark and light shades... ..	62328 50
Princess May. Purest white, tipped crimson; very handsome.....	62340 25
Rose of Marienthal. Pink.....	62345 50
roseum. Rose.....	62350 25
Rosy Morn. Rich rose, shading to purplish tinge.....	62355 25
Victoria. White, pink edge, fringed.....	62362 50
Pure White.	62365 50
White, Pink Eye.	62368 50
Mixed. Finest sorts.....	62380 25
Covent Garden Strain, Mixed	62370 25
Papilio, Mixed (Butterfly Cyclamen).....	62400 25
Mixed	62410 10

CYPERUS alternifolius (Umbrella Plant). A perennial grass-like plant of fine habit; grows well in water and damp places. 2 ft..... 62450 15

CYPRESS VINE. See *Ipomœa Quamoclit*.

†**DAHLIA.** This favorite, half-hardy perennial is most easily grown from seed sown early in the house or greenhouse. Will bloom freely outdoors until frost the first season. 3 to 6 ft. Pkt.

Double Mixed	62480 10
Single Mixed	62490 10
Single Cactus, Mixed	62500 10
Double Cactus, Mixed	62505 25

DAISY (*Bellis perennis*, etc.). hP. May be sown in February or March in shallow boxes of light, rich soil, covering the seeds to about three times their own thickness, and pressing soil firmly over them. Keep in a warm window, hotbed, or greenhouse. When well out of the seed-leaf, transplant to new boxes, and set out in the open ground when danger from frost is past. Or, sow in beds outside in August or September; protect with straw or litter over winter, and transplant to their permanent position in the spring. They make delightful borders to beds of taller-growing annuals and can be used very effectively in beds of spring-blooming bulbs. 4 in. Pkt.

Double Red	62590 10
“ delicata rosea	62595 10
“ Rose (Longfellow)	62600 10
“ White (Snowball)	62610 10
“ Mixed. Very fine.....	62620 10
“ maxima alba. Extra large; white..	62630 15
“ maxima rosea. Extra large..	62640 15
“ maxima, Mixed. Extra large..	62650 15
“ monstrosa alba. Snowy white flowers.....	62652 25
“ monstrosa rosea. Deep rose.....	62654 25
“ monstrosa red	62656 25
“ monstrosa, Mixed	62660 25

SHASTA DAISY. See *Chrysanthemum Leucanthemum*.

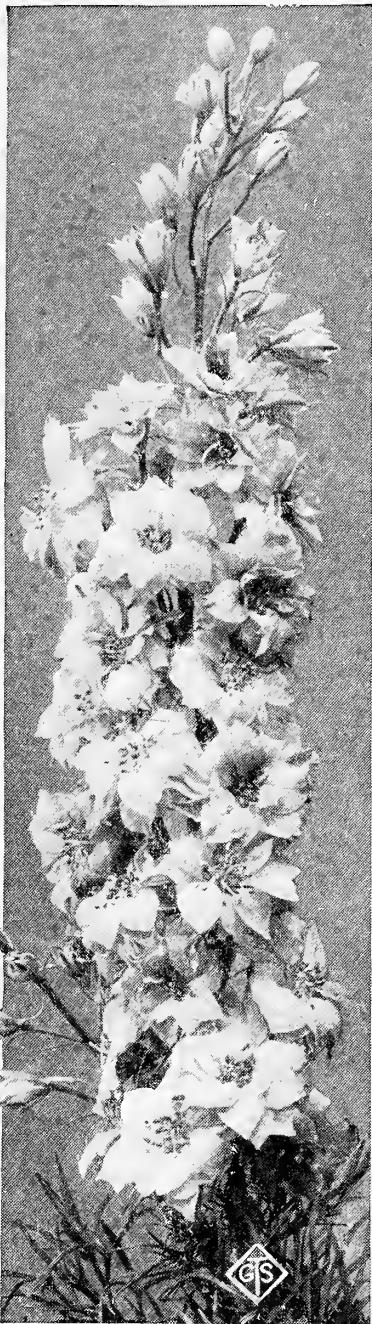
DAISY, Paris. See *Chrysanthemum frutescens*.

DAISY, Swan River. See *Brachycome*.

DATURA. Showy, half-hardy annuals of rapid growth, with large, trumpet-shaped, fragrant flowers. 3 ft. Pkt.

cornucopia (Horn of Plenty). Immense violet flowers.....	62740 5
fastuosa, Double White	62750 5
“ Double Purple	62760 5
humilis flava fl.-pl. Double; yellow.....	62780 10
meteloides (Wrightii). White and lilac....	62790 5

DELPHINIUM (Larkspur). In variety and beauty of its blue tints, which are as numerous as they are charming, no other plant can equal the Delphinium. The brilliant flowers are strongly effective in beds or masses, in borders, shrubberies, or in combination with white lilies. Improvements are continually being made in the size of the flowers, as well as in the length and 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. All varieties are easily cultivated and adaptable to many conditions, but in a soil deeply dug and well enriched with fine old manure, their blooms are the finest. Setting them 1½ to 2 feet each way is not too much for the taller sorts.



Emperor Branching Delphinium

DELPHINIUM, continued

ANNUAL VARIETIES.

These include the Rocket or Hyacinth-flowered, so called from their long, narrow flower-spikes. They bloom best in a rather cool, moist soil. Sow seed in the open border, either in spring or fall, preferably the latter, so that germination may take place very early in the spring. As the seedlings grow, thin them to stand 6 to 18 inches apart, according to variety. The varieties are seldom kept separate, as they are quite as pretty and convenient for cutting when sown in mixture. Some of these are really hardy biennials, but, because they bloom the first season, we treat them as hardy annuals. The shades of color cover a very wide range. Pkt.

Ajaxis, Dwarf Rocket. Finest colors; very beautiful for bedding. 1 ft. 5 oz. 40c. 62810

Ajaxis, Tall Rocket, White. 2 ft. 5

DELPHINIUM, continued

Ajaxis, Tall Rocket, Mixed Colors. 2 ft. 62840 5

“ **Tall Branching, Flesh-color.** 2 ft. 62860 5

“ **Tall Branching, White.** Fine for cutting 62862 10

“ **Tall Branching, Choice mixed.** 2 ft. 1/4oz. 20c., oz. 60c. ... 62870 5

cardiopetalum. Beautiful blue flowers. 1 ft. 62880 5

Emperor, Branching, Rose. This and the next are splendidly bright and showy, often giving ten to twenty erect spikes of flowers. 2 ft. 62890 10

“ **Branching, Dark Blue.** 62895 10

“ **Branching, Light Blue.** 62897 10

“ **Branching, White.** Beautiful for cutting 62900 10

“ **Branching, Mixed.** 1/4oz. 25c., oz. 75c. ... 62910 10

Newport Rose. A rose-colored and very beautiful, free-flowering sort. If sown outdoors in spring, it will bloom by the first of August, and make a lovely display. 2 ft. 62920 10

Newport Scarlet 62925 25

DELPHINIUM, continued

PERENNIAL VARIETIES.

These are usually taller than the annuals, requiring more space between the plants. If sown in the fall or very early spring, nearly all will bloom the first season. Foliage clean and pretty; habit strong and neat; flower-spikes long and dazzling. Pkt.

Barlowii. Large, dark blue flowers; extra fine. 3 ft. 62930 25

Belladonna. Lovely pale blue; handsome plant; comes very true from seed. 4 ft. ... 62940 15

cardinale. Orange-scarlet. A California native. 2 ft. 62960 25

chinense, Mixed (D. grandiflorum). Large flowers, ranging from pure white to indigo-blue. Young seedlings will bloom from midsummer until frost. 2 ft. 62980 10

chinense azureum. Beautiful distinct shade of blue. 2 ft. 62990 10

elatum, Blue (Bee Larkspur). Soft, clear blue; tall spikes. 3 ft. ... 63000 10

“ **hybridum, Finest Mixed.** Very showy 63010 10

formosum. Brilliant blue, white center; especially fine. 3 ft. 63030 25

formosum caelestinum. Clear blue; handsome 63040 25

New Large Hybrids, Mixed. All shades of blue from best named single-flowering varieties. 3 ft. 63060 25

Zalil (sulphureum). hP. Long spikes of yellow flowers. 2 ft. 63090 30

DENDROMECON rigidum (California Yellow Tree Poppy). An easily grown greenhouse shrub with yellow flowers. 2 ft. 63250 25

DIANTHUS. See Pinks, Carnations, and Picotees.

DICTAMNUS (Gas Plant). Ornamental hardy perennials; can remain for years undisturbed; the leaves, when rubbed, have a lemon odor. 3 ft. Pkt.

Fraxinella. Red 63290 10
“ **albus.** White 63300 10

DIGITALIS. See Foxglove.

DIMORPHOTHECA (African Orange Daisy). Easily grown, hardy annuals of great beauty. 12 to 15 inches in height, and bushy. Pkt.

aurantiaca. Orange; very fine. 63340 10

“ **hybrida.** New fine varieties, mixed 63350 10

‡**DOLICHOS.** Very rapid-growing hardy annual climber, bearing pea-shaped blossoms and ornamental seed-pods. Fine for covering screens, etc. 10 ft. Pkt.

Lablab (Hyacinth Bean). Purple oz. 30c. ... 63390 5

“ **albus.** White oz. 30c. ... 63400 5

“ **Mixed.** oz. 30c. ... 63410 5

Purple Soudan. Purple flowers in racemes; good foliage 63440 5

***DRACAENA.** Ornamental greenhouse plants; fine for pots, vases, or beds.

***australis.** Dark green foliage. 3 ft. ... 63495 25

***indivisa.** Narrow green leaves. 4 ft. ... 63500 25

DRACOCEPHALUM Moldavica (Balm). An easily grown hardy annual; blue flowers; fine for bees. 2 ft. 63520 5

ECHEVERIA. Interesting greenhouse succulent plants extensively used for “carpet” bedding; bluish green leaves. 3 to 6 in. Pkt.

metallica. Yellow 63590 25



Dimorphotheca aurantiaca hybrida

- ‡**ECHINOCYSTIS lobata** (Wild Cucumber). Pkt.
A rapid-growing annual climber.63620 5
- ECHINOPS Ritro**. A hardy perennial of stiff growth; flowers blue; fine for bees. 2 ft. 63630 10
- EMMENANTHE penduliflora** (California Golden Bells). A bushy-growing, hardy annual, with long-lasting yellow flowers. 1 ft.63670 25
- ENKIANTHUS japonicus**. Showy, deciduous shrub, hardy as far north as Washington, D. C. White flowers; leaves dying off in autumn a brilliant golden marked with red, with contrasting black berries.63680 10
- ERICA** (Heath). Charming greenhouse shrubs.63730 25
- ERODIUM moschatum**. Pretty, little hardy annual; good for borders; purple flowers. 3 in.63790 5
- ERYNGIUM**. Extremely ornamental, hardy perennials, well adapted for the garden border. Pkt.
giganteum (Silver Thistle). Blue. 4 ft. 63820 10
- ERYSIMUM**. Free-flowering, hardy annuals of neat habit and bright colors; style of wall-flowers. 1 to 1½ ft. Pkt.
arkansanum. Yellow.63840 5
Perofskianum. Orange.63850 5
- ESCHSCHOLTZIA**. Commonly called California Poppy. The state flower of California. This much-esteemed hardy annual is very bright and rich in its pure tints of yellow, orange, etc. The plants average about a foot in height, with silvery foliage, and produce their large, poppy-like flowers from early spring until frost. They are most effective when grown in beds of considerable size, over which the seed may be sown broadcast thinly, and lightly raked in. These sowings may be made early in spring or late in autumn for earlier germination, blooming the next spring. Useful as a pot-plant and for cut-flowers. Pkt.
- THORBURNII**. Coppery orange; the effect of a plant in bloom is simply gorgeous; the flowers are larger than those of other Eschscholtzias, and are borne with equal profusion; finest of all.63900 10
- californica**. Rich yellow. . . oz. 50c. . . 63910 5
" **alba**. Creamy white.63920 5

ESCHSCHOLTZIA, continued

- californica alba fl.-pl.** Fine sort, with Pkt.
double, creamy white flow-
ers.63930 10
- " **Carmine King**. Carmine-
rose; beautiful.63950 10
- " **Rose - Cardinal**. Carmine-
rose.63960 10
- crocea**. Pure, deep orange.63990 5
" **Double Orange**.64000 5
- Mandarin**. Red-gold flowers, orange within and scarlet without.64020 5
- maritima, Golden West**. A superb variety with very large flowers of deep yellow; bloom all summer. 2 ft.64040 5
- Vesuvius**. Wallflower-red.64055 10
See Novelties, also.
- Mixed**. Many sorts. ¼oz. 20c., oz. 50c. 64060 5
- EUCCHARIDIUM grandiflorum**. Graceful and showy; little hardy annuals, nearly allied to clarkia; fine for edgings and pots; rosy red flowers. 1 ft.64080 5
- †**EUPATORIUM Fraseri**. Splendid hardy perennials; clusters of white flowers; fine for cutting. 1½ ft.64100 5
- †**EUPHORBIA**. Very ornamental-leaved, strong-growing hardy annuals; fine for beds and borders. 2 to 3 ft. Pkt.
variegata (Snow-on-the-Mountain). Green-and-white foliage.64110 5
heterophylla (Mexican Fire Plant). Glossy green-and-carmine leaves.64120 10
- EUTOCA viscida**. Dark blue.64160 5
- FENZLIA**. Pretty, hardy annuals for edgings, ribbon-gardening or pots. About 3 in. Pkt.
dianthiflora. Rosy lilac.64190 25
" **alba**. White.64200 25
- FERNS**. gP. Assorted varieties for the greenhouse. Sow in sandy, peaty loam, covering the pots with pieces of glass.64220 25
- FEVERFEW**. See *Matricaria*.
- FLAX**. See *Linum*.
- FORGET-ME-NOT (Myosotis)**. These dainty little flowers love cool, moist soils, and, like pansies, bloom most freely in fall and early spring. They make beautiful close borders, or edgings, and will bloom nicely in winter in a cool room or coldframe. They establish themselves by self-seeding. Sow in spring in a warm, sunny border. Most varieties bloom freely the first season and profusely the second. Average height, 6 to 8 in. Pkt.
- alpestris** (hB). A pretty plant of erect habit, with blue flowers.64260 10
- " **alba**. White flowers, very dainty in effect.64270 10
- " **Indigo-Blue**. Very fine.64300 10
- " **Indigo-Blue**. New. Compact. Fine for pots or border.64305 25
- " **robusta grandiflora (Eliza Fon-robot)**. Grown extensively for cutting. Large, sky-blue florets with yellow eye, in large clusters.64320 15
- " **rosea**. Rosy flowers; pretty contrast with blues and whites. 64330 10
- " **Victoria**. Strong-growing; dwarf; flowers large, globular, sky-blue, abundant; fine for borders, pots or cutting.64340 15
- " **Mixed**.64350 10

FORGET-ME-NOT, continued

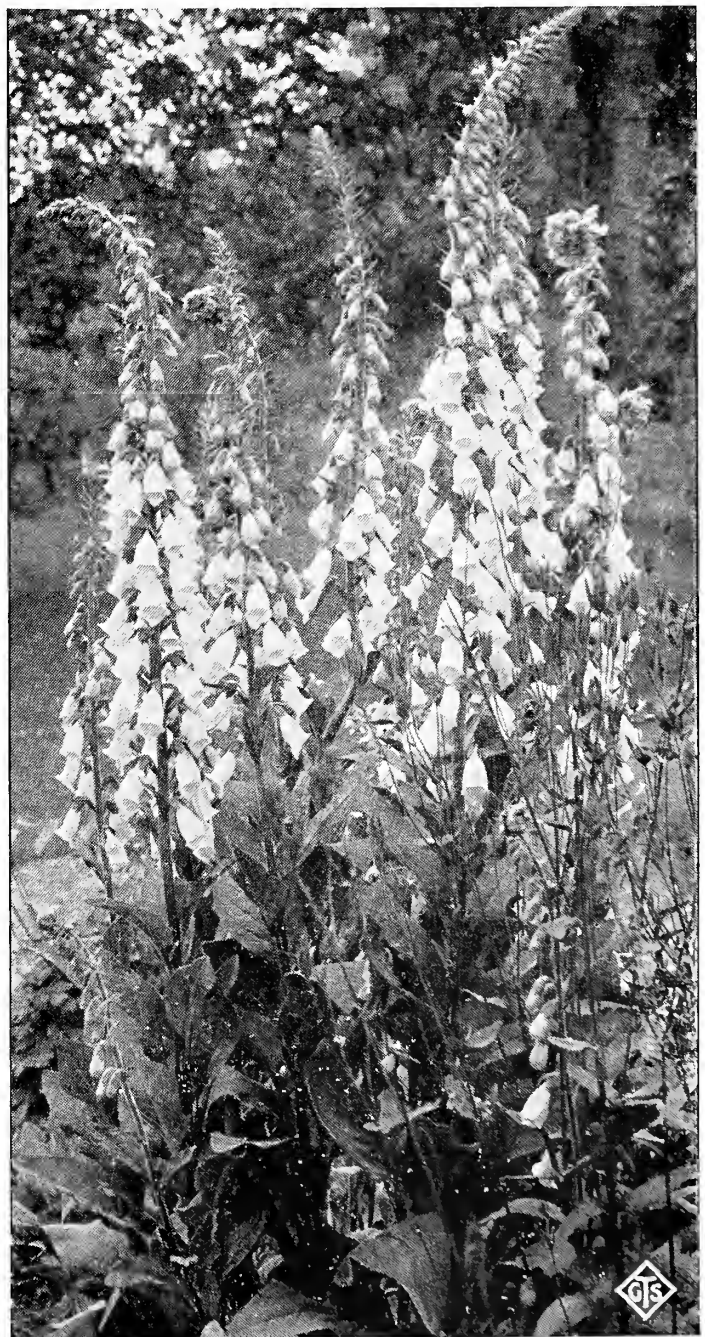
- hybrida, Ruth Fischer.** hB. Pure Forget-me-not blue. Fine for cutting and for hanging-baskets. Can be forced successfully and, owing to its extreme hardiness, it is valuable for spring bedding in open ground..... **64400** 25 Pkt.
- palustris** (True Forget-me-not). hP. Dark blue; stems creeping at the base; blooms the second year abundantly all season; the best known of all..... **64410** 15 Pkt.
- “ **semperflorens.** hP. Bright blue; a dwarf form of *M. palustris*, blooming from spring until autumn; foliage a good shade of green..... **64420** 15 Pkt.
- FOUR O'CLOCK** (*Mirabilis*). Favorite half-hardy annual of the easiest culture and very suitable for large beds and borders. Called Four O'Clock because it opens its blossoms at that hour in the afternoon. Also known as Marvel of Peru. Handsome, free-flowering, sweet-scented; blossoms variegated, striped and of various colors. Pkt.
- Hybrids, Mixed.** Fine assortment. 2 ft.... oz. 25c... **64460** 5
- longiflora alba.** White. 2 ft..... **64480** 5
- Variegated-leaved.** Many colors. 2 ft. **64490** 5
- Tom Thumb, Mixed.** Very fine. 1 ft. **64510** 5

FOXGLOVE (*Digitalis*). The tall flower-spikes of the Foxglove, often 2 to 3 feet in height, are particularly handsome when grown among shrubbery or in bold masses, and as a background for lower-growing plants they are very attractive. Hardy perennials, they are most satisfactory when treated as biennials. Sow the seed out-of-doors in spring and transplant the seedlings into their permanent places. They will bloom magnificently the following spring; give them a deep soil in partial shade. Pkt.

- purpurea, Purple.** The well-known variety..... **64580** 10
- “ **Rose.** Very showy; long spikes... **64590** 10
- “ **White.** Fine and attractive. **64600** 5
- “ **Mixed.**..... **64610** 5
- gloxinioides, Purple.**..... **64620** 10
- “ **Rose.** Bright, showy flowers borne profusely on fine spikes..... **64630** 10
- “ **White.** Very handsome, gloxinia-like flowers; robust; beautiful for cutting. **64640** 10
- “ **Mixed.** All the choice colors. . **64650** 10
- grandiflora lutea, Yellow.** Large-flowered; long racemes of bell-shaped blossoms; dwarf..... **64660** 10
- monstrosa, Splendid Mixed.** Very large, bell-shaped flowers of exquisite beauty, borne on long spikes. 4 ft..... **64680** 10
- FUCHSIA** (*Ladies' Eardrops*). The well-known spring-blooming greenhouse plants; also fine for the window-garden. As bedding plants they do splendidly in the summer if given partial shade and rich soil. Pkt.
- hybrida, Finest Single, Mixed.**..... **64790** 50
- “ **Finest Double, Mixed.**..... **64800** 50

- GAILLARDIA** (Blanket Flower). Both the annual and perennial varieties of Gaillardia are very showy and free bloomers all summer long until frost; good in any situation and easily grown. The individual flowers are of large size, very durable, and most brilliant in color; fine for bouquets. 2 to 3 ft. Pkt.
- Amblyodon.** hP. Fiery red..... **64870** 10
- † **grandiflora maxima.** hP. Golden yellow. 2½ ft..... **64890** 10
- “ **Extra-fine Mixed** (hP)..... **64910** 10
- All the following Picta sorts are most elegant annuals and well deserve very generous plantings.
- picta.** hA. Red and yellow; very brilliant. . Pkt. **64930** 5
- “ **Lorenziana.** Double; mixed colors; flowers large..... **64940** 5
- “ **salmonea.** Salmon-red; fine. **64950** 10
- “ **Mixed.** Finest colors..... **64960** 5

- GALEGA.** Ornamental, tall-growing, hardy perennials, well suited for borders or cutting; blooms all summer. 3 to 4 ft. Pkt.
- officinalis.** Blue..... **65000** 5
- “ **alba.** White..... **65010** 10
- GAURA Lindheimeri.** Free-flowering, hardy annual, very effective in clumps; red-tinted white flowers. 2 to 3 ft..... **65070** 10



Foxgloves





Gaillardia grandiflora

GENISTA canariensis. Ornamental and free-flowering tender perennial; yellow flowers. Pkt.
2 ft. 65090 10

GENTIANA. Showy hardy perennials, valued for their beautiful, intense blue flowers early in the season. Pkt.

acaulis (Blue Gentian). Dark blue. 3 in. 65100 10

GERANIUM. Most valuable greenhouse plants, blooming continuously. For bedding in the outdoor garden nothing equals them. 1½ ft. Pkt.

zonale. Scarlet. 65130 10

Apple-scented. Pink; fragrant foliage. 65150 25

Choice Mixed. 65152 25

See, also, Pelargonium.

GERBERA (Transvaal Daisy). Very pretty half-hardy perennials, fine for garden border and also winter forcing; grows about 2 feet in height and blooms all through the season. Pkt.

Jamesonii. Deep scarlet. (25 seeds in a packet.) 65180 25

“ **hybrida, New Hybrids.** Great diversity of colors, from pure white to dark red; fine for cutting. (25 seeds in a packet) 65190 30

GEUM. Handsome hardy perennials; bloom freely all season; fine for bouquets. 1½ ft. Pkt.

coccineum. Scarlet. 65240 10

atrosanguineum fl.-pl. Double; crimson. 65250 10

Mrs. J. Bradshaw. Large; brilliant scarlet. 65256 25

GILIA. Pretty hardy annuals that bloom most freely and continually the whole season. Do finely in any situation; look well on lawn and in beds; are good for rockeries, and can be planted at any time. 1 ft. Pkt.

capitata. Light blue. 65310 5

tricolor. Violet, yellow, and white ... 65360 5

Mixed. 65380 5

† **GLAUCIUM** (Horned Poppy). Showy, hardy perennial, with large, poppy-like flowers and glaucous-blue foliage; of easiest culture. 2 ft. Pkt.

tricolor. 65410 10

GLOBE AMARANTH. See Gomphrena.

GODETIA. Favorite, free-blooming, hardy annuals, with widely opened flowers of satiny texture, and of the most delicate and lovely colors. They are beautiful for solid beds, border lines, pots, and for growing in shaded places, where so few really fine flowers will flourish. Sow seed in the open border in spring, or in a cold-frame, and transplant seedlings to stand a foot apart in rather thin soil. *Fine for cut-flowers.* Average height, 1 ft. Pkt.

Bijou. Of dwarf, bushy habit; lovely bluish-white flowers borne in great profusion. 65450 5

Crimson Glow. Intense, dazzling crimson; fine, compact grower; very floriferous. 65460 15

Duchess of Albany. Satiny white. 65470 10

Fairy Queen. Large white flowers, with carmine spots. 65480 10

gloriosa (Lord Roberts). Darkest red; dwarf. 65490 10

Lady Albemarle. Dark crimson. 65510 10

Lady Satin Rose (*G. Whitneyi compacta, Brilliant*). Bright carmine. 65530 5

Rosamund. Large; glossy pink. 65560 10

rubicunda splendens. Brilliant red; fine. ... 65570 5

The Bride. White and crimson. 65580 5

Whitneyi, Brilliant. Carmine; very showy. 65610 5

Mixed, Tall Varieties. ... ¼oz. 20c. ... 65620 5

“ **Dwarf Varieties.** ¼oz. 25c., oz. 75c. ... 65630 5

GOLDEN FEATHER. See Pyrethrum.

GLOXINIA. Greenhouse plants with magnificent flowers of great brilliancy; very decorative. If the seed is started early in the season, the plants bloom the same summer; do best in light, rich soil; fine pot plants for the window garden. 1 to 1½ ft. Pkt.

hybrida grandiflora—

Mixed. 65670 50

robusta. 65675 50

crassifolia erecta, Mixed. 65680 50

Defiance. Glowing scarlet; superb; fine foliage. 65700 50

French Tigered and Spotted. Very rich colors; splendid. 65710 50

GOMPHRENA (Globe Amaranth). These well-known, hardy annuals are among the most popular of the Everlastings for dried winter bouquets; also well adapted for beds and edgings in the garden. Their round heads of flowers are also called Bachelor's Buttons. 1 ft. Pkt.

globosa rubra. Purplish red. 65750 5

“ **alba.** White. 65760 5

“ **carnea.** Flesh-pink. 65770 5

“ **variegata.** Striped. 65780 5

“ **Mixed.** 65810 5

GOURDS, Ornamental. hA. These rapid-growing, annual climbers have most luxuriant foliage and are excellent for covering verandas or trelliswork, and for training over arbors, fences, etc.; bear most curious fruit; the vines are immune from insect pests. 10 to 25 ft. Pkt.

Apple-shaped. A good sort. 65860 5

Bottle Gourd. 65870 5

Calabash (The Pipe Gourd) 65880 10

Dipper-shaped. 65890 5

Dish-cloth (Chinese Luffa). Interior useful as a sponge. 65900 5

GOURDS, continued

Egg-shaped. White, egg-like fruits...65910 Pkt. 5

Hercules' Club. Long, green fruits...65920 5

Knob-Kerrie Gourd. Green-and-yellow fruits; ball-shaped, with long handles.65930 10

Mock Orange. Orange-shaped fruits. One of the best known...65940 5

Pear-shaped. Very showy...65950 5

Sugar Trough....65960 5

Mixed. A fine assortment...65980 5

GREVILLEA robusta (Silk Oak). Graceful evergreen, greenhouse plant, easily raised from seed; fern-like foliage; fine for table decoration...66040 10

GUNNERA (Chilian Rhubarb). Hardy perennial decorative lawn plants; leaves gigantic, often 3 feet in diameter; flowers reddish purple. Need rich soil and plenty of water. 4 to 6 ft. Pkt.

manicata....66060 25

scabra....66070 25

GYPSOPHILA (Baby's Breath). Both the annual and perennial varieties are most easily grown; very graceful and delicate flowers and foliage; fine for rockwork or shrubbery and bouquets. 2 ft. Pkt.

elegans grandiflora alba. hA. Large-flowering; white...oz. 40c...66100 10

" **carminea.** hA. Rose-carmine; elegant...66110 10

" **rosea.** hA. Rose...66120 5

muralis. hA. Pink; dwarf; very fine. 6 in...66130 10

paniculata. hP. White; fine for bouquets...66150 10

" **fl.-pl.** hP. Fine clusters of double white flowers; rare; foliage very dainty and filmy; very fine for cutting...66160 50

†**HEDYSARUM.** Hardy biennials, with racemes of beautiful, pea-shaped flowers; adapted for borders and rockwork. Of the easiest culture. So-called "French Honeysuckle," but not related to that vine. Not a climber. 3 ft. Pkt.

coronarium. Scarlet...66240 5

" **album.** White...66250 5

HELENIUM autumnale superbum (Sneeze-wort). Late-flowering, hardy perennials; broad heads of elegant, golden yellow flowers; fine for cutting. 5 to 6 ft. ...66270 10

HELICHRYSUM (Eternal Flowers). A most popular, hardy annual; the flowers are large and the color bright; highly prized for winter bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with heads downward in cool and airy place. 1 to 2 ft. Pkt.

bracteatum. Single-flowering; yellow.66290 5

" **album.** White...66300 5

" **Mixed.**...¼oz. 25c...66330 5

monstrosum, Double Mixed....66340 10

" **Dwarf Double Mixed.**66350 10

HELIOPSIS Pitcheriana. This well-known hardy perennial is esteemed highly for the garden border and for cutting; bears beautiful golden yellow flowers all summer. 3 ft...66400 10

HELIOTROPIUM (Heliotrope). These favorite greenhouse and bedding plants are highly valued for their scented flowers; succeed best in light but rich soil; bloom first season from seed. 1½ ft.

HELIOTROPIUM, continued

peruvianum. Light blue...66430 10

White Lady. White; large flower...66450 10

Lemoine's Giant, Mixed. Very fine, large flowers...66460 15

Dark-flowered Sorts, Mixed....66470 10

Fine Mixed....66480 10

HELLEBORUS (Christmas Rose). These well-known, spring-flowering, hardy perennials thrive finely in any common soil, in a sheltered, semi-shady situation. 1 ft. Pkt.

niger. White...66560 10

Mixed Hybrids. Very fine...66570 25

HESPERIS. See Rocket.

HEUCHERA. Compact-growing, hardy perennials, with erect spikes of brilliant flowers; fine for the border, blooming all summer; nothing more desirable for cut-flowers. 1 ft. Pkt.

sanguinea. Crimson; fine for pots and cutting...66600 15

" **splendens.** Dark red; splendid...66610 25

" **hybrida, Mixed.** Many effective varieties...66620 15

HIBISCUS (Mallow). All the species bear very showy flowers and are easily grown; should be employed largely in every garden. Pkt.

africanus. hA. Free-flowering, fine annual; flowers yellow and purple. 2 ft...66640 5

coccineus (speciosus). gS. Large rose-red flowers...66645 10

Crimson Eye. †hP. White and crimson; splendid in borders. 4 ft...66650 10

Golden Bowl. hP. Very large flowers of a deep rich cream-color, with velvety maroon center...66655 10

moscheutos roseus. hP. Large rose-colored flowers. 4 ft...66670 10

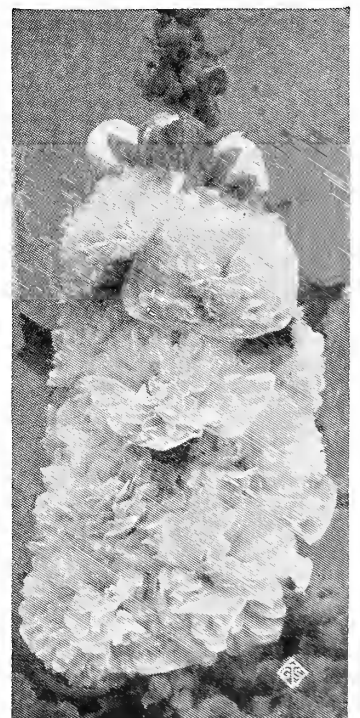
HOLLYHOCKS (*Althæa rosea*). Although Hollyhocks are very permanent and hardy for the first winter, it is advisable to sow seed every year of these splendid, hardy perennials, as the flowers on young, vigorous plants are much finer than on old ones. Sowings should be made in April or May, and not later than June, to flower the next year. In final transplanting give each seedling a foot or more space each way for development. They succeed best in an ordinary deep, rich soil. They make a glorious show in the garden with their splendid spires of flowers. Water well in dry weather. Average height, 6 ft. Pkt.

Bright Pink....¼oz. 60c...66710 10

Bright Rose....¼oz. 60c...66720 10

Bright Scarlet....¼oz. 60c...66730 10

Crimson....¼oz. 60c...66755 10



Double Hollyhock



Imperial Japanese Morning-Glory

- HOLLYHOCKS**, continued
- | | | | |
|-----------------------------------|----------------|-------|---------|
| Maroon | 1/4 oz. 60c... | 66780 | Pkt. 10 |
| Salmon | 1/4 oz. 60c... | 66790 | 10 |
| Snow-White | 1/4 oz. 60c... | 66800 | 10 |
| Yellow | 1/4 oz. 60c... | 66810 | 10 |
| Mixed Double | 1/4 oz. 60c... | 66820 | 10 |
| “ Allegheny, Fringed | 1/4 oz. 75c... | 66830 | 15 |
| “ Single | 1/4 oz. 50c... | 66840 | 5 |
- † **HONESTY** (*Lunaria biennis*). Hardy biennial, with silvery seed-vessels; prized for winter decorations. 2 ft. Pkt.
- Purple**.....66920 10
- HORNED POPPY**. See Glaucium.
- HUMEA**. Half-hardy biennial; white, sweet-scented flowers; keep in pots the first season, then plant out in garden border. 5 ft. Pkt.
- elegans**.....66940 15
- † **HUMULUS** (Climbing Hop). The well-known, fast-growing, hardy annual climber. 15 to 20 ft. Pkt.
- japonicus** (Japanese Hop). Beautifully cut green foliage; makes fine shade. oz. 60c...66960 5
- “ **variegatus**. With white-variegated leaves; fine..... 1/4 oz. 25c., oz. 75c...66970 10
- HUNNEMANNIA fumariæfolia**. Very showy, hardy annual, with large golden yellow flowers and feathery, glaucous foliage. 1 1/2 ft.....66980 10
- IBERIS**. See Candytuft.
- ICE PLANT** (*Mesembryanthemum crystallinum*). Half-hardy annual; its succulent leaves are covered with watery vesicles resembling pieces of ice; white flowers. 6 in.....67040 5

- IMPATIENS** (Touch-Me-Not). Charming greenhouse and window-garden plants that bloom profusely and almost continuously. Good also for bedding. 1 to 1 1/2 ft. Pkt.
- Holstii**. Large vermilion flowers; quick grower; splendid.....67060 25
- “ **hybrida, Mixed**. Finest colors... 67070 25
- Sultani**. Bright, rosy carmine; fine for pots.....67080 25
- “ **hybrida, Mixed**. Splendid mixture.....67100 25
- glanduligera**. tA. Purple flowers; bright foliage.....67110 10
- * **INCARVILLEA**. Ornamental, hardy perennials, with brilliant, gloxinia-like flowers; continuous bloomers; succeed well in any situation, and make a fine show in the garden. 2 to 3 ft. Pkt.
- Delavayi**. Rosy carmine; splendid border plant.....67130 25
- † **IONOPSIDIUM** (Diamond Flower). hhP.
- acaule, White**. Pretty.....67180 25
- “ **Lilac**.....67185 25
- † **IPOMCEA** (Moonflower; Morning-Glory; Cypress Vine). Of all climbers for garden and greenhouse these are the quickest and most luxuriant in growth. Ipomœas grow so easily from annual sowings that it is no longer thought necessary to winter over roots or young cutting plants under glass. The large, thorny seeds of some varieties should be soaked in hot water before planting. For early flowers sow in hotbeds, or pots and boxes under glass, and transplant to rich, deep soil in summer quarters as soon as danger of frost is over, when sowings may also be made in the open ground. Nothing finer for porches, trellises, etc.
- ANNUAL VARIETIES**. From early sowings these begin to bloom about midsummer, and are full of beautiful flowers all the season, often blooming freely until cut down by frost.
- * **bona nox**. (Good Night; Evening-Glory). Pkt. Large, blue flowers open in the evening. 15 ft.....67200 5
- coccinea**. Scarlet flowers. 10 ft....67210 5
- hederacea grandiflora superba**. Rich sky-blue flowers with white margins. 15 ft.....67230 5
- IMPERIAL JAPANESE MORNING-GLORY**. The leaves are mostly plain green, but some are oddly blotched with white or yellow. Flowers vary from pure white to carmine, through blues and purples of every shade. 30 to 40 ft. Pkt.
- Finest Single Mixed**. Large flowered; all colors.....67260 5
- Fringed Single Mixed**. All beautifully fringed.....67270 5
- Double-flowered, Mixed**. Superb mixture of double sorts.....67280 15
- Giant Mikado**. Largest flowered..67290 10
- limbata**. Violet and white. 5 ft....67320 5
- * **mexicana grandiflora alba**. Great white Moonflower; 15 ft.....67330 10
- “ **grandiflora hybrida alba**. Flowers very large and numerous. 15 ft.....67340 10
- “ **grandiflora hybrida** (Giant Pink Moonflower). Pink.67345 10

IPOMOEA, continued

rubro-cærulea, Heavenly Blue. The very large, clustered flowers of beautiful sky-blue open early in the morning. Distinct and handsome. Sow early. 10 ft. 67370 Pkt. 10

rubro-cærulea 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 about midsummer until frost. Flowers remain open all day. 15 to 18 ft. 67390 Pkt. 15

Quamoclit (Cypress Vine; Star Flower). A tender annual, with finely cut leaves and small, star-shaped flowers. This, the type, is scarlet-flowered. 10 ft. 67430 Pkt. 5

QUAMOCLIT HYBRIDA—CARDINAL CLIMBER. One of the best annual climbers introduced for many years. Rapid grower, with branching habit; flowers all summer in fiery cardinal-red clusters. 25 ft. 67440 Pkt. 25
White. 67460 Pkt. 5
Mixed Cypress Vine. 67470 Pkt. 5

setosa (Brazilian Morning-Glory). A greenhouse climber. 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 center. The red pubescent stems and seed-pods add to its attractiveness. 10 to 20 ft. 67530 Pkt. 10

IPOMOPSIS. Showy and beautiful, tender biennials; the seeds should be started in the house; flowers very bright in color. 2 ft. Pkt. 10
elegans, Mixed. 67590 Pkt. 10

IRIS Kaempferi. These most desirable, hardy, herbaceous perennials begin to bloom the second year from seed. Our assortment is saved from a fine collection. 2 ft. 67620 Pkt. 10

JACOB'S LADDER (Polemonium). Beautiful, old-fashioned, hardy perennial border plants; flowers in clusters. 2 ft. Pkt. 5
Blue. 67650 Pkt. 5
White. 67660 Pkt. 5

JACOBÆA (Senecio). Very free-flowering, hardy annuals of easy culture; good for both pots and bedding. 1 to 1½ ft. Pkt. 5
elegans fl.-pl., Tall Double, White. 67680 Pkt. 5
 " " " " **Purple.** 67690 Pkt. 5
 " " " " **Mixed.** 67700 Pkt. 5

JOB'S TEARS. See *Coix Lacrymæ*, page 108.

JOSEPH'S COAT. See *Amarantus*.

KAULFUSSIA. Hardy annual, succeeding well in any good soil; fine for edgings and pots; good habit and bright colors. 1 ft. Pkt. 10
amelloides. Blue. 67770 Pkt. 10
 " **Kermesina.** Violet-red. 67790 Pkt. 10
 " **Mixed.** 67800 Pkt. 10

KENILWORTH IVY. See *Linaria*.

KOCHIA trichophylla (Improved Summer Cypress). A rapid-growing, hardy annual; foliage green, turning to fiery red in autumn; very ornamental on the lawn. 2 to 3 ft. 5
 ½oz. 25c., oz. 40c. 67860 Pkt. 5

‡**KUDZU VINE** (*Pueraria Thunbergiana*). A perennial climber from Japan; fine when once established, often growing 40 feet in a season. Purplish violet, fragrant, wisteria-like flowers; good foliage. 67880 Pkt. 10

†**LANTANA, Fine Mixed.** Rapid-growing, tender perennial, forming small bushy shrubs; fine for bedding and pot culture. 2 ft. 67930 Pkt. 5

LARKSPUR. See *Delphinium*.

LATHYRUS latifolius (Perennial Pea). hP. These have not the fragrance of sweet peas, but bloom through a long season; are hardy and will live for years; they make a beautiful screen for rocks, stumps, fences, etc. 4 to 8 ft. Pkt. 10

Crimson. Beautiful shade. 68000 Pkt. 10

Pink Beauty. Blossoms white, veined, edged and shaded pink. 68010 Pkt. 10

White. Valuable for cut-flowers in mid-summer. 68020 Pkt. 10

Mixed. oz. 60c. 68025 Pkt. 10

LAVATERA. Very showy and free-flowering; splendid for large beds in the garden, where they bloom all summer; fine for cut-flowers. Pkt. 5

trimestris. hA. Red; makes a brilliant show in the garden. 2½ ft. 68080 Pkt. 5

" **alba.** hA. White. 68090 Pkt. 5

arborea (Tree Mallow). hB. Purple. 6 ft. 68100 Pkt. 5

LAYIA elegans. Pretty, dwarf-growing, hardy annual, with yellow-and-white flowers; of easiest culture. 1 ft. 68140 Pkt. 10

LEMON VERBENA. See *Verbena*.

LEPTOSIPHON. Elegant, hardy annuals, and should be in every garden; fine for edgings or rockeries; blooms in masses. 1 ft. Pkt. 10

androsaceus. Lilac. 68200 Pkt. 10

" **albus.** White. 68210 Pkt. 10

densiflorus. Blue. 68240 Pkt. 10

" **albus.** White. 68250 Pkt. 10

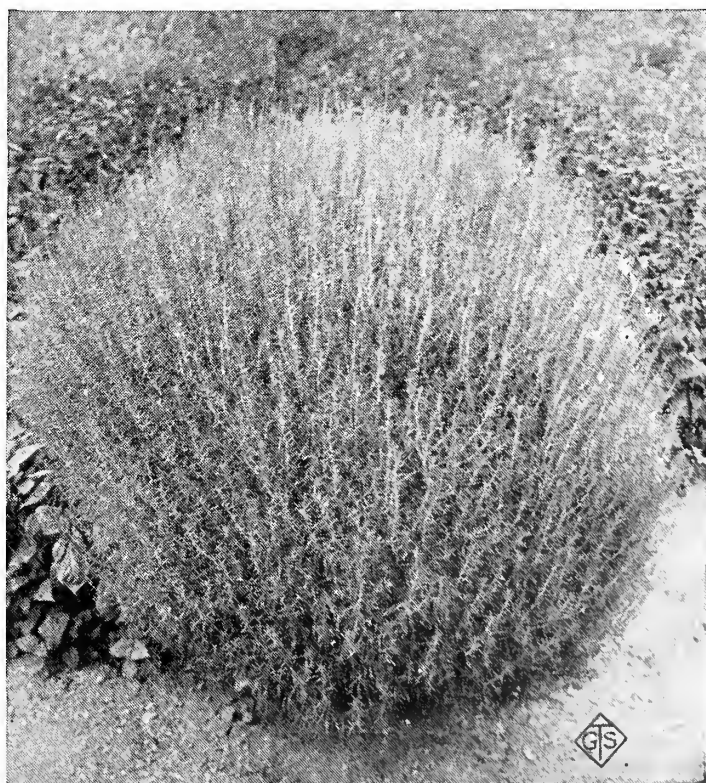
Mixed Hybrids. 68260 Pkt. 10

LEPTOSYNE. Fragrant, half-hardy annuals; large marguerite-like flowers on long stems, good for cutting. 1 to 2 ft. Pkt. 10

maritima. Yellow. 68290 Pkt. 10

Stillmanii. Golden yellow; blooms six weeks after sowing. 68300 Pkt. 10

LIMNANTHES Douglasii. A vigorous, dwarf-growing, hardy annual, with yellow and white, fragrant flowers. 1 ft. 68350 Pkt. 10



Kochia trichophylla



Lupinus polyphyllus

LINARIA (Toad Flax). Snapdragon-shaped flowers, fine for cutting. The dwarf-growing varieties are desirable for edgings and rockwork; all of the easiest culture.

- | | | |
|--|-------|----|
| bipartita. Purple. 1 ft..... | 68390 | 5 |
| “ Fine Mixed. | 68405 | 5 |
| maroccana. hA. Purple. 9 in..... | 68410 | 5 |
| “ Mixed Hybrids. hA. Very fine. 9 in..... | 68420 | 10 |
| Cymbalaria (Kenilworth Ivy). hP. Charming, hardy perennial, trailing plants for baskets, rockwork, etc..... | 68430 | 10 |

LINUM (Flax). Pretty, free-flowering garden plants of easy cultivation.

- | | | |
|--|-------|---|
| grandiflorum rubrum. hA. The favorite Scarlet Flax. Large-flowered. 1 ft..... | 68480 | 5 |
| “ Blue. Pretty..... | 68485 | 5 |
| perenne. A graceful hardy perennial; color blue. 2 ft..... | 68495 | 5 |

LOBELIA. The Erinus varieties bloom very quickly from seed and flower all through the season. For beds, edgings, baskets and pots there is nothing prettier. Sow outdoors in early spring where the plants are to grow, and thin moderately; or transplant several inches apart in rich, open soil. Some stimulant given when they are in bloom greatly improves the flowers. Almost all are also good winter conservatory plants of trailing habit. The perennial or tall varieties are handsome, showy plants and will be found quite effective for backgrounds and grouping.

- | | |
|---|----------|
| ERINUS VARIETIES. tA. | Pkt. |
| gracilis. Blue; trailing; beautiful for baskets..... | 68570 5 |
| speciosa, Crystal Palace. A favorite blue-flowered edging plant. 6 in..... | 68580 10 |
| alba. White flowers..... | 68610 10 |

- | | |
|--|----------|
| LOBELIA ERINUS, continued | Pkt. |
| Kermesina. Crimson..... | 68620 10 |
| Lindleyana. Rose, white eye..... | 68630 10 |
| Barnard's Perpetual. Deep blue, with white eye; very fine..... | 68650 10 |
| Royal Purple. Deep blue, with a distinct white eye..... | 68660 10 |
| Mixed. | 68670 10 |
| erecta, Crystal Palace compacta. Dark blue; for bedding. 6 in.... | 68690 20 |
| “ Emperor William. Light blue; very fine..... | 68700 20 |
| “ Golden Queen. Dwarf; blue flowers, yellow leaves; very fine sort..... | 68710 25 |
| “ White Lady. Splendid, large-flowered white..... | 68720 10 |
| ramosa. Blue; flowers profusely in fall. 1½ ft..... | 68760 10 |
| ramosa, Mixed. | 68765 10 |

PERENNIAL VARIETIES—

- cardinalis** (Cardinal Flower). Standing bold and erect with its crimson-scarlet flowers, this handsome, native perennial Lobelia is invaluable for the border or grouping among evergreens. 2½ ft. 68780 10
- Tupa.** Flowers crimson; strong-growing perennial suitable for border. 8 to 10 ft..... 68815 15

‡**LOPHOSPERMUM scandens.** A splendid, tender annual climber, with trumpet-shaped, dark rose flowers. 10 ft.... 68840 10

LOVE-LIES-BLEEDING. See *Amarantus caudatus*.

LOVE-IN-A-MIST (*Nigella*). Pretty and ornamental, hardy annuals, with feathery fennel-like foliage and curious flowers; of easiest culture. Also called “Devil-in-a-Bush.” 1 to 1½ ft. Pkt.

- | | |
|---|----------|
| Double Blue. | 68890 5 |
| Double White. | 68900 5 |
| Miss Jekyll. Beautiful; double; cornflower-blue..... | 68910 10 |
| Blue Spanish. | 68930 5 |
| White Spanish. | 68940 5 |
| Mixed, All Sorts.oz. 30c... | 68970 5 |

LUPINUS (*Lupine*)

ANNUAL VARIETIES. These garden favorites are among the most beautiful of our hardy annuals; extremely varied in color, of the easiest culture, and bloom all summer. Splendid for beds, borders, and backgrounds. 2 to 3 ft. Pkt.

- | | |
|--|---------|
| Cruikshanksii. Blue, white, and yellow..... | 69000 5 |
| Hartwegii. Blue..... | 69010 5 |
| “ albus. White..... | 69020 5 |
| “ roseus. Rose..... | 69030 5 |
| hirsutus. Blue; large flower..... | 69050 5 |
| “ albus. White..... | 69060 5 |
| “ ruber. Red..... | 69070 5 |
| mutabilis. White, yellow, and violet; sweet scented..... | 69100 5 |
| nanus. Dwarf; blue; fine for growing in front of tall sorts. (See cut page 88)... | 69110 5 |
| Mixed.oz. 30c... | 69130 5 |

PERENNIAL VARIETIES. The hardy perennial varieties of the Lupines are extremely handsome and stately, bearing their beautiful flowers of rose, white, blue, and yellow on erect, graceful spikes that are more than a foot in length. They are certainly among the most striking of hardy perennials; grow very

LUPINUS, PERENNIAL, continued

compactly about 3 to 5 feet in height, and bloom continuously and profusely during the summer. They are excellent for grouping or massing in separate colors, and they suit themselves to almost any position in the border, making a good cut-flower, and of easy culture, requiring ordinary moist soil, deep as possible, but well drained, with plenty of old stable manure, in any open, sunny position. Sow seeds in April in their permanent places, transplanting or thinning as may be required. Pkt.

- arboreus.** Yellow Tree Lupine.....69160 10
- “ **albus (Snow Queen).** Pure white; very fine.....69170 25
- polyphyllus.** Blue.....69200 5
- “ **albus.** White.....69210 5
- “ **Mørheimii.** Rose and white; of rather dwarf habit; very beautiful.....69230 25
- “ **roseus.** Rose; magnificent... 69240 25
- “ **Mixed**.....69260 5
- tricolor elegans.** Orange, rose and white.. 69280 5

†**LYCHNIS.** Free-flowering, hardy perennials, with brilliantly colored flowers; excellent for massing in beds and borders. Pkt.

- chalcedonica.** Scarlet. 2 ft.....69330 5
- “ **alba.** White.....69340 5
- Haageana hybrida, Mixed.** Fine colors. 1 ft.....69360 10
- Arkwrightii.** A cross between *L. chalcedonica* and *L. Haageana*; many new and lovely colors. If sown early will flower in autumn. 1 to 2 ft.....69370 30

MALLOW. See Hibiscus.

MALOPE. Very pretty, free-blooming, hardy annuals with mallow-like flowers. Sow the seed early; good for beds and borders. 2 to 3 ft. Pkt.

- grandiflora alba.** White.....69440 5
- “ **rosea.** Rose.....69450 5
- “ **rubra.** Red.....69460 5
- “ **Mixed**.....69470 5

MALVA. Handsome garden plants that bloom continuously all summer and are very fine for cut-flowers. Pkt.

- moschata alba** (Musk Mallow). †hP. White; fragrant. 2 ft.....69500 10
- “ **rosea.** †hP. Rose-flowered variety; fine.....69510 10

MANDEVILLEA suaveolens. gP. This fine greenhouse climber has deliciously sweet and beautiful, snowy white flowers. 10 ft.....69530 10

MARIGOLD (Tagetes). These, like the calendulas, are valuable because they light the garden with such a grand glitter of yellow far into the frosts of autumn. The dwarf varieties make a fine border for taller sorts, and both are effective when planted in groups or in garden borders. Hardy annuals. Average height, 1 to 2 ft. *All our own special strains, vastly different from the ordinary sorts commonly sold.*

- AFRICAN VARIETIES—** Pkt.
- Eldorado.** Large, quilled, perfectly double; brilliant shades of yellow.....69570 5
 - Lemon Queen.** Very rich lemon-yellow.....69580 5



African Marigold

MARIGOLD, AFRICAN, continued

- Orange.** Rich.....69590 5
- Pride of the Garden.** Extra-large, double flowers of richest yellow; dwarf and neat.....69600 10
- Prince of Orange.** Beautiful orange-color.....69610 5
- Mixed Double.** ¼oz. 25c., oz. 75c...69620 5

FRENCH VARIETIES—

- Tall Dark Brown.** Reddish brown; extremely floriferous.....69640 5
- Dwarf Striped.** Flowers handsomely marked.....69650 10
- “ **Dark Brown.** Beautiful reddish brown.....69660 10
- “ **Legion of Honor (Little Brownie).** Single; golden yellow marked velvety red.....69670 10
- Tall Mixed, Double**..... ¼oz. 25c., oz. 75c...69680 5
- Dwarf Mixed, Double**..... ¼oz. 25c., oz. 75c...69690 5

See, also, Calendula.

MARTYNIA. Curious and handsome, half-hardy annuals for the border, with bright flowers, borne in profusion and followed by quaint pods which are used for pickling. 1½ ft. Pkt.

- proboscidea.** Reddish white.....69790 5

MARVEL OF PERU. See Four o’Clock.

MATHIOLA bicornis. A charming little annual of no particular beauty, but it has a most delicious odor perceptible at a considerable distance and in the evening permeating the whole of the atmosphere surrounding it with its delightful fragrance.....69820 10

MATRICARIA. Free-flowering, hardy annuals, with a profusion of dainty flowers; bloom all summer; good for bedding or pots. 1½ ft. Pkt.

- capensis fl.-pl.** (Feverfew). Small, double, white flowers; pretty and neat.....69830 5
- eximia, Golden Ball.** Golden yellow; fine for pots.....69840 15
- “ **fl.-pl.** Double; white.....69850 5

‡†**MAURANDYA**. Rapid-growing, half-hardy perennial climbers that can be treated as annuals. Fine for garden or greenhouse; bloom all summer in hanging-baskets and vases or on trellises. 10 ft. Pkt.

Barclayana . Blue.....	69880	10
" alba . White.....	69890	10
purpurea grandiflora . Purple.....	69910	10
Mixed	69920	10

MELILOTUS cærulea. Ornamental, hardy annual like the lotus; sweet-scented, blue flowers; good for bees. 2 ft..... 69970 5

‡**MELOTHRIA scabra**. An interesting, half-hardy annual tropical vine with light blue flowers. 10 ft..... 69990 10

MESEMBRYANTHEMUM. These beautiful, half-hardy annuals flower profusely in dry and sunny situations; fine as edging plants. 6 in. Pkt.

cordifolium variegatum. Rose; cream foliage; very dwarf; a fine variety for carpet bedding or for edging and for rockwork..... 70020 15

crystallinum. See Ice Plant.

tricolor. Crimson, pink, and white; fine in dry situations..... 70030 5

MIGNONETTE (*Reseda odorata*). Seed of this popular, hardy annual can be sown at any time, and if successive sowings are made its fragrant, modest-colored flowers may be gathered outdoors until November. Sow in pots or boxes under glass in February or March, and thin or pot off the seedlings to make good plants for bedding out in April. Sow outdoors in rows



Mignonette

MIGNONETTE, continued

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. 1 ft. Pkt.

Reseda odorata grandiflora (Sweet Mignonette).....oz. 25c... 70060 5

Allen's Defiance. Spikes of great length; very fragrant and fine for cutting. 1½ ft. ¼oz. 25c., oz. 75c... 70070 10

Crimson Giant (ameliorata). Red-flowered..... 70080 5

Golden Queen. Golden yellow..... 70120 10

Goliath. Red; enormous spikes; striking; very sweet-scented..... 70130 15

Machet, Dwarf. Deep red..... 70140 10

 " " **Golden**..... 70160 10

 " " **Ruby (Rubin)**. Very fine strain of Machet, with coppery scarlet flowers..... 70170 10

 " " **White Pearl**. The best white variety... 70180 15

Miles' Spiral. 1 ft..... 70190 5

MIMOSA pudica (Sensitive Plant). A curious and interesting half-hardy annual, with pinkish flowers; leaves close when touched. 1½ ft..... 70280 10

†**MIMULUS** (Monkey Flower). Showy, half-hardy perennial; do best in a moist situation in the garden; easily grown. 1 ft. Pkt.

cardinalis. Scarlet..... 70300 10

cupreus, Mixed..... 70310 10

moschatus (Musk Plant). Yellow; fragrant foliage..... 70320 10

 " **compactus**. Yellow; dwarf.... 70330 15

tigrinus. Tigered and spotted varieties.... 70350 10

 " **grandiflorus (Queen's Prize)**. Large-flowered variety of above..... 70360 25

‡**MINA lobata**. A beautiful and free-flowering, half-hardy annual climber, with scarlet-and-yellow flowers. 15 ft..... 70380 10

MIRABILIS. See Four o'Clock.

‡**MOMORDICA**. Handsome and ornamental, climbing, half-hardy annuals with yellow flowers; fine for covering rockwork, trellises, etc. 10 ft. Pkt.

Balsamina (Balsam Apple). Apple-shaped fruit; glossy, green foliage, often used for its medicinal qualities..... 70420 5

Charantia (Balsam Pear). Pear-shaped fruit; heavy green foliage..... 70430 5

Elaterium (Squirting Cucumber). The oblong fruits eject their seed at the slightest touch..... 70440 5

MONK'S HOOD. See Aconitum.

MONKEY FLOWER. See Mimulus.

MOONFLOWER. See Ipomœa mexicana.

MORNING-GLORY. See Convolvulus and Ipomœa.

MOURNING BRIDE. See Scabiosa.

MUSK PLANT. See Mimulus moschatus.

MYOSOTIS. See Forget-me-not.

NASTURTIUM

We do not sell less than 1 ounce of any one kind by weight

A marvelous range of new colors has been developed in this favorite flower which, for three or four months of the season, makes a better display than almost any other plant. No other hardy annual will produce such a lavish profusion of flowers for so long a time with the same small outlay of time and labor. The maximum of bloom is produced on thin soils, and never flags through the hottest weather. In soils too rich, leaves predominate, and the plants are apt to rot off in wet weather, especially if standing too close.

All 30 cts. per oz., except where quoted otherwise

DWARF or TOM THUMB (*Tropæolum nanum*).

These have a neat, compact habit and attractive foliage; they bloom in two months from sowing, and most profusely the whole season. 1 ft. Pkt.

- Beauty.** Yellow and scarlet.....70600 10
- Bronze-color.** Distinct.....70610 10
- Chameleon.** Mottled crimson, bronze, and yellow; very fine.....70620 10
- Crystal Palace Gem.** Yellow and carmine.....70640 10
- Deep Scarlet**.....70645 10
- Empress of India.** Deep crimson; fine dark foliage.....70650 10
- Golden Cloth.** Golden yellow leaves; scarlet flowers.....70660 10
- Golden King.** Golden yellow.....70670 10
- King of Tom Thumbs.** Scarlet; fine color.....70680 10
- King Theodore.** Black, velvety; darkest of all.....70690 10
- Queen of Tom Thumb.** (Original Queen.) Brilliant crimson with white-veined variegated-leaved foliage.....70725 10
- Queen of Tom Thumb, Mixed.** Splendid range of colors of variegated-leaved sorts.. 70760 10
- Ruby King.** Ruby-red; large flowers; dark-leaved; fine and very profuse.....70780 10
- Vesuvius.** Salmon-rose; extra-large flowers in profusion; fine.....70790 10
- White, or Pearl (Moonlight)**.....70800 10
- Mixed, Golden-leaved Sorts**.....70820 10
- " Ivy-leaved**.....70822 10
- " All Sorts.** oz. 20c., ¼lb. 60c., ½lb. \$1.10, lb. \$2.....70840 10

- Variegated-leaved, Mixed.** Beautifully variegated foliage; distinct and charming.....71110 20 10
- Ivy-leaved, Tall Mixed**.....71115 20 10
- Fine Mixed**.....71120 15 10
- ¼lb. 50c., ½lb. 80c., lb. \$1.50



Thorburn's Nasturtiums

TALL or CLIMBING (*Tropæolum majus*).

Besides their ordinary garden use for trailing over fences, trellises, stone walls, etc., these can also be grown as pot plants for winter flowering, as screens, or as trailers for hanging-baskets and vases. 8 to 12 ft.

- Chameleon.** Various colors.....70910 20 10
- Dark Crimson**.....70920 20 10
- Edward Otto.** Brownish lilac.....70940 20 10
- hemisphæricum.** Orange.....70970 20 10
- King Theodore.** Black.....70990 20 10
- Pearl (Moonlight).** Whitish.....71010 20 10
- Scarlet**.....71020 20 10
- Scheuerianum, Spotted**.....71030 20 10
- " coccineum.** Scarlet striped.....71040 20 10
- Sunlight (Dunnett's Orange).** Rich golden yellow; flowers nearly 3 inches across.....71070 20 10
- Vesuvius.** Large flowers; salmon; dark-leaved.....71080 20 10
- Yellow (luteum)**.....71090 20 10

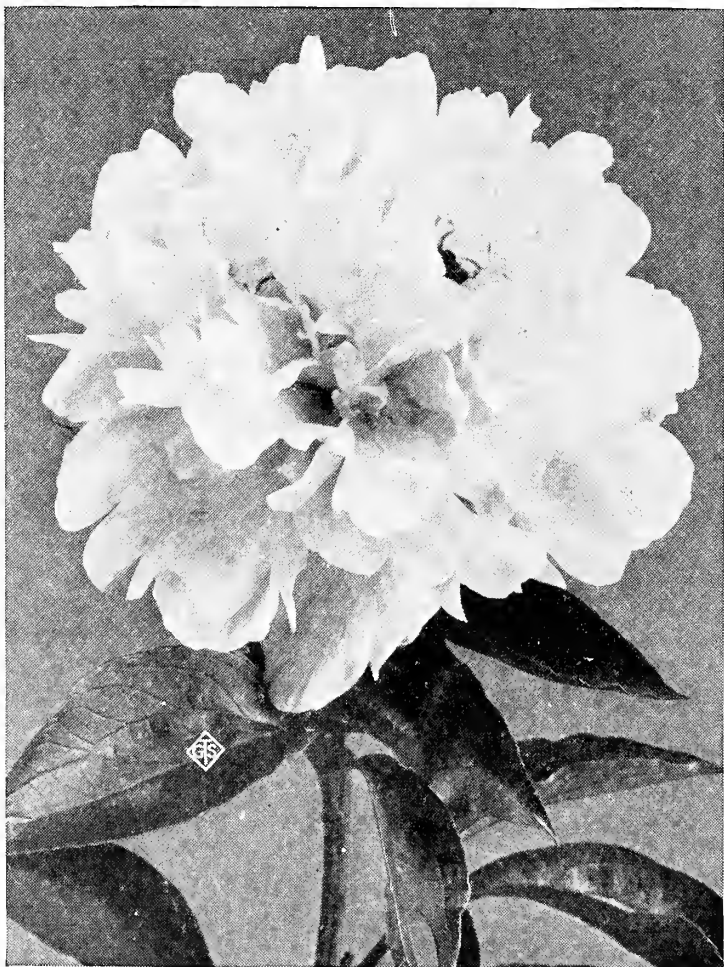
NASTURTIUM, continued

LOBB'S CLIMBING (*Tropæolum Lobbianum*).

This class is remarkable for the intensely brilliant colors of its flowers. In moderately rich soil they climb high and bloom brilliantly. Average height, 6 ft.

	Oz.	Pkt.
Blood-Red	71190	15 5
Firefly. Dark orange-yellow, spotted bright scarlet; dark-leaved.....	71210	15 5
Geant des Batailles. Light yellow, with bright red spots.....	71230	15 5
Ivy-leaved, Mixed	71260	15 5
Lilliput, Baby Rose. White and soft pink. A splendid variety.....	71270	15 5
Lilliput, Snow Queen. Cream-white, very delicate tint.....	71290	15 5
Lily Schmidt (Victoria). Scarlet...	71280	15 5
Lucifer. Dark scarlet; dark leaves...	71300	15 5
Spitfire. Brilliant scarlet. Very fine...	71310	15 5
Queen Wilhelmina. Queen of the Lobb varieties. The foliage is veined and marbled white, setting off the rich rosy scarlet flowers to great advantage. One of the most effective of the list.....	71320	15 5
Madame Gunther Hybrids. A French strain noted for wide range of colors...	71330	15 5
fimbriatum, Mixed. Fringed sorts, mixed. ¼lb. 55c...	71340	15 5
Finest Mixture		
¼lb. 35c., ½lb. 65c., lb. \$1.25...	71350	10 5

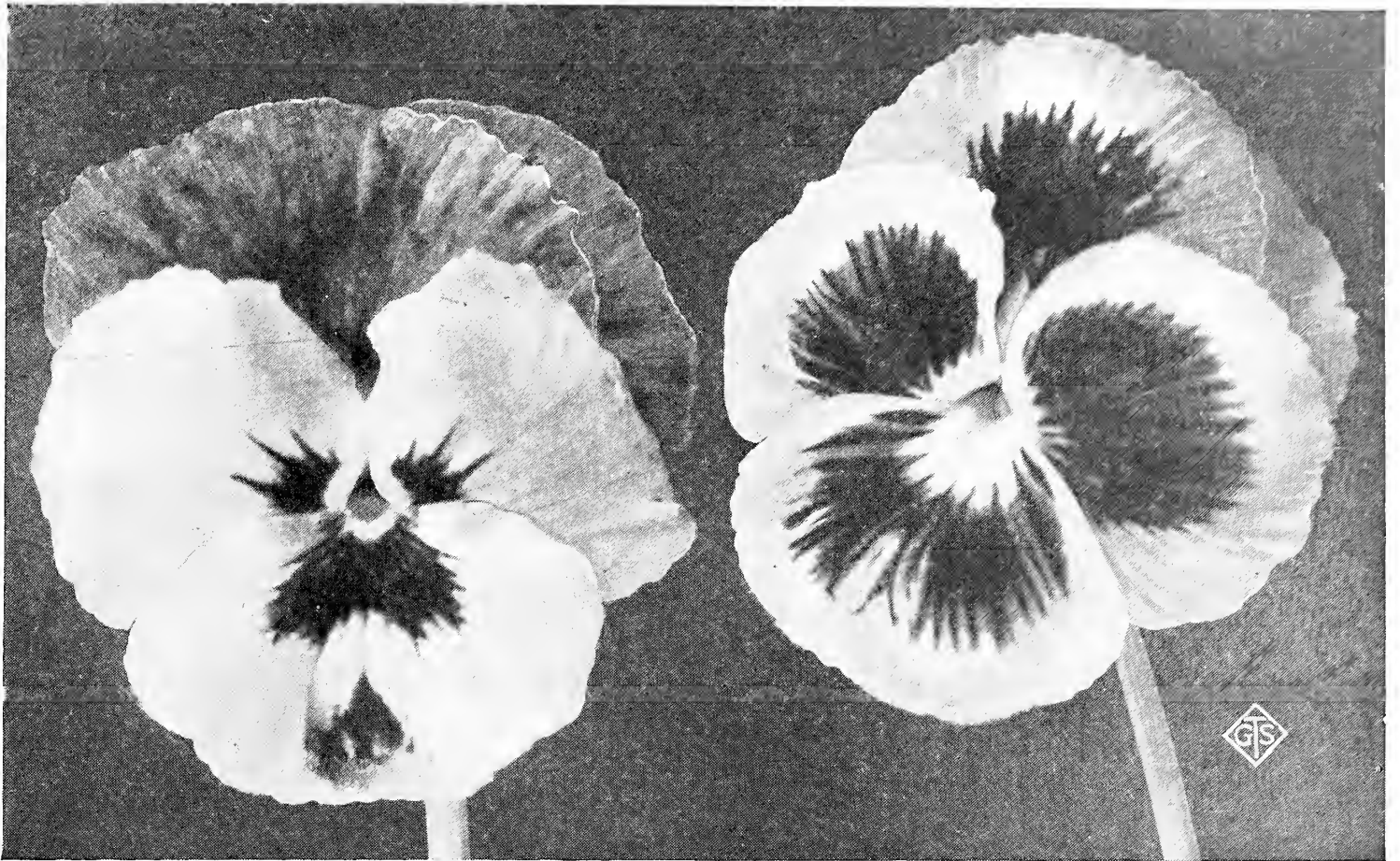
NEMESIA. Very pretty and neat-flowering hardy annual for edgings; attractive, bright-colored flowers. 1 ft.



Pæonia chinensis

NEMESIA, continued

compacta alba (White Gem). White; Pkt. attractive fresh green foliage.....	71460	10
“ cærulea (Blue Gem). Blue flowers borne in the greatest profusion.....	71470	10
strumosa Suttonii grandiflora. Many rich and rare colors; flowers large; foliage beautiful.....	71480	25
NEMOPHILA. Very pretty, dwarf-growing, hardy annuals of easy culture; continuous bloomers; cup-shaped flowers of brightest colors. Good in pots, edgings, rockeries or beds; moist soil and partial shade is favorable for them. 1 ft. Pkt.		
atomaria. White and purple.....	71500	5
crambeoides. Pale blue.....	71510	5
discoidalis. Black-brown, white-margined...	71520	5
insignis. Sky-blue.....	71530	5
“ alba. White.....	71540	5
“ marginata. Blue, mottled white.	71550	5
maculata. Lilac-white, brown-spotted.	71560	5
Mixedoz. 30c...	71580	5
NICOTIANA. Species of tobacco. Showy and free-blooming half-hardy annuals; great garden favorites; in flower all summer; tubular-shaped flowers. 3 ft. Pkt.		
affinis. White; very fragrant.....	71650	5
“ hybrida. Beautiful shades, mixed.	71660	10
Sanderæ Hybrids. Many brilliant colors...	71680	10
“ Purple-Carmine	71685	10
sylvestris. Large clusters of white flowers; sweet-scented. 4 ft.....	71690	10
NIEREMBERGIA. Pretty half-hardy perennials of slender growth that bloom freely the first year from seed; cup-shaped flowers. Fine for edgings or hanging-baskets. 1 ft. Pkt.		
gracilis. Lilac and white.....	71710	10
frutescens. White, tinted with lilac.	71720	10
NIGELLA. See Love-in-a-Mist.		
NOLANA. When in flower these hardy annuals are very showy, and are fine for the garden border; of trailing habit. 1 ft. Pkt.		
atriplicifolia. Blue.....	71750	5
“ grandiflora alba. White; large-flowered.....	71760	5
Mixed	71780	5
NYCTERINIA. Pretty half-hardy annuals, forming dwarf, compact plants; excellent for beds and borders. 9 in. Pkt.		
capensis. White; fragrant in evening.	71810	10
selaginoides. White, flushed lilac; graceful.....	71820	10
ŒNOTHERA. See Evening Primrose.		
PÆONIA. Among hardy perennial plants none are more prized than the Peonies with their large and handsome blooms. 2 to 3 ft. Pkt.		
officinalis. Red; single-flowered.....	71960	5
chinensis, Mixed. Fine double varieties...	71970	10



Thorburn's Superb Pansies

PANSY (*Viola tricolor*; Heartsease)

OUR STRAINS HAVE NEVER BEEN EXCELLED

The Pansy is a plant that we all delight to grow in plentiful supply for flowers all the year. For very early outdoor bedding the seed is sown from August to October, in a coldframe, or in rich, moist garden beds, from which the plants can be transferred to a coldframe, setting them 2 to 3 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, and make a glorious show in the garden. Through summer heat the flowers are finer in a somewhat shaded place, but in almost any situation good Pansy seed will give fine flowers in spring and fall. Early fall sowings give the finest flowers in spring, and a bed of Pansies is one of the most beautiful sights a garden can show. *The higher-priced sorts produce the largest flowers and the most brilliant colors. This should be borne in mind when ordering.*

We do not sell less than ¼ ounce of a kind by weight

	¼oz.	Oz.	Pkt.
Thorburn Superb. The richest and most choicely varied mixture possible. It produces only the finest colors, largest flowers and most beautiful forms.....	72030	\$2 25	\$8 00
Bugnot Superb Blotched. An exceedingly large, three-blotted strain, with upper petals finely lined; great diversity of finest colors.....	72040	1 50	5 00
Cassier, Finest Mixed. Flowers of grand size, beautifully spotted.....	72050	1 50	5 00
Masterpiece. Curled, wavy petals; splendid colors; distinct.....	72060	1 75	6 00
“ Exhibition Strain.	72070	3 00	
Madam Perret. A splendid giant-flowered strain comprising all shades of red from light rose to dark purple, some of them finely striped.....	72080	1 25	4 00
Parisienne, Mixed. Handsome, large-flowering strain.....	72120	1 50	5 00
Red Shades, Mixed.	72125	1 00	3 50

PANSY, continued

		¼oz.	Oz.	Pkt.
Fine Large English. All colors mixed.....	72130	\$0 75	\$2 50	\$0 25
French. Large flowers; fine mixed.....	72135	85	3 00	25
Mixed. Ordinary strain.....	72140	65	2 00	10
Azure-Blue. Very fine color.....	72160	85	3 00	25
Black-Blue. Dark velvety blue.....	72170	85	3 00	25
Black (Faust; King of the Blacks). Almost coal-black.....	72180	85	3 00	25
Bronze. Golden bronze.....	72190	I 00	3 50	25
Cardinal. Brilliant red; very fine.....	72200	I 25	4 00	25
Coquette de Poissy. Distinct mauve, shading to white on petals.....	72210	I 25	4 00	25
Dark Blue	72215	I 25	4 00	25
Pale Bright Blue. Splendid; very showy.....	72240	I 25	4 00	25
Fairy Queen. Light blue, with white border.....	72250	I 25	4 00	25
Fire King. Golden with purple.....	72270	85	3 00	25
Golden Queen (Yellow Gem). Pure yellow.....	72290	I 50	5 00	25
Lord Beaconsfield. Deep purple-violet, shading to light blue.....	72310	I 00	3 50	25
Mahogany-colored	72315	I 00	3 50	25
Meteor. Bright yellow and brown, attractively blotched and margined.....	72320	I 00	3 50	25
Odier, Five-blotched, Improved. Extra-choice strain.....	72330	2 00	7 00	25
President Carnot. Pure white petals, each with a deep blotch.....	72360	I 25	4 00	25
Snow Queen (candidissima). Pure satiny white.....	72390	I 25	4 00	25
White, with Black Center. Very showy.....	72410	I 00	3 50	25
Yellow, with Black Center. Splendid.....	72420	I 00	3 50	25
Yellow, Golden, without Eye. Pure yellow.....	72435	I 00	3 50	25
TRIMARDEAU GIANT. This strain has remarkably large flowers, carried well above their leaves, and generally marked with large blotches; plants are extra vigorous and compact.				
Giant Adonis. Light blue; white margin; splendid.....	72480	I 50	5 00	25
“ Azure-Blue. Light-blue; pure color.....	72500	I 50	5 00	25
“ Indigo-Blue. Very rich color.....	72540	I 50	5 00	25
“ Lord Beaconsfield. Lavender and purple.....	72550	I 50	5 00	25
“ White	72590	I 50	5 00	25
“ White, with Dark Eye	72600	I 50	5 00	25
“ Yellow. Dark center.....	72610	I 50	5 00	25
“ Pure Yellow (Golden Crest)	72620	I 50	5 00	25
“ Mixed	72660	I 25	4 00	25

NEW EARLY-BLOOMING HARDY PANSIES

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

Celestial Queen. Beautiful light blue with yellow eye.....	72670	Pkt. 10
Ice King. Silvery white with dark blue blotches.....	72675	10
March Beauty. Fine dark velvety blue with yellow eye.....	72680	10
Winter Sun. Rich golden yellow with maroon blotches.....	72685	10
Hymalis, Mixed	72690	10
Choice Collections of Specially Selected Giant Pansies, or Heartsease—		
8 varieties.....	72705	Each collection \$1 75
6 varieties.....	72715	I 40

PARIS DAISY. See *Chrysanthemum frutescens*.

† PASSIFLORA (Passion Flower). Pkt.	
cærulea. hhP. Blue.....	72780 10
incarnata. hhP. Pink.....	72810 10

PEAS, Sweet. See pages 66 to 68.

PELARGONIUM. gP. Beautiful and well-known plants for greenhouse and house culture. Popularly called “Lady Washington Geraniums.” 2 ft. Pkt.

Show Varieties, Large-flowered, Mixed	72840 50
Odier (Blotched), Superb Mixed	72850 50

PENTSTEMON. Beautiful herbaceous perennials; very hardy and free flowering; fine for beds and borders or rock gardens; excellent cut-flowers.

PENTSTEMON, continued

antirrhinoides. Lemon yellow. 1½ ft.	Pkt. 25
72870	
centranthifolius. Bright scarlet. 2 ft. 72880	25
† Hartwegii grandiflorus, Mixed. Large-flowered varieties; most brilliant colors. 2½ ft.	72910 10
Hybridum grandiflorum. Flowers very large and of many colors; very fine.	72915 10
Large-flowered Varieties, Mixed. 3 ft. 72930	10
* PERILLA. An ornamental-leaved, half-hardy annual; for ribbon-gardening and beds; resembles the coleus. 1½ to 2 ft. Pkt.	
* nankinensis. Dark, bronzy purple foliage.	72950 5
* “ laciniata. Foliage extra dark purple; beautiful.	72960 5

PETUNIA HYBRIDA. hhA. Once fairly started, Petunias grow almost as easily as weeds and furnish a glorious succession of bloom from early summer until frost. The large-flowered strains are very beautiful and of almost endless variety. Seed of the double and Giant-flowered Petunias is made expensive by the great amount of labor involved in hand-fertilization, and it is well to handle seed and tiny seedlings with some care. Sow in hotbed, coldframes, 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 than the Petunias for beds and masses, borders, window-boxes, baskets and vases. They will grow in almost any soil and bloom profusely through long droughts. The newer varieties are of brilliant colors. *The highest priced sorts produce the finest and handsomest flowers, and those we offer are from the most carefully selected strains, saved at great expense. Apparently similar sorts offered at lower prices are not to be compared with those we offer.* Average height, 1 1/2 ft.

SINGLE LARGE-FLOWERING. These have flowers 4 or more inches across. Our strains are superb and the collections offered contain only the finest varieties. Pkt.

- Purple King.** Royal in color and size. 73000 25
- Rose.** Brilliant rose; a charming shade. 73010 50
- superbissima, Mixed.** Large, yellow-throated varieties; they make a brilliant show in the garden. 73030 50
- White.** Clear, paper-white flowers of unusual size. 73350 25

FRINGED, LARGE-FLOWERING. These have deeply cut and fluted margins.

- Ruffled Giants.** Extra-large flowers, beautifully ruffled, fluted and fringed. 73400 40
- Thorburn's Century Prize.** An unrivaled strain of fringed, ruffled, giant-flowered sorts in most beautiful colors. Very valuable. 73410 50
- Perfection Mixed.** Choicest fringed sorts. 73440 25
- Giant Kermesina, or Midnight.** . . . 73450 50

DOUBLE LARGE-FLOWERING. Our seed will produce flowers large, fragrant, elegantly formed and beautiful either for house, garden or conservatory. *Only a small proportion of the double strains bear double flowers. The reason of this is the fact that the seed must be selected from single flowers, the double ones not producing seed. The single flowers must be pollinated with pollen from the double ones.* Cuttings may be made from double-flowered plants and inserted in light, sandy loam for rooting, thus increasing the percentage of double-flowering plants Pkt.

- Mixed.** 73470 50
- Fringed Crimson.** Gorgeous colors; extra-large flowers. 73480 75
- Fringed Heliotrope.** Mauve and heliotrope colorings. 73490 75
- Fringed Perfection, Mixed.** Flowers large and much beruffled. 73510 75



Thorburn's Century Prize Petunias

PETUNIA, continued

SINGLE BEDDING VARIETIES. Smaller-flowered sorts, found most valuable for beds and masses. 1 ft. Pkt.

- Countess of Ellesmere.** Dark rose, with fine white throat. 73540 10
- Howard's Star.** Rich crimson; distinct white star in center; very showy. . . 73550 10
- Rosy Morn.** Bright, rosy pink, with white throat; very charming, compact, and free flowering; for bedding. 73560 15
- venosa.** Various colored; beautifully veined. 73570 10
- White.** Pure white; compact grower. 73580 10
- Inimitable, Mixed.** Striped and spotted. 73590 10
- Mixed Single.** Fine colors. 1/4oz. 50c., oz. \$1.50. 73600 10

PHACELIA. Showy, hardy annuals of easy culture, doing best in a sunny situation; bell-shaped flowers; excellent for bees. Pkt.

- campanularia.** Rich, deep blue. 9 in. 73690 5

PHLOX DRUMMONDII (Flame Flower). The hardy annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost and care. There are few desirable colors beyond their range, and if given good soil and plenty of water, they will furnish a long supply of delicate flowers. For pot culture dwarf varieties are valuable and as an undergrowth for tall, bare-stemmed plants they are also valuable. The first sowings should be made as soon as the frost is out of the ground in spring, later ones in May, either where the plants are to bloom, or in a seed-bed, as the Phlox transplants readily. In transplanting set the taller kinds about a foot apart; if planted too thickly they suffer from mildew. Cutting away the flowers and seed-



Phlox Drummondii

PHLOX DRUMMONDII continued

pod makes the plants more bushy and compact, and lengthens their blooming time. Average height, 1 ft.

GRANDIFLORA. This section has beautiful, round-petaled flowers, larger than in the older sorts; showy and constant, blooming in the greatest profusion from early summer to frost. Our strain is far superior to that ordinarily sold. Pkt.

- alba.** Pure white flowers borne in profusion all summer.....73770 10
- “ **oculata.** White, with violet eye.73780 10
- atropurpurea.** Dark purple.....73790 10
- Chamois-Rose.** A soft shade.....73800 10
- coccinea.** Large; brilliant scarlet; very free-flowering.....73810 10
- Crimson.** Bright color.....73820 10
- Isabellina.** Yellow.....73830 10
- Kermesina splendens.** Vivid crimson; extra-large flowers.....73840 10
- rosea.** Rose.....73850 10
- stellata splendens.** Star-like; crimson.. 73860 10

Mixed. Splendid, large-flowering sorts.... 1/4oz. 60c., oz. \$2..73870 10

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

- Chamois-Rose.** Very fine.....73950 15
- Fireball.** Flame-red; fine for pots and for edging.....73960 15
- Purple.** Rich dark color.....73965 15
- Snowball.** Pure white; fine for pots.73980 15
- grandiflora nana compacta.** Mixed.... 1/4oz. \$1..74010 10

STAR PHLOX—

cuspidata. Star-shaped; many colors.... 74050 10

PERENNIAL PHLOX. This hardy sort makes bushes about 3 feet high bearing large heads of finely colored flowers. Pkt.

decussata, Large - flowered Hybrids, Mixed.....74110 15

†**PHYSALIS Francheti** (Chinese Lantern Pkt. Plant). A splendid hardy perennial, very ornamental; has large orange fruits which, dried, are beautiful in winter bouquets. 2 ft.....74180 10

PHYSOSTEGIA (Obedient Plant). A valuable, summer-flowering, hardy perennial border plant; delicate, white flowers on long stems; good for cutting. 3 ft. Pkt.

grandiflora virginica. Rosy pink....74190 25
 “ “ **alba**.....74200 25

PICOTEE (Picotee Pink). These beautiful greenhouse varieties have richly colored edged flowers and are finely perfumed; very attractive. 1 1/2 ft. Pkt.

Extra-Fine, Mixed. Show varieties...74250 50

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 especially large, brilliant flowers are desired, a bed of well-mixed turfy loam, leaf-mold and well-decayed manure should be prepared for them. Average height, 1 ft.

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

Double White China Pink.....74280 5
 “ **Mixed China Pinks.** All best colors, 1/4oz. 25c., oz. 75c...74290 5

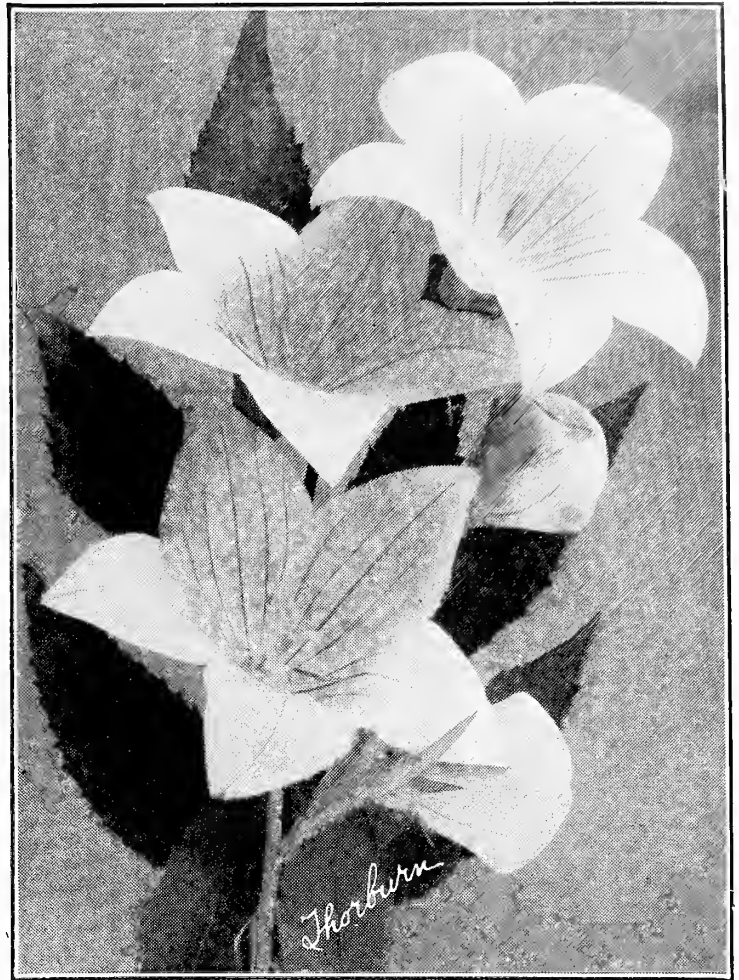


Dianthus plumarius (see page 97)

PINKS, continued

- HEDEWIGII** (Japan Pinks). Unusually large and brilliant; often oddly edged, striped and ringed.
- Single, The Bride (Little Gem).** White, with purple center74320 10
- “ **Crimson Belle.** Flowers large and handsome, dark red, on long, stiff stems.74330 10
- “ **Eastern Queen.** Rose-colored flowers, 2 to 4 inches across; finely striped and stained.74340 10
- “ **Queen of Holland.** Splendid; white.74350 10
- “ **Mixed.** ¼oz. 25c., oz. 75c.74360 5
- “ **Mixed, Giant-flowered.**74370 10
- “ **Mixed nobilis** (Royal Pink). Large, frilled and fringed flowers of glowing blood-red, shading to carmine and pink and even white; vigorous and tall-growing; abundant, continuous bloomer; fine flower for cutting.74380 15
- Double, Mixed.** A splendid assortment.74385 10
- “ **diadematus fl.-pl.** (Diadem Pink). Double; magnificent in color and variety.74390 10
- “ **Fireball.** Brilliant scarlet; very compact and floriferous vines; for massing.74400 10
- “ **Mourning Pink.** Very large, double flowers of blackish crimson, fringed white; very effective, and a handsome cut-flower.74410 10
- LACINIATUS—**
- Fireball, fl.-pl.**74435 10
- Oriental Beauty.** Petals wide, crinkled, richly marked with pink, white, etc.74440 10
- punctatus.** Dark-shaded Princess Pink. Quite peculiar colors, such as purplish violet, blood-red, dark salmon, etc.74450 15
- Salmon Queen.** Beautiful rosy salmon; handsome single flowers.74460 10
- Single, Mixed.** Fringed flowers of all colors.¼oz. 50c., oz. \$1.50.74500 10
- Double, Mixed.**¼oz. 50c.74510 10
- Fringed Double, Mixed.**74515 10
- IMPERIALIS FL.-PL.** (Double Imperial Pink). Robust, bushy grower, with large, double flowers. Pkt.
- Double, Mixed.**74530 10
- PLUMARIUS** (Sweet May Pinks). These are fine, fragrant, hardy perennials of the old-time gardens, still reckoned among the most beautiful for massing and cutting. Pkt.
- Pheasant's Eye.** Pretty fringed flowers.74600 5
- scoticus** (Double Scotch Pink). A series of exquisite colors; *ours is the finest strain.*74620 50
- semperflorens** (Perpetual Pink). Double, semi-double, and single; of various colors.74630 15
- Single Pinks, Mixed.** Pkt.
- ¼oz. 25c., oz. 60c.74650 10
- Double Dwarf, Mixed.**74670 10
- Double Mixed.** Extra fine.74690 10

Pkt.



Platycodon grandiflorum

PLATYCODON (Wahlenbergia; Large Chinese Bellflower). Handsome, hardy perennials that do best in light, dry situations; bushy growth; bear large, bell-shaped flowers in great profusion. Pkt.

- grandiflorum.** Deep blue. 2 ft.74800 10
- “ **album.** White. 2 ft.74810 10

See, also, Campanula.

POLEMONIUM. See Jacob's Ladder.

†**POLYANTHUS** (*Primula latior*). Fine spring-blooming and free-flowering, hardy perennials, alike suitable to pot or garden culture. 9 in. Pkt.

- Mixed.**74900 10
- Large-flowered, Finest Mixed.** Fine collection.74910 25
- Gold-laced.** Very attractive and showy.74920 25

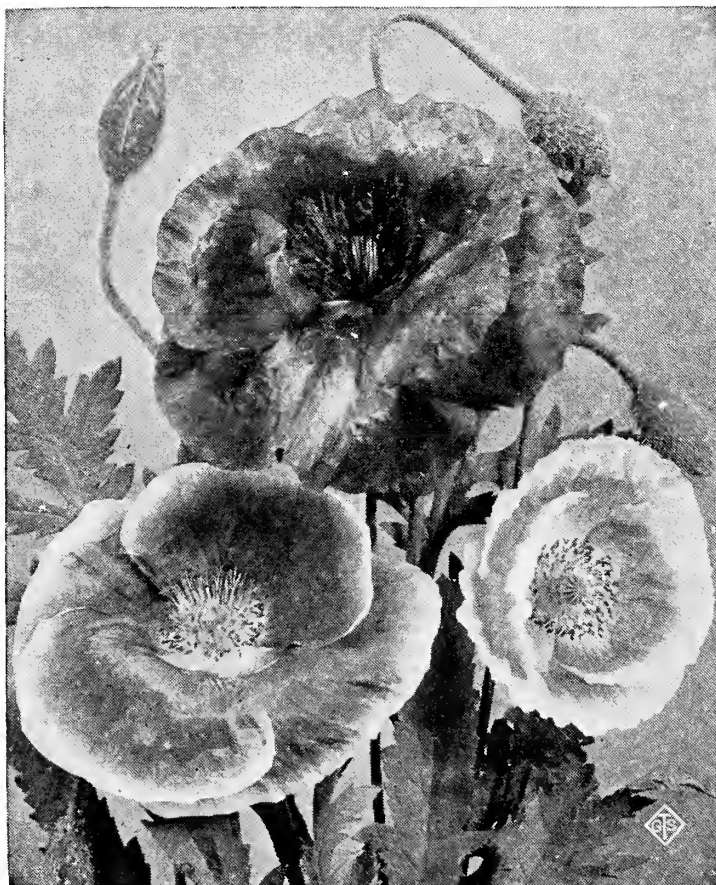
POPPY (*Papaver*). Before tulips are fairly gone our gardens begin to be gay with Poppies. Few flowers have the same grace of stem, airiness of poise, and delicacy of tissue. For beds and borders, with a background of green, there is nothing finer. Some sorts are admirable for naturalizing in open wooded 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 the seed where the plants are to bloom. Sowings made in fall and at intervals in spring will provide a long succession of flowers. Sow thinly, covering very lightly, and thin the plants to stand about a foot apart. The best plants are those grown from early sowings while the soil is cool and moist.

POPPIES, continued

- PERENNIAL VARIETIES.** Tall, large-flowered, and showy. Average height, 2 to 4 ft. Pkt.
- bracteatum.** Glowing scarlet; on long stems. 3 ft. 74950 5
 - orientale.** Enormous flowers of deep, flashing scarlet, with black spots in center; entirely hardy anywhere; fine for cutting. 3 ft. 74960 10
 - “ **Brilliant.** Vivid scarlet; beautiful. 74970 10
 - “ **Mixed Hybrids.** Finest shades. 75010 10
 - nudicaule** (Iceland Poppy). These dwarf, bright yellow Poppies form one of the chief attractions of the garden through several months. They are most beautiful when grown in masses from seed sown every year; if sown very early they bloom same season. 1 ft. 75030 10
 - “ **aurantiacum coccineum.** Orange-red. All of this class have crimped petals and peculiar grace. 75040 10
 - “ **album.** Pure white. 75050 10
 - “ **Mixed** 75060 10

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

- Thorburn Giant White.** White flowers of grand form and size, with silky petals. 3 to 4 ft. 75090 5
- Danebrog.** Large; single; scarlet, with white cross at base of petals. 75100 5
- English Scarlet Field Poppy** oz. 50c. 75110 5



Shirley Poppies

POPPIES, continued

- Flag of Truce.** Pure white; large and showy flowers. 75120 5
- Maid of the Mist.** Pure white; single; very large; deeply fringed. 3 to 4 ft. 75130 5
- Mephisto rosea.** Fine single. 75145 5
- Miss Sherwood.** Large; single; satiny white, with upper half of petals chamois-rose. 75150 5
- Shirley Best Mixed.** Indescribably bright, dainty and gauzy; a favorite for cutting. 1/4 oz. 20c., oz. 50c. 75160 5
- glaucum** (Tulip Poppy). Striking, tulip-shaped flowers of intensely brilliant scarlet; dwarf. 75180 10
- Single Mixed** oz. 25c. 75215 5
- Double American Flag.** White, bordered with scarlet; exceedingly brilliant flowers. 75220 5
- “ **Cardinal.** The immense scarlet flowers last unusually well. 75230 5
- “ **Carnation-flowered Hybrid, White Swan.** Pure white. 75250 5
- “ **Carnation - flowered, Mixed.** Very double; fringed. oz. 30c. 75260 5
- “ **Mikado.** Large, white flowers, attractively fringed with rose. 75270 5
- “ **Pæony-flowered, Dwarf, Fireball.** Deep scarlet; very large-flowering. 75280 5
- “ **Pæony - flowered, Snowball.** Pure white; very large-flowering. 75290 5
- “ **Pæony-flowered, Dwarf, Mixed Hybrids.** Hybrids of compact growth; splendid. 75300 5
- “ **Pæony-flowered, Mixed.** Large, handsome flowers of many colors. 75310 5
- “ **Queen.** Abundant flowers of the Shirley type, but double. Of the most delicate and brilliant colors, ranging from palest pink to rosy scarlet. 75315 25
- “ See Novelties also.
- “ **Ranunculus-flowered, Mixed.** Flowers small, finely formed, double. oz. 40c. 75320 5
- “ **somniferum** (Opium Poppy) ... oz. 15c. 75322 5
- “ **Mixed, All Sorts.** oz. 25c. 75340 5

PORTULACA. This charming little hardy annual is unrivaled for brilliancy among plants of low growth, and, although 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 of flowers. The seed does not germinate until hot weather, and should be sown late. This plant requires little care and can be transplanted in full flower. Average height, 6 in.

- SINGLE VARIETIES.** Each strong plant will cover a space of about 1 foot or more in diameter. Pkt.
- albiflora.** Pure white. 75420 10
 - aurea.** Deep, golden yellow. 75430 10
 - rosea.** Rich rose. 75450 10
 - splendens.** Crimson. 75460 10

PORTULACA, SINGLE, continued

Thellussonii. Scarlet.....75470 Pkt. 10
Thorburnii. Beautiful, bright yellow... 75480 10
Mixed..... $\frac{1}{4}$ oz. 25c., oz. 75c...75490 10

DOUBLE VARIETIES. These flowers are so full and perfect as to resemble tiny roses. Toward the close of the season they will increase in size and beauty. As the full, double flowers do not produce seed, it must be saved from the semi-double flowers growing with the full-doubles. The product of that seed will produce many single flowers. As these bloom earlier they can be pulled out like weeds. When the full-doubles appear cuttings can be made from them and the bed extended indefinitely with only full-double flowers. *Our strains must not be confused with the ordinary, cheap seed usually sold.* Pkt.

Double Bright Red.....75510 20
 " **Kermesina.** Crimson.....75515 20
 " **purpurea.** Purple.....75518 20
 " **Rose**.....75530 20
 " **Scarlet**.....75560 20
 " **Sulphur-Yellow**.....75570 20
 " **Yellow**.....75590 20
 " **Mixed.** Grown from cuttings; a splendid assortment of colors.. 75600 20

POTENTILLA. Handsome and brilliant in flower are these desirable, hardy perennials. Foliage ornamental; bloom all summer; of the easiest cultivation. 2 ft. Pkt.

Mixed. Brilliant colors.....75690 10

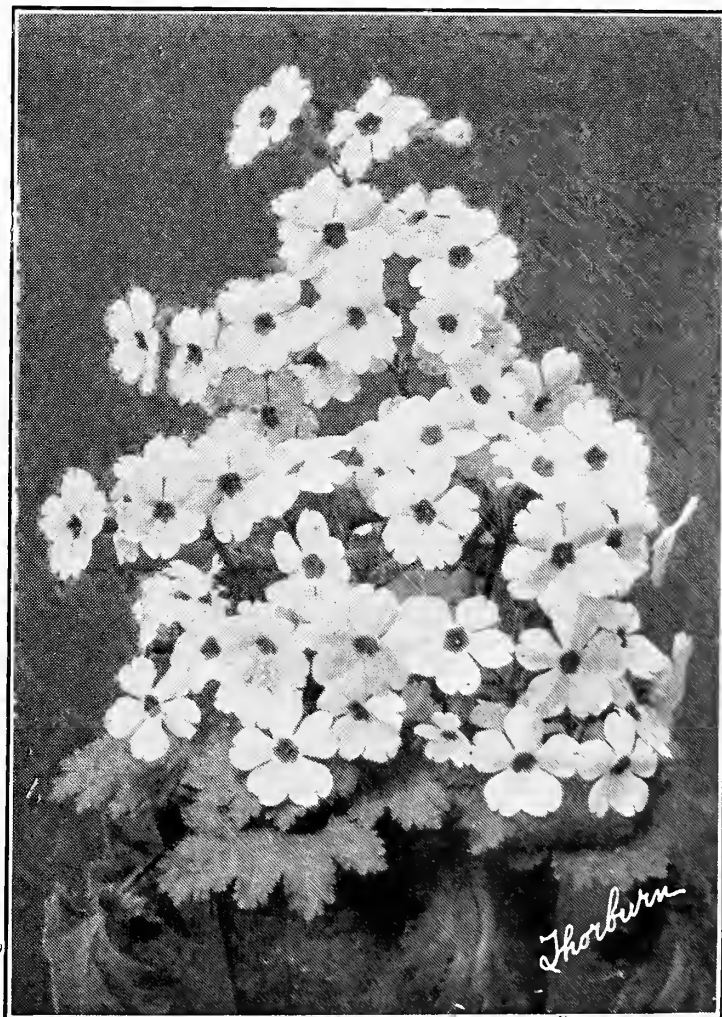
PRIMULA

CHINESE PRIMROSE. gP. Primula, or Chinese Primrose, stands in the first rank among greenhouse plants, and is fine for winter and spring blooming. It is free-flowering and is especially valuable for cut-flowers and for house-and window-culture. A cool place suits it best. Sow the seeds in drills in a light, rich soil, in shallow boxes, at any time from the middle of March to the end of May; the earliest sown seed will naturally produce the earliest bloom. Cover the seed about $\frac{1}{8}$ inch and press the soil on them with a board or the bottom of a pot. Water moderately; avoid forcing the seed. The plants must be well ventilated, well watered, and slightly shaded. Average height, 9 in. Pkt.

sinensis fimbriata alba. White; fringed 75720 25
 " **fimbriata alba magnifica.** Pure white; fringed; extra-choice.75730 35
 " **fimbriata Bright Rose.** Dainty fringed flowers.....75740 35
 " **fimbriata coccinea.** Bright red; fringed.....75750 35
 " **fimbriata cærulea.** Blue; fringed 75760 35
 " **fimbriata Kermesina splendens.** Crimson; fine shade; fringed... 75770 35
 " **fimbriata rubra.** Red; gracefully fringed flowers.....75780 25
 " **fimbriata Covent Garden White Improved.** The finest market-garden Primula. Large blooms, beautifully fringed. Solid petals, erect, and very free-flowering... 75782 60
 " **fimbriata delicata.** A beautiful, soft pink color. The blooms are very large, solid, and erect; extra free flowering.....75784 60

PRIMULA, continued

sinensis fimbriata King George V. A Pkt. dense crimson, almost giant size, beautifully fringed and very free-flowering. The darkest Primula yet offered.....75786 60
 " **fimbriata Orange King.** Said to be an entirely new pleasing color. Extra free-flowering and of splendid habit.....75788 60
 " **fimbriata True Blue, or Giant magnifica Blue.** Best blue; beautiful fimbriated blooms; very free-flowering.....75789 60
 " **fimbriata Extra-Fine Mixed.** Fringed.....75790 25
 " **fimbriata filicifolia.** All these are fringed and have fern-like foliage.
 " **fimbriata filicifolia alba.** White 75810 50
 " **fimbriata filicifolia Mixed.**75830 50
 " **fimbriata plena.** Beautifully fringed, double flowers.
 " **fimbriata plena rubra.** Red... 75870 50
 " **fimbriata plena alba.** White... 75880 50
 " **fimbriata plena Mixed**...75890 50
stellata, Blue Star Improved. This is a strain of really Giant Blue Star Primulas. The dark blue flower harmonizes with the pale green foliage. Very desirable..75895 50
 " **Crimson.** The grandest colored of all Star Primulas. The rich crimson blooms are very brilliant.....75897 50



Primula stellata

PRIMULA, continued

- stellata**, **Giant White Star**. Pure white Pkt. massive blooms, produced in great abundance, admirably relieved by dark foliage... 75899 50
- " **Salmon-Pink**. Greatly improved strain. Fine for table decoration, as a companion to the White Star... 75900 50
- " **Mixed** (Star Primulas). Very floriferous... 75910 50
- OBCONICA**. gP. For open border; also do well in the house window-garden. Continuous and free bloomers during the winter months. Pkt.
- grandiflora alba**. White... 76000 35
- " **carminea**. Carmine... 76010 35
- " **Blue**... 76015 35
- " **hybrida, Mixed**... 76030 25
- " **gigantea Kermesina, Carmine**. Red... 76080 50
- " **gigantea, Rose**... 76110 50
- " **gigantea, Mixed**. Giant flowering... 76120 50
- malacoides**. gP. Dainty, soft lilac-pink; fine for pot culture. 18 in. 76150 25
- " **alba**. Fine white... 76160 25
- HARDY VARIETIES**. The hardy Primroses are among the most prized of our spring-blooming plants. A slight protection, while not always needed, will be found beneficial. 1 to 1½ ft. Pkt.
- japonica** (Japanese Primrose). hP. Purple; called the "Queen of Primroses." 1½ to 2 ft... 76220 10
- " **hybrida, Mixed**. hP. From a fine collection... 76230 25
- vulgaris** (English Primrose). hP. Yellow; fragrant; a favorite variety. 6 in... 76250 10
- See, also, Auricula, Cowslip, and Polyanthus.
- PRIMROSE, Evening (Ænothera)**. The Ænothera, or Evening Primrose, blooms all summer very freely. The bright, poppy-like flowers open early every evening and last well into the next day; of the easiest culture in sunny situations.
- Ænothera Drummondii**. hA. Light yellow. 1½ ft... 76310 5
- " **Lamarckiana**. †hB. Large yellow flowers. 3 ft... 76320 10
- " **rosea (mexicana)**. hA. Bright rose. 6 in... 76330 10
- " **Mixed Annual Varieties** 76370 5
- PUERARIA Thunbergiana**. See Kudzu Vine.
- PYRETHRUM**. Showy, hardy perennials growing 2 feet in height, with most brilliant and lasting flowers. The dwarf Golden Feather is the well-known variety used for carpet bedding, edgings, and borders. Pkt.
- atrosanguineum**. Red and dark red shades... 76390 10
- roseum hybridum, Single, Mixed** 76400 10
- " **hybridum, Double, Mixed** 76410 25
- †**parthenifolium aureum** (Golden Feather). Yellow, fern-like leaves; fine for edgings. 6 to 8 in. 76460 5
- " **aureum selaginoides**. Bright yellow leaves; very compact... 76470 10
- Tchihatchewii**. White and yellow; for poor soils... 76490 10

REHMANNIA angulata. Splendid, half-hardy, herbaceous perennials, with beautiful, large, rosy purple flowers, similar to those of *Incarvillea Delavayi*. For pot-culture or outdoors in sheltered situations. 3 ft... 76530 25

RHODANTHE. Beautiful, delicate-looking Everlasting flowers, much prized for winter bouquets. These half-hardy annuals are also valuable garden plants. Glauous gray foliage. 1½ ft. Pkt.

- maculata**. Rose, with dark center... 76570 10
- " **alba**. Pure white... 76580 10
- " **Mixed**... 76590 10
- Manglesii**. Rose; very fine... 76600 10

RHODODENDRON arboreum hybridum. The well-known, hardy evergreen shrub. Mixed varieties. 10 ft... 76640 25

RICINUS (Castor-Oil Plant). Picturesquely showy and imposing, the Ricinus gives to the garden magnificent semi-tropical effects. Grown as a specimen it makes a perfect pyramid of gigantic leaves; a dozen plants in a large bed show a glorious mound of glistening colors and may be admired from a long distance; planted thickly it soon forms a handsome screen or hedge; the lower-growing dark-leaved sorts are beautiful for dotting here and there among cannas, scarlet pelargoniums, etc. Tall varieties grow from 8 to 10 feet high, with leaves several feet across and beautifully lobed. Half-hardy annuals. Pkt.

- borboniensis arboreus**. Green foliage. 15 ft... 76680 5
- campogensis**. Glistening dark maroon; stems black. 5 ft... 76690 5
- Gibsonii**. Dark red. 5 ft... 76700 5
- hybridus panormitans**. Cross between Cambogensis and Zanzibarensis. Huge, dark brown leaves; blue-powdered stems; upright habit... 76710 10
- sanguineus**. Red stems and seeds. 6 ft... 76760 5
- zanzibarensis, Red**. Distinct and handsome... 76770 5
- " **Finest Mixed**. 8 to 10 ft... oz. 35c... 76780 5
- Mixed**. Fine sorts... oz. 30c... 76790 5
- Collection of Ricinus**, including 6 varieties, choicest sorts... 76820 25

ROCKET (Sweet Rocket; Hesperis). Spring-flowering, hardy herbaceous perennials; fragrant; easily grown in light soil; transplant frequently; very free blooming. Pkt.

- matronalis**. Purple. 3 ft... 76880 5
- " **alba**. White; fine cut-flower. 3 ft... 76890 5
- " **Mixed**... 76910 5

ROMNEYA Coulteri (California Tree, or Matilija Poppy). This beautiful, half-hardy perennial Poppy should have a sheltered position in the garden. Fine, fragrant, white flowers. 4 ft... 76930 25

ROSA polyantha nana multiflora. †hP. Dwarf, compact bushes covered with small, single and double blossoms in various colors. These Roses flower the first season from seed. 2 ft... 76960 10

ROSE CAMPION. See *Agrostemma coronaria*.

ROSE OF HEAVEN. See *Agrostemma Cæli-rosa*.

RUDBECKIA (Coneflower). Attractive and compact-growing plants, most suitable for beds and borders or clumps among shrubs; showy, large, yellow flowers with dark central cones; easily grown. Pkt.

- amplexicaulis.** hA. Pure golden yellow. 2½ ft.76990 5
- bicolor superba.** hA. Golden yellow; long stems. 2 ft.77010 5
- fulgida variabilis.** hP. Various yellow shades. 2½ ft.77020 10
- Newmannii.** hP. Vivid orange-yellow. 3 ft.77030 10

RUMEX hymenosepalus. An ornamental hardy perennial from California, with long gray-green leaves; also known as Pie-Plant there, as the leaf-stalks are used the same as rhubarb. Of economic value as well, as its roots produce tannin. It is of easy cultivation; fine erect grower. 3 ft.77060 10

SAINTPAULIA ionantha (The Usambara Violet). A lovely greenhouse perennial, violet-like in appearance; large, deep blue flowers. 6 in.77090 25

SALPIGLOSSIS (Painted Tongue). These showy, half-hardy annuals bear beautiful, funnel-shaped flowers having dark veins on a ground which varies from white to crimson, yellow, orange, etc., and intermediate shades. They are easily grown, require a light, rich, sandy loam and will respond to liberal treatment. Bloom from late summer until frost. 2 ft. Pkt.

- grandiflora, Extra-Choice, Mixed.** A fine assortment of colors. . .77160 10
- “ **superbissima (Emperor), Mixed.** Finest strain of very large flowers.77210 15
- Tall Mixed**.....¼oz. 35c.77230 10
- Dwarf Mixed**.....77240 10

SALVIA (Flowering Sage). The *Salvia splendens* is a standard bedding plant that keeps the garden bright with color until late in autumn. For pot culture, for cutting and for borders, etc., it is very valuable. In this climate sow seed in window-boxes or frames in March or April, and set the plants outdoors the latter part of May, or sow outdoors not before June 1, and protect from heavy rains and strong winds. The plants grow and bloom profusely in any light, rich soil. Both the tender and hardy perennial sorts bloom the first year, and all are treated as annuals.

- argentea.** hP. Silver-leaved; flowers white; blooms in spring. 3 ft.77300 5
- farinacea.** hA. Light blue flowers in great abundance; good for cutting; forms a neat bush. 3 ft.77320 10
- patens.** A handsome, tender, perennial, with erect spikes of rich, blue flowers; fine for borders or the greenhouse. 2 ft.77330 25

SPLENDENS (Scarlet Sage). hhP. These are the well-known bedders, single plants of which carry many long, flaming flower-spikes open at one time, keeping up the display until frost. Pkt.

- grandiflora, Scarlet.** A rich-flowered bedder; long spikes. 3 ft. ¼oz. 85c., oz. \$3. . .77360 10
- 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. 77410.77390 25



Salpiglossis grandiflora

SALVIA SPLENDENS, continued Pkt.

Bonfire. Our well-known, compact *Salvia* —the freest blooming of all, seemingly on fire all the time, with dense, flaming scarlet spikes. 2½ ft. ¼oz. \$1.50, oz. \$5. . .77400 10

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; splendid bedding variety, earliest of all. . .77410 25

Lord Fautleroy. Only 18 inches high; very compact, with the brilliant scarlet flower-spikes standing clear above the foliage. Fine for bedding in masses or for borders around beds of taller sorts; also fine for pots. Very early flowering. 77420 25

Scarlet Dragon. A superb bedding plant for summer and autumn; flowers are nearly twice the size of the old Scarlet Sage; when full grown the plants form bushes about 3 feet in height, and the same in diameter, and are a mass of bloom. 77430 25

Silverspot. Rich, green leaves elegantly spotted with yellow. The intense, bright scarlet flowers are large and lavishly borne; neat and compact. 2½ ft. . .77440 25

SANVITALIA procumbens fl.-pl. Beautiful dwarf-growing, hardy annual for beds or borders; bright yellow, double flowers; blooms all summer. 6 in.77490 10

SAPONARIA. Pretty, dwarf bedding plants, especially adapted for edgings and borders; long and profuse bloomers. 1 ft. Pkt.

- calabrica.** hA. Red.77510 5
- “ **alba.** hA. White.77520 5
- “ **Scarlet Queen.** hA. Very brilliant.77530 5
- “ **Mixed.**77535 5
- ocymoides.** hP. Rose-colored flowers; trailing; blooms early; fine for rockwork. 6 in. 77540 10

SCABIOSA (**Mourning Bride; Scablous, etc.**). Well-established garden favorites. They grow about 2 feet high and flower through the summer until frost. The flowers are borne on long stems and last a long time when cut. Fine for beds or borders. Sow seed outdoors in spring when danger from frost is past. Pkt.

caucasica (Blue Bonnet). hP. This hardy perennial should be in every garden. The flowers are large and semi-double, of pale lavender color, growing on long stems; splendid for cutting.....77590 10

HARDY ANNUALS—

candidissima fl.-pl. (Snowball). Double; white.....77600 10

minor aurea fl.-pl. Double; golden yellow.....77610 10

Tall Black-Purple.....77620 10

" **Flesh-Color**.....77630 10

" **Tall Lavender**.....77635 10

" **Scarlet**.....77640 10

" **Yellow**.....77645 10

atropurpurea maxima. Very double; mixed.....77650 15

Mixed, Tall. Large flowers of bright colors..... $\frac{1}{4}$ oz. 30c...77660 5

Mixed, Dwarf.....77670 5

SCHIZANTHUS. Very beautiful and showy, hardy annuals, fine for beds and borders in the summer garden. Grown in pots in early spring in the greenhouse they become elegant foliage plants, with masses of flowers. $\frac{1}{2}$ to 2 ft. Pkt.

papilionaceus. Purple, yellow, and crimson.....77750 5

pinnatus, Mixed. Floriferous.....77760 5

retusus. Red; splendid.....77770 5

" **albus**. White, inside yellow; very fine.....77780 5



Scabiosa

SCHIZANTHUS, continued

wisetonensis. Light shades; long and profuse blooming; fine pot-plant.....77810 25

" **May Blossom**. Pale rose-pink and white. Free from any markings or darker tints. Dwarf, compact, pyramidal habit....77830 25

Mixed.....77840 5

SEDUM (Stonecrop). Showy and useful little plants for carpet bedding, edgings, rockwork, stone walls, etc. Will do well in any soil and dry situations. Pkt.

cæruleum. hA. Blue. 4 in.....77910 10

SENECIO. See *Jacobæa*.

SENSITIVE PLANT. See *Mimosa pudica*.

SILENE (Catchfly). Bright-colored and free-flowering hardy annuals, suitable for rockwork or garden beds and borders, blooming all summer; succeed finely in any light, loamy soil. 1 ft. Pkt.

Armeria. Red.....77960 5

" **alba**. White.....77970 5

pendula. Red.....77980 5

" **alba**. White.....77985 5

" **Double Rose**.....77990 5

" **Bonnettii**. Dark purple; dark stems.....78010 5

" **Mixed**.....78020 5

‡**SMILAX** (*Myrsiphyllum asparagoides*). A well-known greenhouse climber, with small, dark green foliage; of great value in floral work. 8 ft.....78050 10

SNAPDRAGON (**Antirrhinum**). The Snapdragon is one of our finest perennials, flowering the first year from seed. Its bright-colored, curiously formed flowers always excite interest. The rich spikes are beautiful for cutting, and keep fresh a long time. Flower profusely through summer until frost. For early flowers, sow under glass in February or March, and transplant into beds of warm, dry soil moderately enriched. The Snapdragon is treated as an annual and the seed sown every year. Average height, 2 ft.

TALL VARIETIES— Pkt.

album. White.....78080 5

atrococcineum. Dark scarlet....78090 5

Coral-Red.....78095 10

Cottage Maid. Handsome pale pink with white throat.....78098 10

Delicate Rose.....78100 10

Fairy Queen (Firefly). Orange, white throat.....78120 5

luteum. Yellow.....78130 5

Mixed..... $\frac{1}{4}$ oz. 25c., oz. 75c...78160 5

TALL, LARGE-FLOWERING VARIETIES—

Blood-Red. Fine color.....78170 10

Delilah. White and carmine.....78180 10

Feltham Beauty. Long spikes of enormous deep rose-pink blooms with white center.....78185 25

Firefly. Scarlet and white.....78190 10

Galathee. Crimson and white....78200 10

Nelrose. Silvery pink; very long stems; fine for greenhouse.....78205 30

SNAPDRAGON, TALL LARGE-FLOWERING, continued

- Orange Beauty.** Very large-flowering, Pkt. lovely orange-scarlet with gold tip. 78208 25
- Queen Victoria.** Pure white 78210 10
- Venus.** Delicate pink, with white throat. 78225 15
- White.** Beautiful for cutting. 78230 10
- Yellow.** A pure, soft color. 78240 10
- Large-flowered, Mixed.** Fine. 78270 10
¼oz. 30c., oz. \$1.

SEMI-DWARF VARIETIES. Plants of this section make excellent bedders, as they bloom extra profusely and are only about 15 inches high. Pkt.

- Black Prince.** Nearly black. 78310 10
- Bonfire.** Lovely orange-pink. 78320 15
- Cottage Maid.** Pale coral - pink, white throat. 78330 15
- Crimson King.** Bright crimson; a deeper color than Scarlet King. 78340 15
- Golden Beauty.** Large, sturdy spikes; rich golden yellow. 78345 25
- Mauve Beauty.** Lovely rose-mauve. 78355 25
- Queen of the North.** Pure white; small-leaved. 78360 10
- Rose Dore.** Pretty, self-colored salmon-rose. 78370 25
- Scarlet King.** Brilliant scarlet; tall spikes of flowers. 78380 15
- Fine Semi-Dwarf Mixed** 78400 10
- Tom Thumb, Finest Mixed.** Very dwarf strain. 6 in. 78410 10

Collection of Snapdragons; including— six varieties Finest Tall. 78450 30

SOLANUM. gP. The Solanums are very ornamental, fruit-bearing plants, and thrive best in light, rich soil. Fine for winter decoration in the house or conservatory. If used in summer garden, give very warm situation. 1 to 3 ft. Pkt.

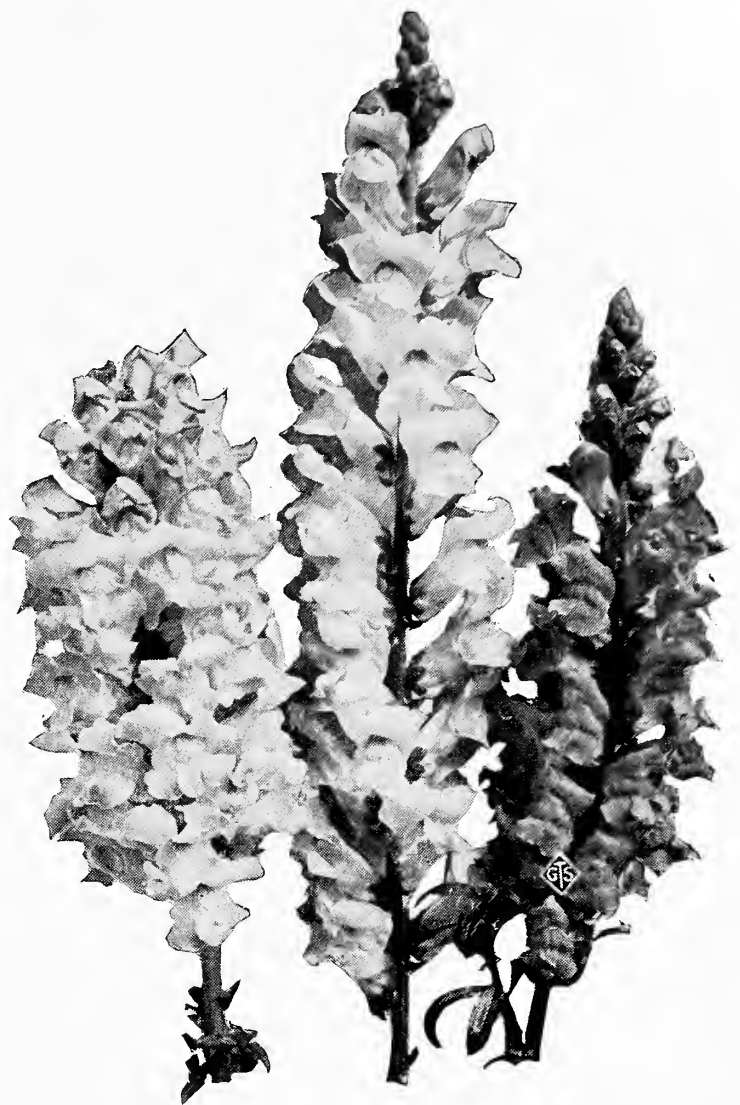
- Capsicastrum** (Jerusalem Cherry). Scarlet, globular berries; fine for pots. 1 to 1½ ft. 78480 10
- giganteum.** Small, round, red berries; large, handsome variety. 78490 10
- ‡**Seafortianum.** Beautiful climber; egg-shaped, yellowish red fruit. 8 ft. 78510 10
- Warscewiczii.** Pale yellow fruit; smooth and shining; handsome sort. 78520 10

STACHYS lanata (Lamb's Ears). Ornamental hardy perennial, with silvery white, woolly leaves; used for edgings and borders; easily grown. 1½ ft. 78600 5

STATICE (Sea Lavender). Pretty plants for the summer garden in beds or borders; good for rockwork also; much valued when dried as Everlastings for winter bouquets. 1 to 2 ft. Pkt.

- Bonduellii.** hA. Golden yellow. 78630 5
- sinuata.** hA. Blue; very fine. 78640 5
- “ **candidissima.** hA. White; fine for edging. 78650 5
- incana hybrida nana.** hP. Dwarf; mixed colors. 78670 5
- pseudo armeria.** hP. Mixed. 78685 5

STEVIA serrata. †gP. Greenhouse perennial; bears very elegant sprays of tiny white, fragrant flowers which are splendid for cutting. 2 ft. 78740 10



Snapdragon

STOCKS (Matthiola). Stocks have good habit, fine leaves, beautiful and fragrant flowers, a long season of bloom and adaptability to many conditions of culture. They are unsurpassed for bedding, edging, pot-culture and for cutting. For fine early flowers sow under glass in March or April, transplanting the seedlings when an inch high into other pots or boxes, or into fine soil spread over some discarded hotbed. In May transfer to garden beds of deep, rich soil, setting the plants a foot apart. 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 ft.

TEN WEEKS. Half-hardy annuals. Pkt.

- LARGE-FLOWERING DWARF PYRAMIDAL, Finest Mixture.** 78840 25
- DWARF LARGE-FLOWERING.** Long, splendid spikes; large, double flowers.
- Bright Red** 78870 10
- Blood-Red.** Very rich. 78880 10
- Carmine.** 78890 10
- Rose.** Very dainty, light color . . . 78940 10
- Snow-White** 78950 10
- Violet.** 78960 10
- Mixed** 78980 10

DRESDEN PERPETUAL OR BRANCHING—

- Cut-and-Come-Again, Princess** Pkt.
- Alice, White.** Large spikes; excellent and popular variety for cutting. 79000 25



Potted Stock for winter flowering

STOCKS, DRESDEN PERPETUAL, continued Pkt.

Cut - and - Come - Again, Empress Augusta Victoria. Delicate silvery lilac flowers in magnificent trusses; of true pyramidal growth. 2 feet.. 79010 25

Mixed.....79020 25

GOOD MIXED STOCKS.....79070 5

AUTUMN AND LATE-FLOWERING—

WINTER, OR BROMPTON LARGE-FLOWERING—

Empress Elizabeth. Bright rose.79275 25

White Lady.....79290 25

WINTER "NICE" VARIETIES, LARGE-FLOW'G—

Beauty of Nice. Flesh-color; extra-large flowers.....79320 25

Monte Carlo. Pure yellow.....79330 25

Pure White.....79340 25

Queen Alexandra. Rosy lilac...79350 25

Mixed.....79370 25

STOKESIA (Cornflower Aster). This popular hardy perennial bears, all summer, large, attractive flowers resembling semi-double asters; fine for cut-flowers. 2 ft. Pkt.

cyanea. Lavender-blue; handsome...79610 10

Mixed.....79630 10

STONECROP. See Sedum.

SUMMER CYPRESS. See *Kochia trichophylla*.

SUNFLOWER (*Helianthus*). Very stately and decorative hardy annuals, 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, and the seed is used for feeding birds. 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.

SUNFLOWER, continued

argyrophyllus (Texas Silver Queen). Has Pkt. handsome silvery foliage and a profusion of small, elegant, single flowers. 4 ft..79670 5

cucumerifolius. Of pyramidal growth; small, bright orange, single flowers. 3 ft..... 79680 5

" **Stella.** Handsome; large-flowered; primrose-yellow.....79700 10

" **Mixed Hybrids**...79710 10

" **Single, Fine Mixed**..... 1/4oz. 25c., oz. 75c...79730 10

Double California. Dark yellow. 5 ft.79740 5

" **Dwarf.** Beautiful, dahlia-like flowers, 3 inches across.....79750 5

" **Dwarf Variegated-leaved.** Foliage spotted with yellow; flowers bright yellow. Very fine.....79760 5

" **Globe - flowered.** Ball - shaped; blooms late. 3 ft.....79770 5

" **Chrysanthemum-flowered** .79785 5

macrophyllus giganteus. Huge leaves and yellow flowers.....79800 5

Primrose-colored. Graceful flowers of a lovely color; beautiful for cutting. 5 ft..... 79810 5

Sutton's New Red. Of freely branching habit, producing numerous well-shaped, dark-centered, brilliant flowers, banded with bright chestnut-red, merging to yellow at tips of the petals.....79815 10

SWEET PEAS (*Lathyrus odoratus*). See pages 66 to 68.

SWEET SULTAN. See *Centaurea moschata*.

SWEET WILLIAM (*Dianthus barbatus*).

The splendid old-fashioned hardy perennial, producing large heads of beautifully colored, sweet-scented flowers in abundance; easily grown, flowering the second year from seed. 1 1/2 ft. Pkt.

Single Auricula-flowered oculatus marginatus (Hunt's Perfection). Various shades, with white eye and white bordered.....79920 5

" **Pink Beauty (roseus).** Rosy chamois.....79940 15

" **Scarlet Beauty.** Brilliant scarlet; very fine.....79950 15



Sweet William

SWEET WILLIAM, continued

Single White 79960 Pkt. 5
 " **Mixed**... ¼oz. 20c., oz. 50c... 79970 5
Double Mixed 80010 10
Giant Double and Single Mixed
 ¼oz. 20c., oz. 50c... 80020 10
Annual, Finest Mixed 80030 15

TAGETES. hA. Pretty, dwarf-growing, single-flowering Marigolds; fine for beds and especially so for edgings. Pkt.

Lucida. Yellow; fragrant; good for cutting. 1 ft. 80090 10
signata pumila. Bright golden yellow; bushy habit; fine for edgings. 8 in. 80100 10
 See, also, Marigolds.

TASSEL FLOWER. See *Cacalia*.

TECOMA Smithii. gP. Splendid greenhouse shrub; winter-blooming; fine for pots; large heads of innumerable flowers, lemon with orange. 6 ft. 80130 25

THERMOPSIS Caroliniana (St. Peter's Staff). Pretty yellow Pea-shaped flowers . . 80135 15

‡**THUNBERGIA alata, Mixed**. A very pretty rapidly growing, tender perennial climber that is usually grown as an annual. Prized for window-boxes, vases, hanging-baskets, trellises, etc. 6 ft. 80160 10

TOAD FLAX. See *Linaria*.

TORENIA. Beautiful tender annuals that, started early in the spring in heat, will bloom continuously all summer until frost; fine for vases, baskets, and the summer garden. 10 in. Pkt.

Fournieri. Sky-blue, with purple spots and yellow throat. 80190 25
 " **alba, "White Wings."** Pure white with yellow throat. 80200 25
 " **Fine Mixed**. Very choice. 80210 25

†**TRACHELIUM cæruleum**. hhP. An attractive late-flowering perennial suited to culture as an annual; pale blue flowers; good in garden or greenhouse. 1 ft. . . 80240 10

‡**TRICHOSANTHES colubrina** (Snake Gourd; Serpent Cucumber). Rapid-growing, climbing, half-hardy annual, with slender fruit, often 3 feet long, turning carmine when ripe. 10 ft. 80280 5
 See, also, Cucumis and Gourds.

TRITOMA (Red-Hot-Poker Plant). This splendid half-hardy perennial is also well known as Torch Lily; has gorgeous spikes of bloom; easily grown; should be largely planted. Fine in late summer and fall. Pkt.

Uvaria grandiflora. Fiery orange flower-spikes; large and showy. 3 to 4 ft. . . 80330 10

TROLLIUS, Mixed Hybrids (Globe Flower). Desirable hardy perennial with large, buttercup-like blossoms; free-flowering through the early summer; do well in any soil. Flowers vary from pale yellow to deep gold, bordering on vermilion. 1½ to 2 ft. 80360 10

TROPÆOLUM. See *Nasturtium*.

TROPÆOLUM canariense. See *Canary-Bird Flower*.

†**VALERIANA** (Valerian). Very handsome hardy perennials that have been too much neglected; bloom all summer. Fine for borders, wild gardens and rockwork; of easiest culture. 2 ft. Pkt.

alba. White. 80460 5
rubra. Red 80470 5
Mixed 80480 5

VENUS' LOOKING GLASS (*Specularia*). A pretty little hardy annual, blooming profusely in spring and summer, and desirable for edging flower-beds and borders; of easy culture. 9 in Pkt.

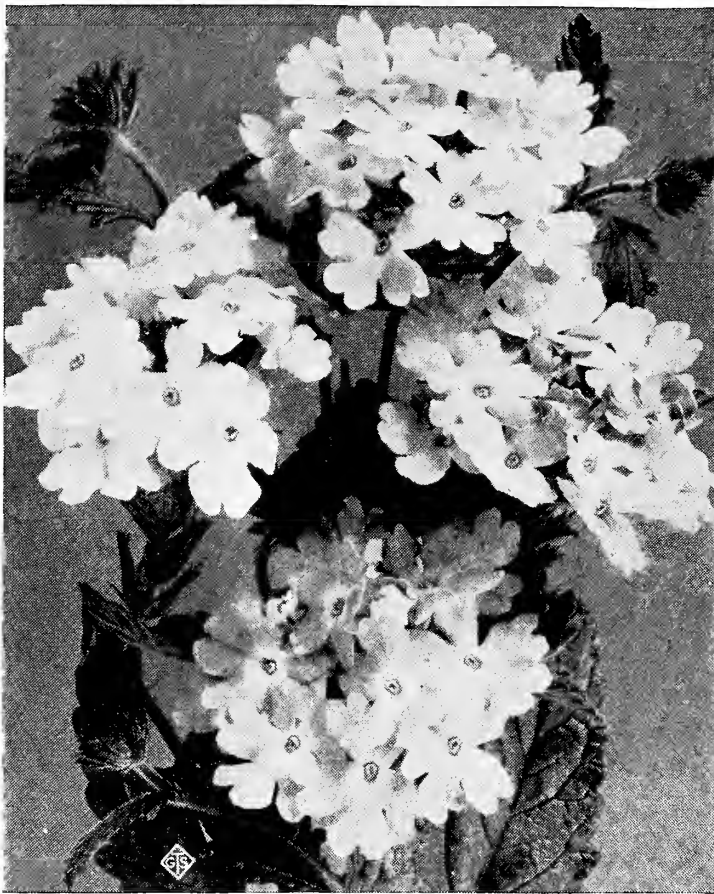
Blue 80530 5
White 80550 5
Mixed 80560 5
grandiflora, Mixed. Large-flowered. . 80570 10

VENUS' NAVELWORT (*Cynoglossum linifolium*). An elegant hardy annual for beds or edgings; of easiest culture; glaucous green leaves and white flowers; blooms all summer. 10 in. 80590 15

VERBASCUM pannosum. A stately and decorative hardy perennial, with large, white, woolly leaves and splendid spikes of sulphur-yellow flowers; fine for back-grounds. 4 to 5 ft. 80610 10

VERBENA. hhA. In rich soil, single plants of this pretty annual creeper will carpet a space 3 to 4 feet in diameter. For beds, borders, mounds, windowboxes, 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 ¼ 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. Pkt.

hybrida auriculæflora. Brilliantly colored flowers of fine size, each with a large white eye. 80630 10
 " **candidissima**. Large trusses of purest white flowers. 80650 10
 " **cærulea**. Bright blue in various shades. 80660 10
 " **Defiance**. Intensely brilliant scarlet; fine for bedding. 80670 10
 " **italica striata**. Brightly striped. . . 80680 10
 " **Scarlet**. Different shades . . . 80690 10
 " **Yellow**. Primrose-color. 80700 10
 " **Finest Mixed**. Extra choice. ¼oz. 35c. . . 80730 10
 " **Firefly**. Brilliant scarlet, white eye. 80743 25
 " **Lucifer**. Intense brilliant scarlet. See, also, Novelties . . . 80745 30
 " **Mayflower**. Beautiful pink. . 80750 25
 " **Mammoth**. Plants and flowers are unusually large; extremely floriferous, and borne in large heads.
 " **Blue** 80752 15
 " **Pink** 80754 15
 " **Scarlet Defiance** 80756 15
 " **Striped** 80757 15
 " **White** 80758 15
 " **Yellow (lutea)** 80759 15
 " **Mixed** 80760 10



Mammoth Verbena

VERBENA, continued

- hybrida gigantea, Mixed.** Florets very large. See, also, Novelties. Pkt. 25
- “ **Improved Mammoth, Mixed Auricula-flowered.** Best of all. 25
- erinoides.** Small; violet; heavy bloomer; pretty. 10
- “ **alba.** 10
- venosa.** Blue; fine for groups and for edgings. 10
- citriodora** (Lemon-scented Verbena). An attractive greenhouse shrub, grown for the delightful citron scent of its light green leaves. 10
- VERONICA** (Speedwell), **Mixed Perennial Species.** Splendid, hardy border plants of the easiest culture; bear bright-colored flowers all summer. 1 to 2 ft. 10
- †**VINCA** (Madagascar Periwinkle). tP. Handsome, bushy bedding plants that flower luxuriantly and most profusely all summer from seed sown in February or March in heat; fine also for pot-culture. 1 to 1½ ft. Pkt.
- rosea.** Red. 10
- “ **alba.** White, with rose center; dainty flowers. 10
- “ **alba pura.** Pure white; makes brilliant contrast with the dark green, shining foliage. 10
- “ **Choice Mixed.** 10
- delicata.** Soft delicate shade of pink; very desirable for rockery and shrubbery borders; the plants are quite hardy. 15
- VIOLET, Sweet-scented** (*Viola odorata*). hP. Much prized for spring blooming. All the varieties have great beauty, are very fragrant and quite hardy. 6 in. Violet seed takes a long time to germinate. Pkt.
- Blue.** 10
- The Czar.** Very large; dark blue. 10
- White.** 10
- rubra.** Purple-red. 10

†**VIOLA cornuta** (Tufted Pansies). hhP. Splendid free-blooming plants for partially shaded situations; with a little winter protection will be permanent for years; bloom continually all the season until frost. 6 in. Pkt.

- cornuta, Purple Queen.** 81040 10
- “ **Mauve Queen.** 81050 10
- “ **White Perfection.** 81060 10
- “ **Mixed.** 81065 10

pedunculata (California Yellow Violet) 81070 25

VIRGINIAN STOCK (*Malcomia maritima*). Early and very free-flowering, dwarf, hardy annuals of easy culture; bright blossoms; most effective for edgings or beds. 1 ft. Pkt.

- Crimson King.** Very fine. 81100 5
- Red.** 81110 5
- White.** 81120 5
- Mixed.** 81130 5

VISCARIA. Abundant-blooming, hardy annuals, flowering all summer until frost; very effective for massing in beds and borders; easily grown. 1 ft. Pkt.

- elegans picta.** Rose and scarlet. 81150 5
- oculata.** Rose. 81160 5
- “ **alba.** White. 81170 5
- “ **candida.** Pure white; fine. 81180 10
- “ **cærulea.** Sky-blue, dark center. 81190 5
- “ **Mixed.** Bright colors. 81200 5

WALLFLOWER (*Cheiranthus Cheiri*). Well-

known, half-hardy perennials of delightful fragrance, bearing in spring and early summer long spikes of bright flowers. Start the seed early in the season in heat, protect by coldframes during the following winter and plant out for bedding in spring. Fine also for blooming in greenhouse. 2 ft

SINGLE-FLOWERING VARIETIES— Pkt.

- Dark Blood-Red.** 81230 10
- Eastern Queen.** Very distinct shade—bright chamois, changing to salmon-red. 81240 10
- Feltham Early.** Large; brown-red; fine. 81250 10
- Golden King.** Very large, golden yellow flower. 81260 10
- Linnæus.** Fine; white. 81265 10
- Rose Queen.** A lovely terra-cotta pink. 81270 10
- Ruby Gem.** Very rich ruby color. 81280 10
- Vesuvius.** New. Orange, scarlet and bronze. 81285 25
- White Dame.** Large, creamy white flowers of dwarf, compact habit. 81290 10
- Single-flowering Dwarf Sorts, Mixed.** 81300 10
- Fine Mixed.** Very showy mixture. 81320 5

ANNUAL, Mixed. This annual or extra-early flowering strain, if started early in heat, will bloom the same season. 1 to 1½ ft. 81340 15

Early Paris Market. Golden yellow. 81350 15

DOUBLE-FLOWERING VARIETIES—

- Double, Tall Branching, Mixed.** 2 ft. 81370 25
- Double, Dwarf Branching, Mixed.** 1 ft. 81390 25

WHITLAVIA. Easily grown, hardy annuals of compact habit; excellent for beds or borders; bears in profusion all the season pretty, bell-shaped flowers. 1 ft. Pkt.

- gloxinioides.** Blue, with white throat. 81480 10
- grandiflora.** Blue.....81490 5
- " **alba.** White.....81500 5

***WIGANDIA.** hhP. Imposing decorative plants with very large and beautifully veined leaves; prized for subtropical gardening and groups on lawns. Start the seeds very early in the season in heat to produce good plants for summer beds. 6 ft. Pkt.

- caracasana.** Grand foliage.....81530 10
- Vigieri.** Very large-leaved.....81540 10

XERANTHEMUM. This well-known, hardy annual is one of the oldest and prettiest of the Everlasting flowers, and in winter bouquets retain their color and form for years. Fine for beds and borders; in bloom all the season until frost. 1 1/2 to 2 ft. Pkt.

- Double Purple**.....81570 10
- " **Rose**.....81580 10
- " **White**.....81590 10
- " **Mixed**.....81600 10

YUCCA filamentosa (Adam's Needle). One of the best summer ornamental, hardy perennial plants, when both foliage and bloom are considered; elegant spikes of creamy white, fragrant flowers; broad, sword-like leaves. 5 to 6 ft.....81650 10

- gloriosa**.....81660 10

ZINNIA (Youth and Old Age). Few flowers are so easily grown from seed or bloom so abundantly and continuously as this hardy annual. Sow the seed in the open ground early in spring. From July until the first hard frost Zinnias are incomparably bright; the plants grow a foot or more in height and are covered with large, double flowers. Fine for beds and borders; in fact, in any location.

NEW VARIETIES OF ZINNIAS— Pkt.

- Double Giant Buttercup.** Deep buttercup color.....81662 25
- Dahlia-flowered, Dark Cerise**....81664 25
- " " **Lavender-Pink** 81666 25
- Victory** (Quilled type), **Choice Mixed Colors**.....81667 25
- Double Giant Picotee, Golden Pheasant.** Deep gold ground, with tips maroon.....81668 25
- Double Giant Picotee, Choice Mixed Colors**.....81669 25

TALL MAMMOTH FLOWERING DOUBLE.

A distinct and splendid class of this ever-popular flower, producing extra-large double blooms. 2 1/2 ft. Pkt.

- Black Knight**.....81670 15
- Crimson**.....81680 15
- Flesh-Color**.....81690 15



Mammoth Zinnia

ZINNIA, TALL MAMMOTH FLOWERING, con. Pkt.

- Orange**.....81693 15
- Salmon-Pink.** New.....81694 15
- Scarlet**.....81695 15
- Sulphur-Yellow**.....81700 15
- Violet**.....81710 15
- White**.....81720 15
- Mixed**.....81730 15
- Collection of six varieties**.....81740 60

TALL DOUBLE. For borders and groups; 2 ft. Pkt.

- Crimson**.....81770 10
- Flesh-Color**.....81780 10
- Lilac**.....81790 10
- Purple**.....81800 10
- Rose**.....81810 10
- Scarlet**.....81820 10
- Striped**.....81830 10
- Violet**.....81835 10
- White**.....81840 10
- Sulphur-Yellow**.....81850 10
- Golden Yellow**.....81860 10
- Mixed, Extra-selected**.....81910 10

DWARF DOUBLE. More compact and of neater habit than the tall varieties. 15 in. Pkt.

- Bright Scarlet**.....81940 10
- gracillima (Red Riding-Hood)** .81958 10
- Purple**.....81960 10
- Salmon**.....81970 10
- White "Snowball"**.....81980 10
- Golden Yellow**.....81990 10
- Mixed**.....82020 5
- Lilliput, Mixed**.....82070 10
- Mixed Pompon**.....82090 10
- Haageana, Double Mixed.** 1 1/2 ft...82110 10
- Curled and Crested, Mixed.** 2 ft...82130 10

MIXED ANNUAL FLOWER SEEDS

Bright colored, summer-flowering, easily-grown hardy annuals in great variety; sow broadcast.

- Mixed Tall**.....82300 25
- Mixed Annual Japanese, or Paradise Mixture.** A fine mixture of over 50 intermediate annuals in splendid diversity of colors, especially suited for small gardens; composed of early flowering and late varieties; flowers all summer.....82345 25

MIXED PERENNIAL FLOWER SEEDS

- Beautiful Mixture of Hardy Perennials,** containing many choice varieties.....82350 30

For Choice Collections of Flower Seeds, see page 62

PALM SEEDS

		100 seeds		100 seeds
Areca lutescens.....	10 seeds,	\$0 25	\$2 00	
Brahea robusta (Washing- tonia).....	20 "	20	50	
Chamærops excelsa.....	25 "	25	50	
Cocos australis.....	20 "	30	1 00	
campestris.....	15 "	25	1 50	
Weddelliana.....	10 "	25	3 00	
Corypha (Livistonia) aus- tralis (Cabbage Palm).....	20 "	50	1 50	
		Pkt.	Oz.	
Dracæna australis.....	\$0 15	\$0 50		
indivisa.....	15	75		
		100 seeds		
Kentia Belmoreana.....	15 seeds,	\$0 40	\$2 00	
Kentia Forsteriana.....	15 seeds	\$0 35	\$1 75	
Latania borbonica				
oz. 15c., lb. \$1..				
Musa Ensete (Abyssinian Banana).....	15 "	25	1 00	
Oreodoxa regia	15 "	25	1 00	
Pandanus utilis (Screw Pine).....	10 "	25	1 50	
Phoenix canariensis	50 "	35	50	
dactylifera (Date Palm).....	50 "	35	50	
reclinata.....	25 "	20	50	
rupicola.....	15 "	30	1 50	
tenuis.....	50 "	25	40	
Seaforthia elegans.....	10 "	25	2 00	

ORNAMENTAL GRASSES

The Ornamental Grasses are very attractive to use in mixed flower-beds or borders, and for grouping by themselves give fine effects. Many of them, if cut before they are entirely ripe, will be found very useful, when dried, in the formation of winter bouquets, in connection with the "Everlastings."

Put up in packets and ounces only

- ***AGROSTIS** (Cloud Grass). hA. Very fine for vases and bouquets. Pkt.
- nebulosa.** Very delicate and graceful. 18 in.....82600 10
- pulchella.** Good for bouquets. 1 ft..82610 10
- ***ARUNDO** (Great Reed). hP. Well adapted for large clumps; stately and ornamental. 10 ft.
- Donax foliis variegatis.** Green leaves, striped with white.....82660 10
- AVENA sterilis** (Animated Oats). hA. Drooping, curious and very graceful. 2 ft..82680 5
- BRIZA** (Quaking Grass). hA. Well-known, graceful species; very fine for bouquets. 1 to 1½ ft. Pkt.
- gracilis**.....82720 5
- maxima**.....82730 5
- BROMUS.** hA. Fine varieties for large winter bouquets. 2 to 2½ ft. Pkt.
- brizæformis**.....oz. 35c..82770 5
- CHRYSURUS cynosurioides.** hA. Pretty for edgings; silky plumes that become golden as they mature. 10 in.....82840 5
- COIX Lacrymæ** (Job's Tears). hA. Seed resembles a tear-drop; fine for massing. 2 to 3 ft.....oz. 15c., lb. \$1..82860 5
- ERAGROSTIS.** hA. Pretty Grasses growing a foot or more high, and characterized by their beautiful dancing spikelets; all are handsome for bouquets. Pkt.
- elegans** (Love Grass). 1 ft. oz. 40c..82980 5
- †***ERIANTHUS Ravennæ** (Plume Grass). hP. Very stately and ornamental, fine, silvery plumes, splendid in lawn groups. Resembles closely the Pampas Grass. 6 to 8 ft.....83010 5
- ***EULALIA.** hP. Among the most beautiful of the tall-growing Grasses. 4 to 6 ft. Pkt.
- japonica.** Long, dark green leaves; fine for groups.....¼oz. 25c..83030 10
- japonica zebrina** (Zebra Grass). The dark green leaves are barred with creamy white; variegations run across foliage....83040 10
- GYMNOTHRIX.** Curious and ornamental, single specimens are of striking effect. 3 ft. Pkt.
- latifolia.** hP. Very ornamental; bears nodding spikes.....83140 10
- ***GYNERIUM** (Pampas Grass). hhP. Noblest of the tall-growing, ornamental Grasses. Bears magnificent plumes; needs protection in winter. 4 to 6 ft.
- argenteum.** Long, silvery white plumes; splendid. ¼oz. 25c..83160 10
- " **roseum.** Rose-colored plumes.....83170 10
- HORDEUM jubatum** (Squirrel-tail Grass). hA. Bushy panicles; very effective for bouquets. 1½ to 2 ft.....83210 10
- JOB'S TEARS.** See *Coix Lacrymæ*.
- LAGURUS ovatus** (Hare's-tail Grass). hA. Small, silvery gray plumes; good in dried bouquets. 1 ft.....oz. 40c..83270 5
- PANICUM sulcatum.** hP. Very showy; palm-like in form. 4 ft.....83340 10
- PENNISETUM.** hA. Very ornamental; fine for groups and bouquets. Pkt.
- longistylum (villosum).** Graceful, greenish white plumes; good in beds. 2 ft.....oz. 40c..83370 5
- Ruppellii.** Violet-purple plumes; fine for edging beds of tall plants like cannas. 2 to 3 ft.....¼oz. 25c..83380 5
- ***STIPA.** hP. Popular and graceful species; splendid for bouquets. 2 ft. Pkt.
- elegantissima.** Very pretty plumes..83460 10
- pennata** (Feather Grass). Delicate, silvery white feathery plumes; a favorite sort....¼oz. 30c..83470 10
- ZEA gracillima variegata**.....83550 10
- " **Japan striped, Improved**.....83560 10
- " **gigantea quadricolor**.....83570 10
- Collection** of 12 varieties of Ornamental Grasses.....83590 60

GLADIOLI

All extra-selected, large corms, no second size

If to be sent by mail, add postage at zone rates. Weight per 10, 1 lb.; 100, 8 lbs.

Gladioli are very easily grown. Any good soil suits them. Plant the corms 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 July 1, 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 corms should be taken up, dried in the open air, and then stored in a dry place, free from frost, for planting next spring. It is a mistake to plant Gladioli without some suitable subject to hide the surrounding soil; to do this we suggest planting lower-growing plants, such as *Saponaria calabrica*, *Nigella Miss Jekyll*, *Violas*, and *Dwarf Godetias*. Those marked with an asterisk (*) are used extensively for forcing.

NOVELTIES

NEW NAMED GLADIOLI

WHITE AMERICA. White. The unopened buds are flesh-white in color, opening clear white, with slight marks of blue in throat. 30 cts. each, \$2.50 for 10, \$20 per 100.

ENCHANTRESS. Blush-white. Blush-white, slightly flaked with lake-pink toward the margins; throat encircled on the lower petals with carmine-lake blotch; a dusting of golden bronze zoning; the blotch is unique. 30 cts. each, \$2.50 for 10, \$20 per 100.

EVELYN KIRKLAND. Rosy pink. The flowers are of strong substance and a beautiful shade of rosy pink, darker at the edges, fading to shell-pink at the center, with brilliant scarlet blotches on the lower petals, the entire flower showing a glistening sparkling lustre. Very tall spike; extra fine form and color. 50 cts. each, \$4 for 10, \$35 per 100.

SULPHUR KING. Yellow. This is by all odds the most valuable yellow variety ever introduced. It produces a very long spike of the clearest sulphur-yellow flowers yet seen in Gladioli. 30 cts. each, \$2.50 for 10, \$20 per 100.

CONTRAST. Scarlet. Flowers of great substance and a beautiful compact spike of perfect form, color intense scarlet, with large, distinct pure white center, which is neither tinted nor mottled. One of the most striking and beautiful Gladioli ever introduced. 40 cts. each, \$3.50 for 10, \$30 per 100.



Thorburn's Extra-Fine Mixed Hybrid Gladioli

FINE SELECTED NAMED SORTS

*America. A beautiful flesh-pink, tinged with lavender. Vigorous, with large, spreading blossoms on spikes 2 to 3 feet long. Extra-large corms.	10	100
Baron Hulot. (Lemoine.) Without a doubt the finest blue Gladiolus. It is a rich, deep shade of indigo-blue.	75	7 00
Dawn. Rose-pink; large flowers; tall spikes.	3 50	30 00
Empress of India. Deep, velvety maroon.	80	7 50
Golden West. Orange-red, overlaid with gold; yellow blotch with red spots on lower petals; fine.	60	5 50
Halley. Large flowers of a lovely salmon-pink, lower segments blotched yellow, with carmine markings. An excellent variety; early.	50	4 50

Glory of Holland. Very fine white, tinted rose.	10	100
*Isaac Buchanan. Very fine yellow; large flowers.	90	8 50
Lily Lehman. Very fine pure white, frilled edge, slightly tinted rose; large flower.	1 00	9 00
Mrs. Frank Pendleton. (Kunderdi.) Very large, graceful blossoms of lovely, bright pink, with rich carmine blotches on the lower petals; very beautiful.	90	8 50
Niagara. Soft primrose-yellow, slightly tinged with rose-pink in throat.	90	8 50
Panama. Beautiful, deep rose self; large flowers; fine spike.	90	8 50
Peace. Large flower; white, with lilac blotch on lower petal.	85	8 00

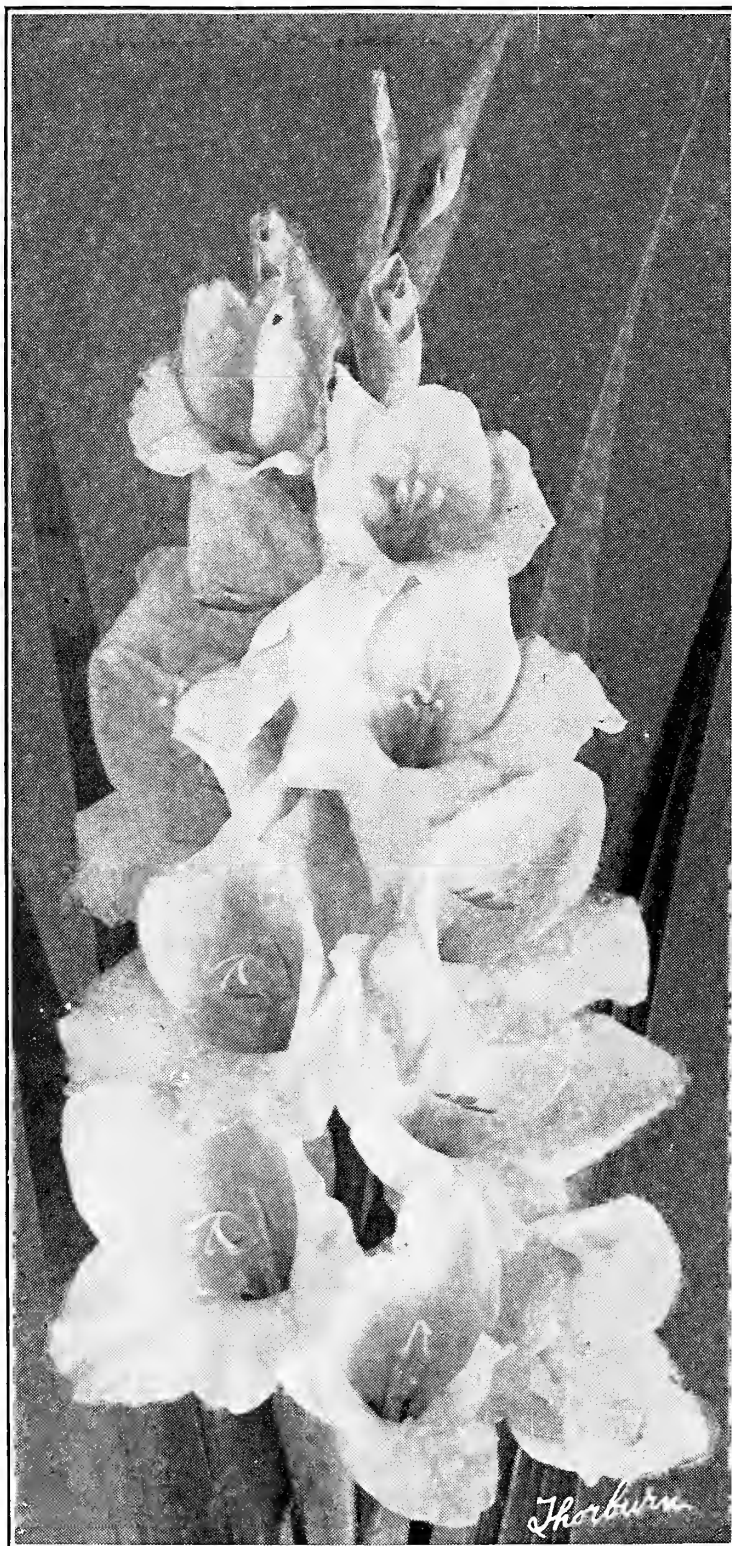
FINE SELECTED NAMED SORTS, continued

Pink Beauty. Bright carmine-rose, with darker blotch on lower petals; early; fine cut-flower.....	10	100	\$1 00	\$9 00
* Pink Perfection. Soft rosy pink, with white stripe in center of each petal; very beautiful.....	1	00	9 00	
Schwaben. Light yellow, deep red blotch.....	1	00	9 00	
Taconic. Bright, lively pink, flecked and striped with shades of the same color.....	75	7 00		
War. Blood-red,shadedcrimson-black.	1	50	14 00	

Thorburn's Extra-Fine Mixed Hybrids

(From Our Trial-Grounds)

Containing only finest named sorts in a wide range of colors and markings. 65 cts. for 10, \$4.50 per 100.



Augusta Gladioli

PRIMULINUS Hybrids. Hybrids of a South African species, with many related species and choice garden varieties. Extremely vigorous and healthy growers, blooming in July and August. Grow 3 to 5 feet high, with long spikes of richly colored blooms, varying in color from clear yellow to crimson, the latter with large, soft orange or golden throats. Selected grade, 50 cts. for 10, \$4 per 100, \$35 per 1,000.

VARIOUS MIXED GLADIOLI

25 at 100 rate, 250 at 1,000 rate

Mixed Red and Scarlet. A splendid assortment of fine quality, large flowers.....	10	100	1,000	\$0 40	\$3 50	\$32 00
Mixed Extra White and Light Colors. All extra-large blooms.	50	4 50	40 00			
Mixed Extra-Fine Striped and Variegated. Pleasing to the eye in the broadest sense. A charming lot.....	40	3 50	32 00			
Mixed Pink and Rose. Colors vary from the most delicate pink to gaudy rose. Every one a vigorous grower.....	40	3 50	32 00			
Mixed Yellow and Orange. No color shows up more charmingly either singly or in contrast with the more vivid shades.....	50	4 50	40 00			
Mixed Gandavensis. Extra-fine bulbs from the best varieties. A superb mixture of the various colors, in which no one color plays the predominating part. Large-sized corms of very fine quality.....	40	3 50	32 00			
Mixed Groff's Hybrids. This mixture is the well-known and distinct race resembling the Lemoine Hybrids, but showing greater diversity of colors in flowers.....	40	3 50	32 00			
Mixed Lemoine's. Their remarkably bright, rich colors and odd orchid-like markings account, in a way, for their being popularly known as the Butterfly Gladioli. A desirable sort. Large-sized corms.....	40	3 50	32 00			
Mixed Childsii. Grand flowers of large size and beautifully colored. Large-sized corms...	40	3 50	32 00			

FINE NAMED HYBRID GLADIOLI

Attraction. A deep, rich crimson, with a center that shows very prominently.	10	100	\$0 60	\$5 00
* Augusta. Pure white, with a lavender-tinted throat. A splendid sort. Extra large-sized corms.....	60	5 00		
* Brenchleyensis. A fine old vermilion-scarlet variety. Extra large-sized corms.	40	3 50		
Eugene Scribe. Very large and wide; tender rose, blazed carmine-red. Exceptionally fine for florists' use.....	75	7 00		
F. L. Oakley. Bright scarlet-tinted salmon, with pure white center. A very fine show variety.....	50	4 50		
Glory of Brightwood. Scarlet, with lemon throat.....	75	7 00		

FINE NAMED HYBRID GLADIOLI, continued

Jessie. (Lemoine.) Fine velvety red; long spike of flowers.....	10	100	\$0 75	\$7 50	Princeps. Glowing crimson, with white flakes on lower petals. Extra-large corms.....	10	100	\$0 90	\$8 50
Klondyke. Light yellow, maroon blotches in throat.....	50	4 50			Rosy Spray. White, beautifully sprayed rose; large and fine.....	50	4 50		
Lamarck. (Lemoine.) Salmon, with crimson and yellow spots.....	60	5 00			Scribe. An enormous spike; flower tinted white, freely striped carmine.....	60	5 50		
* May. A lovely pure white, finely flaked rosy crimson.....	50	4 50			Spot. White; freely spotted and mottled rose.....	75	7 00		
Nezinscott. Bright blood-scarlet, with deep velvety crimson blotches and white mottlings.....	75	7 00			Victory. Clear primrose-yellow; large, open flower.....	60	5 50		
Portland. Rosy red, penciled darker; mottled throat.....	90	8 50			Willy Wigman. Delicate rose-tinted cream, with large carmine-red blotch..	50	4 50		

CANNAS, Dwarf, Large-Flowering French

Not less than 5 of a kind at 10 rate, 25 at 100 rate. If wanted by mail, add 15 cts. per 10 for postage

Cannas do well in almost any kind of soil, but they well repay liberal treatment. For the best results they should be planted in good loam that has been well mixed with an abundant supply of well-rotted stable or other manure. The beds should be spaded 2 feet deep or more, and the soil well pulverized. Water should be applied abundantly at all times, but good drainage is essential.

Cannas are most effective when planted in masses, either alone or in combination with salvia (scarlet sage) and bordered with coleus or other dwarf-growing bedding plants. They are also frequently used with some of the tall-growing ornamental grasses, with which striking combinations can often be secured. They do best in sunny situations, and should be set out about 2 feet apart each way.

ALL OF THE FOLLOWING ARE DORMANT ROOTS

GREEN-FOLIAGED CANNAS

PINK FLOWERING

City of Portland. 3 to 4 ft. Each	10	100		
Light salmon-pink.....	\$0 15	\$1 10	\$10 00	
Hungaria. 3½ ft. Pure "La France" pink with satiny sheen; large flowers.....	10	80	7 00	
Rosea gigantea. 5 to 6 ft. Large flowers; soft rose shading to carmine-pink.....	15	1 10	10 00	

RED FLOWERING

Alphonse Bouvier. 5 ft. Clear crimson flowers borne in large clusters.....	10	80	7 00	
Crimson Bedder. 3½ ft. Without exception the most conspicuous and satisfactory red bedding Canna on the market....	10	80	7 00	
Duke of Marlboro. 4 ft. Dark, rich, velvety crimson; fine shapely flowers.....	10	80	7 00	
Express. 3 to 4 ft. Glowing red..	15	1 10	10 00	
Louisiana. A bright crimson-scarlet of the orchid-flowered type; grows 5 to 6 feet high, with immense spikes of bloom. Individual flower 5 inches across with correspondingly broad petals. Very showy in beds or as a center for dwarfer varieties....	10	80	7 00	

YELLOW FLOWERING

Austria. 4 ft. Bright yellow, with crimson in the throat; orchid flowered.....	10	80	7 00	
Florence Vaughan. 4 ft. Yellow, with bright red spots.....	10	80	7 00	
Richard Wallace. 4 ft. Flowers large; color pure yellow. Fine for bedding.....	10	80	7 00	

VARIEGATED FLOWERING

Allemannia. 5 ft. Orchid-flowering; bright scarlet, with broad yellow border, beautifully mottled and variegated..	10	100	\$0 10	\$0 80	\$7 00
Gladioflora. 3½ ft. Gladiolus-like, crimson flower, edged with gold.....	10	80	7 00		
Mme. Crozy. 3½ ft. Vermilion, with gold border; very pretty..	10	80	7 00		
Niagara. 3 ft. Deep crimson, with wide irregular border of golden yellow.....	10	80	7 00		
Panama. 3 to 4 ft. Mottled orange-gold.....	15	1 10	10 00		

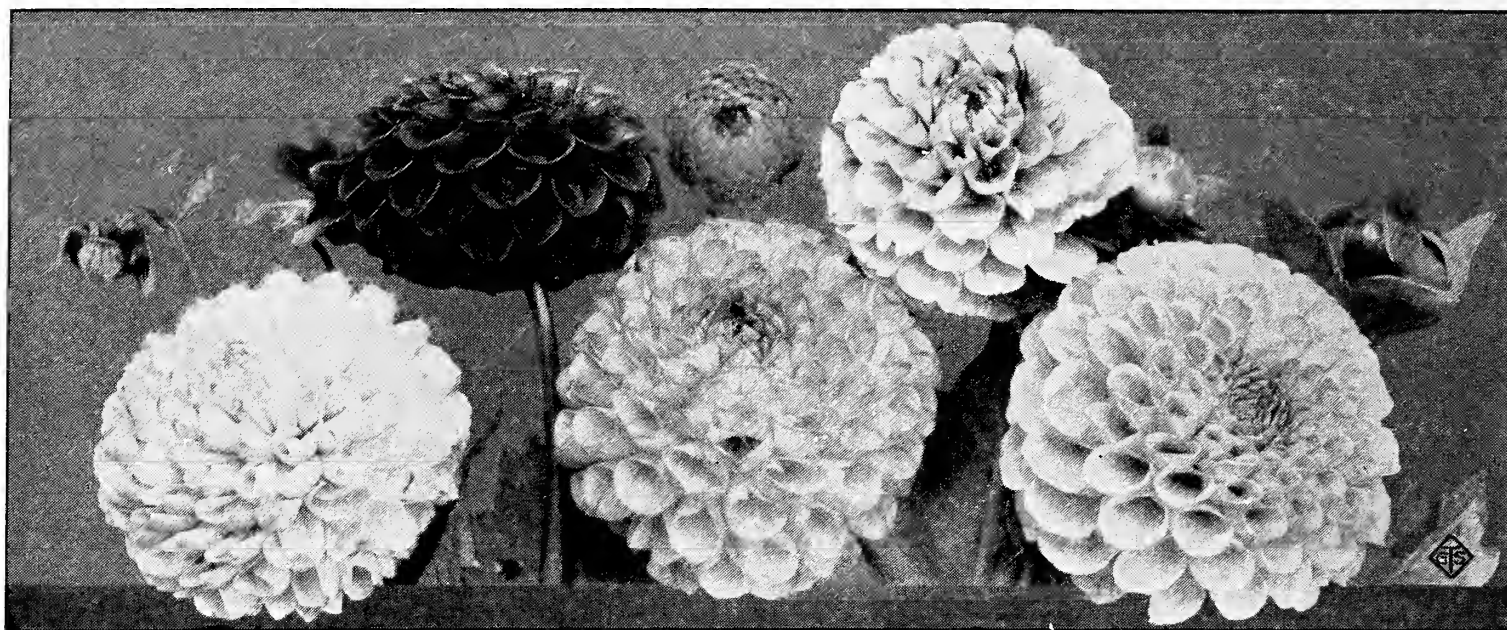
WHITE FLOWERING

Eureka. 4 to 5 ft. Finest white.	Each	10	100	\$0 15	\$1 10	\$10 00
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BRONZE-FOLIAGED CANNAS

RED AND YELLOW FLOWERING

Brandywine. 3½ ft. Flowers red. Splendid for mass planting.....	Each	10	100	\$0 10	\$0 80	\$7 00
David Harum. 3 ft. Large-sized flowers; bright vermilion-scarlet, dotted with crimson spots.	10	80	7 00			
Gladiator. 4 ft. Bright yellow; bronze foliage.....	10	80	7 00			
King Humbert. 4 ft. Bears gigantic trusses of immense, brilliant orange-scarlet flowers, streaked with crimson. A massive, sturdy grower of stately habit.....	15	1 10	10 00			
Shenandoah. 4 ft. Flowers beautiful, rosy pink, borne in large clusters. The foliage is very beautiful, being veined and tinted, having a tropical appearance...	10	80	7 00			
Wabash. 4 ft. Very large flowers; carmine-pink.....	15	1 10	10 00			



DAHLIAS

5 of a kind at 10¢ rate

If ordered to be sent by parcel post, add postage at zone rates. Weight per 10, 6 lbs. (including packing), for largest-size roots as offered below. Postage on single roots 5 cents each.

NEW AND RARE VARIETIES

DECORATIVE DAHLIAS

- AYESHA.** A wonderfully handsome clear light yellow Dahlia that has attracted great attention. The flowers which are borne on long, stiff stems are of immense size and regular form, with large shell-like petals. Fine for show.....\$0 50 \$4 50
- BREEZE LAWN.** A grand exhibition variety of great promise which reaches 8 inches and over in diameter when properly grown. Color, vivid vermilion; of splendid form and full center..... 75 7 00
- MRS. C. H. BRECK.** A beautiful variety of the hybrid class. Soft yellow, suffused carmine. Very distinct and pleasing... 50 4 50

CACTUS DAHLIAS

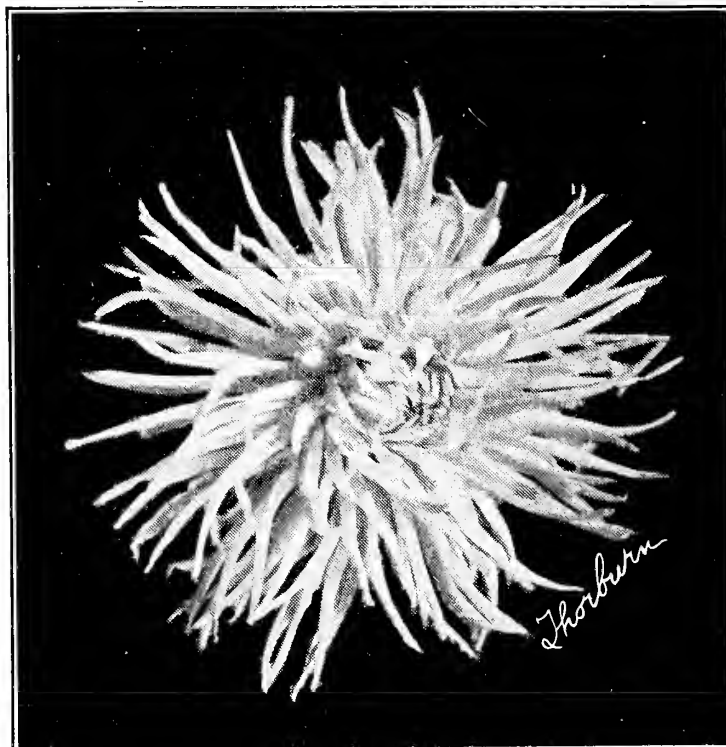
- CRYSTAL.** Clear soft pink of enormous size, with long, narrow, incurved petals and full center. Fine exhibition variety.....\$0 75 \$7 00
- FRANCIS WHITE.** A splendid new white Cactus of exquisite form and large size, on long stems. Color pure white, shading to sulphur-white at the center..... 50 4 50
- MME. ESCHENAUER.** An ideal Dahlia of exceptional merit. Color, yellow at base of petal, passing to creamy white, suffused and tipped pale lilac; delicate and chaste..... 75 7 00

PEONY-FLOWERED DAHLIA

- MRS. WM. KERR.** One of the very handsomest flowers. Very large, of beautiful twisted irregular formation, and a most exquisite coloring. Rich cream, suffused pink and overlaid bright carmine; the blending of shades and twists is most attractive and pleasing. Vigorous; early and free bloomer. 75 cts. each, \$7 for 10.

GENERAL LIST OF CACTUS DAHLIAS

- Bridal Robe.** One of the best white Cactus Dahlias. Large, full flowers, of great substance and good keeping qualities. Flowers 6 to 8 inches across, with great depth; borne on long, rigid stems. A strong, grower and continuous bloomer.....\$0 50 \$4 50
- Excelsior.** Splendid for garden and exhibition; rich velvety maroon..... 30 2 75
- Electric.** The color is rich, clear canary-yellow, each petal heavily tipped white. A strong and vigorous grower..... 40 3 75
- General Buller.** Rich velvety maroon, tipped white..... 20 1 75
- Hamlet.** Very large, rich red, shaded darker; very long, pointed petals..... 20 1 75



Cactus Dahlia

GENERAL LIST CACTUS DAHLIAS, continued

- Kriemhilde.** Deep rosy pink with lighter center. A distinct and valuable variety as the flowers keep a long time after cutting \$0 20 \$1 75 Each 10
- Marjorie Castleton.** The color is soft rosy pink, tinting lighter toward the center. It is a very rapid grower and keeps well after cutting. 20 1 75
- Queen of Hearts.** A beautiful pure white, with yellow at the base of petals. 20 1 75
- Reine Cayeux.** Rich, glowing red; early. A grand garden or cut-flower variety. . 20 1 75
- Success.** Clear yellow, with long, pointed petals. An early, free, and continuous bloomer. 20 1 75
- T. G. Baker.** Very large, finely formed flowers on long, stiff stems; clear bright yellow. 25 2 25

DECORATIVE DAHLIAS

- Dr. Tyrrell.** Color is a rich golden bronze, with bronzy red at base of petals, giving the flower that rich bronzy effect. The plant is a very sturdy, healthy grower, with dark, luxuriant foliage. \$0 40 \$3 75 Each 10
- John Wanamaker.** One of the most beautiful of all pink Dahlias, having a formation entirely its own, in its charming irregularity. Strong, vigorous, branching grower and the earliest, most constant, and profuse bloomer. 25 2 25
- Melody.** Color, clear canary-yellow tinting to creamy white at the tip. . . . 20 1 75
- Minnie Burgle.** The best red Dahlia in the world. Flowers are of large size, perfect form, and are produced on long, stiff stems. Color is a vivid vermilion-red. This variety should be in every collection. 30 2 75
- Mont Blanc.** A splendid large white with long, stiff stems. 25 2 25
- Old Gold.** One of the richest of autumn shades, valuable for decoration. Old-gold, shading to orange; splendid form on long, slender, stiff, stems. . . . 20 \$1 75
- Richmond.** A new seedling of Jack Rose. An early, profuse bloomer with stiff stems; color, rich glowing crimson. . . . 20 1 75

SHOW AND FANCY DAHLIAS

- A. D. Livoni.** Clear bright pink; quilled petals. The best pink Show Dahlia. . \$0 20 \$1 75 Each 10
- Emily May.** Large; pure white; reliable. 20 1 75
- Penelope.** White, flaked rosy lake. 20 1 75
- Princess Victoria.** The finest pure yellow Show Dahlia in existence. Clear, pure canary-yellow, without shade or blemish from bud to old age. 20 1 75
- Red Hussar.** Richest dazzling cardinal-red; strong grower; free bloomer; long stems. 20 1 75
- White Swan.** Large; pure white; reliable. 20 1 75

POMPON DAHLIAS

- Clarissa.** Pale primrose. \$0 20 \$1 75 Each 10
- Klein Domitea.** Bright golden terracotta. 20 1 75
- Madeline.** Primrose, edged rosy carmine. 20 1 75



Decorative Dahlia

PEONY-FLOWERED DAHLIAS

- F. R. Austin.** One of the most valuable Dahlias in existence. The outer petals are very long and creamy yellow, suffused, banded, and shaded rich crimson; the inner petals are yellow at base, tinting lighter, and suffused pink and crimson. Vigorous grower; early and free bloomer. \$0 40 \$3 75 Each 10
- Canary, Duplex Form.** Pure yellow, of very large size. An early, free, and continuous bloomer. 20 1 75
- Variegated Liszt.** Dark, oriental red, with yellow tips and markings. A superior variety for decorations, especially where a bronzy effect is wanted. 20 1 75

CENTURY DAHLIAS

- Cream Century.** Another delicately colored giant flower. Color a rich cream, which suggested the name. The plants are 5 feet high and bloom early, profusely, and continuously until frost. . . . 20 1 75
- Geisha Century.** The inner half of the petal is a rich yellow, the outer half is an intensely rich scarlet—the Geisha colors—hence the name. The giant flowers are of perfect form and borne on long, stiff stems. 25 2 25
- Josephine.** Flowers snow-white, very large and regular. The long, wiry stems hold the flowers erect, making them long keepers and valuable for all cut-flower purposes. 40 3 75
- Rose Pink Century.** Largest and best deep pink. Enormous flowers on long stems; sure and continuous bloomer. . . 15 1 25
- Wildfire Century.** Century size, with the brilliant, scarlet of the old Wildfire. . 15 1 25

MIXED DAHLIAS

- All Varieties and Colors** Each 10 100
Mixed \$0 15 \$1 25 \$10 00

PEONIES

If to be sent by mail, add postage at zone rates

Double Peonies 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 Peonies rank about first for lawn or flower-border, or shrubbery decoration.



Herbaceous Peony

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 PEONIES

Mailing rate, 1 lb. each

Delachei. Amaranth-purple-red; fra-	Each	10
grant.....	\$0 45	\$4 00
Dorchester. Delicate pink, late.....	45	4 00
Duchesse de Nemours. (Calot.) Sul-		
phury white.....	45	4 00
Edulis superba. Color, a beautiful bright,		
clear pink, with silvery reflex.....	60	5 50
Eugene Verdier. Pink and salmon.....	90	8 00
Felix Crousse. Brilliant red.....	75	7 00
Festiva maxima. White.....	45	4 00
Mme. de Verneville. Silvery white; ex-		
tra fine.....	60	5 50
Marie Lemoine. Full, double, white,		
creamy center; splendid flower.....	75	
Mons. Jules Elie. Satiny pink; early..	75	7 00
Double, Mixed, White	45	4 00
“ “ Crimson	45	4 00
“ “ Rose	45	4 00
“ “ Pink	45	4 00
“ “ Carmine	45	4 00
“ “ Red	45	4 00

LILIES

If to be sent by mail, add postage at zone rates

Lilies are easily grown and require little care. They do best in a light, well-drained soil. Some peat or leaf-mold may be used to advantage. They also prefer partial shade, and the taller sorts must have protection from high winds.

LILIUM LONGIFLORUM

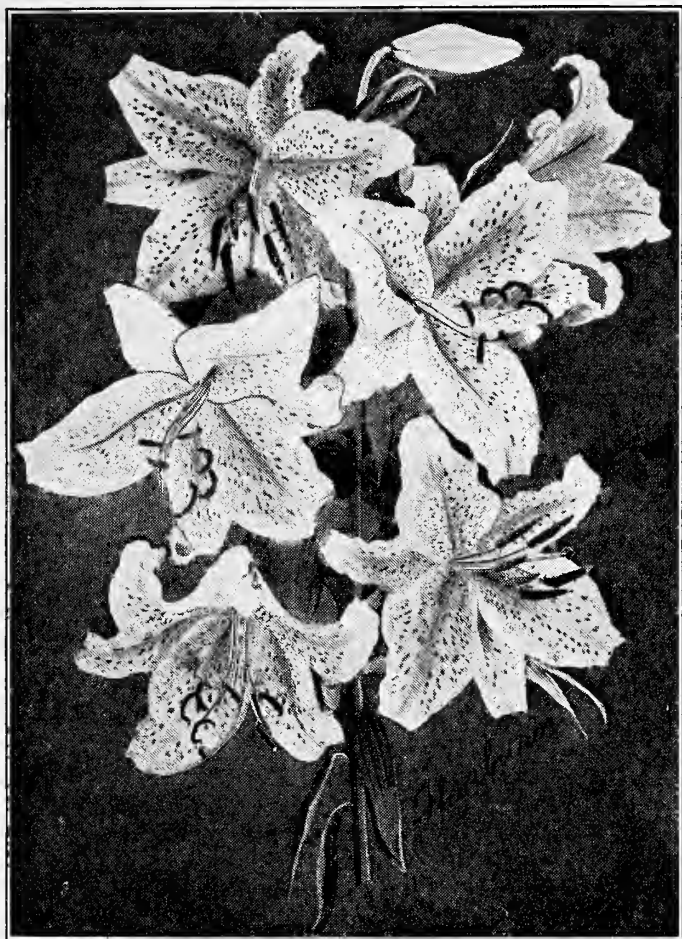
White Trumpet Lily

This is among the most beautiful and valuable of garden Lilies. It grows from 1 to 4 feet high, and bears many trumpet-shaped, sweetly scented, waxy white flowers of great substance. A well-drained, light loam, enriched with leaf-mold, suits it best.

Formosum. Pure white flow-	Each	10	100
ers, larger than <i>L. Harrisii</i> .			
Grows 2½ to 4 feet high.			
7 to 9-in. circum., black			
stem. (10 bulbs weigh			
3 lbs.).....	\$0 50	\$4 50	\$40 00
9 to 10-in. circum., black			
stem (10 bulbs weigh 5 lbs.)	65	6 00	55 00
Multiflorum.			
7 to 9-in. circum., (10 bulbs			
weigh 3 lbs.).....	35	3 00	25 00
9 to 10-in. circum. (10 bulbs			
weigh 4 lbs.).....	45	4 00	35 00
Multiflorum giganteum.			
7 to 9-in. circum., black			
stem (10 bulbs weigh 3 lbs.)	45	4 00	35 00
9 to 10-in. circum., black			
stem (10 bulbs weigh 4 lbs.)	60	5 50	50 00

JAPAN AND OTHER LILIES

Auratum (Gold-banded Lily). The	Each	10
grandest of all hardy Lilies, 3 to 6 feet		
high. Flowers white, spotted maroon,		
having a bright yellow band through		
the center of each petal. 8- to 9-in.		
circum. (10 bulbs weigh 3 lbs.).....		
	\$25 per 100..	\$0 35 \$3 00
9 to 11 in. in circum. (10 bulbs		
weigh 5 lbs.).....	\$40 per 100..	50 4 50
11 to 13 in. in circum. (10 bulbs		
weigh 7 lbs.).....	\$50 per 100..	60 5 50
Bolanderi. Bell-shaped, deep crimson		
flowers, dotted with purple. Grows 1 to		
3 feet high. Rare. (10 bulbs weigh 1 lb.)	60	5 00
Brownii. Most beautiful flowers of im-		
mense size; inside creamy white, outside		
white with purple midribs. A splendid		
pot plant. 2½ to 3½ ft. (10 bulbs weigh		
2 lbs.). From cold storage—cases only		
of 100 each, \$25.		
Canadense (Meadow Lily). Graceful,		
drooping, yellow flowers, spotted red.		
2 to 5 ft. (10 bulbs weigh 4 ozs.).....	15	1 25



Lilium auratum (see page 114)

JAPAN AND OTHER LILIES, continued

- Columbianum** (Oregon Lily). Orange flowers, dotted maroon; fragrant. (10 bulbs weigh 1 lb.) Largest size bulbs. Each 10 \$5 00
- Elegans Batemannia.** Unspotted, bright apricot flowers; beautiful variety. 3 to 4 ft. high (10 bulbs weigh 1 lb.)... 25 2 00
- Elegans Incomparable.** Deep red, spotted black (10 bulbs weigh 2 lbs.)... 25 2 00
- Krameri.** White, slightly tinged with red; sweet-scented (10 bulbs weigh 1 lb.). \$25 per 100... 35 3 00
- Leichtlinii.** Bright red spotted purple-black. 2 to 4 feet high (10 bulbs weigh 8 ozs.)... \$20 per 100... 30 2 50
- Henryi.** Very tall-growing variety; bright orange-yellow flowers, spotted reddish brown, with green band at the base of each segment; one of the very best of all Lilies for general culture; hardy, robust, long-lived and easily grown in almost any soil or situation. 4 to 8 ft. (10 bulbs weigh 3 lbs.)... \$30 per 100... 40 3 50
- Humboldtii type.** A grand Lily. Orange-red flowers, with small maroon spots. 5 ft. (10 bulbs weigh 1 lb.)... 60 5 00
- Kelloggii.** Slender stems bearing from 3 to 15 flowers, with pink, revolute petals; fragrant. 3 to 4 ft. (10 bulbs weigh 8 ozs.)... 60 5 00
- Pardalinum.** Large, showy flowers, richly colored and spotted. One half of each flower at the base is bright yellow, spotted brownish purple, while the remainder at the end is bright orange-scarlet. 4 ft. (10 bulbs weigh 1 lb.)... 25 2 00
- Parviflorum.** Large bulbs; flowers of same color as Pardalinum, but smaller, and are solitary; very charming (10 bulbs weigh 8 ozs.)... 50 4 00

- Philadelphicum.** Bright orange-red, Each 10 with black spots. 2 ft. (10 bulbs weigh 8 ozs.)... \$10 per 100... \$15 \$1 25
- Speciosum album.** Beautiful pure white flowers of large size; 2 to 4 feet high; one of the handsomest and easiest-grown Lilies we have. 7 to 9 in. (10 bulbs weigh 4 lbs.)... \$20 per 100... 25 2 25
9 to 11 in. (10 bulbs weigh 5 lbs.) \$32 per 100... 40 3 50
- Speciosum rubrum magnificum.** Very dark crimson-spotted flowers of large size and striking appearance. Grows 2 to 4 feet high and blooms profusely. 7 to 9 in. (10 bulbs weigh 4 lbs.)... \$20 per 100... 25 2 25
9 to 11 in. (10 bulbs weigh 5 lbs.)... \$32 per 100... 40 3 50
- Superbum** (Turk's-Cap Lily). Deep orange-red, thickly spotted purplish brown. 4 ft. (10 bulbs weigh 8 ozs.)... 15 1 25
- Tenuifolium** (Siberian Coral Lily). Rich scarlet. 1 1/2 ft. (10 bulbs weigh 8 ozs.). \$10 per 100... 15 1 25
- Thunbergianum aureum, Kikak.** Apricot-yellow, spotted black. 3 ft. (10 bulbs weigh 8 ozs.)... 20 1 50
- Thunbergianum elegans biligulatum** (Feu-Kwam). Deep chestnut-red spotted flowers (10 bulbs weigh 8 ozs.). 20 1 50
- Thunbergianum, Prince of Orange.** Soft buff flowers, spotted purple-black. 1 ft. (10 bulbs weigh 8 ozs.)... 25 2 00
- Tigrinum splendens** (Tiger Lily). Larger and stronger than the Common Tiger Lily. Rich scarlet, with black spots; large roots (10 bulbs weigh 2 lbs.)... \$7.50 per 100... 10 80
- Tigrinum flore-pleno** (Double Tiger Lily). Orange-red, black spots. The only desirable double-flowered Lily in cultivation (10 bulbs weigh 2 lbs.)... \$8 per 100... 10 85
- Umbellatum erectum.** Orange-red, slightly spotted with purplish black, tinged yellow in center (10 bulbs weigh 4 lbs.)... 15 1 25
- Umbellatum grandiflorum.** Orange-red. Similar in all respects to Erectum, except that flowers are larger (10 bulbs weigh 3 lbs.)... 15 1 25
- Umbellatum, Mixed.** (10 bulbs weigh 3 lbs.)... 15 1 00
- Wallacei.** Orange-red, maroon spots; late; easily grown, and deserving of more general culture, both for pots and open ground. 1 to 2 ft. (10 bulbs weigh 8 ozs.)... 50 4 50
- Washingtonianum.** A lovely native variety of very stately habit; large, trumpet-shaped flowers; pure white, tinged purple or lilac; very fragrant. 4 to 7 ft. (10 bulbs weigh 2 lbs.)... 40 3 50

LILY-OF-THE-VALLEY

If ordered sent by mail, add postage at zone rates

Pips for Forcing. Each bundle of 25 weighs 2 lbs. Per bundle of 25 \$1.50, per 100 \$5.50, per 1,000 \$50.

JAPAN IRIS (Iris Kaempferi)

If ordered sent by mail, add postage at zone rates (10 bulbs weigh 3 lbs.)

These Iris are most valuable for cut-flowers and table decorations—as handsome as Orchids. Supply water liberally when growing. Cut in the early morning or after sunset.

Apollo. Single; white, pink center.....	Each	10	100
	\$0 45	\$4 00	\$35 00
Blue Wing. Single; blue-white, shaded purple.....	45	4 00	35 00
Delice. Double; lavender and yellow.....	45	4 00	35 00
Distinction. Single; lavender and pink.....	40	3 50	30 00
Dominator. Single; indigo-blue.	45	4 00	35 00
Frate. Double; silvery white, veined and shaded lilac white, lilac center.....	55	5 00	45 00
Gold Bound. Double, pure white. One of the best.....	40	3 50	30 00
H. Von Sieboldt. Single, reddish veined, white center.....	40	3 50	30 00
Mars. Single; reddish veined, purple striped and blotched white.....	55	5 00	45 00
Mount Hood. Double, light blue, shaded darker, bright orange center.....	40	3 50	30 00
Ondine. Single; white shaded light blue toward center; very large. 9 to 10 in.....	55	5 00	45 00
P. C. de Rohan. Double; light purple, shaded violet; center dark purple.....	40	3 50	30 00
Pyramid. Double; light blue, veined white center each petal.	30	2 50	20 00
Red Riding Hood. Single; fine amaranth, veined and suffused white.....	40	3 50	30 00
Robert Craig. Double; French gray, veined violet.....	40	3 50	30 00
Spotted Beauty. Double; large size; wavy; double; silky white; freely and finely spotted with violet-crimson.....	55	5 00	45 00

Templeton. Double; violet, pink and white; often triple.....	Each	10	100
	\$0 40	\$3 50	\$30 00
T. S. Ware. Double; reddish violet, veined white.....	45	4 00	35 00
Venus. Single; pure white.....	45	4 00	35 00
Victor. Double white, veined purple; violet-purple center.....	40	3 50	30 00
Double and Single Mixed.....	20	1 50	12 00

IRIS PALLIDA

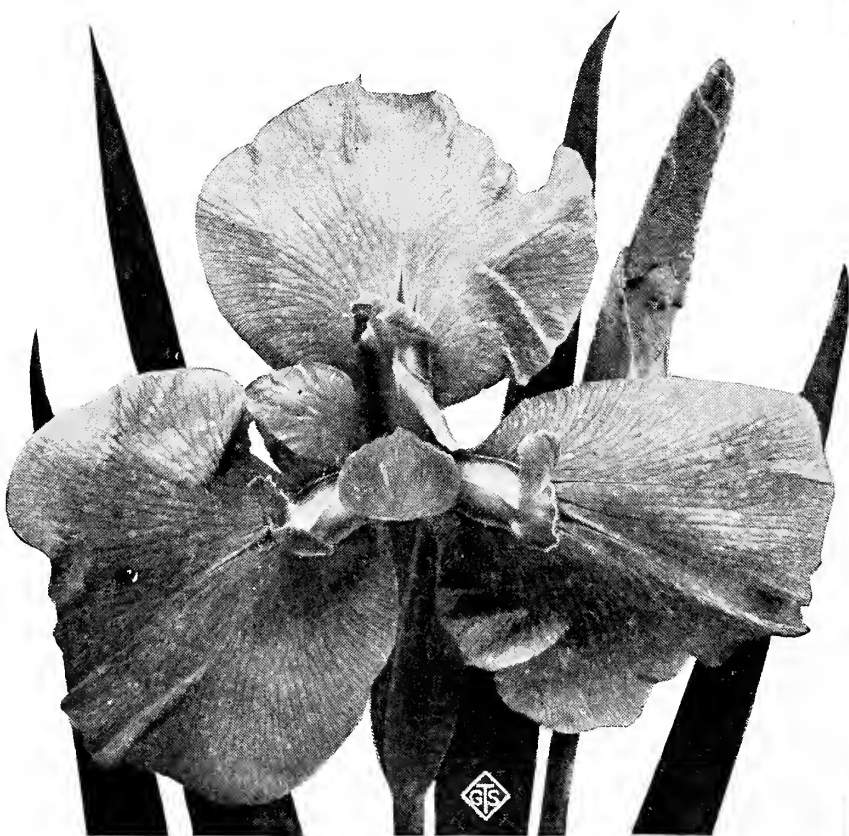
	Each	10	100
Pallida dalmatica.....	\$0 40	\$3 50	\$30 00
Pallida speciosa.....	30	2 50	20 00

GARDEN IRIS

(Iris Germanica)

Will thrive in almost any good garden soil, except one that is wet.

Admiral Togo. White, faintly tinged lavender; falls and standard lightly bordered purple. Extra-fine clear color....	Each	10	100
	\$0 15	\$1 25	\$10 00
Brooklyn. Standards lavender, yellow at base; falls pale blue; base veined brown on a white ground, edged yellow, splashed with dark blue; beautiful.....	15	1 25	10 00
Flavescens. Self-color, canary-yellow.....	15	1 25	10 00
Florentina alba. An excellent variety for cutting and an early bloomer. Flowers ivory-white tinged with lilac. The orris-root variety of commerce.....	15	1 25	10 00
Florentina, Blue. Tall and vigorous; deep dark blue.....	15	1 25	10 00
Gracchus. Standards clear yellow; falls marked red, reticulated white. A very conspicuous variety.....	25	2 00	18 00
Herant. Standards bright blue; falls much darker. A beautiful broad-leaved sort; early flowering.....	15	1 25	10 00
L'Africain. Standards rosy purple; falls darker veined, white at base, dwarf.....	20	1 75	15 00
Lizzie. Standards pure yellow; falls dark, bronzy crimson.....	15	1 25	10 00
Mme. Chereau. Pure white, edged with azure-blue; falls deep white with blue penciling.....	15	1 25	10 00
Mrs. H. Darwin. Pure white; falls slightly reticulated violet at base; very beautiful and free flowering; early.....	25	2 00	18 00
Pauline. Standards bright blue; falls a little darker.....	15	1 25	10 00
Queen of May. This is a very satisfactory variety and well adapted everywhere. It is soft, rosy lilac, almost pink. A color rare among Irises.....	30	2 75	24 00
All Colors Mixed.....	10	75	6 00



Iris Kaempferi

MISCELLANEOUS BULBS

AMARYLLIS formosissima (Jaco- bean Lily). Dark crimson.....	Each 10	\$0 25	\$2 00
Reginæ (<i>Hippeastrum Reginæ</i>). Soft light scarlet, with white center on throat.....	45	4 00	
BEGONIA, Tuberos-rooted. Single; Scarlet, White, Yellow.....	30	2 50	
crispa. White. Beautifully shaped, gracefully frilled and crested flowers.	30	2 50	
CALLA æthiopica (White Calla or Lily- of-the-Nile). Large, white, trumpet- shaped flowers.....	\$30 per 100.. 40	3 50	
Elliottiana, Yellow, Spotted Leaf. Dark green leaves, spotted silvery white.....	\$30 per 100.. 40	3 50	
CINNAMON VINE.	\$5 per 100.. 10	60	
CRINUM Powellii. Produces long stems, bearing at the top five to eight large, bell-shaped flowers.....	25		
FUNKIA variegata	15	1 25	
HEMEROCALLIS flava (Yellow Day Lily).....	15	1 00	
fulva. Coppery orange, shaded crimson.	15	1 00	
HYACINTHUS candicans (Galtonia). Pure white.....	10	75	
MADEIRA VINE. Selected.....	10	75	

OXALIS, Yellow Buttercup	Each 10	\$0 30	\$2 50
grandiflora, Grande Duchesse. Pink.	25	2 00	
“ “ “ White	25	2 00	
“ “ “ Lav- ender.....	25	2 00	
HARDY PHLOX (Decussata). A flower of more than usual beauty that will succeed in almost any kind of soil or climate. May be planted in the spring or fall.			
Miss Lingard. Pure white.....	25	2 00	
Mrs. Jenkins. Pure white.....	25	2 00	
Rheinlander. Salmon-pink.....	35	3 00	
R. P. Struthers. Rosy carmine.....	35	3 00	
Rijnstrom. Rose-pink.....	35	3 00	
TRILLIUM erectum. Dark purple; erect habit.....	\$4.50 per 100.. 10	50	
grandiflora (Giant American Wood Lily or “Wake Robin”). Large, white flowers, easily grown in shaded posi- tion.....	\$4 per 100.. 10	50	
TRITOMA Pfitzeri. Large spikes of flame-colored flowers.....	25	2 00	
ZEPHYRANTHES candida. White; greenish base.....	15	1 00	
rosea	25	2 00	
striata	15	1 00	

Insecticides and Remedies for Plant Diseases

ALL SUBJECT TO CHANGE IN PRICE WITHOUT NOTICE

Postage, express or freight charges to be paid by purchaser

ANT-DESTROYER. Will positively destroy ants. ¼-lb. tins.....	\$0 20	1-lb. tins.....	\$0 60
½-lb. tins.....	35	5-lb. tins.....	2 75
APHINE. Has no equal for the destruction of green, black, or white fly, thrips, red spider, mealy bug, etc. Use one part to 40 of water. Does not injure the most tender plants. ¼pt.....	\$0 25	Pt.....	\$0 65
½pt.....	40	Qt.....	1 00
Gal.....	3 00		
APHIS PUNK. Paper saturated with nicotine for fumigating in greenhouses. Per box, 12 sheets.....	\$0 75		
12 boxes.....	8 50		
ARSENATE OF LEAD, PASTE. Adheres well to foliage and does not readily wash off. It remains well suspended in solution, insuring even distribu- tion. It is white, and shows just where it has been applied. It does not injure tender foliage. Lb.....	\$0 35	25 lbs.....	\$6 50
5 lbs.....	1 50	50 lbs.....	12 50
10 lbs.....	2 75	100 lbs.....	24 00
ARSENATE OF LEAD, POWDER. One to 1½ pounds to 50 gallons of water. Lb. 60 cts.			
BORDEAUX MIXTURE, or FUNGIROID. For all fungous diseases. Dry— 1-lb. can.	\$0 50	5 lbs.....	\$2 00
50 lbs.....	15 00		
Liquid— Qt.....	\$0 50	Gal.....	\$1 50
5-gal. keg.....	4 50		

BORDEAUX PASTE. 1 lb.....	\$0 30	5 lbs.....	\$1 30
BORDEAUX ARSENATE LEAD, PASTE. Lb.....	\$0 35	10 lbs.....	\$2 50
5 lbs.....	1 50	25 lbs.....	6 00
50 lbs.....	10 50		
BUG DEATH. This is a fungicide, insecticide, and plant food combined, and contains neither paris green, or arsenic. Lb.....	\$0 20	5 lbs.....	\$0 75
3 lbs.....	50	12½ lbs.....	1 50
BLACK-LEAF 40. For spraying vegetables, fruits, and flowers to destroy sucking insects. 1-oz. bottle.....	\$0 25	2-lb. tin.....	\$3 25
½-lb. tin.....	1 00	10-lb. can.....	13 75
CATTLE COMFORT. A protection from flies, etc., for live-stock. Gal.....	\$1 75	5 gals.....	\$8 00
COPPER SOLUTION, Ammoniated. Prevents black and brown rot, mildew and other grape diseases, pear and apple scab, leaf blight, tomato rot, potato blight, melon blight, etc. Dilute one part to 100 parts of water; spray lightly. Qt.....	\$1 25	Gal.....	\$3 25
CUTWORM KILLER. Kills the worms; simple and easy to use; specially prepared for bringing young plants through the critical period. 1-lb. pkg.....	\$0 35	5-lb. pkg.....	\$1 25
CUTWORM PREVENTIVE. Of inestimable value. Cutworms will not infest soil mixed with this prepa- ration. 5-lb. can.....	\$0 75	10-lb. can.....	\$1 40

INSECTICIDES AND REMEDIES FOR PLANT DISEASES, continued

“ELECTRIC” WORM ERADICATOR. For killing all grubs, insects and worms that do their destructive work at the roots of plants and trees, and infest lawns, golf-courses, etc. For most pests, 4 ounces to each 4 gallons of water; for cutworms, 4 ounces to 2 gallons of water.

8-oz. bottle....\$0 50 | Gal.....\$4 00
 24-oz. bottle.... 1 00 | 5 gals.....17 50
 10 gals.....34 00

FIR-TREE OIL. Dilute 1 pint to 20 gallons of water. Apply with vaporizer or syringe.

½pt.....\$0 75 | Qt.....\$2 25
 Pt..... 1 25 | ½gal..... 4 00
 Gal..... 7 00

FIR-TREE OIL SOAP. Mix at the rate of 1 ounce to a gallon of water, and apply with a bellows or syringe.

½-lb. tin.....\$0 30 | 2-lb. tin.....\$0 85

FISH-OIL SOAP. (Formerly called Whale-Oil-Soap.) For washing trees and destroying all insects on the bark.

Lb.....\$0 25 | 10 lbs.....\$2 20
 5 lbs..... 1 20 | 100 lbs.....20 00

FUNGINE. For mildew, rust, and all other blights, does not stain foliage.

Pt.....\$0 65 | Qt.....\$1 00
 Gal..... 3 50

GRAPE DUST, Hammond’s. For the prevention of mildew on roses, grapes, gooseberries, etc. Apply with bellows.

5 lbs.....\$0 90 | 10 lbs.....\$1 40
 100 lbs.....12 50

HELLEBORE. Apply dry or mix in water—1 ounce to 3 gallons.

Lb.....\$0 60 | 2 lbs.....\$1 10

HERBICIDE. The weed exterminator. Dilute with from 20 to 40 parts of water.

½gal.....\$1 00 | 5 gals.....\$7 00
 Gal..... 1 75 | 10 gals.....12 50

IMP SOAP SPRAY. Contains no mineral poisons; used on all kinds trees and plants.

Pt.....\$0 50 | Gal.....\$2 25
 Qt..... 75 | 5 gals.....10 00

KEROSENE EMULSION. For cabbage worms, scale on trees, caterpillars, melon lice, rose bugs, etc. Dilute 25 to 50 parts.

Qt.....\$0 55 | Gal.....\$1 50
 ½gal..... 1 00 | 5 gals..... 6 50

KILM WEED ERADICATOR. A patented tube containing a powerful weed-killer. Will exterminate dandelion from lawns. Easy to use. 50 cts. each. Extra tubes of powder for recharging, 25 cts. each.

LAWN COMPOUND, Sterlingworth. A non-poisonous powder to destroy plantain, dandelion, chickweed, and most other weeds having a broad, hairy surface, without killing the grass. Five pounds will dress 500 to 1,000 square feet, according to condition of the lawn.

5-lb. can.....\$0 75 | 50-lb. keg.....\$5 00
 10-lb. can..... 1 25 | 100-lb. keg..... 9 00

LEMON OIL. For destroying scale, caterpillar, mealy bug, etc. Directions on can.

½pt.....\$0 30 | Qt.....\$0 90
 Pt..... 50 | ½gal..... 1 50
 Gal..... 2 50

LIME-SULPHUR SOLUTION, California Wash. For San José scale. One gallon makes 15 by adding water.

Qt.....\$0 50 | ½bbl. (25 gals.)..\$9 50
 Gal..... 75 | Bbl. (50 gals.)....17 50
 5 gals..... 3 50

LIME-SULPHUR. Dry, B. T. S. Make your own solution. One pound makes 4 gallons of spray.

Lb.....\$0 35 | 5 lbs.....\$1 25
 100 lbs.....16 00

NICO-FUME LIQUID. For fumigating or spraying. Effective against green fly, mealy bug, etc. Does not stain or injure blooms, and leaves no disagreeable odor. For spraying, one to two tea-

spoonfuls to a gallon of water. Lamps, 60c. each.
 ¼lb.....\$0 65 | 4 lbs.....\$7 50
 Lb..... 2 00 | 8 lbs.....14 50
 Fumigators, 60 cts. each.

NICO-FUME TOBACCO PAPER. For fumigating. Does not injure blooms. In tins.

24 sheets.....\$1 25 | 144 sheets.....\$5 00
 288 sheets..... 9 50

NIKOTEEN, Liquid. Lb. \$2.

PARIS GREEN. Mix at rate of 1 pound to 200 gallons of water. Effective against all chewing insects.

¼-lb. can.....\$0 25 | ½-lb. can.....\$0 40
 1-lb. can (All subject to change)..... 75

PYROX. The best and safest all-round spray for all insects, blights and fungus troubles. Kills potato bugs. Sticks like paint.

Lb.....\$0 40 | 25 lbs.....\$6 25
 5 lbs..... 1 75 | 50 lbs.....11 00
 10 lbs..... 3 00 | 100 lbs.....20 00

READEANA. Rose bug exterminator in liquid form.

8-oz. can.....\$0 50 | Qt.....\$1 35
 Gal..... 4 00

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.....\$0 70 | 5 gals.....\$6 80
 Gal..... 1 60 | 10 gals.....11 70

SLUG-SHOT, Hammond’s. Excellent for destroying cabbage, turnip and beet flies, potato bugs, currant worms, etc.

Lb.....\$0 20 | 10 lbs.....\$1 25
 5 lbs..... 65 | 100 lbs.....11 00

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.....\$0 10 | 8-oz. box.....\$0 20

SULPHUR, POWDERED. Valuable for protecting against mildew on grapes, roses, etc.

Lb.....\$0 15 | 10 lbs.....\$1 00
 100 lbs..... 8 00

TOBACCO DUST—

Regular Kind. Highest grade for dusting.

Lb.....\$0 10 | 10 lbs.....\$0 60
 5 lbs..... 35 | 100 lbs..... 3 50

Stoothoff’s “Black Stuff.” For dusting.

25 lbs.....\$1 75 | 50 lbs.....\$3 00
 100 lbs..... 5 50

Stoothoff’s “Fumigating Kind.” (Aphicide Powder.) For burning.

25 lbs.....\$1 75 | 50 lbs.....\$3 00
 100 lbs..... 5 50

INSECTICIDES AND REMEDIES FOR PLANT DISEASES, continued

TOBACCO STEMS. For fumigating. In bales of about 150 lbs., at \$2.75 per 100 lbs.

TREE TANGLEFOOT. A sticky substance applied directly to the bark to protect trees against climbing insect pests. One application remains sticky, fully exposed to weather, three months. One pound will make a band 7 to 8 feet long and about 6 inches wide.

1-lb. tin.....\$0 50	10-lb. tin.....\$4 50
3-lb. tin..... 1 45	20-lb. tin..... 8 75

VERMINE. A soil sterilizer and germicide for all soil vermin, such as cut, eel, wire and grub worms, slugs, maggots, ants, etc.

¼pt.....\$0 25	Pt.....\$0 65
½pt..... 40	Qt..... 1 00
Gal.....	3 00

WEED-KILLER, Pino-Lyptol. This fluid absolutely destroys all the weeds and other growth wherever applied. Mix one part Pino-Lyptol with 10 to 15 parts of water.

Gal.....\$1 75	5 gals.....\$8 50
10 gals.....	17 00

WEED KILLER, Sterlingworth. A powerful powder for destroying vegetation of all sorts on gravel walks. Also excellent for destroying poison ivy.

Lb.....\$0 50	5 lbs.....\$2 25
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X-L-ALL LIQUID INSECTICIDE. An efficient preparation for spraying. Purely nicotine; harmless to very delicate plants; kills mealy bugs, red spider and all insect pests.

Pt.....\$1 25	½gal. can.....\$3 50
Qt..... 2 00	1-gal. can..... 6 00

High-Grade Fertilizers

ALL NET CASH—PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Complete Manure

Guaranteed to contain ammonia, 2 per cent; available phosphoric acid, 9 per cent; actual potash 1 per cent; sulphate of magnesia, soda, lime, sulphuric acid, etc. Adapted for use on all crops, such as corn, tomatoes, peas, etc., and is especially suited for grain crops. Use 1,200 to 1,500 pounds to the acre.

Ton.....\$57 00	Bag of 100 lbs.....\$3 50
Half-ton..... 29 50	50 lbs..... 2 00
Quarter-ton..... 15 75	25 lbs..... 1 25
Single bag of 200 lbs..... 6 50	10 lbs..... 60

Lawn Fertilizer

Guaranteed to contain ammonia, 4¾ per cent.; available phosphoric acid, all soluble, 5 per cent; actual potash, 1 per cent; lime, sulphate of magnesia, soda, sulphuric acids, etc. Specially prepared for lawns and meadows as a top-dressing. Apply broadcast at rate of 1,000 to 1,500 lbs. to the acre.

Ton.....\$55 00
Half-ton..... 28 50
Quarter-ton..... 15 00
Single bag of 200 lbs..... 6 50
Bag of 100 lbs..... 3 50
50 lbs..... 2 00
25 lbs..... 1 25
10 lbs..... 75

Golden Potato Manure

Guaranteed to contain ammonia, 4 per cent; available phosphoric acid, 9 per cent; actual potash, 1 per cent; sulphate of magnesia, soda, lime, sulphuric acid, etc. This manure is for special use on the Potato crop, and is also adapted to Sweet Potatoes, Vines, Fruit Trees, etc. Use broadcast, about 1,500 pounds to the acre.

Ton.....\$75 00
Half-ton..... 38 50
Quarter-ton..... 20 50
Single bags of 200 lbs..... 8 50
Bag of 100 lbs..... 4 50
50 lbs..... 2 50
25 lbs..... 1 50
10 lbs..... 80

Potomac Potato Manure

Guaranteed to contain ammonia, 4 per cent; available phosphoric acid, 8 per cent; actual potash, 3 per cent.

Ton.....\$82 00
Half-ton..... 42 00
Quarter-ton..... 22 00
Single bags of 200 lbs..... 9 75
Bag of 100 lbs..... 5 50
50 lbs..... 3 00
25 lbs..... 1 75
10 lbs..... 90

Agricultural Salt

Prices very changeable

For asparagus beds, etc. In bags of about 200 pounds.

Bag.....\$3 50	Ton, about.....\$30 00
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Not less than one bag sold.

Bowker's Ammoniated Food for Flowers

Excellent for use on house plants, being entirely odorless.

Small pkg.....\$0 25	Large pkg.....\$0 50
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Hardwood Ashes

Highest grade unleached. For top-dressing lawns, especially if the soil is stiff or sour, 1½ to 2 tons to the acre.

Per 100 lbs.....\$2 50	½ton.....\$21 00
Ton..... 40 00	

(In barrels of 175 to 200 lbs., barrels weighed in)

HIGH-GRADE FERTILIZERS, continued

Clay's Celebrated Fertilizer

Prices in bags (subject to change)

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.

¼cwt. (28 lbs.).....	\$4 50
½cwt. (56 lbs.).....	8 00
Cwt. (112 lbs.).....	15 00

Thomson's Vine Manure

Unrivalled for vines, tomatoes, cucumbers, fruit trees and all foliage, flowering and fruit-bearing plants, also for vegetables and outdoor plants of every description. The result of many years' practical experience.

½cwt. (56 lbs.).....	\$5 00
Cwt. (112 lbs.).....	9 00

Thomson's Special Chrysanthemum Manure

½cwt. (56 lbs.).....	\$8 00
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Pulverized Sheep Manure

Sheepshead Brand

A rich, pure, natural manure. Excellent as a top-dressing for lawns. Its effect is immediate and lasting. Apply at the rate of 1,500 pounds to the acre. It makes a rich and safe liquid manure—one pound to five gallons of water.

1-lb. pkg.....	\$0 15	100 lbs.....	\$3 00
5-lb. pkg.....	50	¼ton.....	13 50
25 lbs.....	1 25	½ton.....	26 00
50 lbs.....	2 00	Ton.....	50 00

Nitro-Fertile

The odorless liquid fertilizer for use on vegetable and flower-garden, lawns, shrubbery, etc., to force growth.

½pt.....	\$0 35	Qt.....	\$1 05
Pt.....	60	½gal.....	1 70
Gal.....	3 00		

One gallon is sufficient for one season for the average garden or lawn allowing for three or four applications.

Pulverized Limestone

A product that has an exceedingly wide sale among intelligent agriculturists, with the best of results. As a crop-producer we hardly believe it has an equal. It is made from the purest crystalline white limestone obtainable, and analyzes about 97 per cent carbonate.

Bag of 100 lbs....	\$1 50	½ton.....	\$11 00
Ton.....			20 00

**Lawn (Evergreen) Lime
The Grass and Garden Tonic**

Will cure the acidity of the soil, renovate old lawns, and is a sanitary and healthful fertilizer.

50-lb. bags.....	\$1 00	25-lb. bags.....	\$0 60
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Bone Fertilizers, Etc.

Prices subject to change

Pure Ground Bone Meal No. 1. Finely pulverized; excellent for rose-culture. It decomposes very rapidly, and is more quickly effective than the coarser grades. It is excellent for mixing with the soil for potting.

5 lbs.....	\$0 50	100 lbs.....	\$4 50
10 lbs.....	80	¼ton.....	20 00
25 lbs.....	1 30	½ton.....	38 00
50 lbs.....	2 40	Ton.....	74 00

Ground Bone No. 2. Coarser than the above; for top-dressing for lawns, and for garden and field crops.

100 lbs.....	\$5 25	½ton.....	\$41 50
¼ton.....	21 75	Ton.....	81 00

Ground Bone No. 3. A little coarser than No. 2.

100 lbs.....	\$5 00	½ton.....	\$39 00
¼ton.....	20 50	Ton.....	76 00

Leaf-Mold. Indispensable for azaleas, rhododendrons, etc. Bbl. \$2.50.

Moss, Sphagnum. For filling orchid baskets, etc., and for mixing with potting soil to conserve moisture. In bales (35 to 40 lbs.) at 15 cts. per lb.

Peat, Orchid. For potting orchids, etc. Barrel, \$2.50.

Peat, Rotted. Fine for mixing with soil for potted plants such as azaleas, palms, etc. Barrel, \$2.50.

Other Fertilizers

Prices very variable, all subject to change without notice

ACID PHOSPHATE. Sixteen per cent available phosphoric acid.....	200-lb. bag	\$4.00	} Prices subject to change
TANKAGE (Blood and Bone Fertilizer)	200-lb. bag	\$9.00	
IMPORTED SCOTCH SOOT	112-lb. bag	\$5.00	
NITRATE OF SODA	100-lb. bag	\$8.00	
FARMOGERM. See page 58. Price, garden size, 50 cts.; 1-acre bottle, \$2; 5-acre bottle, \$8.			
MULFORD CULTURES. See page 58. Price, garden size, 25 cts.; ¼-acre size, 50 cts.; 1-acre size bottle, \$1.50; 5-acre size bottle, \$5.			

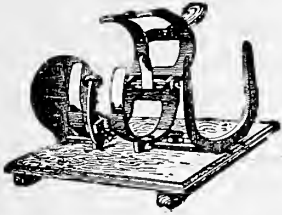
MULFORD CULTURES greatly increase the yield of Alfalfa, Clover, Cow-peas, Soy Beans, Vetches, and other Legumes and these crops add humus and nitrogen to the soil, thus increasing the crops of Wheat, Cotton, Corn, and the like. Why waste time and labor in producing half a crop when Mulford Cultures will double the yield? See page 58 for full information.

Horticultural Implements and Garden Requisites

ALL NET CASH

POSTAGE, EXPRESS OR FREIGHT CHARGES TO BE PAID BY PURCHASER

Prices not guaranteed, subject to change



ASPARAGUS BUNCHER.

Acme. The most popular make. \$3.25.

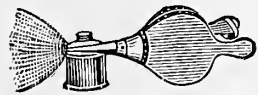
ASPARAGUS KNIVES.



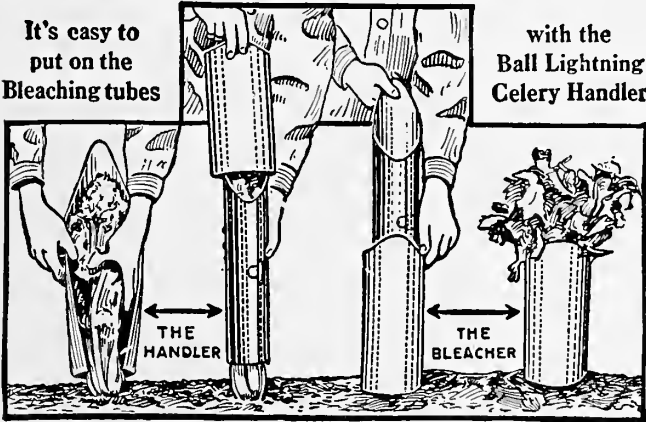
English. (Saw Blade.) \$1.



Granite State. 40 cts.



ATOMIZER.
Large, \$3.50.
Small, \$3.



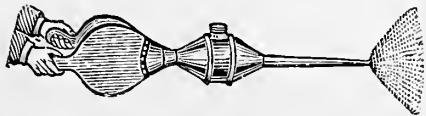
It's easy to put on the Bleaching tubes

with the Ball Lightning Celery Handler

BALL LIGHTNING CELERY BLEACHERS.

Used for bleaching celery without banking up with earth or boards. Great labor-saver.

	100	1,000
6 x 12 in.....	\$2 20	\$18 00
6½ x 13 in.....	2 50	21 00
7 x 14 in.....	2 80	24 00
Brass Celery handlers	\$3.50 each.	



BELLOWS.

Woodason's Double - Cone, Powder. \$5.25.



Single - Cone, Large. \$3.50.

Small, \$2.25.



JUMBO POWDER GUN. It is

4 inches in diameter, holds 4 ounces of powder, and serves its purpose well. 40c.



BILL AND BRUSH HOOKS.

For heavy pruning.

English. S-handle. \$2.75.

American. Long handle. \$1.

BORDER SHEARS. See p. 124.

CARNATION SUPPORTS. Made of light wire, galvanized.

Doz. 100
2-Ring. \$0 75 \$5 00
3-Ring. 1 00 5 50



CORN KNIFE.

Worthington, No. 2. 25 cts., (See, also, Grass Hooks.)



DIBBLES, All Iron. 50 cts.

Wood Handle, brass point, 75 cts.; iron point, 50 cts.

DANDELION PULLER. Hall's. 50 cts. each.



CLOG-PROOF CLAW, HOOKS ONTO THE ROOT



EDGING KNIVES. Grass, English.

8-in.....\$2 50
9-in..... 2 75
10-in..... 3 00
Without handle.
Handles, 60 cts., extra.

FLOWER-POTS. See page 126.

FORKS,

Digging or Spading. Best quality, spear point, diamond-back tines. Strapped handle, Long or D. Each

4-tine.....\$1 50
Hay. First-quality oval tines. Extra-long strapped handle. 2-tine.... 90
3-tine..... 1 25

Manure, Long. Strapped handle. 4-tine..... 1 40
5-tine..... 1 75

Manure, D-handle.
4-tine..... 1 65
5-tine..... 2 00



Ladies' Weeding. American short-handle.... 40
Boy's Spading. 4-tine.. 75

FRUIT-PICKERS.

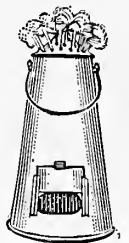
Perfect. Galvanized steel wire, attaches to pole of any length. Price, without pole, 60 cts. **Poles,** for above, 60 cts. each.

FUMIGATING LAMP.

"Defiance." For all vaporizing liquids. No glass. Burns kerosene. 60 cts.

FUMIGATOR, "Eureka." For fumigating with tobacco stems. Very best quality, heavy galvanized tin.

No. 2 holds 1 pk..\$2 75
No. 3 holds ½ bus. 3 25

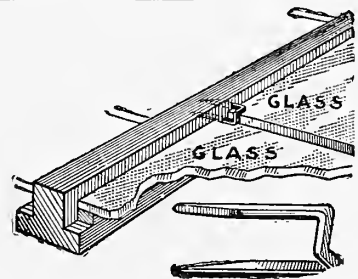


GARDEN LINES.

Finest Braided. 96 feet, \$1.

GARDEN REELS. For garden lines. Wrought-iron. Holds 100 feet, \$1; larger size, \$1.50.

GARDEN TOOLS for Ladies. Set of 3 pieces (spade, hoe and rake). \$1.75.



GLAZING POINTS, The Tiger.

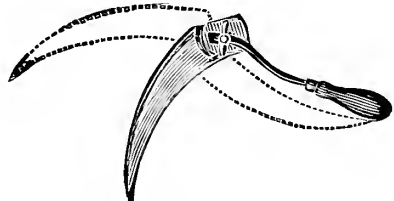
No. 2, 65 cts. per 1,000.
No. 2½, 70 cts. per 1,000.
Pincers, for above. 55 cts.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

GLASS CUTTER, "Red Devil."
Hand-honed wheels. Standard of the world. 10, 15 and 25 cts. each.

GLOVES, Gardeners', Goat-skin. For men only. \$2.
Pig-skin. \$1.50.

GRAFTING WAX. The best grade. 1/4-lb. pkg. \$0 20
1/2-lb. pkg. 25
1-lb. pkg. 40



GRASS HOOK or Corn Knife, Crescent. Adjustable. 50c.

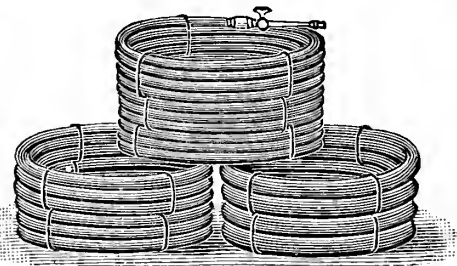
GRASS HOOKS (Sickle), English Riveted Back. Thin, sharp blades. 65 cts.
With Trowel Shank. The handle is raised from the blade, making it possible to cut close without bruising the knuckles. 60 cts.

HOES, Garden. Draw, or Corn.
5-in. 70 cts., 6-in. 80 cts., 7-in. 90 cts.

English Scuffle, Finest quality steel.
5-in. \$1 15
6-in. 1 30
7-in. 1 40
8 in. 1 50
9-in. 1 65
Handles 60 cts. each extra.

Crescent Shape Scuffle Hoes.
Handled. 50 cts. each.

Warren. Short handle. 45c. ea.
Long handle. \$1.
Used in drilling seed.



HOSE, Rubber. 3/4-in.
Electric. In 25- and 50-ft. lengths, 23 cts. per ft.
Thorburn Standard.
X, 6-ply, 18 cts. per ft.
XXX, 7-ply, 20 cts. per ft.
Our hose is carefully selected, made of first-class material and coupled at both ends. In 25- or 50-ft. lengths.

HOSE END, No. 1. For connecting hose with ordinary faucets. 50 cts. each.

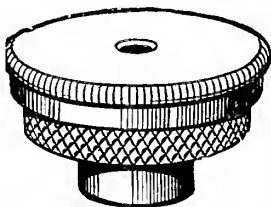
HOSE COUPLINGS—
1/2-in. \$0 30
3/4-in. 35
1-in. 40

HOSE NOZZLES, Graduating Lawn Hose Nozzle. Will throw coarse or fine spray, or solid stream. 3/4-in. 75 cts. ea.

Boston Hose Nozzle. For 3/4-in. hose. 80 cts.

Fountain Brass Hose Nozzle. 25 cts.

"Bordeaux" Spraying Nozzle. For 1/4-in. pipe. \$1.25.



Shower Spray Nozzle. A perfect spray nozzle made of brass; non-corrosive—will not clog. Has both fine and coarse sprays. \$1.35 each.



Stott Spray Nozzle. Gives an exceptionally fine spray. Impossible for it to get out of order. Single Spray, for 3/4-in. connection. \$1.75 each.
Double Spray. \$2.25 each.

Vermorel Spray Nozzle. 85c

HOSE BANDS, for couplings.
To fit 1/2-in. hose, 75c. per doz.
To fit 3/4-in. hose, 85c. per doz.
To fit 1-in. hose, \$2 per doz.

HOSE MENDERS, Cooper's.
Brass; will not rust or wear. No fastening required. For hose with 1/2-in. bore, 10 cts. each, \$1 per doz.
For hose with 3/4-in. bore, 12 cts. each, \$1.25 per doz.

HOSE REELS, Tubular Iron.
Never break or wear out. No. 10 will hold 100 ft. of 3/4-in. hose, \$5. No. 20 will hold 150 ft. of 3/4-in. hose, \$6. No. 30 will hold 500 ft. of 3/4-in. hose, \$9.

HOTBED SASH. Best quality. Packing at cost.

Unglazed. 3 x 6 ft. for 10 x 12 glass.

Glazed and Painted. 3 x 6 ft., 10 x 12 glass.

Glazed and Painted. 3 x 6 ft., 10 x 12 double thick glass.

Prices on application



HOTBED MATS for Covering Sashes. Padded, stitched and hemmed. Size, 76 in. by 76 in.; one mat covers two sashes. \$4 each, \$42 per doz.

KNIVES, Saynor's Celebrated English. Best make.

No. 196. Buckhorn handle \$4 00

No. 343. Ivory handle... 3 00

No. 400. Ivory handle... 3 25

No. 401. Ivory handle... 3 00

No. 403. Ivory handle... 3 25

No. 80. Wood Handle Pruner, American. \$1.

H. B. Budders. 2 blades. \$1.50.

LABELS, Wooden, Pot and Garden.

	Plain		Painted	
	100	1,000	100	1,000
4-in. \$0 15	\$0 90	\$0 15	\$1 20	
4 1/2-in. 15	1 00	20	1 35	
5-in. 20	1 15	25	1 60	
6-in. 25	1 45	30	1 90	
8-in. 55	4 55	60	5 60	
12-in. 1 00	8 00	1 10	8 80	
24-in. 2 50				

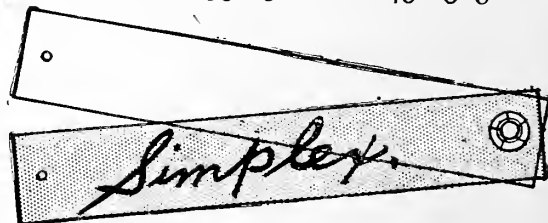
Wooden, Notched Tree.

3 1/2-in. cop-

per wire 35 2 25 40 3 00

6-in.

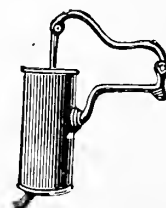
no wire. 35 3 00 45 3 30



Simplex Weatherproof Plant Labels. No. 1. 3 1/2 x 1/2 in.

25 cts. per doz., \$2 per 100.

No. 2. 4 x 3/4 in. 50 cts. per doz., \$4 per 100.



MASTICA GLAZING MACHINE. \$2.40.

MASTICA. For use in the above machine. Gal. \$2.40.

MOLE TRAPS,

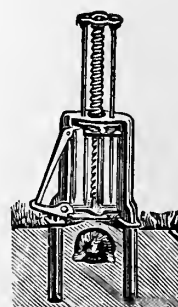
Olmsted's Improved.

A short trap, suitable for lawns or coldframes.

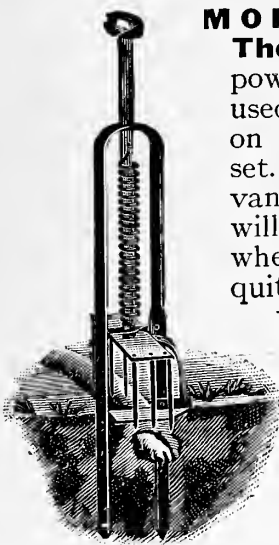
Made from good quality steel.

Practically indestructible.

\$1.50 ea.



HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued



MOLE TRAP, The Reddick. A powerful trap used principally on lawns; easily set. Made of galvanized iron. It will catch moles when they are quite deep in the und. As the points of the pin are constantly in the ground, they cannot injure chickens or domestic animals. \$1 ea., \$9.50 per doz.

PENCILS. For writing garden labels. Black, 5 cts. each, 50 cts. per doz.

Wolf's Indelible. Imported from England. 15 cts. each, \$1.50 per doz.

PLANT DUSTERS, Dickey Duster, for applying dry insecticides, 50 cts.



B-D SIFTER, also for applying dry powders. 75 cts.

PLANT STAKES, Round, Painted Green. Doz. 100
 2 ft. \$0 60 \$4 50
 3 ft. 70 5 50
 4 ft. 1 00 7 50
 5 ft. 1 30 9 00
 5 ft., ex. heavy. 2 00 14 00
 6 ft., ex. heavy. 2 15 15 00

Heavy Square, Tapering, Painted Green. Doz. 100
 2 ft. \$0 35 \$2 25
 3 ft. 95 6 00
 4 ft. 1 25 8 50
 5 ft., ex. heavy. 2 25 16 00
 6 ft., ex. heavy. 2 50 18 00

Dahlia Poles, Painted Green, White Tops. Doz. 100
 2 ft. \$0 70 \$4 50
 3 ft. 90 6 50
 4 ft. 1 20 9 00
 5 ft. 1 50 11 00
 6 ft. 1 80 13 00

Plant Stakes, Galvanized Wire, for Roses, etc. Doz. 100
 2 ft. \$0 25 \$1 50
 3 ft. 35 2 00
 4 ft. 45 2 50
 5 ft. 60 2 75

Japanese Bamboo. Bundles of 100 only. 6 ft., \$1.75.

PRUNERS.

Waters' Long-handled Tree.
 4 ft. \$0 75 | 8 ft. \$1 65
 6 ft. 1 50 | 10 ft. 1 75
 12 ft. 1 85
Extra Blades. 25

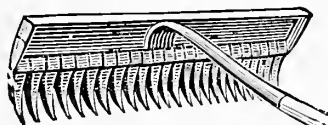


PRUNING KNIFE, Kansas. Automatic, strong, durable and a good time-saver. Has compound leverage, which greatly increases the power. \$2.50 each.

PUTTY FOR GLAZING. Twemlow's Old English. Can be used with machine or bulb. \$2 per gal. 5- and 10-gal. buckets.



RAFFIA, very best brand for tying. Lb. 50 cts., 5 lbs. 45 cts. per lb., 10 lbs. 40 cts. per lb.



RAKES, English or Daisy.
 16 teeth. \$3 00
 18-teeth. 3 25
 20 teeth. 3 50
Hay Rake, 3-bow. Wood. 85
The "Lawn" King Rake. Wood. Teeth very close. Will not tear sod.
 24-tooth size. 50
 38-tooth size. 60
Automatic Self-Cleaning Lawn Rake. Backward motion clears the teeth. 75
Steel Garden Rake.
 10-teeth \$1 00 | 14-teeth 1 15
 12-teeth 1 05 | 16-teeth 1 25
 18-teeth. 1 45
Wire Lawn Rakes. Will not scratch the lawn. With handle. 90
Wooden Lawn Rake. 3-bow. 90



SAWS. Little Giant Saw and Pruner, Combined. The knife is operated with a cord, and is thrown back automatically with a spring. Without pole, \$2.65.



SAW, "One-edge" Pruning. Narrow blade; gets among close branches; upper edge smooth, does not cut the upper limb.
 16-in. \$1 10
 18-in. 1 20
 20-in. 1 30

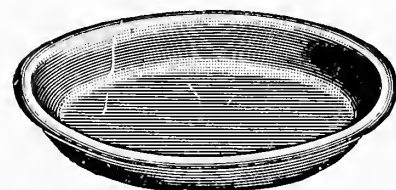


Adjustable - Blade Pruning. Can be adjusted and used at any angle; cuts cleanly and rapidly; light and strong. \$2.

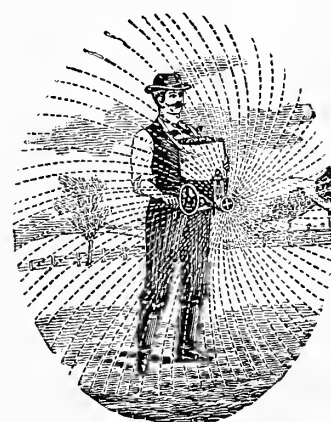


Lightning Double-Edge Pruning.
 16-in. \$1 00
 18 in. 1 25
 20-in. 1 40

Saynor's Socket Pruning. 18-in. 1 75

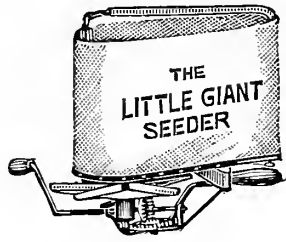


SAUCERS, Flower-Pot, Indurated Wood-Fiber. Light and durable. Not porous; will protect tables on which plants stand. Each Doz.
 6-in. \$0 40 \$4 25
 8-in. 45 4 80
 10-in. 50 5 50
 12-in. 60 6 60
 14-in. 75 8 50



SEEDERS, Cahoon. With practically a minimum of labor will sow all kinds of grass and grain seeds. Will throw heavy seeds 20 feet each side of operator. \$4.50 each.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued



SEEDER, Little Giant No. 3. A smooth-running, well-made, machine. \$1.75

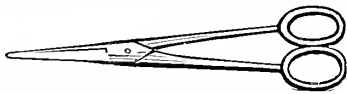
SCYTHES.

English Lawn, Riveted Back. Light and thin, broad blades.
 30-in. \$3 00
 32-in. 3 50
 34-in. 3 75

SCYTHE-SNATH, or Handle. Patent Loop Heel. \$1 50

SCYTHE STONE.

Norton's Emery. 15 cts. each.

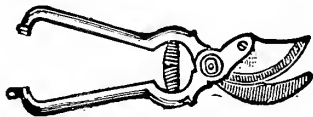


SCISSORS, Grape-Thinning, English. 8-in. \$1 75

Flower-gathering. Will cut and hold the flower. 8-in., \$2.50.



SHEARS, Pruning, Imported Watch-Spring \$1 90

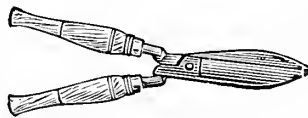


Wiss Solid Steel Pruning. Best American shear. Detachable blades. 9-in. 3 25
 10-in. 3 75

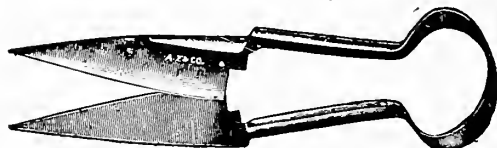
Swedish Pruning. No. 538. 2 25

American, Japanned Handle. 75

Ladies'. Nickel-plated. Pruning. 1 25

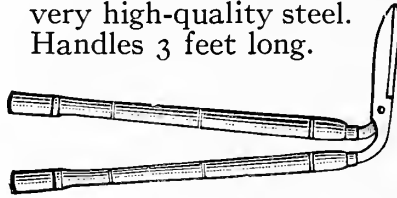


English Hedge. Plain Notch
 8-in. \$3 00 \$3 50
 9-in. 3 50 4 00
 10-in. 4 00 4 75



Grass "Trowel-Shank." American, full-polished, excellent steel. Trowel-like handles keep your knuckles out of the dirt. 95 cts. each.

SHEARS, English Border. For trimming grass around edges of paths, etc. Blades made of very high-quality steel. Handles 3 feet long.



8-in. \$4 75
 9-in. 5 50
 10-in. 6 25



English Lopping. For lopping off limbs and branches of trees, not over 1 1/4 inches in diameter.

No. 3. \$6 75
 No. 4. 7 50

Double Cut Tree Trimmer (Swedish). 23-in. 2 25
 30-in. 2 75



SHOVELS, Square Point.

No. 2. Regulation long or D-handle. \$1 60

Ames No. 2. Long or D-handle. 1 85

Boy's. D-handle. 1 25



Round Point.

No. 2. Long or D-handle. \$1 60

Ames No. 2. Long or D-handle. 1 85

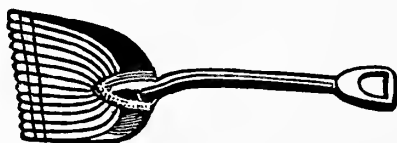


SPADES, Square Point No. 2.

Regulation long or D-handle. \$1 60

Ames No. 2. Long or D-handle. 1 85

Boy's Spade. D-handle. 1 50



SCOOP, Vegetable. The best shovel for handling potatoes, apples, etc. Will not cut; dirt sifts out. Light weight. \$2.75.

SPRAY PUMPS. See pp. 126-127.

SPRINKLERS, Rubber Plant.

With large opening in neck; fills quickly; made of best white rubber.



Straightneck. 6 ozs. \$0 80

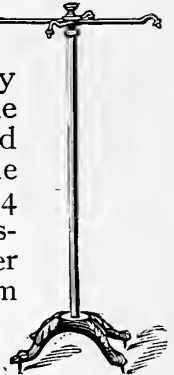
10 ozs. 1 10

Angleneck. 6 ozs. 90

10 ozs. 1 25

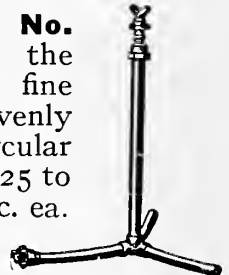
Peck's Improved Lawn Sprinkler.

May be attached to the hose and placed anywhere on the lawn. Stands 4 feet high and distributes water over an area from 60 to 100 feet. 4-arm, \$4.50 each; 8-arm, \$5.25 each.



Water Witch No. 3.

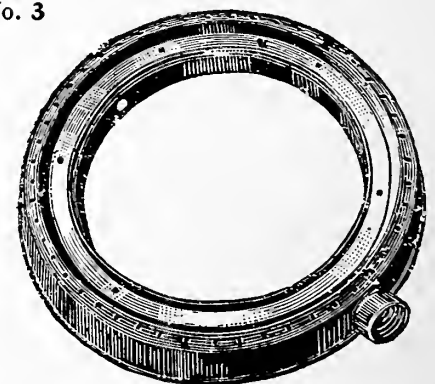
Scatters the water in fine drops and evenly over a circular area of from 25 to 40 feet. 55c. ea.



No. 3

Water Witch No. 4.

Similar to No. 3, but having a stand instead of spike for holding it upright. \$1.20.



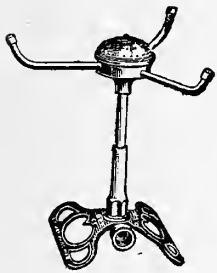
Ring Sprinkler. Has no revolving parts. The simplest Lawn Sprinkler. Made of good-quality brass. \$1 each.

Hotchkiss Lawn Sprinkler No. 55.

The most popular 3-arm Sprinkler on the market; made of brass, nickel-plated with malleable iron runners. Will cover an area 30 feet in diameter. \$1.75.



HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued



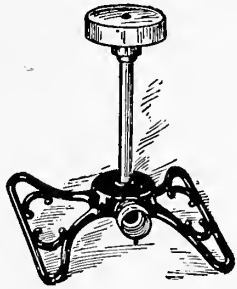
SPRINKLERS, Hotchkiss Lawn, No. 65.

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. \$2.75 each.

Shower Sprinkler.

Mounted on holder for sprinkling lawns or can be attached directly to garden hose for washing sidewalks, etc. Cannot clog or get out of order; will not rust. Standard 3/4-inch hose connection. 10 inches high. Holder and nozzle complete. \$3.



SYRINGES. See page 126.



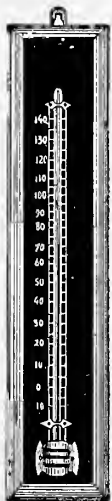
TROWELS, Solid Steel. Cheapest trowel in the long run; light, strong, durable, and perfect "hang;" handle cannot come off.

- 5-in. blade.....\$0 60
- 6-in. blade..... 65
- 7-in. blade..... 70



Transplanting. A perfect trowel for transplanting and putting in bulbs; solid steel.

- 6-in.....\$0 20
- 7-in..... 25

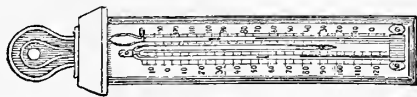


THERMOMETERS, Oxidized Metal Scale, Polished Back. A thermometer for house use, durable and well made. Tube magnifies and is easy to read.

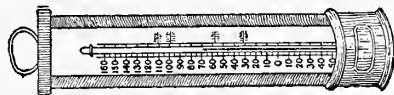
- 12-in.....\$1 25

White Enamelled Wood Plate, Nickel Trimmings. No. 110, 7 1/2-in..... 50
No. 111, 9 1/2-in..... 1 00

Self-Registering, Polished Back. For indoor use; will register extremes of heat and cold; made of hardwood. A magnet is used to draw back the indicating points. 12-in..... 2 50



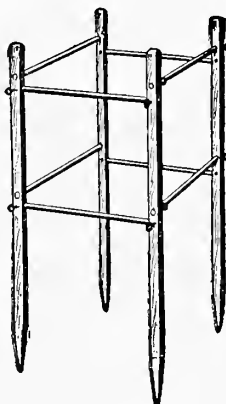
THERMOMETERS, Self-Registering, Japanned Case. The same as preceding with tin case for outside use. Enamelled case and porcelain scale. 12-in.....\$6 50



Japanned Tin Case. A cheap thermometer for greenhouse use; all metal. 10-in..... 60

Mercury Bath or Hotbed. New. Quick-acting; all of metal. Cannot rust or break..... 2 25

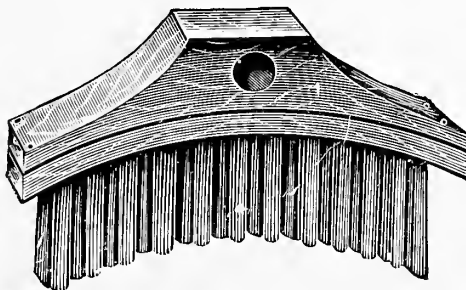
Hotbed and Mushroom Bed. Brass-tipped point incloses the temperature bulb; it is simply thrust into the soil or bed. Best grade (made of box-wood)..... 2 25
 Made of ordinary wood... 1 50



TOMATO SUPPORTS, Wood. 36 inches high, 16 inches wide. Solidly made of clear, straight wood. Can be taken apart and stored when not in use. Will last for years. 30 cts.

each, \$3 per doz.

TORCH, Asbestos. Very useful and simple. The only sure way to get rid of caterpillar nests on trees. Large size 50 cts. each.



TREE BRUSH, Wire. For older trees; can be used with long handle. Complete, \$2.25.

TREE SCRAPER. For scraping diseased bark from trees, removing insect eggs, etc. 75 cts. each.

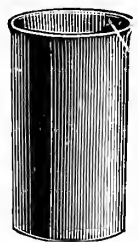
TREE-TUBS, New York Style. Made of cedar timber, painted green.



No.	Diam.	Height	Each
1	12 in.	10 5/8 in.	\$2 15
2	13 in.	12 3/4 in.	2 80
3	14 1/2 in.	14 3/4 in.	3 45
3 1/2	16 1/2 in.	15 3/4 in.	4 55
4	19 1/2 in.	16 5/8 in.	4 90
5	22 1/2 in.	18 1/2 in.	6 40

TWINE, Green Smilax. In balls 18 cts. each; box of 8 balls, \$1.30.

Florists' Linen (Silkline), Green or Gray. 18 cts. per spool; box of 1 doz. spools, \$1.75.



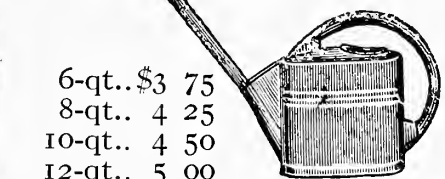
VASES, Flower. Indurated wood fiber; for cut flowers.

No.	Diam. In.	Depth In.	Each	Doz.
3	4	6	\$1 10	\$11 50
2	4 1/2	9	1 35	14 00
1	5 1/2	10	1 50	16 00
0	8	13	1 85	20 00

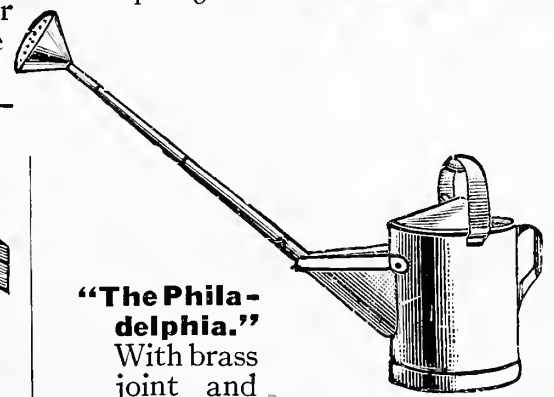
For receptacles for holding above, see Saucers, page 123

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..\$3 75
- 8-qt.. 4 25
- 10-qt.. 4 50
- 12-qt.. 5 00

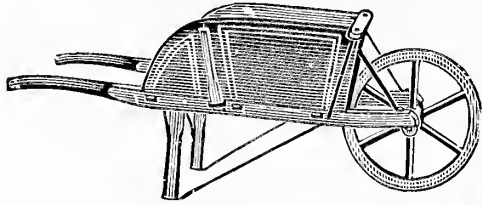


"The Philadelphia." With brass joint and two copper-faced roses.

- 6-qt.....\$3 25
- 8-qt..... 3 50
- 10-qt..... 4 25
- 12-qt..... 4 75

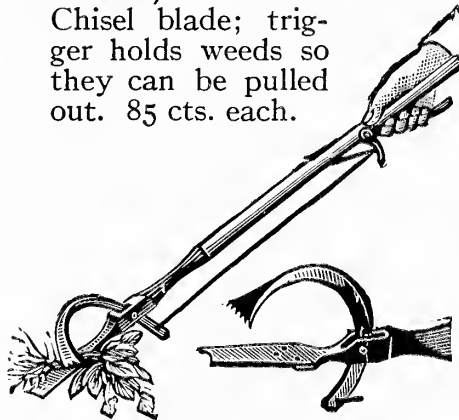
Postage, Express or Freight Charges to be paid by Purchaser.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued



WHEELBARROW, Thorburn's Garden. None better made. Iron braced and bolted. Steel or wood wheel. No. 3 made with steel wheel only.
 No. 3, Small.....\$5 75
 No. 4, Medium..... 6 50
 No. 5, Large..... 7 00

WEEDERS, Cleveland Lawn. Chisel blade; trigger holds weeds so they can be pulled out. 85 cts. each.



Excelsior Finger. Useful for loosening and pulverizing the soil. 15 cts. each.

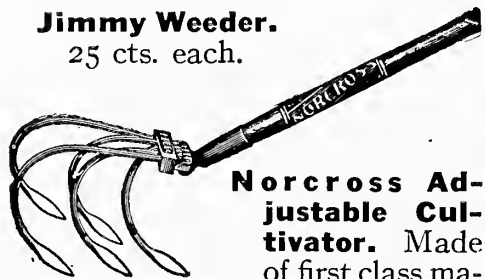
Lang's Hand. A strap over the finger keeps the tool in the hand while operator's fingers are left free. 20 cts. each, \$2.25 per doz.

Eureka Hand. The prongs of solid forged steel are thin and long; fine for loosening soil. Short handle. 50 cts each.

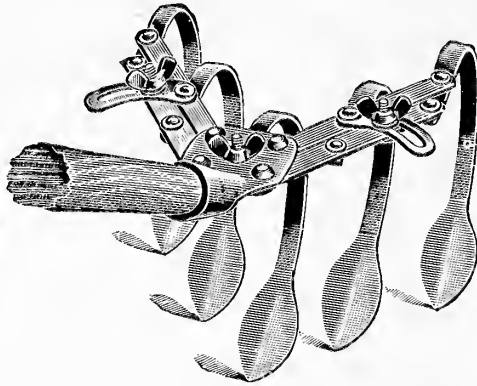


Magic. Combined Weeder and hoe. Fingers of tempered steel. The hoe is useful in loosening hard ground. 45 cts. each.

Jimmy Weeder. 25 cts. each.



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.
 3-prong\$1 00
 5-prong 1 25



WEEDERS, Pull Easy Cultivator. A very handy implement. 5-prong, adjustable, \$1.25.

Flower Pots

Prices subject to change without notice

Best made. Of sizes 2½ to 8 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.* Packing and crating extra at cost. Doz. 100

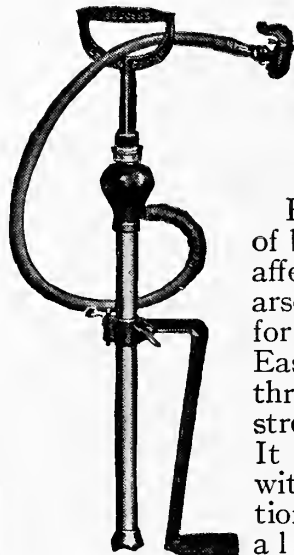
2½-in.....	\$2 40
3-in.....	2 50
4-in.....	3 75
5-in.....	6 75
6-in.....	10 50
7-in.....	16 50
8-in.....	24 00
10-in.....	\$7 00 50 00
12-in.....	15 00 98 00

BULB-PANS. 8-in\$3 60
 10-in..... 6 60
 12-in..... 12 00

All prices subject to change without notice.

NEPONSET WATERPROOF PAPER FLOWER POTS.

	Doz.	100	1,000
2½-in.....	\$0 10	\$0 60	\$3 60
3-in.....	15	75	5 20
3½-in.....	20	1 25	7 10
4-in.....	25	1 40	8 60
5-in.....	30	1 60	14 60
6-in.....	50	2 25	19 25



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

SPRAY PUMP, BUCKET, continued

sprinkler for flowers. For spraying large trees, an 8-foot pipe extension is supplied for 90 cts. extra. This pump is also valuable for washing windows. \$4.75.

Syringes

No. A. One spray rose and one jet. Length of barrel, 12 inches; diameter, 1 inch. \$2.75 each.



No. G. One spray rose and one stream jet, side attachment and elbow-joint for sprinkling under foliage. Length of barrel 16 inches; diameter, 1½ inches. \$5.25 each.



No. H. Sheet brass with fixed spray rose; length of barrel 16 inches, diameter, 1½ inches. \$3.25 each.



No. 2. One coarse and one fine spray rose, and one jet, side attachment. \$4.75 each.



No. 3. Large size. Has one stream and two spray roses, with side pieces on barrel. Length of barrel, 18 inches; diameter, 1½ inches. \$7 each.



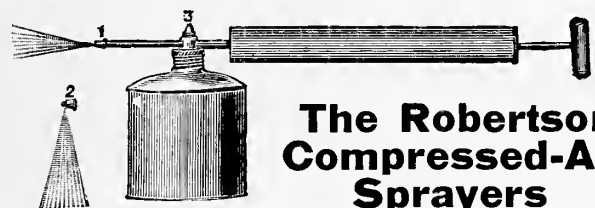
No. 6. Large size. Has one spray rose and gooseneck angle joint, turning in all directions for washing the under surface of the leaves of plants and flowers, cleansing them from insects, etc. Length of barrel, 18 inches; diameter, 1½ inches. \$8.50 each.

TARRED FELT DISKS STERLINGWORTH.

For protecting cabbage and cauliflower plants, when first set out, against the root maggot; fits around the stems of the plants. 50 cts. per 100, \$2.50 per 1,000.

Postage, Express or Freight Charges to be paid by Purchaser. Prices not guaranteed, subject to change

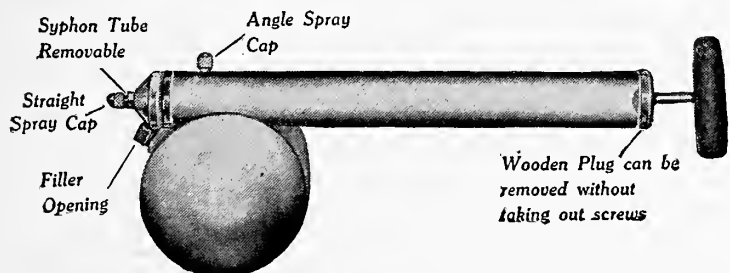
HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued



The Robertson Compressed-Air Sprayers

Easily operated, requiring half the labor of ordinary sprayers.

Galvanized Tank.....\$1 25
Brass Tank..... 2 00



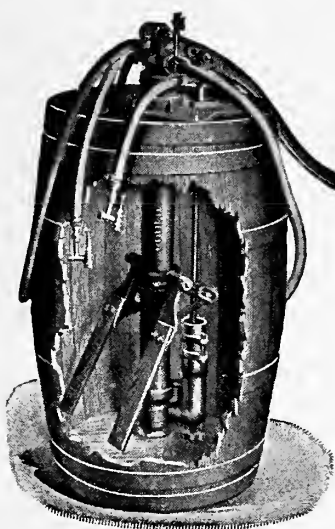
Auto Sprayer

Operates continuously on both the up and down stroke, throwing a fine, misty spray.

No. 25A. 1 qt. All Tin.....\$1 00
No. 25C. 1 qt. Tin Pump, Brass Tank..... 1 35

Vaporizing Spray Pump, Hand

A very useful Sprayer for a small garden. Simple and effective; no valves to get out of order. Made of tin. 50 cts. each.



"Pomona" Spray Pump

Of large capacity and exceptionally powerful. It is easily operated by one person when necessary, but is especially built for spraying with two leads of hose. The air-chamber is rather large, and enough air is stored up for a continuous spray for some time. Plunger, valves and all working parts are made of very good quality brass. It can be quickly inserted or removed from the barrel. Its paddle agitator is far superior to the old return-discharge method of stirring. Adjustable to different-sized barrels. Pump only, with agitator, \$23.50.

Outfit C. Pump, Agitator, 15 feet of Discharge Hose and Spray Nozzle, \$30; fitted to Barrel, \$35.

Outfit D. Pump, Agitator, two leads of Discharge Hose and two Spray Nozzles, \$34.50; fitted to Barrel, \$40.50.

"Fruitall" Spray Pump

Same as Pomona, but smaller. Pump with Agitator and one lead of 15 feet of 3/8-in. Discharge Hose, with Spray Nozzle, \$20; fitted to Barrel, \$25.

Prices subject to change

Knapsack Spray Pump

FOR VINEYARD, ORCHARD AND FIELD SERVICE TO BE CARRIED ON BACK

Made entirely of brass and copper, with ball valves and metal plunger all easily accessible. Capacity about 5 gallons.

Galvanized, \$23; Copper, \$28.

Compressed-Air Spray Pump

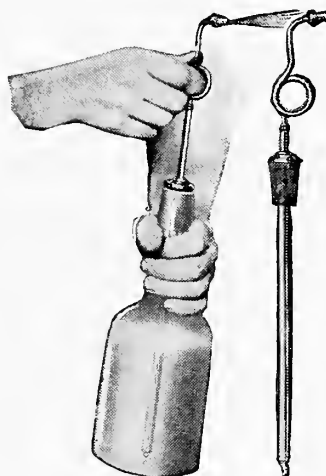
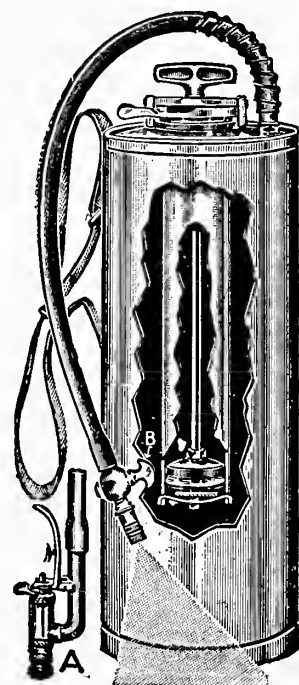
A self-operating Sprayer of simple construction, durable, easy to carry and to work. Made of galvanized iron or solid brass, with 4-ply rubber hose. For spraying trees, cleaning windows, etc. A perfect pump.

With Brass Tank, Auto-Pop Nozzle, Hose and Fittings, \$11.

With Galvanized Iron Tank, Auto-Pop Nozzle, Hose and Fittings, \$8.

Brass Extension Pipes, 2 feet long, 70 cts.

Auto-Pop Nozzle, if sold alone, \$2.



Bottle Sprayer

A small, nickel-plated syringe or sprayer, to be placed in a bottle; used for spraying with any kind of fumigating liquid or insecticide, \$1.35.

Water-Barrel, Truck and Barrel

CAN BE MADE INTO SPRINKLER, LEAF-RACK AND HAND-CART

The barrel is easily disconnected from the truck, either while full or empty. The following extra attachments can be furnished if required: (1) Box with trunnions and spring catch, forming a dumping hand-cart. (2) Sprinkler for watering walks and lawns. (3) Leaf-rack.

Prices on application



Used as a Hand-Cart



Used as a Leaf-Rack

Truck, and Barrel, Wooden Wheels, 3-in. Tires.
Truck and Barrel, Steel Wheels, 3-in. Tires.
Sprinkler Attachment, extra.

Hand-Cart Box, extra.

Leaf-Rack, extra.

Extra Trunnions, per pair.

Truck and Trunnions, Wooden Wheels, without Barrel.

Truck and Trunnions, Steel Wheels, without Barrel.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

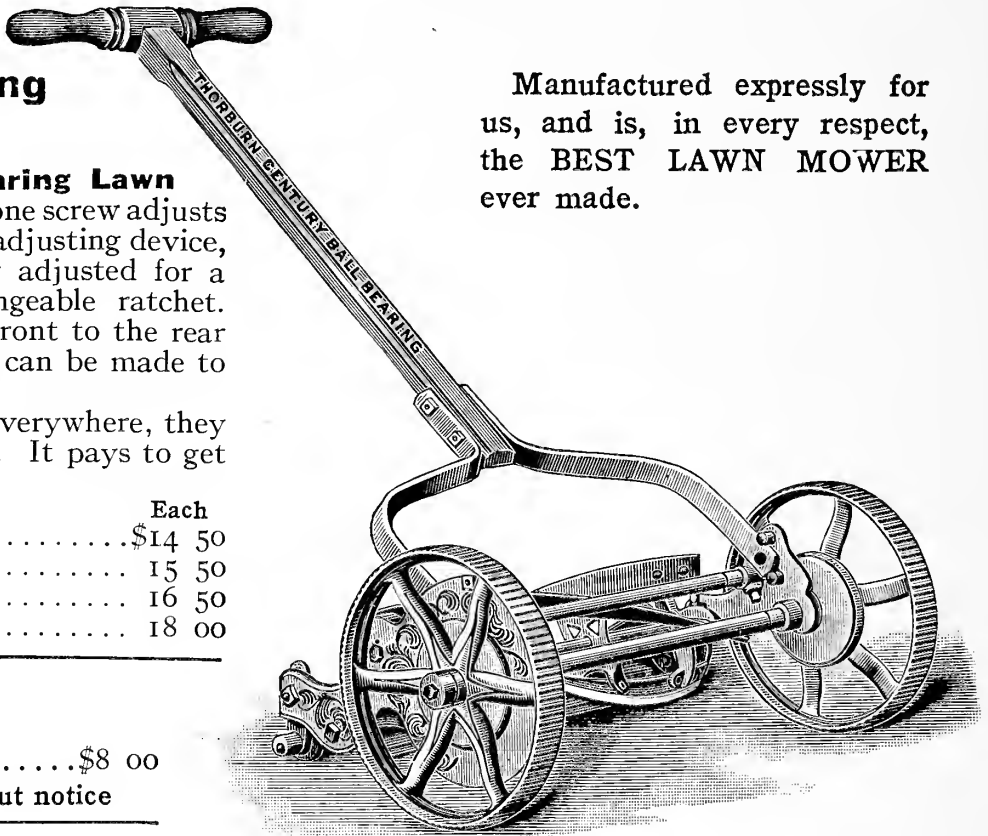
The Thorburn Century Ball-Bearing Lawn Mower

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 bearings properly adjusted for a long time, and a double interchangeable ratchet. By shifting handle bails from the front to the rear lugs on the side frame, the Mower can be made to cut terraces and steep banks.

While cheaper Mowers are sold everywhere, they will be found far dearer in the end. It pays to get a good Mower.

	Net Prices	Each
14-in. cut.....		\$14 50
16-in. cut.....		15 50
18-in. cut.....		16 50
20-in. cut.....		18 00

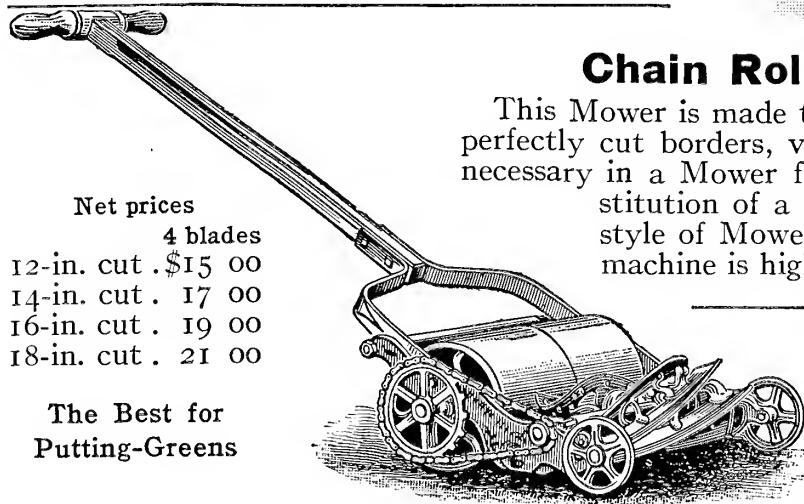
Manufactured expressly for us, and is, in every respect, the **BEST LAWN MOWER** ever made.



Lawn Trimmer

8-in.....\$8 00

All prices subject to change without notice



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 is highly recommended for work on putting-greens.

Net prices

4 blades

12-in. cut.	\$15 00
14-in. cut.	17 00
16-in. cut.	19 00
18-in. cut.	21 00

The Best for Putting-Greens

Grass-Catcher

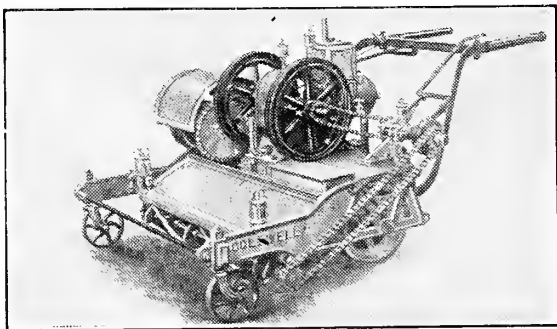
12-in. cut.....	\$2 00	18-in. cut.....	\$2 75
14-in. cut.....	2 25	20-in. cut.....	3 00
16-in. cut.....	2 50		

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-in. cut, no shafts, 4 blades.....	\$59 00	35-in. cut, complete, 4 blades.....	\$108 00
30-in. cut, complete, 4 blades.....	88 00	40-in. cut, complete, 4 blades.....	136 00



Coldwell's Combination Roller and Motor Lawn Mower

This machine cuts a swath 30 and 35 inches wide, is equipped with a two-horse power motor capable of propelling the mower through almost any height of lawn grass, and up steep grades. Price on application.

The "Velvetlawn" Grass Seeder
18 inches wide

The use of a machine in the seeding of new lawns or grass plots, the re-seeding of old lawns, the drilling of grass seeds into putting-greens, and the renewing of grass plots every month or so has proved a decided success wherever it has been tried. The machine to do this work is the "Velvetlawn" Grass Seeder. Price \$25 net cash, subject to change.

HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES, continued

Horse Boots

Prevent cutting up of the turf

Made to order only of very strong, heavy leather, closely riveted. Present price per set of four, \$14; subject to change.

Water-Ballast Roller

Roller-Bearing. Can be filled without turning on end, with either water or sand. (Patented)
Suitable for Lawns, Tennis-Courts and Putting-Greens; seams are electric welded, not riveted

One- or two-section "Water Weight" Rollers without counter-balancing handle-weights.

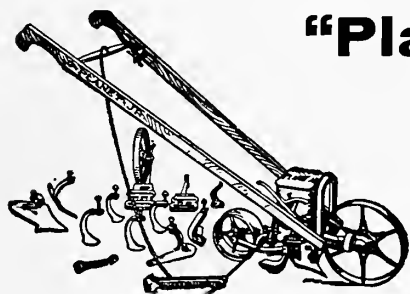
No.	Diam. in.	Length in.	Sec-tions	Weight empty lbs.	Weight filled with water, lbs.	Weight filled with sand, 50% heavier	Price
WB3	14	20	I	60	175	"	\$13 00
WB5	18	24	I	85	300	"	15 00
WB7	24	24	I	110	500	"	20 00
WB11	18	24	2	100	300	"	21 00
WB13	24	32	2	150	600	"	28 00

If handle-weight is desired add \$1.50 to above prices

The Makegood Garden Plow Haywood No. 1

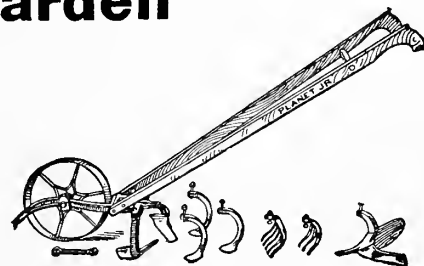
A Single-Wheel Cultivator, Plow, Rake and Hoe, \$5 complete

"Planet Jr." Farm and Garden Tools



"Planet Jr." No. 4

Illustrated catalogue describing fully many other "Planet Jr." tools mailed on application. Prices are quoted net f.o.b. New York.



"Planet Jr." No. 16

"Planet Jr." No. 16.

Single-Wheel Hoe, Cultivator, Rake and Plow

This Single-Wheel hoe has a very full set of tools, several of them being of new design, such as have been found to work in the very best manner. It has 11-inch wheel, with broad face; is very light, strong and easy running. It has adjustable handles and quick-change frame.

Equipment: Two 6-inch Hoes, 3 Cultivator Teeth, 1 7-inch Rake, 1 4-inch Rake, 1 Large Garden Plow, 1 Leaf-Guard. Weight, 27 lbs. Price \$10.50.

"Planet Jr." No. 17. Single-Wheel Hoe

This Wheel-Hoe is equipped with 2 6-inch Hoes, 3 Steel Cultivator Teeth, 1 Leaf-Lifter. Weight, 22 lbs. Price \$8.75.

"Planet Jr." No. 3. Hill and Drill Seeder. Efficient hill-dropping outfit. Complete.....	\$18 50
"Planet Jr." No. 4. Seeder, Wheel Hoe, Cultivator and Plow. Complete.....	19 50
As a seeder only.....	15 50
"Planet Jr." No. 11. Double-Wheel Hoe, Cultivator and Plow. Invaluable for use on all small crops.....	16 00
"Planet Jr." No. 12. Double-Wheel Hoe, Cultivator and Plow. Identical with No. 11, except fewer attachments.....	12 50
"Planet Jr." No. 13. Double-Wheel Hoe. Same as No. 12, but Hoe only.....	9 00
"Planet Jr." No. 18. Single-Wheel Hoe. Equipped with Hoes only.....	6 25
"Planet Jr." No. 25. Combined Hill and Drill Seeder, Double-Wheel Hoe, Cultivator and Plow. Large enough for field use.....	23 00
"Planet Jr." No. 31. Combined Drill Seeder and Single-Wheel Hoe. Complete.....	13 00
No. 31D as a drill seeder only.....	10 50
"Planet Jr." No. 33. Single-Wheel Hoe (without seeder).....	6 50

Stevens Hand Fertilizer Sower

Price, \$8



A Section of Our Trial-Grounds

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	“ “ Lucullus.....			Savoy, Early Ulm.....			New Rose.....	
				“ Late Drumhead.....			Schumacher.....	
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	BEET—SUGAR			Large Solid.....			CHICORY	
	Klein Wanzleben.....						Magdeburg, Large-rooted...	
							Common (Wild).....	
	BORAGE						Witloof.....	
							“ Roots.....	
	BROCCOLI							
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.....	Red Cherry.....			“ Crimson Giant Fore..			New Zealand Summer.....		
.....	“ Chili.....			“ Deep Scarlet.....			Triumph.....		
.....	Royal King.....			“ Extra-Early Scarlet Forcing, Ne Plus Ultra.....				SWISS CHARD or SILVER BEET		
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.....	Ruby King.....			“ Early White.....			Giant Lucullus (see also page 2).....		
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.....	Bovee.....			Olive-shaped Scarlet.....			Early White Scallop Bush....		
.....	Early Rose.....			Half-long Deep Scarlet (Paris Beauty).....			Mam. White Scallop Bush....		
.....	Irish Cobbler.....			Long Scarlet Short-Top.....			Long Island White Bush.....		
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.....	Rural New Yorker.....			“ White Vienna (Lady Finger).....			“ “ Giant..		
.....	Sir Walter Raleigh.....			“ Icicle.....			“ “ White-fruited		
.....	Green Mountain.....			“ White Strasburg Summer.....				<i>Forward</i>		
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That may be sown in each month from February to September in the climate of New York

FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
SOW IN HOTBED Early Beans Broccoli Early Cabbage Forcing Carrot Early Celery Cucumber Eggplant Early Lettuce Parsley Pepper Radish Tomato	SOW IN HOTBED Early Beans Early Beets Brussels Sprouts Early Cabbage Forcing Carrot Cauliflower Celery Eggplant Kohlrabi Lettuce Parsley Pepper Radish Tomato	SOW IN HOTBED Cucumber Eggplant Melon Pepper Tomato IN OPEN GROUND Asparagus English Beans Beets Brussels Sprouts Early Cabbage Carrot Cauliflower Celery Cress Kohlrabi Lettuce Onion Parsley Peas Potatoes Radish Spinach Early Turnip Lawn Grass	IN OPEN GROUND Artichoke Asparagus Beans, Bush and Running Beets Brussels Sprouts Carrot Cauliflower Celery Sweet Corn Cress Cucumber Kohlrabi Leek Lettuce Melon Onion Parsley Parsnip Peas Potatoes Radish Salsify Spinach Early Turnips All Herbs	IN OPEN GROUND 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 Salsify Spinach Squash Herbs	IN OPEN GROUND Beans Beets Carrot Sweet Corn Corn Salad Cress Cucumber Endive Gherkin Kale Kohlrabi Lettuce Nasturtium Okra Early Peas Pumpkin Radish Spinach Squash Turnip Rutabaga	IN OPEN GROUND Beans, Bush Tuberous Chervil Corn Salad Cucumber Endive Lettuce Welsh Onion Early Peas Radish, Winter Spinach Turnip	IN OPEN GROUND Cabbage for cold-frames Cauliflower for coldframes Tuberous Chervil Corn Salad Cress Siberian Kale Lettuce Mustard Parsley Radish Spinach Turnip Sweet Peas GRASS SEED for Lawns Tennis-Courts Polo-Grounds Golf-Links Meadow and Pasture
Thorburn's Early Jersey Wakefield Cabbage					Thorburn's Improved Big Boston Lettuce	Thorburn's Gilt Edge Cauliflower	

J. M. THORBURN & CO., Seedsmen, NEW YORK

53 Barclay Street, through to 54 Park Place

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New York City