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SEEDS

"Nature's Best"



1931

ABBOTT & COBB

4655-61 PAUL STREET

FRANKFORD, PHILADELPHIA, PA.

Vegetable Seed Trials

Special Notice. When ordering seed by mail, be careful to give your Name, Post Office, County, State, and Express Office, that your order may go forward without delay. We will pay the postage on seeds forwarded by Parcel Post as quoted by the Ounce, Quarter Pound, or Pound, when cash accompanies the order. This does not include articles as quoted in five- or ten-pound lots. If Peas, Beans, and Corn are to be forwarded by Parcel Post, add postage as per zone rates.

Terms of Guarantee. We give no warranty, express or implied, as to description, purity, productiveness or any other matter of any seeds, bulbs or plants we sell, and we will not be in any way responsible for them. If the purchaser does not accept the goods on these terms they are to be returned at once, and if the money has been paid for them, it will be refunded.

ABBOTT & COBB.

QUANTITY OF SEEDS REQUIRED TO SOW A SINGLE ROW OF 100 YARDS

Asparagus.....8 oz.	Eggplant.....1 oz.	Parsley.....2 oz.
Beans, Bush.....6 lbs.	Endive.....2 oz.	Peas.....6 lbs.
Beans, Pole.....3 lbs.	Leek.....2 oz.	Pepper.....1 oz.
Beets.....5 oz.	Lettuce.....2 oz.	Pumpkin.....2 oz.
Cabbage.....2 oz.	Melon, Water.....3 oz.	Radish.....6 oz.
Carrot.....3 oz.	Melon, Citron.....2 oz.	Salsify.....4 oz.
Cauliflower..... $\frac{3}{4}$ oz.	Okra.....12 oz.	Spinach.....6 oz.
Chinese Cabbage.....2 oz.	Onion for Sets.....8 oz.	Squash.....3 oz.
Celery.....3 oz.	Onion for Large Bulbs.....2 oz.	Tomato.....1 oz.
Corn.....1 lb.	Parsnip.....3 oz.	Turnip.....3 oz.
Cucumber.....4 oz.		

GRASS SEEDS TO THE ACRE

Red Clover.....10 to 15 lbs.	Crimson Clover.....12 to 15 lbs.	Rye Grass..... $1\frac{1}{2}$ to 2 bus.
White Clover (Dutch).....10 lbs.	Timothy.....12 lbs.	Orchard Grass..... $1\frac{1}{2}$ to 2 bus.
Alfalfa or Lucerne.....20 lbs.	Hungarian Grass.....1 bus.	Redtop Grass..... $1\frac{1}{2}$ to 2 bus.
Alsike Clover.....12 lbs.	Pasture Grass..... $2\frac{1}{2}$ to 3 bus.	Mixed Lawn Grass.....5 bus.
Sweet Clover.....25 lbs.	Blue Grass.....2 to 3 bus.	Millet.....1 bus.

QUANTITY OF SEEDS USUALLY SOWN UPON AN ACRE

Barley, broadcast.....2 to 3 bus.	Mustard, broadcast..... $\frac{1}{2}$ bus.	Sage, in drills.....8 to 10 lbs.
Beans, Dwarf, in drills... $1\frac{1}{2}$ bus.	Melon, Musk, in hills...2 to 3 lbs.	Salsify, in drills.....8 to 10 lbs.
Beans, Pole in hills...10 to 12 qts.	Melon, Water, in hills...4 to 5 lbs.	Spinach, in drills....10 to 12 lbs.
Beets, in drills.....5 to 6 lbs.	Oats, broadcast.....2 to 3 bus.	Squash, Bush, in hills...4 to 6 lbs.
Broom Corn, in hills...8 to 10 qts.	Onions, in drills.....5 to 6 lbs.	Squash, Running, in hills3 to 4 lbs.
Buckwheat.....1 bus.	Onion Sets, in drills...6 to 12 bus.	Sugar-Cane or Sorghum 10 to 12 lbs.
Cabbage, in beds, to trans- plant..... $\frac{1}{4}$ lb.	Onion Sets, in drills...6 to 12 lbs.	Sudan Grass, broadcast16 to 24 lbs.
Carrots, in drills.....3 to 4 lbs.	Parsnips, in drills....4 to 6 lbs.	Sudan Grass, in rows...2 to 3 bus.
Corn, in hills.....8 to 10 qts.	Peas, in drills..... $1\frac{1}{2}$ bus.	Tomato, to transplant..... $\frac{1}{4}$ lb.
Corn, for fodder.....3 bus.	Peas, broadcast.....3 bus.	Turnip, in drills..... $\frac{1}{2}$ to 2 lbs.
Cowpeas..... $1\frac{1}{2}$ to 2 bus.	Potatoes, cut tubers.....10 bus.	Turnip, broadcast.....3 to 4 lbs.
Cucumber, in hills.....2 lbs.	Pumpkins, in hills....4 to 6 lbs.	Vetches, broadcast.....30 lbs.
Flax, broadcast..... $1\frac{1}{2}$ bus.	Radish, in drills.....8 to 10 lbs.	Wheat, broadcast... $1\frac{1}{2}$ to 2 bus.
Lettuce.....3 lbs.	Rye, broadcast..... $1\frac{1}{4}$ to 2 bus.	

PARCEL POST RATES

WEIGHT LIMIT. The weight limit within the first, second and third zones is now 70 pounds, and within all other zones 50 pounds. Shipments of 20 pounds or over are cheaper if sent by express beyond the second zone.

DOMESTIC PARCEL POST RATES

Within the United States and Possessions

	First pound or fraction	Each additional pound or fraction
First zone, within 50 miles of Philadelphia.....	7 cts.	1 ct.
Second zone, within 50 to 150 miles of Philadelphia.....	7 cts.	1 ct.
Third zone, within 150 to 300 miles of Philadelphia.....	8 cts.	2 cts.
Fourth zone, within 300 to 600 miles of Philadelphia.....	8 cts.	4 cts.
Fifth zone, within 600 to 1,000 miles of Philadelphia.....	9 cts.	6 cts.
Sixth zone, within 1,000 to 1,400 miles of Philadelphia.....	10 cts.	8 cts.
Seventh zone, within 1,400 to 1,800 miles of Philadelphia.....	12 cts.	10 cts.
Eighth zone, all over 1,800 miles of Philadelphia.....	13 cts.	12 cts.



A partial view of our Pennypack Valley Trial-Grounds, located at Bustleton, Pa.

INTRODUCTION

IN THE southeastern part of Pennsylvania, in one of the best farming counties of our state, a small stream named Pennypack Creek starts winding its way down through the hills until it reaches the Delaware River in Philadelphia County, twelve miles from the center of the city and in the heart of the famous Philadelphia market-gardeners' section. Along this fertile Pennypack Valley we have our trial-grounds, part of which is shown above, and for which we have named our Farm and Trial-Grounds.

History states that here the Pennypack tribe of Indians (part of whom William Penn made treaties with) pitched their wigwams and lived until they were forced away by the settling of the white race. We still see traces of their crude work. Often, as the fields are being plowed and cultivated, we find arrowheads, odd-shaped stones used as beads, and parts of tomahawks.

This Valley, today, is just as beautiful as then; in fact, it is the most picturesque for miles around. Here we prove and make new stocks, also grow some of our specials. We believe it is essential to our business today to know exactly what we are offering our many satisfied customers, and we can do this only by proving the stocks we offer.

In presenting this 1931 Catalogue of Vegetable and Flower Seeds to customers and prospective buyers, we desire to emphasize again the importance of planting only properly handled seeds of carefully selected strains and varieties. This careful selection is tedious and expensive, but it pays in the long run, serving, as it does, to keep up the standard of quality and yield, and even to improve upon the original. To give this important work the attention it deserves, it is necessary to confine it to a limited number of varieties. For that reason, we offer only those types and strains which are up to date and adapted to the locality we serve, and over whose selection and grading we have control. Our list is not so long as some because of this, but the seeds which it contains are there because of decided merit.

The same care is extended to our list of Flower Seeds, which includes all popular and profitable varieties for market and home use.



Full-Heart Easy-Blanching Celery

A MARVELOUS NEW VARIETY FOR EVERY PURPOSE. See page 13.

Because of unfavorable growing and ripening conditions the past season, there is an extreme shortage of first-grade seeds of most market-garden crops. The best of such stocks as are available will be rapidly snapped up long before the planting season arrives.

We urge our customers, therefore, to place their orders at once, especially for those varieties which are most important, because of the impending difficulty to obtain good seed when the rush has begun.

ASPARAGUS



Washington Asparagus

GIANT GREEN. An exceedingly fine strain, the seeds having been selected from the largest stalks in the field. Color is light green. The tops remain solid or closed longer than most varieties of Asparagus. We can highly recommend this seed for commercial purposes. Pkt. 10 cts., oz. 15 cts., 1/4lb. 30 cts., lb. \$1, 10 lbs. \$8.50.

COLUMBIA MAMMOTH WHITE. Shoots of largest size and clear white. Most popular white variety. Pkt. 10 cts., oz. 15 cts., 1/4lb. 30 cts., lb. \$1, 10 lbs. \$8.50.

WASHINGTON. Very productive new rust-resistant strain, selected by United States Department of Agriculture, and of extra-fine quality. Rich dark green stalks tinted darker at the tips. Will grow faster and cut earlier than any other variety. Pkt. 10 cts., oz. 30 cts., 1/4lb. \$1, lb. \$3.50, 10 lbs. \$32.50.

ASPARAGUS ROOTS

We can supply strong one and two-year-old roots of the following varieties:

	100	1,000
Giant Green.....	\$1 25	\$7 00
Columbia Mammoth White.....	1 25	7 00
Washington.....	1 75	12 00
Washington, Giant Roots.....	2 50	20 00

We can supply some very fine Asparagus Roots of Mary Washington grown on our own farms from extra-fancy stock selections at \$20 per 1,000.

GREEN-PODDED BEANS

GIANT STRINGLESS. Very productive, long, round-podded sort, maturing a trifle later than Red Valentine. Absolutely stringless. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 100 lbs. \$22.

RED VALENTINE. Earliest Bean of all, maturing in six to seven weeks after planting. Pods are round and of medium length. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 100 lbs. \$22.

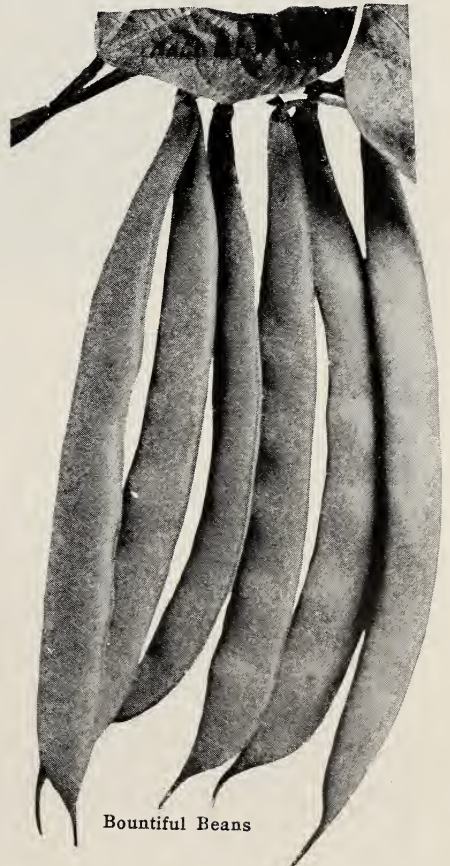
BLACK VALENTINE. Hardest and most productive green-podded Bean grown; strong, vigorous vines. Pods are somewhat flat and very long, making a fine appearance. The season is a trifle longer than that of Red Valentine. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 100 lbs. \$22.

BOUNTIFUL. A very popular sort with the shipper because it is a prolific producer of flat and absolutely stringless pods of exceedingly fine quality. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 100 lbs. \$22.

WAX-PODDED BEANS

PENCIL-POD WAX. A very popular Bean because of its unusually good quality; of superior flavor, very brittle, exceedingly tender and absolutely stringless. Its productiveness, early maturing, and rust-resistant qualities have made it a great favorite. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 100 lbs. \$22.

CURRIE'S RUSTPROOF. One of the earliest and most popular of the Wax or yellow Beans. Pods flat, sometimes 6 to 7 inches long. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 100 lbs. \$22.



Bountiful Beans

See Special Strains of Cucumber, Carrots, Parsnip and Turnip on pages 24 and 25



Sure-Crop Stringless Wax Beans

WAX-PODDED BEANS, continued

SURE-CROP|STRINGLESS WAX. This is one of the best flat, wax-podded sorts we know of, and a good, thrifty grower, producing an abundance of Beans 6 to 7 inches long. It is a sort that will fill the measure quickly and is rather easy to pick. This variety is not any more susceptible to rust than any other stock. We recommend it highly for commercial and home-garden use. Lb. 40 cts., 10 lbs. \$3, 100 lbs. \$22.

WARDWELL'S KIDNEY WAX. An old favorite. Long, straight, broad, brittle, almost stringless, light golden pods, borne in unusually large quantities. Good Bean for market. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3, 100 lbs. \$22.

SOUP BEANS

WHITE MARROWFAT. Heavy producer of large, oval-shaped white Beans. A great favorite for baking or soup. Pkt. 10 cts., lb. 35 cts., 10 lbs. \$2.50, 100 lbs. \$21.

SOUP BEANS, continued

WHITE KIDNEY. Tall, erect plants bearing an abundance of large, showy pods filled with kidney-shaped, white Beans that do not discolor when cooked. A popular dry Shell Bean. We recommend growing these Beans in soil that is not too rich in order that the vines will stand erect, thus eliminating rusted or spotted Beans when they are harvested. Pkt. 10 cts., lb. 35 cts., 10 lbs. \$2.50, 100 lbs. \$21.

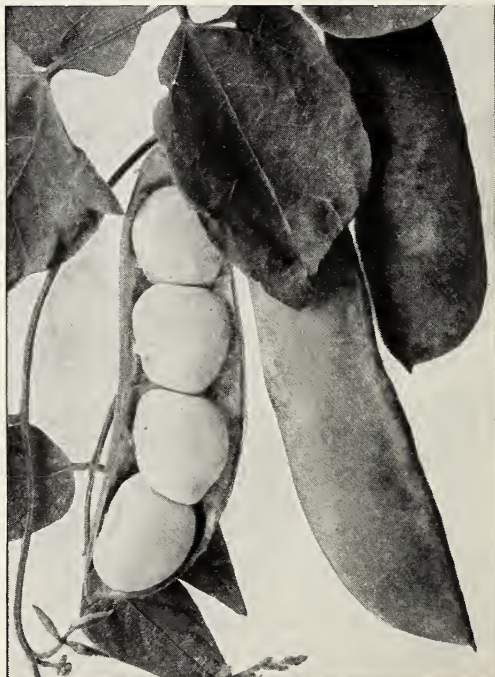
LIMA BEANS

FORDHOOK BUSH. The heaviest cropping Bush Lima. It is ready to pick at least two weeks before the Pole Limas, bearing a prolific crop of good-sized pods, each with three to five large, thick, meaty Beans of excellent quality. Pkt. 10 cts., lb. 45 cts., 10 lbs. \$3.50, 100 lbs. \$30.

FORD'S MAMMOTH (POLE). Probably the largest-podded Lima Bean. They are very dark green, about 6 inches long, flat, and contain four or five Beans of fine quality in a pod. Pkt. 10 cts., lb. 45 cts., 10 lbs. \$3, 100 lbs. \$28.

KING OF THE GARDEN (POLE). So attractive that they usually bring better prices than most flat-podded Limas. It is the strongest growing, most productive of the large Limas; pods 5 to 6 inches long, each with four or five large, flat Beans. Two vines to each pole are enough. Pkt. 10 cts., lb. 45 cts., 10 lbs. \$3, 100 lbs. \$28.

DREER'S IMPROVED (POLE). A vigorous grower, freely producing very thick pods about 4 inches long, containing from three to five large, thick, and fine quality Beans. Later in maturing than most Lima Beans. Pkt. 10 cts., lb. 45 cts., 10 lbs. \$3, 100 lbs. \$28.



Fordhook Bush Lima Beans



Crosby's Egyptian (Special) Beets

BEETS

CROSBY'S EGYPTIAN (Special)

After four years' work of selecting, we can offer this stock of Beet to the most critical grower. It is extra early, dark red, with a medium-sized top, making it a fine variety for coldframes and outside use. Many growers are now using this for bunching throughout the entire season as it will not crack under the most trying conditions. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25, 10 lbs. \$11.

EARLY WONDER. An early-maturing variety with globe-shaped roots, dark flesh, and tops of medium size. A fine second-early or later variety for bunching. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 10 lbs. \$9.

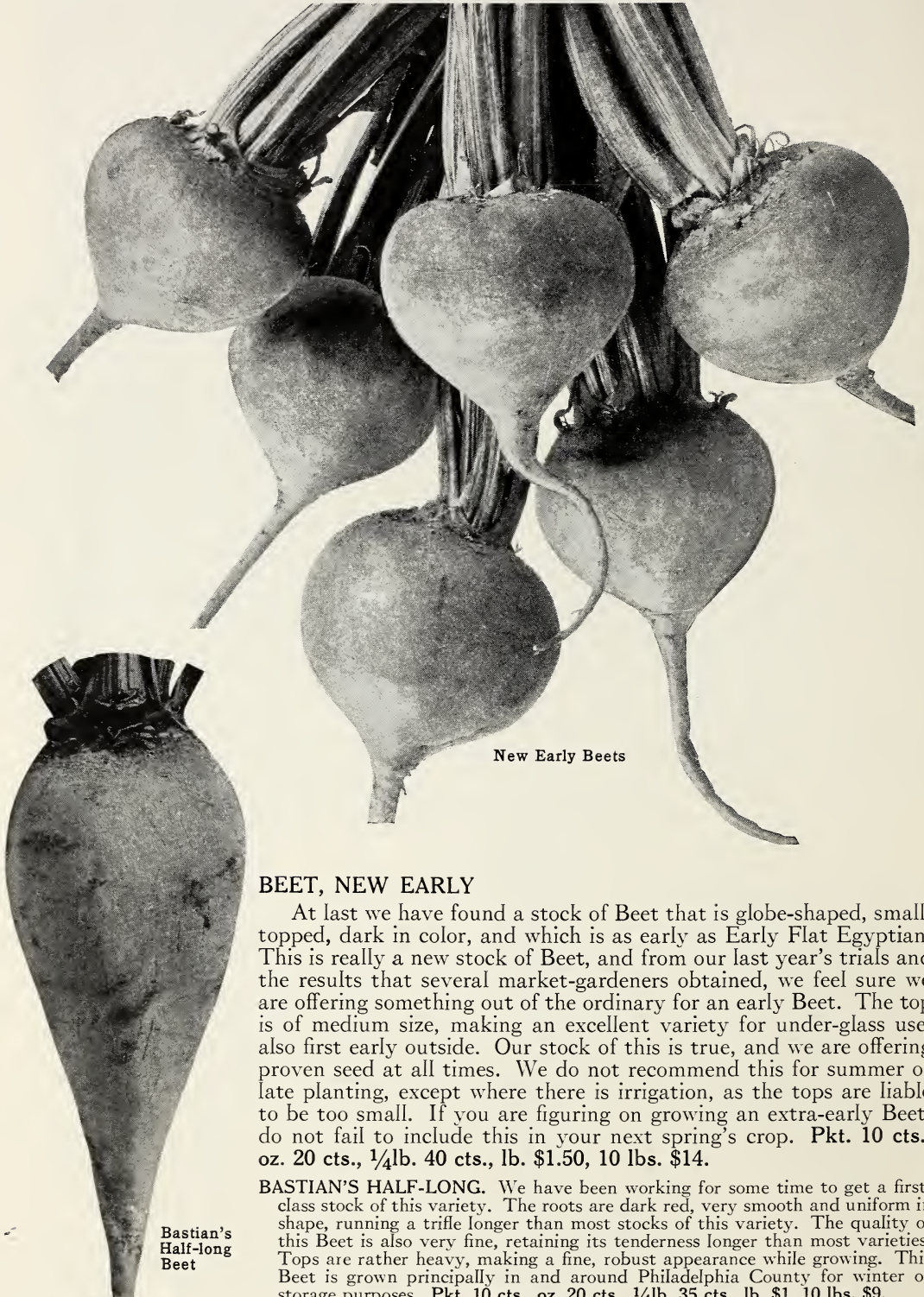
EARLY ECLIPSE. A favorite second-early, following Crosby's Egyptian. Globe-shaped root, small tap-root. Good for storing in trenches. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 10 lbs. \$7.50.

EARLY LENTZ

One of the very best early Beets we know. Grown and selected by a Bucks County market-gardener under our direction. He has gone to much trouble and expense to grow the finest stock for us; it can be relied upon to be absolutely true to type. Color rather light, quality excellent, top rather heavy. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.10, 10 lbs. \$10.

DETROIT DARK RED. (Late.) A turnip-shaped Beet of a very rich red color throughout, largely used by market-gardeners for bunching. We have a very fine strain of this variety. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1, 10 lbs. \$8.50.

MODEL RED GLOBE. Similar to Eclipse, but a trifle later. Perfect globe-shape, of uniform size, rich crimson color, and a fine and sweet flavor. Fine midseason variety. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.10, 10 lbs. \$10.



New Early Beets

BEEET, NEW EARLY

At last we have found a stock of Beet that is globe-shaped, small-topped, dark in color, and which is as early as Early Flat Egyptian. This is really a new stock of Beet, and from our last year's trials and the results that several market-gardeners obtained, we feel sure we are offering something out of the ordinary for an early Beet. The top is of medium size, making an excellent variety for under-glass use, also first early outside. Our stock of this is true, and we are offering proven seed at all times. We do not recommend this for summer or late planting, except where there is irrigation, as the tops are liable to be too small. If you are figuring on growing an extra-early Beet, do not fail to include this in your next spring's crop. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50, 10 lbs. \$14.

BASTIAN'S HALF-LONG. We have been working for some time to get a first-class stock of this variety. The roots are dark red, very smooth and uniform in shape, running a trifle longer than most stocks of this variety. The quality of this Beet is also very fine, retaining its tenderness longer than most varieties. Tops are rather heavy, making a fine, robust appearance while growing. This Beet is grown principally in and around Philadelphia County for winter or storage purposes. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.

Bastian's
Half-long
Beet

BEETS, continued

DETROIT DARK RED (Late)

An entirely new strain of the Detroit type. Roots uniformly globe-shaped, dark red. We recommend it very highly for canning or bunching purposes, the tops being rather small, which seems to be essential for either purpose. We have gone to the trouble to have a small quantity put through the canning process and have seen and heard excellent reports of our experiment. In fact, we have gone the limit in producing this special strain of Detroit Beet and do not know anything else to do to make the type better. To those who have not already had a sample, we will gladly furnish a liberal trial packet upon request. Pkt. 10 cts., oz. 25 cts., 1/4lb. 40 cts., lb. \$1.25, 10 lbs. \$11.

MANGEL BEET

FOR STOCK-FEEDING

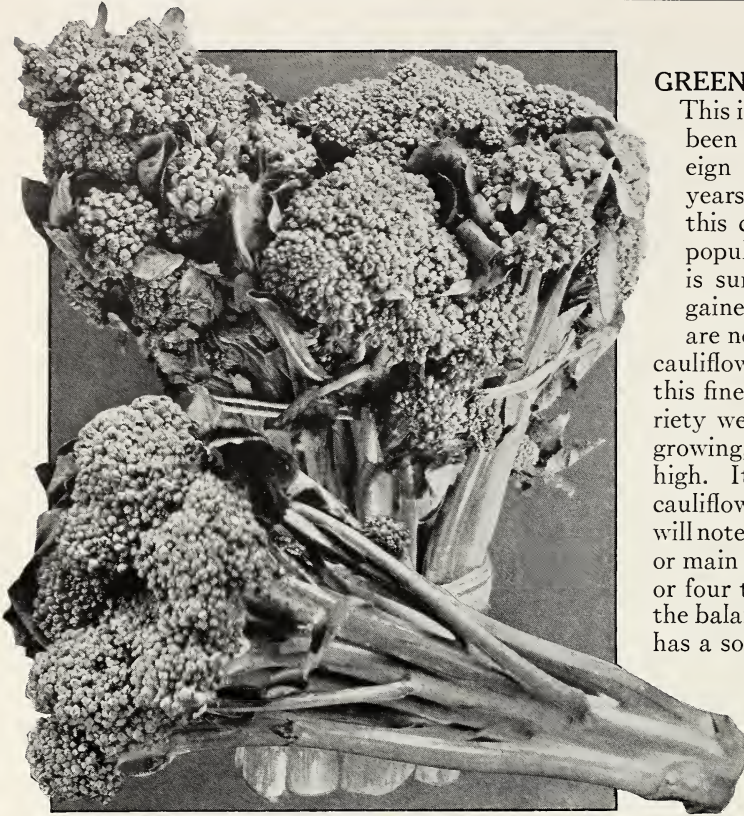
LONG RED. A mammoth-yielding variety, producing roots largely above ground, making them easy to harvest. A desirable cow-feed to increase milk-flow. Pkt. 10 cts., oz. 15 cts., 1/4lb. 25 cts., lb. 70 cts., 10 lbs. \$6.50.

GOLDEN TANKARD. Roots are very large; flesh yellow, zoned with white. Pkt. 10 cts., oz. 15 cts., 1/4lb. 25 cts., lb. 70 cts., 10 lbs. \$6.50.

CHIRK CASTLE. Very large, long, red variety, somewhat sweeter than Mammoth Long Red. Pkt. 10 cts., oz. 15 cts., 1/4lb. 25 cts., lb. 70 cts., 10 lbs. \$6.50.



Our new strain of Detroit Dark Red Beets



Green Italian Broccoli

BROCCOLI

GREEN ITALIAN (Calabrese)

This is not a new vegetable, having been in use in Italy and other foreign countries for a number of years. Since being introduced into this country, it has become very popular as a vegetable; in fact, it is surprising just how fast it has gained its popularity. People who are not in the habit of eating kale, cauliflower, or cabbage, have relished this fine-flavored vegetable. The variety we offer is the sprouting type, growing, in most cases, about 3 feet high. Its foliage is very similar to cauliflower leaves but smaller. You will note, in the illustration, the middle or main sprout which is usually three or four times heavier and larger than the balance of the sprouts. The plant has a sort of branching habit, and as soon as a sprout is cut from a branch another immediately forms and will mature very quickly. For early use, sow in coldframes or hot-houses and treat practically the same as early cabbage

or cauliflower. Sow first week in June for fall planting. Pkt. 10c., oz. 80c., 1/4lb. \$3, lb. \$10.

CAULIFLOWER

EARLY SNOWBALL

Deep, solid heads of medium size, pure white, and of excellent quality. An ideal all-season variety for the home-garden, and the very best early for the market-grower, as it forces easily. We have noticed, the last two or three years, that some of the very largest commercial growers are using this particular strain throughout the entire season. The foliage is heavy enough to protect it from the hot sun and fairly heavy frost. Pkt. 25 cts., oz. \$3, 1/4lb. \$8.50, lb. \$30.

AUTUMN GIANT. An enormous late sort; leaves very large and hardy. Pkt. 25 cts., oz. \$1, 1/4lb. \$3, lb. \$10.



Cauliflower

CABBAGE

EXTRA-EARLY JERSEY WAKEFIELD. The most popular early Cabbage. The pointed heads are of medium size, solid, and of excellent quality. They are hardy, resist frosts, and mature in 100 days. Pkt. 10c., oz. 40c., 1/4lb. \$1.25, lb. \$4.50, 10 lbs. \$35.

CHARLESTON or LARGE WAKEFIELD. A week later than Extra-Early Jersey Wakefield. Heads are larger, just as solid, but not quite so pointed. Good variety to follow the Early Jersey Wakefield. Pkt. 10 cts., oz. 30 cts., 1/4lb. \$1, lb. \$3.50, 10 lbs. \$30.

GOLDEN ACRE. A very valuable, first-early, round-head sort. This variety is known throughout the country as the best for early spring use. The heads are very solid, leaves very similar to Copenhagen but not so large a head. Our trials show it to mature 10 days earlier than the Copenhagen Market. Pkt. 10 cts., oz. 50 cts., 1/4lb. \$1.75, lb. \$6, 10 lbs. \$55.

COPENHAGEN MARKET. An early round-headed variety which is in a class by itself. Heads very solid, often weighing 10 pounds. About as early as Charleston Wakefield. Sow the seed in February for early use, as the fall-sown plants are apt to run to seed in the spring. Pkt. 10 cts., oz. 50 cts., 1/4lb. \$1.75, lb. \$6, 10 lbs. \$55.

EARLY SUMMER VARIETIES

SUCCESSION. Large, solid, flat heads, which will stand a long time before marketing. A fine second-early variety. Pkt. 10 cts., oz. 25 cts., 1/4lb. 85 cts., lb. \$3, 10 lbs. \$28.50.

ALL-SEASONS. Good variety to use any time throughout the season. Heads are large, a trifle flat, and mature early. Pkt. 10 cts., oz. 25 cts., 1/4lb. 85 cts., lb. \$3, 10 lbs. \$28.50.



Charleston or Large Wakefield Cabbage



Hard-heading Savoy Cabbage

EARLY SUMMER VARIETIES, continued

LAUDERBACK'S ALL-YEAR-ROUND. An old standard variety, originated by one of our market-gardeners several years ago. Excellent for summer or fall. A robust grower, producing a fine rather flat head. Excellent for sauerkraut. Pkt. 10 cts., oz. 25 cts., 1/4lb. 85 cts., lb. \$3, 10 lbs. \$28.50.

FALL or WINTER CABBAGE

LATE FLAT DUTCH. One of the best late winter Cabbages. Very large, oval-shaped heads of good quality that keep well. Pkt. 10 cts., oz. 25 cts., 1/4lb. 85 cts., lb. \$3, 10 lbs. \$28.50.

DANISH BALLHEAD. A medium-sized, very solid-heading, popular variety for winter use. Grown principally by our New York growers for shipping. Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1.10, lb. \$4, 10 lbs. \$38.50.

HARD-HEADING SAVOY (Special). This is one of the varieties of Cabbage that is exceptionally hard to produce true. In order to offer out-of-the-ordinary stock, we were obliged to grow it on our own farms. While not one of the largest that could be produced, we believe, however, it is large enough for almost any market. We have developed the head so that it is almost round. This strain is now used in a large way commercially for fall or winter use. Pkt. 10 cts., oz. 60 cts., 1/4lb. \$2, lb. \$7, 10 lbs. \$60.

MAMMOTH RED ROCK. Very large, round, solid head. This variety is fine for cole slaw, as the color gives it a fine appearance. Pkt. 10 cts., oz. 25 cts., 1/4lb. 85 cts., lb. \$3, 10 lbs. \$28.50.

CHINESE CABBAGE (Wong-Bok). Makes a salad with a delightful peppery zest; should be in every garden. Large, tender heads can be eaten like lettuce or boiled as cabbage. In the latitude of Philadelphia or New York sow the seed August 1. Seed sown in spring is rarely successful as the heads run to seed in hot weather. Pkt. 10 cts., oz. 45 cts., 1/4lb. \$1.50, lb. \$5.50, 10 lbs. \$52.50.

CARROT

Rich in the important vitamins, Carrots should be eaten frequently. When pulled fresh and young, the roots are tender and delicious.

CHANTENAY

An excellent stump-rooted sort of fine orange color, with medium-sized tops and a small neck. The roots are uniform, averaging from 2 to 4 inches thick at the shoulder and 5 to 6 inches in length. The flesh is fine-grained, crisp, tender, and free from core. A productive ideal bunching Carrot. See page 25. Pkt. 10 cts., oz. 20 cts., 1/4lb. 35 cts., lb. \$1.25, 10 lbs. \$11.50.

DANVERS HALF-LONG (Special)

The growers say that this is what they call a real stock of Danvers Half-Long. It averages 1 1/2 inches longer than Chantenay, with not quite so blunt a point, and very rich, orange-colored skin. We developed the stock to run a fine orange color throughout, eliminating the green core as much as possible so often found in Carrots. This type has often been shown at vegetable shows, fairs, etc., and has no trouble in capturing the first prize. Try it out. It is one of the best yet. See page 24. Pkt. 10 cts., oz. 20 cts., 1/4lb. 45 cts., lb. \$1.50 10 lbs. \$15.



Red Intermediate Carrots

RED INTERMEDIATE. Commercial growers who demand a larger Carrot than Danvers are more than satisfied with this particular strain. The root grows about 8 inches long under ordinary conditions, is very smooth, and a sort of reddish color. The tops are not quite so heavy as the Chantenay or Danvers but always produce enough foliage to make a good bunching Carrot. They make an attractive looking package topped and put in bushels. Pkt. 10 cts., oz. 20 cts., 1/4lb. 60 cts., lb. \$2, 10 lbs. \$17.50.

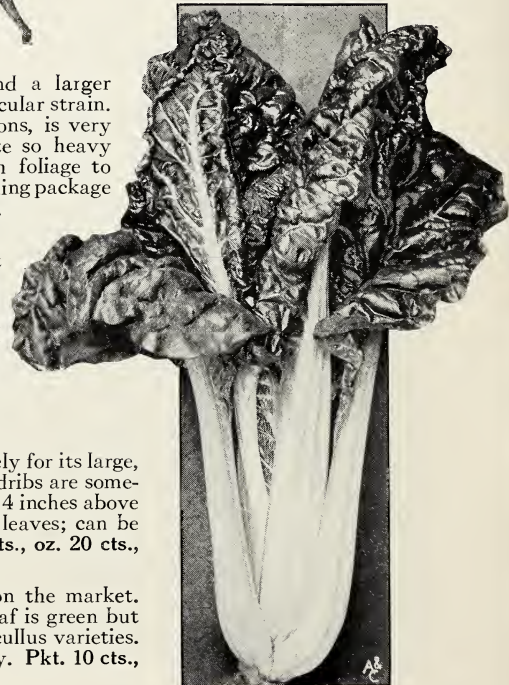
RUBICON HALF-LONG. A stump-rooted variety somewhat longer than the Chantenay, with deep orange color. Pkt. 10 cts., oz. 20 cts., 1/4lb. 35 cts., lb. \$1.25, 10 lbs. \$11.50.

ST. VALERY. The most desirable Carrot for home and fancy markets. It has 10-inch, smooth, pointed, dark orange-colored roots. Pkt. 10 cts., oz. 20 cts., 1/4lb. 30 cts., lb. \$1, 10 lbs. \$9.

SWISS CHARD

GIANT LUCULLUS. This is a variety of Beet grown exclusively for its large, tender leaves which are cooked the same as spinach; the midribs are sometimes served like asparagus making delicious "greens." Cut 4 inches above the ground, the plants will produce another large crop of leaves; can be cut repeatedly. Valuable crop for poultry feed. Pkt. 10 cts., oz. 20 cts., 1/4lb. 40 cts., lb. \$1, 10 lbs. \$9.

LARGE GREEN WHITE-RIBBED. The best selling sort on the market. It is a big improvement over the Lucullus varieties; the leaf is green but not so curly. It also has a much better flavor than the Lucullus varieties. Commercial growers claim this will outsell any other variety. Pkt. 10 cts., oz. 20 cts., 1/4lb. 40 cts., lb. \$1, 10 lbs. \$9.





TELEPHONE
220 F-5
BAKER'S CODE

South Lima, N. Y. Sept 24 1929.

Abbott & Cobb,
Philadelphia, Pa.

Gentlemen:

I have used your Early Fortune strain of Celery for a number of years alongside of other improved strains of early Celery put out by other growers. It has been interesting to note the improvements in all strains from the time they were put out.

This year I used four strains of what I thought was the best early Celery on the market. Your Early Fortune was one of them, and it proved to be the best out of the four strains. It yielded more crates per row, had fuller and better colored hearts. In fact, it was the best that I have ever grown. If you can hold Early Fortune up to its present high standard then you need no further improvement on this Celery.

Yours truly Henry Greffrath



Above is one of the loading stations of the American Fruit Growers, Inc., Sanford, Fla., and the loading of a solid train of our No. 14 Golden Celery.



In 1929 it is estimated that 9,000 cars of Celery were shipped from Sanford, Fla. Above is the first car to go forward out of the 9,000. Early Fortune was given the credit for producing the earliest Celery.



Golden No. 14

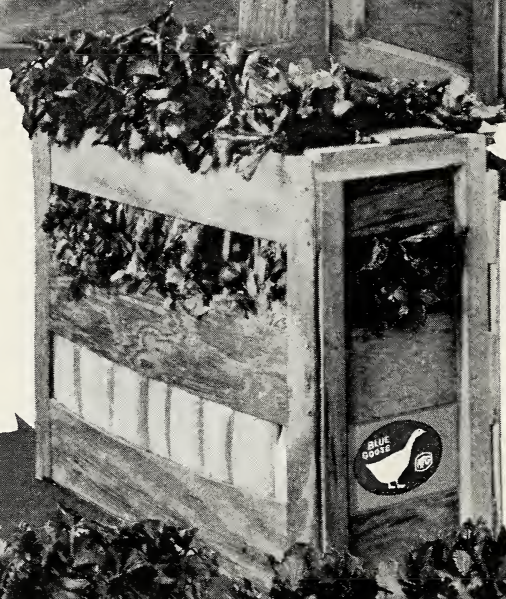
FIVE LEADING BRANDS

When Celery is packed under these labels it means that the quality is of the finest.

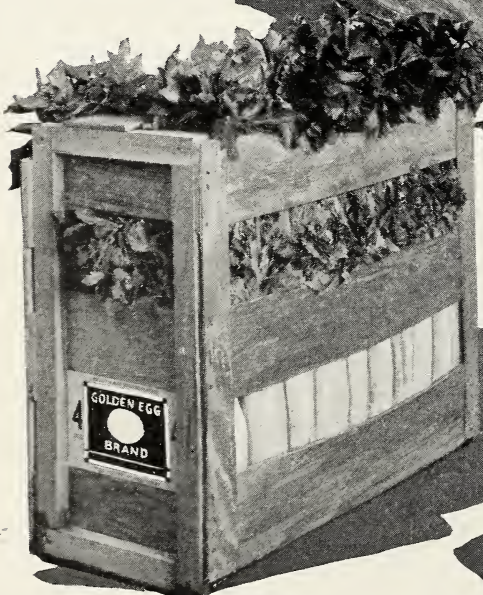


Golden No. 14

These varieties are grown in Florida from our fancy strains. Golden No. 14 brought, in every case the past season, a premium over other varieties.



Early Fortune



Golden Self-blanching



Early Fortune

CELERY

GOLDEN SELF-BLANCHING (Special)

Grown in all of the leading Celery sections of the United States because the growers claim there is nothing better. It has fine golden appearance, producing a rib more round than most stocks of Golden Self-blanching. Our stock is tested one year before selling, to safeguard the grower against any poor stock. This particular sort is a vigorous grower and is therefore more free from blight. We have carefully selected and rogued it to eliminate the hollow stem or softness while growing or after blanching. The germinating qualities are also better in this robust stock, which makes it a big factor in producing large, strong stalks. Pkt. 25 cts., oz. \$1, 1/4lb. \$3.50, lb. \$12, 10 lbs. \$110.

EARLY FORTUNE (Improved Golden)

We are offering in this variety one that has been on the market for three or four years and has proved itself to be a valuable early sort. It is a cross between Golden Self-blanching and Easy-blanching, retaining the quick, robust-growing habits of Easy-blanching. It is far more resistant to blight than Golden Self-blanching and matures two weeks earlier. It has the largest heart of any known variety; very valuable for either close or wide culture. This seed is grown on our own farms and is absolutely true to type. Do not fail to try even a small quantity of this if you are not familiar with it. Pkt. 20 cts., oz. \$1.50, 1/4lb. \$6, lb. \$20, 10 lbs. \$180.

WINTER KING (Special)

The best winter variety to store in trenches. Should be ready to market just after Christmas. It will produce exceedingly full-hearted, very green, stout stalks of unusually good keeping qualities. For those who figure on growing late Celery, we recommend this particular stock. Pkt. 25 cts., oz. \$1.50, 1/4lb. \$5.50, lb. \$20.

EASY-BLANCHING (Special)

One of the very best for early or late use. Very stout and handsome stalks that are more free from blight than any other Celery on the market. It will bleach to a light golden color almost as quickly with boards or paper as Golden Self-blanching. We have used a great deal of care in producing this stock and it is giving perfect satisfaction to all who are using it. This is a full-hearted variety, having been known to produce 450 crates on an acre of muck-land soil. The seed is grown on our own farms. Pkt. 25 cts., oz. \$1.50, 1/4lb. \$5.50, lb. \$20.

GOLDEN NO. 14

We have had a great demand for a fancy stock of the old Golden Self-blanching Celery, and have produced this with the idea in mind that it would fill crates quicker and make larger bunches than any stock of this variety. We have selected it for a long, round rib. This seems to be essential. The heart is a light golden color with not even a green tint in a single stalk. It will mature a little earlier than the old stock of Golden Self-blanching and will blanch a trifle quicker, which is due to the extra-fancy selection. This is now known to be the leader in this variety. Pkt. 25 cts., oz. \$2, 1/4lb. \$7, lb. \$25.

FULL-HEART EASY-BLANCHING

In this stock we are offering something new—a combination that should suit every grower of Celery, as it can be used for both early and late. The ribs are more round than the general run of Easy-blanching stocks, producing as much heart as is possible to grow. The height is about 20 inches, very easily blanched to a light golden color. The roundness of the ribs will eliminate the softness that is always noticeable in Easy-blanching types. Extra good for cold storage or trenching. See illustration on page 2. Pkt. 25 cts., oz. \$2, 1/4lb. \$7, lb. \$25.

CELERY, continued

COLUMBIA. Finest eating Celery to be had. The ribs are round and very solid and it grows a very stout, light green stalk. Pkt. 10 cts., oz. 50 cts., 1/4lb. \$1.75, lb. \$6.

NO-FAULT GIANT. Resembles Meyers' White Plume in many respects. It is, without doubt, the stronger grower and the stalks are much heavier. It is noted for standing dry weather better than any other early Celery. Ribs resemble Giant Pascal. Pkt. 10 cts., oz. 40 cts., 1/4lb. \$1.15, lb. \$4.

MEISCH'S GREEN. Another easy-blanching variety, growing full-hearted stalks a trifle shorter than Easy-blanching, and of a beautiful light golden color when bleached. This seed was grown by us from the original stock and is absolutely true to type. The ribs of this variety are more round than those of the Easy-blanching. It can be bleached with paper, boards, or dirt for early use and is a good variety to store for winter use. Pkt. 25 cts., oz. \$2, 1/4lb. \$7, lb. \$25.

MEYERS' WHITE PLUME. Very early Celery. Ribs and leaves when bleached are white and it requires only a short time before it is ready for market. This is the first early Celery that was originated and still holds a high place among the early varieties. Pkt. 10 cts., oz. 30 cts., 1/4lb. \$1, lb. \$3.

WINTER QUEEN. An old standard, late-keeping sort. Has very stout stalks of medium height which when blanched are very attractive creamy white in color, crisp and of fine flavor. Pkt. 10 cts., oz. 35 cts., 1/4lb. \$1, lb. \$3.

CELERIAC

GIANT PRAGUE (Special)

For some time we have been working to produce a stock of large-bulbed Celeriac and now we have improved the strain sufficiently to offer something excellent in this line. Most other stocks grow very large tops and very small bulbs or roots. We have bred this to produce a medium-sized top with a large apple-shaped root. It has excellent keeping qualities. Pkt. 10 cts., oz. 75 cts., 1/4lb. \$2.50, lb. \$8.



Giant Prague (Special) Celeriac

CORN SALAD

Used both as a salad and pot herb. A cool-season crop, maturing in six to eight weeks. Plant in early spring; also in late summer for fall crop.

LARGE-SEEDED BROAD-LEAF. Leaves large and broad. Best variety to grow under glass. Pkt. 10 cts., oz. 20 cts., 1/4lb. 40 cts., lb. \$1.25, 10 lbs. \$11.

FIELD CORN

IMPROVED LEAMING. A high-yielding Corn, maturing in 90 to 100 days. One of the best varieties for silage as well as for husking. Pkt. 10 cts., lb. 25 cts., pk. (14 lbs.) \$1, bus. (56 lbs.) \$3.

100-DAY BRISTOL. Grown under immediate direction, this 100-day Corn will grow large crops with 16 rows of large, broad, deep kernels on a small cob. Pkt. 10 cts., lb. 25 cts., pk. (14 lbs.) \$1, bus. (56 lbs.) \$3.

EUREKA ENSILAGE. For tonnage, Eureka is the best ensilage Corn. A very vigorous grower, having unusually heavy foliage, with large, tender stalks that the cattle will relish. Pkt. 10 cts., lb. 15 cts., pk. (14 lbs.) 75 cts., bus. (56 lbs.) \$2.50.



Improved Leaming Corn



Abbott & Cobb's Early Sweet Corn

SWEET CORN

ABBOTT & COBB'S EARLY

As this sort was originated by us and grown in Bucks County, Pennsylvania, it is acclimated. Large, 14-rowed ears, with medium-sized grains. Two fine ears are borne by about 60 per cent of the stalks. The quality is excellent and the stalks are of medium size. An exceptionally fine Sweet Corn that quickly became a favorite with all of the early Corn-growers. A special drying process insures the best of germinating power to each seed. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3.50, 50 lbs. \$15.

HOWLING MOB. Undoubtedly the finest medium-early Corn. Ears are larger and a trifle later than the Abbott & Cobb's Early. The seed we offer has been grown by a farmer in Bucks County and is absolutely true to type. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.20, 50 lbs. \$10.

KENDEL'S EARLY GIANT. A very popular, large, second-early variety, about a week later than Howling Mob. The ears are very thick and about 8 inches long, with real sweet flavor. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.20, 50 lbs. \$10.

GOLDEN BANTAM. The favorite Corn in the small garden because of its deliciously sweet kernels. The stalks grow from 4 to 5 feet high, producing a good-sized golden ear. The color is very often misleading to those who do not know this variety, but a trial will convince anyone that the quality is excellent. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.70, 50 lbs. \$12.

STOWELL'S EVERGREEN. The leading main-crop Corn for home use, market, and canning. Our stock has been grown and selected on a Bucks County farm under our direct supervision and thoroughly dried by a natural process. It will produce large, uniform-sized ears of fine quality. The grains are of medium size and slender. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.70, 50 lbs. \$12.

EARLY METROPOLITAN. Combines the essential features of earliness, productiveness, and good flavor. Ears 8 to 9 inches long. A very desirable variety. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.70, 50 lbs. \$12.

COUNTRY GENTLEMAN. A favorite main-crop variety requiring rich ground. Has a small cob with tender, medium-sized, deep kernels of an unusual high quality. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$3.50, 50 lbs. \$15.

Abbott & Cobb's Celery Seed is famous for its purity, uniformity, and special strains of the most profitable varieties. This superior quality is maintained by rigid selection of improved types in the field and a most careful supervision of its planting and cultivation down to its harvesting and preparation for our use. There is none better.



Golden Bantam Sweet Corn



A. & C. Cucumbers

CUCUMBER

A. & C.

This is positively a new stock of Cucumber which we are offering. We have developed it on our own farms and figure we now have something that will be in great demand on the market. The vines are robust in habit and will produce an abundance of Cucumbers about 10 inches long but not so thick as most varieties and not showing the spine. Their beautiful dark green color is retained longer than that of any stock which we have ever tested. The time of maturity is sixty days. We recommend this highly for shipping purposes. Our supply of seed for this variety is limited this year and would suggest ordering early. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50, 10 lbs. \$35.

PENNYPACK VALLEY. (New.) See pages 24 and 25.

WHITE SPINE. An extra dark green, White-Spine variety of fine shape and appearance. Season is about the same as Arlington. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.

LONG GREEN. Fine, long, dark green sort for pickling or shipping purposes. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.

EARLY FORTUNE. A very early, dark green, prolific variety with fruit averaging about 8 inches long. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25, 10 lbs. \$11.50.

ENDIVE

MAMMOTH GREEN CURLED or **OYSTER.** Very large, curly plants, which, when bleached, are light yellow with a meaty flavor. It is the variety most commonly grown by market-gardeners. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25, 10 lbs. \$11.50.

BROAD-LEAF (Full-Heart)

Leaves are broad, thick, slightly wrinkled, and easily blanched. The best of the broad-leaf type. In this particular stock we offer the full-hearted sort, for in some of the stocks offered the heart has been too small and delicate to make a good appearance. We are sure this well-developed, heavy heart will meet with the approval of all who use it. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2, 10 lbs. \$19.



Broad-Leaf (Full-Heart) Endive

DANDELION

IMPROVED BROAD-LEAF. This variety is considered the best by many growers. It is very early, producing a bigger crop of large, broad, thick leaves than most varieties, and is especially good for under glass. Pkt. 10 cts., oz. 50 cts., 1/4lb. \$1.75, lb. \$6.

EGGPLANT

BLACK BEAUTY. Finest of all. Fruit is large, handsome, and of glossy black color; very early and productive. Pkt. 10 cts., oz. 50 cts., 1/4lb. \$1.50, lb. \$5.

HORSE-RADISH ROOTS

The old standard variety; Philadelphia grown. Fine, strong sets. \$1 per 100, \$7 per 1,000. If wanted by mail, add 10 cts. per 100 for postage.

KALE

IMPERIAL LONG-STANDING. Fast grower and yet stands much longer than most varieties without going to seed. The leaves are dark green and very curly. This stock is used for early spring sowing owing to the very dark green color. Pkt. 10 cts., oz. 20 cts., 1/4lb. 30 cts., lb. 80 cts., 10 lbs. \$7.50.



Early Short-Leaf White Kohlrabi



Black Beauty Eggplant

KOHLRABI

A quick-growing, "turnip-rooted" cabbage. Use when half grown (the bulbs 2 to 2 1/2 inches in diameter). Make sowings every ten days to insure succession.

EARLY SHORT-LEAF WHITE

An extremely early variety with very small tops, which permits planting very closely. It is the best for forcing or outdoor use. Pkt. 10 cts., oz. 40 cts., 1/4lb. \$1.25, lb. \$4.

WHITE VIENNA. A very popular white variety with few small leaves, white skin, and tender, delicate flesh. Pkt. 10 cts., oz. 25 cts., 1/4lb. 75 cts., lb. \$2.50.

LEEK

The most delightfully flavored member of the onion family. The thick, tender stalks, when cooked, are relished by those who never eat onions. Used in stews and soups they impart a very delicate flavor.

GIANT ITALIAN. Very large, short, thick stems with broad, dark green leaves; very hardy. Pkt. 10 cts., oz. 25 cts., 1/4lb. 75 cts., lb. \$2.50, 5 lbs. \$12.

LARGE MUSSELBURGH. Stems short, very thick; broad, dark leaves; very mild flavor. Pkt. 10 cts., oz. 25 cts., 1/4lb. 75 cts., lb. \$2.50, 5 lbs. \$12.

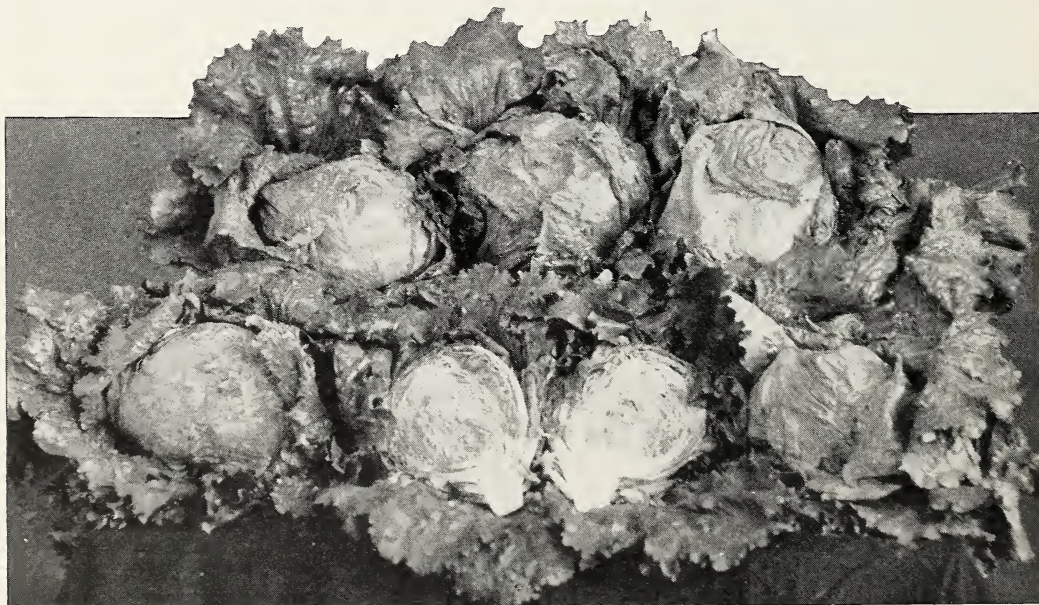
Note in Particular Our Private Stock of Celeriac on page 14



A partial view of our Pennypack Valley Trial-Grounds, showing Wonderful and Romaine or Cos Lettuce. This is the fourth year we ran other stocks in comparison to our No. 728 Wonderful and our Dark Cos Romaine. Every year these private stocks proved superior.

LETTUCE

NEW YORK or WONDERFUL No. 728. The most popular Lettuce grown for market, where it is known as "California Ice Lettuce." A slow grower making a heavy, firm head that remains in good condition several weeks. Outer leaves dark green, inner blanch pure white. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.75, 10 lbs. \$35.



A few of the parent plants of our No. 728 Wonderful Lettuce. Note the solidness and uniformity



White Big Boston Lettuce

LETTUCE, continued

WHITE BIG BOSTON (Special)

For the last five years we have been producing and selling an unusually good type of White Big Boston that is absolutely true to type. It resembles the Big Boston in appearance, with leaves a trifle smoother than most varieties of White Boston and which do not turn red in cool or cold weather. The head and frame is just as large as is possible to produce; it will cut as many crates per acre as the regular Big Boston. The fact that it does not turn red in cool weather makes it a most valuable shipper for it often brings 50 cents per crate more than the Big Boston. The commission men are always anxious to get hold of a good stock of well grown White Boston. This is the type to grow to please them. It is an exceptionally fine variety for growing under cold-frames or for the first planting outside in the spring. Pkt. 10 cts., oz. 40 cts., 1/4lb. \$1.25, lb. \$4, 10 lbs. \$40.

ABBOTT & COBB'S SPECIAL BIG BOSTON

Our stock of Big Boston is, without doubt, the finest to be had anywhere. We have gone to great trouble and expense to produce the very best strain of this desirable variety. By careful test it has proved the best out of thirty different strains. The leaves are thick and dark green, producing very solid white heads. We recommend this variety to particular growers. Pkt. 10c., oz. 20c., 1/4lb. 50c. lb. \$1.50, 10 lbs. \$12.50. See cut, page 21.

IDEAL. This is the earliest variety we know, producing a leaf similar to the old type Salamander or May King. The frame is exceptionally large. While the head is not quite so hard as some varieties, its earliness really makes it valuable. It is often put on the market ten days ahead of Big Boston or White Big Boston. Pkt. 10 cts., oz. 40 cts., lb. \$4, 10 lbs. \$40.

ALL-SEASONS. Very dark green leaves, forming a very large, compact head, but does not head well during July and August. A fine strain for spring and fall use. Pkt. 10 cts., oz. 20 cts., 1/4lb. 65 cts., lb. \$2, 10 lbs. \$17.50.

LETTUCE, continued

SALAMANDER. One of the most desirable for all-season growing, producing very solid and tender heads of excellent quality at all seasons. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50, 10 lbs. \$12.50.

ALLHEART. Resembles Salamander in appearance but the heads are not quite so large. It is the best hot-weather Lettuce that we know, having withstood repeated tests on hot, hard soil. This is one of our specials. It is the strain unsurpassed. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.25, 10 lbs. \$20.

BLACK-SEEDED SIMPSON. One of the old, most reliable and productive loose-leaf varieties. The nearly white, very large, thin, curly, very tender leaves are of very good quality, remaining in fine condition for some time. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75, 10 lbs. \$15.

EARLY SPRING. Here is a type of Lettuce that we have selected out of our special stock of White Big Boston. What we have done is select the smaller ones with a smooth, thick leaf. These we have noted are rather rugged, will stand more sun and mature about five days earlier, making one of the hardest heads we have ever seen in Lettuce. Coming out of the White Boston type, they do

EARLY SPRING, continued

not show any redness in cool or even frosty weather. It is plenty large enough to pack two dozen in a standard Lettuce crate. We recommend this for early spring use, under glass or outside, but not late fall sowing, as it is apt to run a trifle small if sown too late in the season. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4, 10 lbs. \$40.

DARK COS. In this Cos we are offering something new. We have developed it with the idea in mind that it would withstand heat and bad weather conditions. Our experiments this past season have proved it to be far superior in this respect. The leaves are dark green with a self-folding head. Height is about 15 inches. We believe this to be a very valuable commercial type, and will gladly furnish a liberal sample of seed to those who have not already tried it. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 70 cts., lb. \$2.50, 10 lbs. \$22.50.

ROMAINE or COS. This is the largest variety of green Cos Lettuce that grows. It has an upright, quick-growing habit, and a solid, very crisp head of fine flavor that bleaches as it grows. It is not so apt to blast as some of the light-colored strains, therefore more sure to make a crop. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50, 10 lbs. \$12.50.



Romaine or Cos Lettuce



Abbott & Cobb's Special Big Boston Lettuce. See page 19

MUSKMELON

SALMON-FLESHED. Firm, oval-shaped, close-netted melon, very desirable for shipping. Rich salmon-colored flesh—a new color for melons and one that has proved very attractive to the consumers because of its high flavor. Pkt. 10 cts., oz. 20 cts., 1/4lb. 40 cts., lb. \$1.50, 10 lbs. \$14.

ROCKY FORD. The most desirable green-fleshed melon; it is unexcelled for spiciness and sweetness. Our stock is the improved blight-resistant type of Rocky Ford. Its shipping qualities are fine. Light green flesh with small seed cavity and extra-fine flavor. A very popular variety and always scarce and in heavy demand. Pkt. 10 cts., oz. 20 cts., 1/4lb. 40 cts., lb. \$1.25, 10 lbs. \$11.50.

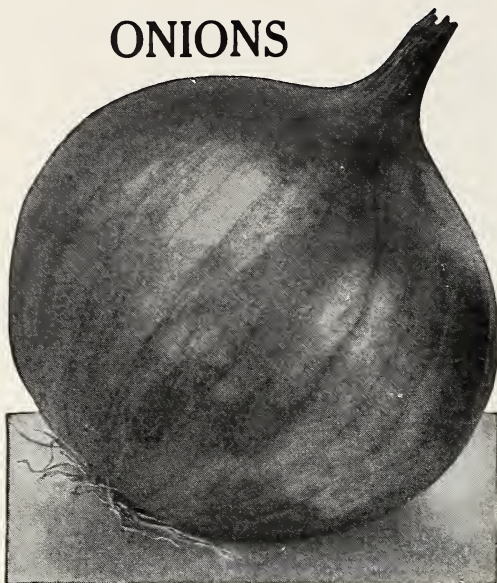
FORDHOOK. One of the very best early, deep-fleshed, pink melons, with a most delicious flavor. Somewhat flat in shape, well netted, the sectors showing plainly. Pkt. 10 cts., oz. 20 cts., 1/4lb. 40 cts., lb. \$1.25, 10 lbs. \$11.50.

HONEY DEW. This new and deliciously flavored melon has met with instant public favor. It is the very finest melon grown today because of its extraordinary sweetness. Fruit very large; rind smooth and cream colored. The light green flesh is very thick, and unsurpassed in quality and richness of flavor, crisp texture and unrivaled sweetness. Pkt. 10 cts., oz. 20 cts., 1/4lb. 45 cts., lb. \$1.50, 10 lbs. \$14.



F. J. Ritz & Sons, Elba, N. Y., White Big Boston crop, 1928. Note the percentage of crop cut and marketed

ONIONS



Southport Yellow Globe Onion

SOUTHPORT YELLOW GLOBE. The largest and handsomest yellow Onion; exceedingly productive later main-crop sort, growing a uniform, rich golden colored, globe-shaped bulb. This variety is known to produce as high as 900 bushels per acre. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50, 10 lbs. \$22.50.

YELLOW DUTCH. Early, medium-sized, flat-shaped Onions of good quality, straw-colored skin, and fine keeping qualities. Best for growing sets and the one most often used. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.25, 10 lbs. \$21.

YELLOW GLOBE DANVERS. Probably the most popular all-purpose Onion, and by all odds the one most grown for market. Somewhat flatter than the Southport strain, with light, crisp, and mild flesh. It is a very productive, medium-early sort, fine keeper, and excellent for shipping. Pkt. 10c., oz. 30c., $\frac{1}{4}$ lb. 75c., lb. \$2.50, 10 lbs. \$22.50.

MAMMOTH YELLOW PRIZETAKER. Every small grower knows this Onion and its qualities; it is unsurpassed. Without doubt, a fine sort to grow, as it will crop better than most yellow varieties. By sowing early in coldframes, and transplanting in the open ground, 4 to 5 inches apart, 4-inch Onions may be grown easily. Pkt. 10c., oz. 25c., $\frac{1}{4}$ lb. 60 cts., lb. \$2.25, 10 lbs. \$21.

WHITE SILVERSKIN. Flattened bulbs with clear white skin and mild flesh. Grown principally for sets and small pickling Onions; is the best white sort for this purpose. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50, 10 lbs. \$24.

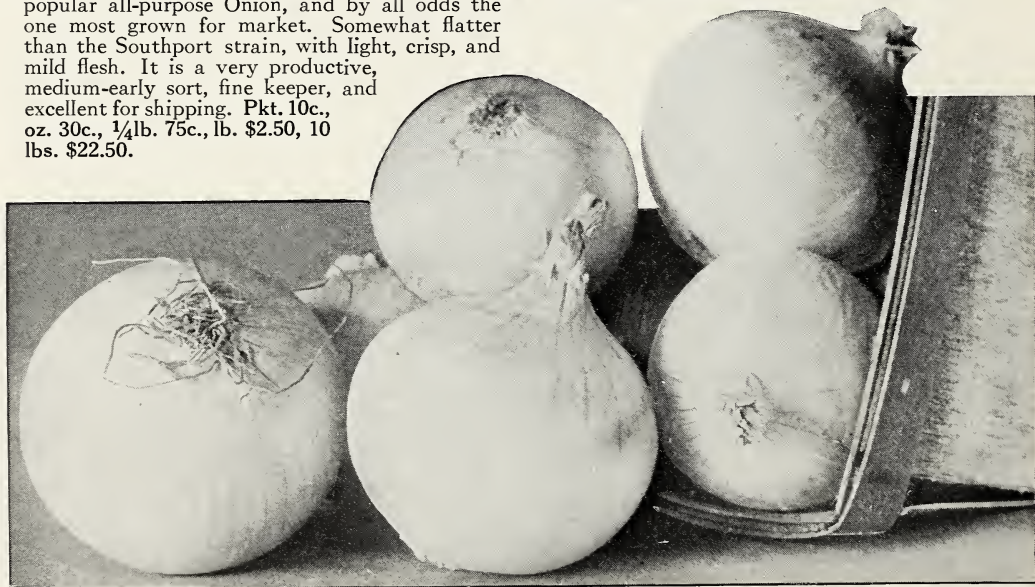
SOUTHPORT WHITE GLOBE. Large, pure white Onion. Skin is silvery white; flesh pure white and of fine flavor. This requires about a week longer to mature than most white sorts. Fine variety to grow in the spring for green bunch Onions. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3, 10 lbs. \$29.

MOUNTAIN DANVERS. A real globe-shaped, early Onion, maturing two weeks earlier than Yellow Globe Danvers, with flesh of about the same color. In several cases we have known this Onion to produce 850 bushels to an acre. This should impress one with the idea that it is not a small cropper. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50, 10 lbs. \$22.50.

WATERMELON

TOM WATSON. An important commercial variety. Similar in size and shape to Kleckley Sweets, but larger, often weighing 25 to 30 pounds and often 24 inches long. Prolific, producing delicious fruits in great abundance; of uniform size. Very solid rind; flesh heavy and sweet. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1, 10 lbs. \$9.

KLECKLEY SWEETS. The sweetest Watermelon and one of the easiest to grow. About 18 to 20 inches long, 12 inches in diameter, and filled with the juiciest, sweetest flesh imaginable. The dark green rind is thin, breaking easily in shipping. Widely grown for home and local markets. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1, 10 lbs. \$9.



Southport White Globe Onions



Market Gardeners' Parsley

PARSLEY

HAMBURG or PARSNIP-ROOTED. Grown principally for the root which, in our stock, resembles a parsnip in shape and color, though somewhat smaller and very highly flavored. Foliage is almost the same as plain or single Parsley. Pkt. 10 cts., oz. 20 cts., 1/4lb. 40 cts., lb. \$1.25, 10 lbs. \$11.50.

MARKET GARDENERS'

A strong-growing variety, usually about 8 inches high, with beautiful, dark green, very finely cut leaves. The compact, curly leaves are excellent for garnishing and sometimes used for flavoring, but we do not recommend this variety for that purpose as highly as Hamburg or Parsnip-rooted. For all general purposes, Market Gardeners' is the best variety. Pkt. 10 cts., oz. 20 cts., 1/4lb. 40 cts., lb. \$1.25, 10 lbs. \$10.

PARSNIP

HOLLOW-CROWN

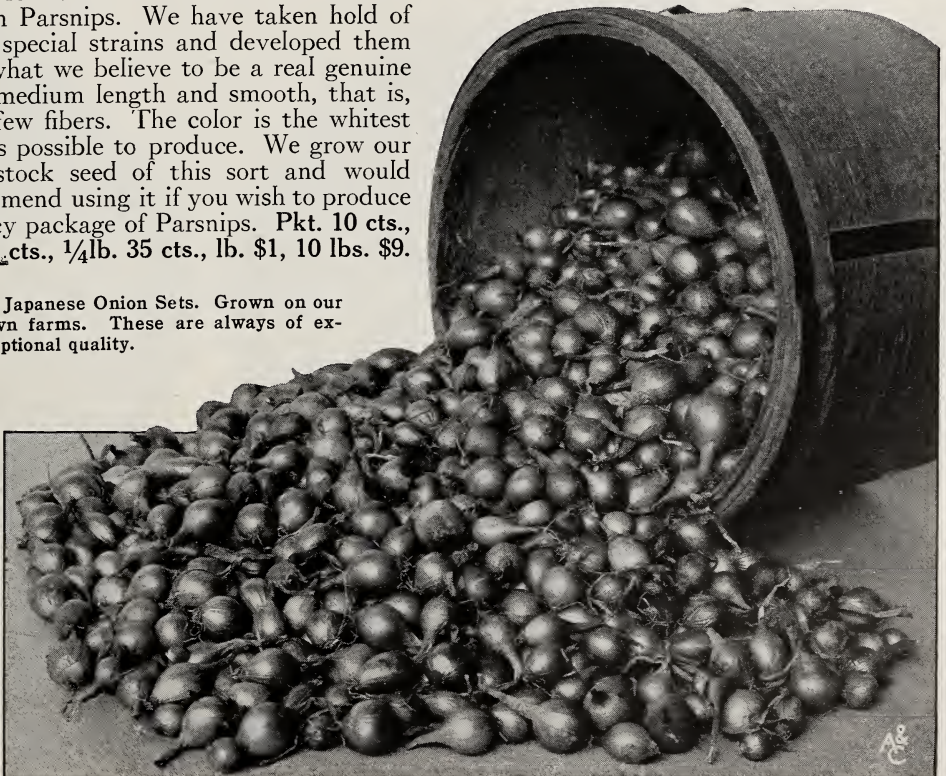
Philadelphia County has always been noted for some extra selections of Hollow-Crown Parsnips. We have taken hold of these special strains and developed them into what we believe to be a real genuine sort, medium length and smooth, that is, very few fibers. The color is the whitest that is possible to produce. We grow our own stock seed of this sort and would recommend using it if you wish to produce a fancy package of Parsnips. Pkt. 10 cts., oz. 20 cts., 1/4lb. 35 cts., lb. \$1, 10 lbs. \$9.

Japanese Onion Sets. Grown on our own farms. These are always of exceptional quality.

ONION SETS

	Pt.	Qt.	Pk.	Bus.
White Silverskin.....	\$0 20	\$0 35	\$1 50	\$5 00
Yellow Dutch.....	15	25	1 25	4 00
Japanese	20	25	1 25	4 00

Write for prices on large quantities





PURPLE-TOP WHITE GLOBE TURNIPS

See description and price on page 33



PENNYPACK VALLEY CUCUMBER

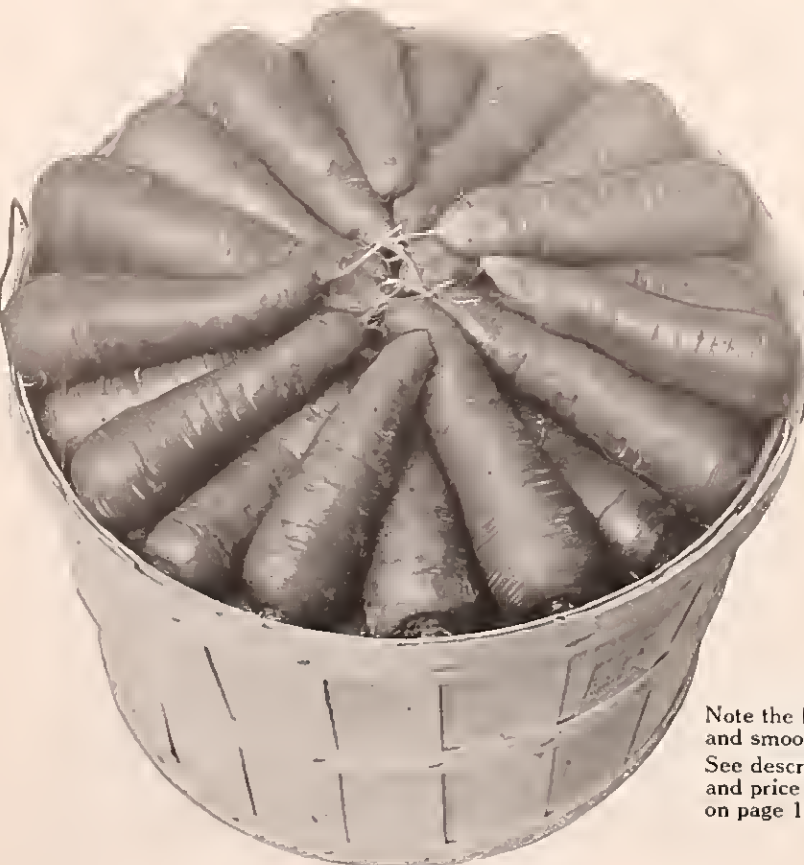


SEVERAL large receivers and growers of Cucumbers suggested, some three or four years ago, that we make a stock of Cucumber that would demand a premium on the market. Before we started the work, we interviewed some ten to twenty large receivers and some ten to twenty large growers of Cucumbers. We put all our ideas together, and the outcome is we have the fanciest stock of Cucumber on the market. Some of these growers and receivers have checked up from time to time while the stock was in the making, and were unanimous in their belief that we would produce something out of the ordinary.

The foliage of this fine strain is very robust. We believe this should be kept in mind in starting any Cucumber, and have proved that it will withstand more adverse conditions than any other type we have ever tested. It is one of the best yielders that it is possible to get, producing Cucumbers 9 to 12 inches in length, not so large in circumference as the usual run, and showing no spine. The color is a fine dark green from end to end. We have figured this is desirable either for pickling or slicing.

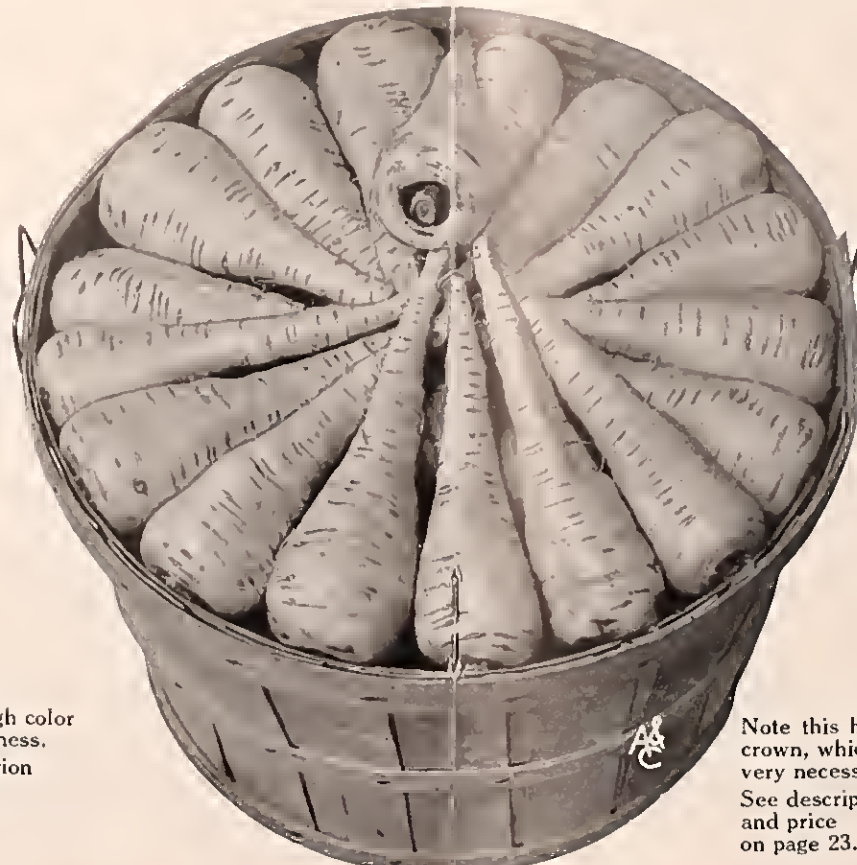
It has been suggested by several of the growers that we name this after our trial-grounds, as we did most of the work there. They thought this would be an ideal name.

Pkt. 10 cts., oz. 25 cts., 1/4lb. 80 cts., lb. \$3, 10 lbs. \$27.50



DANVERS HALF-LONG SPECIAL CARROTS

Note the high color and smoothness. See description and price on page 10.



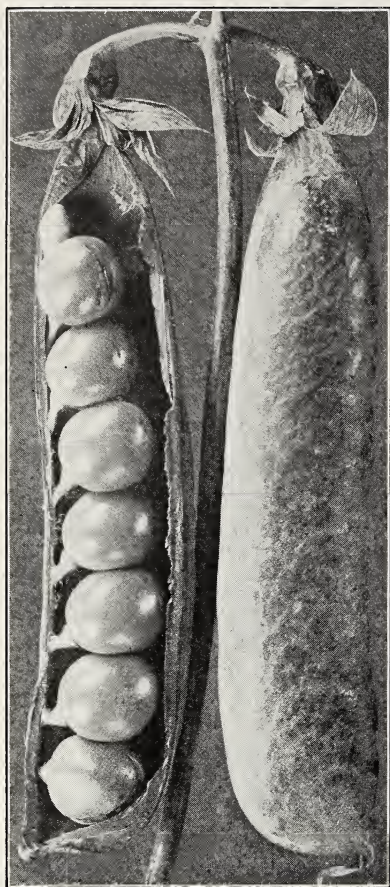
A bushel of famous PHILADELPHIA HOLLOW CROWN PARSNIPS

Note this hollow crown, which is very necessary. See description and price on page 23.



CHANTENAY CARROTS

Grown on our own trial-grounds. See description and price on page 10.



Thomas Laxton Peas

PEAS

RECORD EXTRA-EARLY. The earliest maturing vine—days ahead of all others. The 18 to 20-inch vines produce an abundance of short, but well-filled pods. Excellent for canning. Pkt. 10 cts., lb. 30 cts., 10 lbs. \$2.50, 50 lbs. \$10.

THOMAS LAXTON. Pods about 3 inches long. About one week later than our Record Extra-Early. Vines 3 feet tall, producing a heavy crop of pods, each filled with very sweet Peas. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.50, 50 lbs. \$10.

GRADUS. Of the same season, and resembling Thomas Laxton in appearance, but the 24-inch vines are not quite so dark green. The most dependable producer under all conditions and for all purposes. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.50, 50 lbs. \$10.

TELEPHONE. A second-early variety with vine about 2 feet long, producing an abundance of well-filled pods about 3 inches long. Fine for canning. Withstands hot weather better than earlier sorts. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.50, 50 lbs. \$10.

PILOT. A very fine sort. The seed can be sown outdoors just as early as the ground can be worked. It will stand as much cold weather as any round, smooth-seeded variety. Extra-large-podded sort, maturing about the same time as Thomas Laxton and Gradus. Valuable for commercial or home use and long a great favorite on the markets. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.50, 50 lbs. \$10.

GOLIATH. One of the newest varieties on the market, producing 5 to 7-inch pods (the largest known) well filled with large sweet Peas of excellent quality. Vines grow 5 to 7 feet long. Season about the same as Long Island Mammoth. It is a most desirable late-crop Pea and very popular with market-gardeners everywhere. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.50, 50 lbs. \$10.

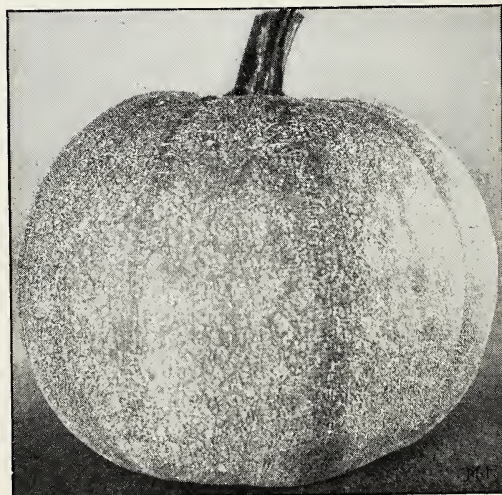
POTLATCH. A late, dwarf variety, with extra-heavy dark green vines that grow about 14 inches high, and 4-inch pods, well filled with fine, large Peas. A good variety to grow without brush. A great favorite with many gardeners. Pkt. 10 cts., lb. 40 cts., 10 lbs. \$2.50, 50 lbs. \$10.

PUMPKIN

KING OF MAMMOTHS. The largest of all. Grows to enormous size, often 2 feet in diameter, sometimes weighs 200 pounds; almost round in shape, with orange-colored skin and deep, bright yellow flesh. Very fine quality. It is the kind to grow to take prizes at the county fairs. Pkt. 10 cts., oz. 20 cts., 1/4 lb. 40 cts., lb. \$1.25.

WINTER LUXURY or PIE. Medium size, nearly round; smooth yellow skin; flesh very thick, light yellow, sweet and finely flavored. Skin golden yellow with gray netting. A fine pie variety and a good keeper. Pkt. 10 cts., oz. 20 cts., 1/4 lb. 40 cts., lb. \$1.25.

CUSHAW or CROOKNECK. A fine, solid, yellow crookneck, nearly all flesh. A good all-round Pumpkin of excellent flavor that is very popular for making pies. Pkt. 10 cts., oz. 20 cts., 1/4 lb. 40 cts., lb. \$1.25.



Winter Luxury Pumpkin



Field of Worldbeater Peppers

PEPPER

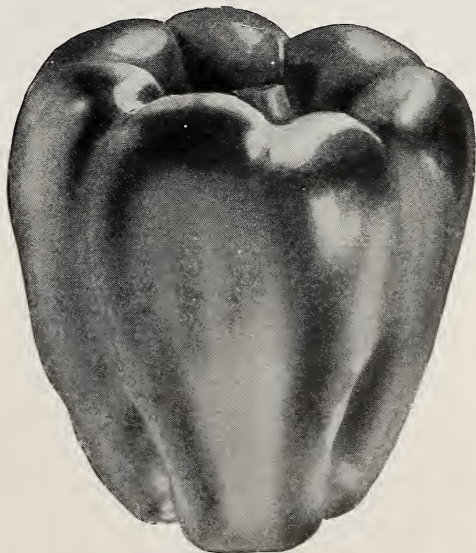
RUBY KING. Large, handsome fruits, 4 to 6 inches long, with broad shoulders and thick, mildly piquant-flavored flesh; when ripe a beautiful bright red. Largely used for pickling, and is especially good for making mangoes and salads. Market-gardeners have found it an extremely good selling Pepper. Pkt. 10 cts., oz. 40 cts., 1/4 lb. \$1.25, lb. \$4, 10 lbs. \$35.

WORLDBEATER

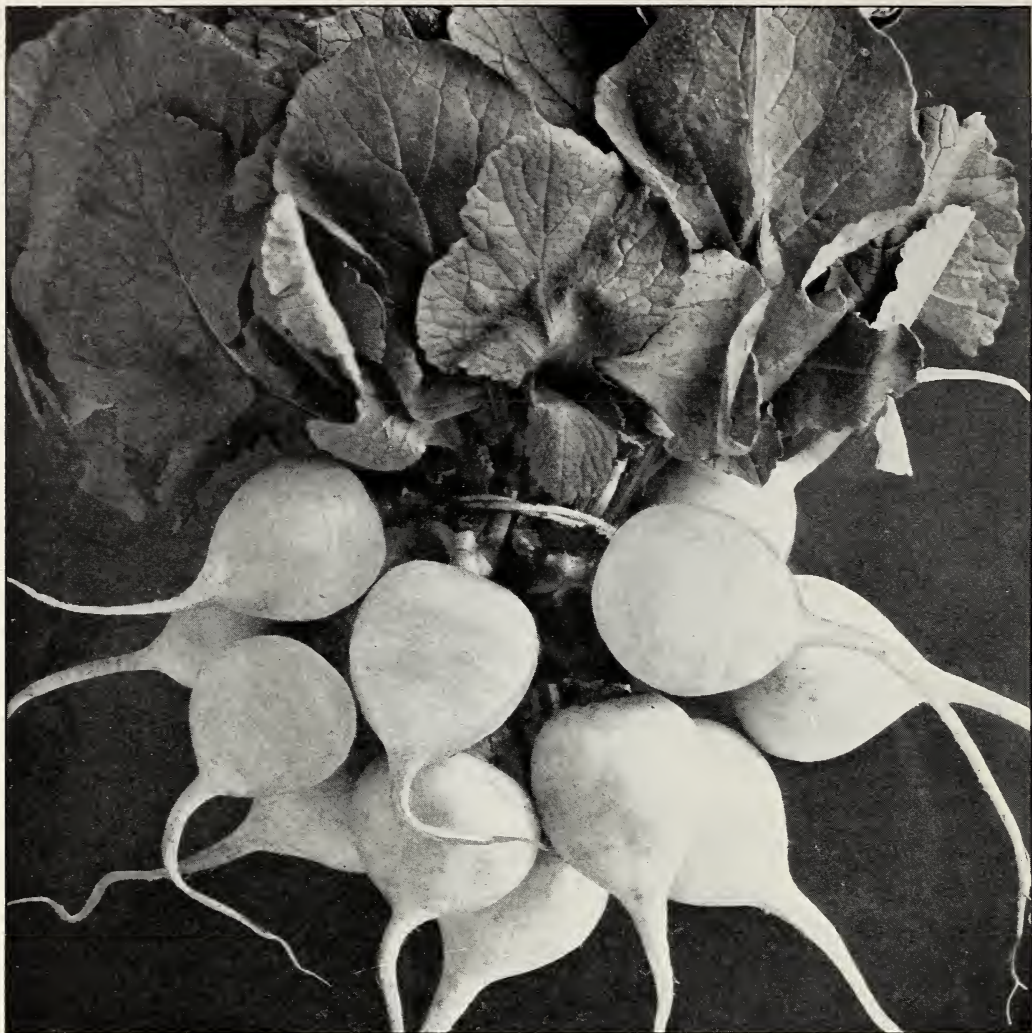
Without doubt this is the finest Pepper yet introduced. A cross between Chinese Giant and Ruby King, it is fully as early as Ruby King and similar in shape, but broader at the blossom end, and in size almost as big as Chinese Giant, but more prolific, some plants producing as many as twenty-five marketable Peppers. Bears a delightful green fruit that turns a beautiful shade of scarlet, with thick, firm flesh. A good shipper. Pkt. 10 cts., oz. 40 cts., 1/4 lb. \$1.25, lb. \$4.25, 10 lbs. \$40.

BELL or BULLNOSE. This is an old standard favorite market Pepper, valuable because it is very productive. Fruit large, with thick flesh. Usually considered a sweet Pepper but its flesh gets very hot in hot dry seasons. Pkt. 10 cts., oz. 40 cts., 1/4 lb. \$1.25, lb. \$4, 10 lbs. \$35.

LONG RED CAYENNE. Very prolific; pointed fruits 6 inches long, deep green when young. This variety is used principally for flavoring purposes because of its pungency. Pkt. 10 cts., oz. 35 cts., 1/4 lb. \$1, lb. \$3.50.



Ruby King Pepper



White Box (Special) Radishes

RADISH

Our stocks are all grown especially for us and have been most carefully selected.

WHITE BOX (Special)

Another of our special varieties. We grow our own stock of seed of this variety, so that we are sure that it is true to type; we have been selecting it for five years. It is a pure white, globe-shaped Radish, with a medium-size top; it will stand longer on the ground before running to seed than other strains of White Box. A fine variety for growing under glass. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.

WHITE ICICLE. Best long early white sort for forcing or outside sowing. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 80 cts., 10 lbs. \$7.50.

SCARLET GLOBE

Probably the most popular Radish grown for commercial or home use. It is the earliest of all, producing light red, round, crisp Radishes of mild flavor. Excellent for forcing. See cut, page 29. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.

WHITE STRASBURG. The most popular long white sort for market-gardeners. The pure white roots, 5 inches long and quite thick, remain solid for a long time after maturing. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 80 cts., 10 lbs. \$7.50.

EARLY LONG SCARLET. The best long red variety grown. Fine, long, very crisp scarlet roots and short tops. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 90 cts., 10 lbs. \$8.50.



Scarlet Globe Radishes

RADISH, WINTER VARIETIES

WHITE CHINESE or CELESTIAL. A very large, white sort, grown especially for bunching in the fall or storing in the winter. A profitable variety to grow. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

HALF-LONG BLACK SPANISH. (Our own growing.) Pure white, very hard, crisp flesh and black skin. This variety keeps fine during the winter months when stored in cellars or pits. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.

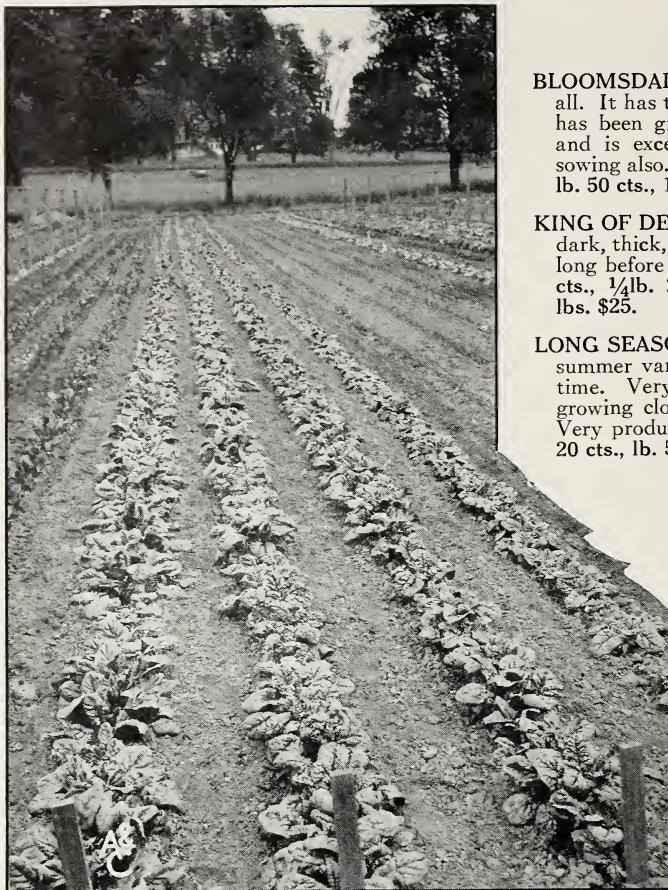
ROUND BLACK SPANISH. Similar to the Half-Long, except in shape. Roots round and black. Very hardy, robust grower. Fine for late bunching. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 90 cts.

SALSIFY

MAMMOTH SANDWICH ISLAND. This is the best variety. Roots light in color, heavy and thick. Salsify requires deeply cultivated soil and should be sown early in the spring. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 70 cts., lb. \$2.50, 10 lbs. \$24.

SORREL

LARGE-LEAVED. A fine variety for market-gardeners. Very large, light green leaves. This sort can be cut several times during the summer. Can be wintered over and it will grow again in the spring. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50, 10 lbs. \$14.



From left to right. King of Denmark, Long-standing Bloomsdale, Reselected Bloomsdale, and Long Season. Note the trueness to type of these thoroughly rouged stocks of Spinach.

SPINACH

BLOOMSDALE SAVOY. The earliest Spinach of all. It has thick, large, curled leaves. Our stock has been grown under our immediate direction and is exceptionally fine. A fine sort for fall sowing also. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts., 10 lbs. \$2.50, 100 lbs. \$22.

KING OF DENMARK. A very quick grower, with dark, thick, heavy, half-crimped leaves that stand long before running to seed. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 50 cts., 10 lbs. \$3, 100 lbs. \$25.

LONG SEASON, Extra Selected. The finest of all summer varieties. It remains marketable a long time. Very heavy, dark green, curled leaves growing closer to the ground than Bloomsdale. Very productive. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts., 10 lbs. \$3.75, 100 lbs. \$35.

GIANT THICK-LEAF. A quick-growing sort, with very large, round, and almost smooth leaves. Most popular for canning-house Spinach. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts., 10 lbs. \$3, 100 lbs. \$25.

LONG-STANDING BLOOMSDALE. This is a new variety introduced two years ago and is upright in growth. It resembles Bloomsdale Savoy but will grow to a much larger size and will stay ten days longer on the ground before running to seed. This is fast becoming the most popular variety for all seasons' use, producing more bushels per acre. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts., 10 lbs. \$3, 100 lbs. \$25.

JULIANA. Another type of Spinach that is a favorite among the commercial growers. This is a type that grows rather close to the ground, very curly or crimped, and is one of the longest standing varieties. In many cases it will stand ten days longer than Long-standing Bloomsdale. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts., 10 lbs. \$3.50, 100 lbs. \$30.

SQUASH

MAMMOTH WHITE BUSH SCALLOPED. One of the earliest, most popular Squashes, of dwarf habit, upright growth, and fine flavor. Color creamy white when matured. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25, 10 lbs. \$11.50.

BOSTON MARROW. A very fine fall and winter Squash with a thin, bright orange skin and yellow flesh; it keeps well and has no superior for pies or canning. The plants are very productive. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 10 lbs. \$9.



Boston Marrow Squash

Spinach Seed is one of our main items. We can supply you with superior strains



Livingston's
Globe
Tomatoes

A. & C. Celery Seed is used in every Celery-growing section of America. It's so good that big growers must have it.

TOMATO

BONNY BEST FORCING

The seed of Bonny Best is grown and selected for us. No one else has been allowed to do the roguing and selecting, as we are determined to put out a strain of seed that is in a class by itself. The plants were grown on ground that is adapted for Tomato-growing, and from the time when they were planted until they were harvested, they showed no signs of blight. This point is essential when growing for greenhouse purposes. Our stock has been grown by some of the largest greenhouse men, and we have had excellent reports of our efforts. Pkt. 25 cts., oz. \$3, 1/4lb. \$10, lb. \$35.

LIVINGSTON'S GLOBE

The best main-crop, purple-fruited Tomato, maturing about the same time as the Stone. The fruit is very large, exceedingly solid, of mild, pleasant, delicious flavor, having but a few seeds, is smooth, ripens close at the stem, and is of a handsome color. The vigorous, blight-resisting plants are very heavy yielders, better than most purple-fruited sorts. It is the best long-distance shipper, with very thick and firm flesh. Extra choice seed grown for us under our supervision in New Jersey. We believe this to be a finished product. Pkt. 10 cts., oz. 40 cts., 1/4lb. \$1.25, lb. \$4.

TOMATOES, continued

BONNY BEST. A fine outdoor, second-early Tomato and a remarkably productive sort. Fruits large, smooth, and round, of uniform shape and free from cracks. Used by a great many canners. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$4.

STONE. The best-known Tomato for main crop. Large, smooth, solid fruits of deep scarlet color; they are so firm they ship or haul long distances, arriving in perfect condition. Seed-cells few and small. Our strain of this variety has been carefully selected to produce heavy crops of uniform fruits. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$4.

MATCHLESS. An improvement on the Stone Tomato. It is a vigorous grower, producing abundant crops of late, handsome, bright red fruits with solid flesh of the finest quality. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$4.

GREATHER BALTIMORE. A desirable general or late-crop variety. Large, uniform, perfectly smooth, extremely firm, bright red fruits, with thick meat that ripens evenly without cracks or ridges, borne in large clusters by strong, vigorous vines. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$4.

MARGLOBE

In this we are offering a strain of Tomato that has proved to be very valuable for commercial growers. Our stock seed came originally from Dr. Fred J. Pritchard, of the Bureau of Plant Industry, U. S. Department of Agriculture. We have since been growing our own stock seed under the best conditions, using the utmost care possible to insure the correct type. It is a beautiful scarlet color, positively globe-shaped, and will produce an exceptionally heavy yield. The vines are robust in their growth and are sure to stand a lot of bad weather conditions. It is also fine for forcing.

We believe one of the most important points that one must have in mind in producing Marglobe Tomatoes is the shape. We have found, many times, various stocks that would grow entirely too flat. In selecting this particular strain, we have insisted that our stock Tomatoes be the perfect globe shape. If you could have seen the selections we made these last two or three years of this variety, you would be convinced that they were handsome both for color and shape. We have figured that our stock seed, every year, cost \$200 per pound, owing to the amount of work we put on it. Every Tomato is exactly the same size and shape, and it is very hard for one to see any difference in the Tomatoes that are laid out for stock purposes. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6, 10 lbs. \$55.



Marglobe Tomatoes

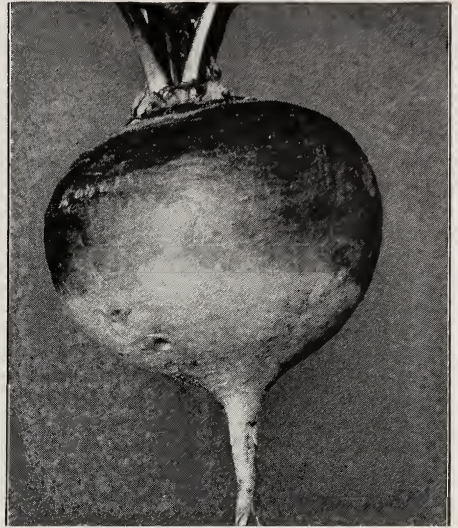
TURNIP

PURPLE-TOP WHITE GLOBE. The best sort for early sowing or winter use. The roots are a perfect globe-shape, the upper half being light purple and the lower half pure white. Fine quality; an excellent keeper. Good for table use or feeding stock. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 80 cts., 10 lbs. \$7.50.

PURPLE-TOP YELLOW GLOBE. Grows same shape and size as Purple-Top White Globe Turnip, but the skin is yellow, with a purple crown. Flesh deep yellow and of excellent quality. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25, 10 lbs. \$9.

YELLOW GLOBE (Rutabaga)

Carefully grown and selected especially for us by a Bucks County grower, it is, without doubt, the finest Rutabaga that can be obtained. It has taken the first prize at several county fairs. A globe-shaped, yellow-skinned root, with purple crown and deep yellow flesh of excellent quality. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6, 10 lbs. \$55.



Purple-Top White Globe Turnip

HERBS

THYME, BROAD-LEAF ENGLISH. Best variety known. Plant grows upright, making it easier to cut. Hardy. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

SUMMER SAVORY. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

SWEET MARJORAM. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$3.

DILL. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 80 cts.

FENNEL, FLORENCE. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.50.

FIELD SEEDS

CANADA PEAS. One of the best-known varieties for plowing under for green manure. Also excellent when cut green and cured like clover for feeding through the winter. We have secured quite a quantity of these Peas and will be glad to quote prices on large quantities. Prices subject to change. Bus. \$4.

SOJA BEANS. Bus. \$4.

VETCH, HAIRY or SAND. Lb. 25 cts., 100 lbs. \$13.

RAPE, DWARF ESSEX. Lb. 15 cts., 100 lbs. \$10.

WHEAT, HARVEST KING. Lb. 10 cts., bus. (60 lbs.) \$2.50.

TIMOTHY. Lb. 20 cts., bus. (45 lbs.) \$5.10.

MILLET, GOLDEN or GERMAN. Lb. 15 cts., bus. (50 lbs.) \$2.50.

RYE, WINTER. Lb. 10 cts., bus. (56 lbs.) \$1.75, 100 lbs. \$3.

CLOVER, Medium Red. Lb. 40 cts., bus. (60 lbs.) \$19.75.

Mammoth Red. Lb. 40 cts., bus. (60 lbs.) \$19.75.

Alsike. Lb. 35 cts., bus. (60 lbs.) \$17.

Alfalfa. Lb. 40 cts., bus. (60 lbs.) \$20.

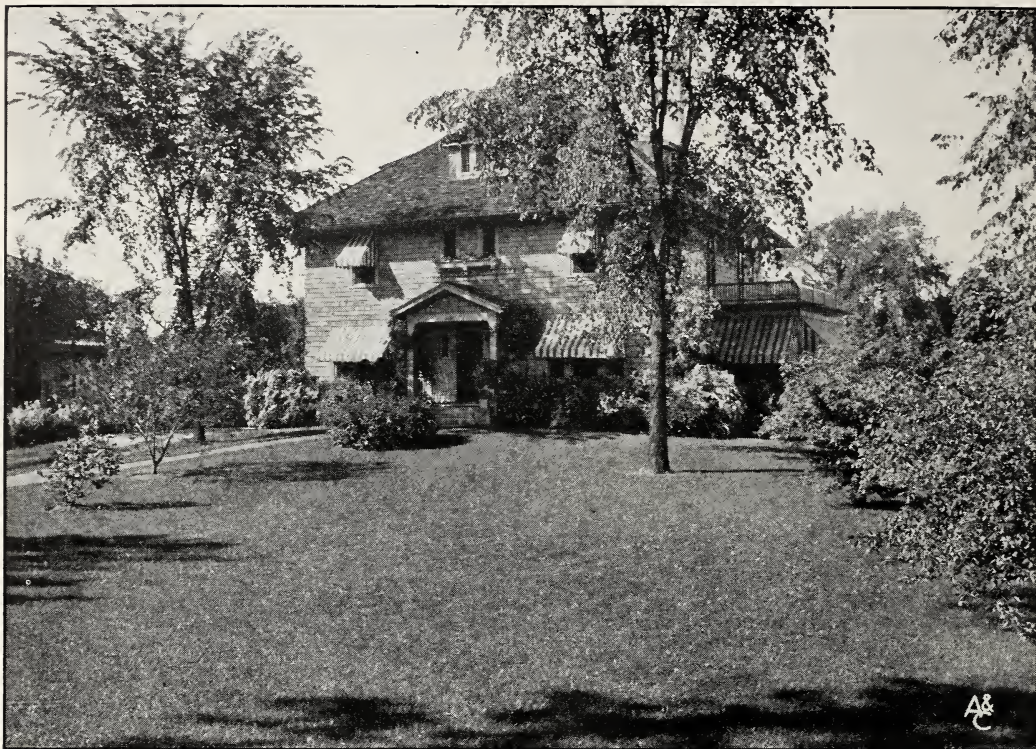
White Dutch. Lb. 80 cts., bus. (60 lbs.) \$35.

Crimson. Lb. 25 cts., bus. (60 lbs.) \$10.

As the market on all Field and Grass Seeds fluctuates, the above prices are subject to change without notice



Soja Beans



LAWN GRASSES

A beautiful lawn is the pride of every home-owner but only by careful preparation of the soil can one be made. Spade or plow it deeply, turning in an abundance of well-decayed manure; if that is not available, use a good brand of Sheep Manure instead, at the rate of 25 pounds to 1,000 square feet, or 1,000 pounds to the acre. Practically all lawn seed mixtures use Kentucky Blue Grass as a basis, and this thrives only in a sweet soil; test the soil to learn its condition. Get a sample of soil an inch or two below the surface, sufficient to fill a glass tumbler. Procure from the druggist blue and red litmus paper. Be careful in handling it; the perspiration of the hands may react on it before it is used. Fasten by a paper clip each piece of litmus paper inside the glass, opposite one another, then fill the glass with the soil, pressing it firmly against the litmus paper. If in an hour's time neither the blue or pink paper has changed color, the soil is neutral, or if the red paper turns blue it is sweet, so treatment is unnecessary; but should the blue litmus paper turn pink then the soil is sour and needs lime to correct the condition. One-half ton to the acre, or 25 pounds to 1,000 square feet will be sufficient.

Rake or harrow the lime in and let the ground stand a week or so until the lime has had a chance to react. After a week use 1,000 pounds of good commercial fertilizer or bone-meal to the acre, harrowing it in. Too much harrowing is impossible, for the better the seed-bed, the better the lawn.

Sow grass seed at the proper time. If in the spring, do the work early so that the young grass plants will become established before the weather gets warm. September-sown seed will become established before cold weather.

We have gone to much expense in compounding our grass seed mixtures, and we know that if our instructions are followed in the preparation of the ground, the seed sown evenly and only lightly covered, that a beautiful velvety lawn will be obtained. Remember that the ground is full of weed seeds, and that when A. & C. grass seed mixtures are used, if weeds are seen growing they came from seeds in the ground; they were not in our lawn mixtures.

A. & C. SPECIAL MIXTURE. For the very best results use A. & C. Special Mixture. The extra money paid will more than repay in results. Qt. 50c., 1/2pk. (2 1/2 lbs.) \$1.75, pk. (5 lbs.) \$3.25, bus. (20 lbs.) \$12.

A. & C. FANCY is a good grade of grass seed but does not have so many of the fancy sorts which go to make the highest type of lawn. You will not, however, be disappointed in its results. Qt. 35 cts., 1/2pk. (2 1/2 lbs.) \$1, pk. (5 lbs.) \$1.75, bus. (20 lbs.) \$6.50.

SHADY SPOT is a special mixture for shaded places. After having sown one of the above mixtures, sow Shady Spot under trees or other shaded places; this will insure a gradual change from one to the other. Qt. 50 cts., 1/2pk. (2 1/2 lbs.) \$1.75, pk. (5 lbs.) \$3.25, bus. (20 lbs.) \$12.



FLOWER SEEDS



Ageratum

AGERATUM

Attractive blue flowers profusely borne all summer by a compact, low-growing plant that thrives in any soil. One of the most desirable bedding plants. Annual; sow seeds in greenhouse, hotbed or in border where plants are to grow. In a bed, set the plants 1 foot apart. Fall-sown seed gives good winter-blooming plants indoors. 1 to 1½ ft. Pkt. 10 cts., ¼oz. 25 cts.

ACROCLINIUM (Everlasting)

Popular both as summer cut-flowers or dried for winter bouquets. Annuals, with pink and white flowers. To preserve them for winter bouquets, pick them just before the flowers have opened, hang in a dry, airy room until dry. The colors remain bright all winter. 2 to 2½ ft. Pkt. 10 cts., ¼oz. 20 cts.

ALYSSUM

LITTLE GEM. A free-blooming, beautiful, honey-scented, white-flowered dwarf annual, for edging beds or rock-gardens. Blooms in six weeks from seed. Keep the old faded flowers removed to perpetuate flowering. ½ft. Pkt. 10 cts., ¼oz. 20 cts., oz. 50 cts.

ANTIRRHINUM • Snapdragon

An exquisitely beautiful garden plant. Although a perennial, it blooms the first year if the seed is sown early, under glass. January or February-sown seed will bloom in July and continue to produce till frost. The flowers vary from snow-white to delicate pink, yellow, and deep crimson. 1½ to 2 ft. Pkt. 10 cts., ¼oz. 50 cts.



Alyssum, Little Gem



Queen of the Market Asters

AQUILEGIA · Columbine

ABBOTT & COBB'S LONG-SPURRED HYBRIDS. Beautiful bright-colored blooms in white, yellow, pink, scarlet, and blue, with long spurs. They prefer moist, well-drained soil in full sun or partial shade. Perennial; sow seeds in July for bloom the following May and June. 2 ft. Pkt. 10 cts., 1/4oz. \$1.

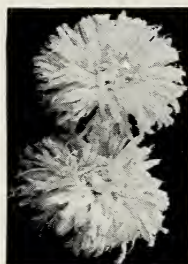


A. & C.'s Long-spurred Hybrid Aquilegias

ASTER

QUEEN OF THE MARKET. A very early class with medium-sized blooms that appear three to four weeks before the larger-flowered kinds. Branching plants, with long-stemmed blooms, much used by florists for cut-flowers. 1 1/2 ft. Mixed colors, pkt. 10 cts., 1/4oz. 40 cts., oz. \$1.25.

GIANT COMET. Long, stiff stems, bearing very double, showy flowers with long, wavy, twisted petals, like Japanese chrysanthemums. Wonderful for vases and table decorations, producing exceedingly beautiful effects. 2 ft. Mixed colors, pkt. 10c., 1/4oz. 40c., oz. \$1.25.



Giant Comet Asters

BALSAM · Impatiens

The finest strains of this delightful old plant. Large, double flowers, varying from white to dark blood-red, yellowish and spotted forms. Early May-sown seed will produce plants that bloom from July to frost. Set plants 2 feet apart to get good specimens. 2 to 2 1/2 ft. Pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

BALSAM APPLE · Momordica

Tender vines, bearing curious, warted, golden yellow, ovoid fruits, 2 to 3 inches long, which, when ripe, open, showing the seeds and their brilliant carmine interiors. Excellent for training on trellises, over rockwork, or stumps. 10 ft. Pkt. 10 cts., 1/4oz. 25 cts.

CALENDULA · Pot Marigold

A very showy, free-flowering annual that thrives in good garden loam, producing large, lemon or orange shaded, disc-like, double flowers in profusion from June to November; also thrives in pots or benches under glass and much used by florists. 1 1/2 ft. Pkt. 10 cts., oz. 50 cts.

CALLIOPSIS

Bright yellow and reddish brown, single, daisy-like flowers that thrive in almost any soil in a sunny situation. Sow the seeds where plants are to stand; thin to 8 inches apart each way. A continuous supply of bloom may be assured by keeping all faded flowers removed. A wonderfully attractive cut-flower. Pkt. 10 cts., oz. 60 cts.



Campanulas

CAMPANULA · Canterbury Bells

One of the most attractive of the old-fashioned garden flowers. Large, strong plants, covered in June with large "cup-and-saucer" shaped blooms of blue, pink, or white. Well-grown plants are 2 or more feet high and 1½ feet broad. They can be lifted when in full bloom and potted for house decoration; good cut-flower. Pkt. 10 cts., ¼oz. 50 cts.

CANDYTUFT · Iberis

One of the most indispensable of the garden annuals. Plants a foot or more high, covered with clusters of small pure white flowers that are good cut-flowers; desirable as rockery plant and as an edging for beds. Fall-sown, the plants bloom from May to July; spring-sown, they flower from July to September. Prefer good soil and a light, airy situation. For cut-flowers make successive sowings every fourteen days. Pkt. 10 cts., ¼oz. 20 cts., oz. 75 cts.

CARNATION

MARGUERITE. The earliest blooming Carnation and popular for its rich colors and delicious fragrance. Colors white, through yellow, scarlet, to deep crimson. Plants from seed sown in the open bloom from July to frost, and, if given some protection, they will winter well. For early bloom, sow seeds early indoors. Pkt. 10 cts., ¼oz. 50 cts.

CASTOR-OIL BEAN · Ricinus communis

Gives a tropical appearance when used as center of bed, or screen. When ground is warm, sow seed in rich soil; thin plants to about 1½ feet apart. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts.

CENTAUREA · Bachelor's Button

One of the commonest of the old-fashioned flowers beloved by everyone who grows it. Beautiful fringed blue or white flowers, single or double, 1 inch across, are borne from July till frost. An annual; the plants perpetuate themselves by self-sown seeds. 1 to 2 ft. Pkt. 10 cts., ¼oz. 30 cts., oz. \$1.

CHRYSANTHEMUM

Free-flowering, hardy annuals, with double white, yellow, or red flowers from August till November. It is one of the most attractive of the late summer-flowering plants; easily grown; useful for cut-flowers as well as garden decoration. They will flower earlier if seeds are started indoors. Pkt. 10 cts., ¼oz. 30 cts.

CELOSIA · Dwarf Cockscomb

One of the showiest of the annuals. Large heads of small flowers, brilliant golden yellow, crimson, or other shades of red, crowded into velvety fasciated masses that resemble a rooster's comb. Very attractive bedding plant. Sow seeds early indoors. Pkt. 10 cts., ¼oz. 50 cts.

COREOPSIS

Showy, bright yellow flowers on long, graceful stems, ideally adapted for cutting as well as garden decoration. Blooms over a long season. Seeds sown early bloom the first season, but they will be finest the second year. Pkt. 10 cts., oz. 50 cts.

COSMOS

One of the most satisfactory annuals, flowering in late summer. Big daisy-like flowers, 3 to 4 inches across, in white or pink, are borne by strong-growing but very graceful plants 3 to 6 feet high. Sow indoors, or outdoors as soon as the ground is warm; thin to 3 feet apart. For bloom indoors after frost, grow a few plants in 9- or 10-inch pots, pinching them back at frequent intervals until August 1. Unsurpassed as a cut-flower. Pkt. 10 cts., ¼oz. 40 cts.



Cosmos



Gaillardias

DELPHINIUM

Perennial Larkspurs are the finest blue flowers for the garden. Shades range from sky-blue to almost black; some varieties show yellow and pink. Mixed colors, pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

DIANTHUS · Pinks

The sweet fragrance of these delightful single or double white, pink, or crimson flowers is unforgettable. They are borne on 5-inch stems produced by a tuft-like plant with short, narrow, gray-green leaves. Use them to border beds or walks. 1 ft. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

DIGITALIS · Foxglove

Tall spires of narrow, bell-like, white, pink, rose, or speckled flowers that add grace to any garden. A biennial; sow seeds in July for flowers next June; once established they reseed themselves. Naturalize them in shrubby plantations or put them at the back of the border. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

ESCHSCHOLTZIA**California Poppy**

From June to frost a bed of these will be a constant mass of color—brilliant yellow, orange-crimson, rosy crimson, wallflower-red, and kindred shades. Sow the seeds early, in good soil in a sunny situation; sometimes it self-sows. An attractive edging for beds because of its blue-green foliage. 1 ft. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

FOUR O'CLOCK**Mirabilis jalapa**

Marvel of Peru is an old-time annual. Flowers open in late afternoon, remain open all night, and fade in the morning. Brilliant shades of red, pink, white, and yellow; bright foliage. Pkt. 10 cts., oz. 50 cts.

GAILLARDIA

ANNUAL. Brilliant red and yellow daisy-like flowers with brown centers 2 inches across. They thrive in a sunny situation in well-drained, light soil and bloom from July to frost. Sow the seed early where the plants are to grow. 1 to $1\frac{1}{2}$ ft. Pkt. 10 cts., oz. 75 cts.

PERENNIAL. One of the showiest and most effective of the hardy perennials. Seeds sown early flower in July, continuing till frost. The flowers are large—3 to 4 inches across. Brownish centers with yellow or red and yellow rays. An excellent cut-flower. 2 ft. Pkt. 10 cts., oz. 75 cts.

GOURDS

Vigorous vines for shading porches and arbors. They grow quickly from seed and produce showy yellow flowers, followed by curious fruits of many shapes and colors. Pkt. 10 cts., oz. 30 cts.

GYPSOPHILA · Baby's Breath

A free-flowering annual that thrives in any situation, even dry places, and produces misty white panicles of bloom much used in mixing with other flowers when making bouquets. Desirable for growing on waste places and in rockeries. $1\frac{1}{2}$ ft. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts.



Hollyhocks bordering the lawn



Tom Thumb or Dwarf Nasturtiums

HOLLYHOCKS

No garden is complete without at least a few plants of these stately, time-honored flowers. Tall spikes, 6 to 7 feet, with 4-inch white, pink, or red flowers that open in July, continuing until August. Seed started in a hotbed in February will bloom the same season. Plant among shrubbery, in angles of the house, fence-corners, along fences, and border beds. Keep all diseased leaves removed and remove all old stalks and leaves at the end of the season, to prevent trouble from rust. Pkt. 10 cts., 1/4oz. 30 cts.

LARKSPUR

Probably the best-known hardy annual. Large white, pink, scarlet, and blue flowers, 1 1/2 inches across, with spurs of equal length, on long stems; fine for cut-flowers. Prefer deep, rich, sandy loam in a sunny situation; deep digging is essential. For the earliest bloom, sow seeds in fall; they germinate slowly. 2 ft. Mixed colors, pkt. 10 cts., 1/4oz. 30 cts.

MARIGOLD

A profusion of large, double, yellow or orange flowers are borne continuously till frost by robust plants 2 to 2 1/2 feet tall. A most desirable bedding plant; also good for filling in the perennial and mixed borders. Mixed colors, pkt. 10 cts., 1/4oz. 20 cts.

MIGNONETTE

Reseda odorata

Sweet Mignonette is a lovely plant with rather long spikes of flowers that are deliciously fragrant. Early sown seed will give plants that bloom all summer. Pkt. 10 cts., 1/4oz. 20 cts.

MYOSOTIS • Forget-me-not

Exquisite, small, delicate blue flowers, borne in profusion from May till frost. Thrive in shaded situations in moist soil. Sow seed up to midsummer where plants are to stand; give slight mulch. Later sown seed must be wintered in a coldframe. Pkt. 10 cts., 1/4oz. 25 cts.

MORNING-GLORY

Probably the freest flowering plant and one of the most rapid-growing ones. It thrives in any situation and soil, producing a profusion of large blooms in white, pink, purple, and intermediate shades, from June till frost. Most desirable for covering fences, walls, trellises, and unsightly objects. Mixed colors, pkt. 10 cts., 1/4oz. 25 cts.

NASTURTITIUM

The most satisfactory annual. It thrives in any soil in a sunny situation, and even dry weather does not dim its glory. From July to frost the plants are covered with bloom. Our carefully made mixtures contain a well-balanced assortment of colors which range from white to deepest crimson-maroon.

TOM THUMB (DWARF) MIXTURE, pkt. 10 cts., oz. 20 cts., 1/4lb. 50 cts.

TALL or CLIMBING MIXTURE, pkt. 10 cts., oz. 20 cts., 1/4lb. 50 cts.



Myosotis



Abbott & Cobb's Pansies

PANSY

Our strain is most carefully selected, and if the plants are given a cool, moist soil, protected from harsh winds and the mid-day sun, unusually large flowers will be produced. Their color is unsurpassed in brilliancy and markings. Sow seeds in mid-summer and protect plants over winter in a cold-frame. The blooms on plants from spring-sown seed will not be as large on account of summer heat. Mixed colors, pkt. 25 cts., 1/4oz. \$1.50, oz. \$5.

PETUNIA

For window- and porch-boxes, as well as for bedding, few plants are as effective. Their large,



Single Petunias

PETUNIA, continued

trumpet-shaped, ruffled flowers vary from white to dark purple-violet and are borne in abundance from June to frost, and in window-boxes will bloom all winter. Our strain is carefully selected. Pkt. 10 cts., 1/4oz. 30 cts.

PHLOX

Showy annuals of easy cultivation, useful for beds, mixed borders, and cut-flowers. Brilliant colored flowers—white, pink to crimson—in flat clusters. Easily raised; sow seed where the plants are to grow; prefers light, well-drained soil. Mixed colors, pkt. 10 cts., 1/4oz. 30 cts.



Phlox



Border of Portulacas

PORTULACA

Beautiful little plants with red stems and cylindrical, pale green leaves that bear an abundance of richly colored flowers—yellow, orange, or scarlet. It frequently reseeds itself. Very valuable in rockeries, as edging to beds, or broadcast over sunny banks. It is the best covering for dry, sunny places, thriving on less water than most garden plants. Mixed colors, pkt. 10 cts., 1/4oz. 75 cts.

PRIMULA · Chinese Primrose

One of the most charming winter-flowering house plants; easily grown and free from insect pests. Our seed was grown for us by one of the most celebrated English Primrose specialists. The flowers are remarkable for their size, beauty, brilliancy of color, and substance of petals; colors, white, pink, red. 1/2 to 3/4 ft. Mixed colors, pkt. 10 cts., 1/4oz. \$1.



Salvia



Primula

SALVIA · Scarlet Sage

One of the best late summer and fall-flowering plants. The tall, compact bushes, with dark green foliage, are literally ablaze with brilliant scarlet blooms until hard frosts kill them. Start the seed in the house or hotbed, transplanting to the open where danger of frost is over. Pkt. 10 cts., 1/4oz. 75 cts., oz. \$2.50.

SCABIOSA

Under the name of Mourning Bride this plant was known in old-time gardens. It has been vastly improved, and the flowers are excellent for cutting. Mixed colors, white, pink, maroon, yellow, scarlet, and crimson. Pkt. 10 cts., 1/4oz. 20 cts.

SCARLET RUNNER BEANS

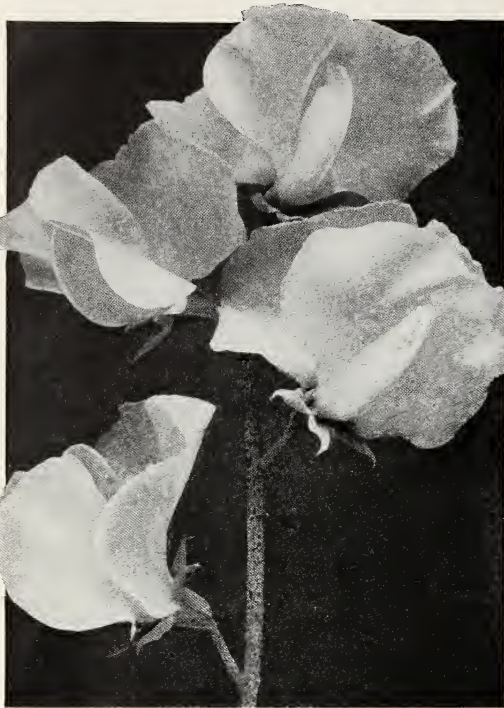
A rapid growing climber, with intense scarlet flowers followed by long pods. Desirable for trellis, porch, or fence covering. Pkt. 10 cts., lb. 35 cts.

SWEET WILLIAM

Free-flowering, showy perennial; a garden favorite for generations. Once established in good soil the plants last for years. Sow seeds in spring or early fall where plants are to grow. We have mixtures of both tall and dwarf forms. Price of either mixture, pkt. 10 cts., 1/4oz. 30 cts.



Sweet Williams



Spencer Sweet Peas



Verbenas

STOCKS

Delightfully fragrant garden flowers in long spikes of various colors, with the delicious scent of carnations. They bloom quickly from seed. Pkt. 10 cts., 1/4oz. 30 cts., oz. \$1.

SWEET PEAS

The flowers of Spencer Sweet Peas are often 2 inches across, their petals beautifully waved and crinkled, in delicate shades varying from white to pink and lavenders to deep purple; borne on long stems. They have a longer blooming season by a month than the ordinary early blooming sorts. Mixed colors, pkt. 10 cts., oz. 20 cts., 1/4lb. 60 cts., lb. \$2.

VERBENA

An old and favorite brilliant-colored bedding plant. Sweetly scented white, pink, scarlet, blue, and purple flowers in large, flat clusters are borne profusely from June till frost. Sow seeds in the house or hotbed to get early flowering plants. Pkt. 10 cts., 1/4oz. 30 cts.

WALLFLOWERS

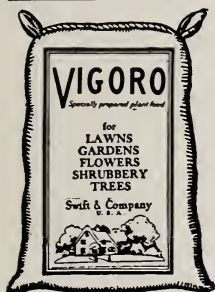
Half-hardy perennials bearing large clusters of rich yellow, red, or orange-purple, deliciously fragrant flowers. Seed sown in March or April in a warm house will flower the following winter in a cool greenhouse, or they may be kept over in coldframes for spring bloom. Mixed colors, pkt. 10 cts., 1/4oz. 30 cts.

ZINNIA

A very hardy annual blooming in late summer and fall until heavy frosts kill the plants. Large golden yellow or scarlet blooms 2 to 4 inches across that retain their beauty for weeks, are borne in great profusion. Mixed colors, pkt. 10 cts., 1/4oz. 40 cts.



Mammoth Zinnia



SUCCESS IS YOURS

WHEN YOU USE

VIGORO

Specially prepared plant food

There is no secret in having a velvety lawn, colorful flowers, crisp, succulent vegetables, luxuriant shrubbery and stately trees. You can enjoy these beauties of nature if you use good seeds, plants, bulbs and the right plant-food.

VIGORO, a plant-food specially and scientifically prepared by experts, adds BEAUTY and VIGOR to all plant-life.

Thousands of home-owners have come to rely on VIGORO as the ECONOMICAL, PRACTICAL, and EFFECTIVE way to secure finest results.

ECONOMICAL—because the cost is only 10 to 20c. for every 100 square feet.

PRACTICAL—because it is clean, odorless, easy to apply—can be sown by hand like grass seed, or applied with an ordinary kitchen colander.

EFFECTIVE—because it contains all of the elements of plant-food required to produce early, vigorous growth and bring fruit, flowers, and foliage to full development. **COMPLETE DIRECTIONS IN EVERY BAG.**

Endorsed by Leading Landscape Gardeners and Nurserymen

2-lb. pkg.	\$0.25	25-lb. bag	\$1.75
5-lb. pkg.	50	50-lb. bag	3.00
10-lb. pkg.	85	100-lb. bag	5.00

A SWIFT & CO. PRODUCT



SEED INOCULATION

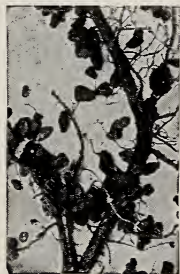
STIMUGERM

LEGUME INOCULATION

The Best Inoculation for All Legume Seeds Means Better Crops, Better Soils, Less Fertilizer Expense.

Alfalfa, Clovers, Soybeans, Cowpeas, Vetch, Peanuts—all thrive into bumper crops when properly inoculated with STIMUGERM pure-bred cultures.

Nodules with Nitrogen worth their weight in gold



WHAT STIMUGERM JELLY IS

STIMUGERM JELLY is a pure culture of nitrogen-fixing bacteria, selected for maximum vitality and ability to transform nitrogen from the air into soluble nitrates and deposit them in the soil. EVERY BOTTLE IS DATED and guaranteed for one year.

PRICES ARE LOW

Alfalfa and Clovers

SMALL SEED VARIETIES

2 1/2-bus. unit.	\$2.25
1-bus. unit.	1.00
1/2-bus. unit.60
1/4-bus. unit.35

Soybeans, Cowpeas, Vetch, Peas and Beans, Etc.

LARGE SEED VARIETIES

5-bus. unit.	\$2.25
2-bus. unit.	1.10
1-bus. unit.60
1/2-bus. unit.35

When ordering, be sure to state what crops you wish to inoculate, also number of bushels you will sow.



(Jelly Medium)

FERTILIZERS

ASHES, HARDWOOD. Apply 1,000 lbs. per acre. Indispensable for all crops requiring potash; excellent for mixing with potting soil. For top-dressing lawns and grass fields it is applied to best advantage either in very early spring or late fall. 25 lbs. \$1, 50 lbs. \$1.75, 100 lbs. \$3, 200-lb. bbl. \$5, 1,000 lbs. \$22.50, ton \$40.

BONE-MEAL. Apply 800 to 1,000 pounds per acre. Made from pure raw bone, without any addition of materials. The ideal bone for rosebeds and greenhouse use. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1, 50 lbs. \$2, 100 lbs. \$3.75, 200 lbs. \$7, 1,000 lbs. \$30, ton \$60.

HUMUS (Alphano). An excellent article to incorporate with poor soil in the garden or greenhouse, especially desirable for mixing with potting soil. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1, 100 lbs. \$2.25, 500 lbs. \$10, 1,000 lbs. \$18, ton \$35.

LIME. For lawn or field use. Very finely pulverized. Corrects acid soils, also breaks up clay soils. Hydrated, 10 lbs. 30 cts., 100 lbs. \$1.75.

NITRATE OF SODA. Apply 100 to 150 pounds per acre, mixing with land plaster or other fertilizers to render application more easy. Use only after plants are above ground. If used in liquid form, dilute 2 ounces to 1 gallon of water and do not apply oftener than twice a week. 5 lbs. 40 cts., 10 lbs. 75 cts., 25 lbs. \$1.35, 50 lbs. \$2.50, 100 lbs. \$4.50, 200 lbs. \$8.50, 1,000 lbs. \$37.50, ton \$72.50.

PEAT MOSS (Torf Mull). Imported, Granulated. A moisture-retaining humus and an aid for saving soil-fertility. It furnishes the needed organic matter which all soils require. For lawns, cover lightly in the spring with Peat Moss and occasionally during the summer, with a heavy covering in the autumn. For roses, dig deeply and incorporate with the soil Peat Moss to the depth of 6 inches, before spading.

For the flower-garden, spread evenly from 3 to 6 inches deep a covering of Peat Moss, mixing well with the soil. For window- or porch-boxes, mix a good proportion of Peat Moss with some rich compost or soil. For the greenhouse, mix Peat Moss with the potting soil. Small bale \$1.50; large bale \$4.

PHOSPHATE, HIGH GRADE. For all vegetable crops, grains, grass, etc. Apply 800 to 1,000 pounds per acre broadcast. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1, 50 lbs. \$1.75, 100 lbs. \$3, 200 lbs. \$5.25, 1/2 ton \$20, ton \$40.

PLANTABBS. An odorless plant-food in tablet form, for all plants in the house or garden. They dissolve in water almost instantly and make a wonderful liquid fertilizer. Pkg. of 30 tablets 25 cts., 75 tablets 50 cts., 200 tablets \$1 (by Parcel Post, \$1.10), 1,000 tablets \$3.50 (by Parcel Post, \$3.65).

SHEEP MANURE. Apply 1,000 pounds per acre. For garden, lawn or greenhouse use, nothing surpasses Sheep Manure; it is clean and easily handled, besides giving immediate results. Prices, f.o.b. Philadelphia. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1, 50 lbs. \$1.75, 100 lbs. \$3.25, 500 lbs. \$15, 1,000 lbs. \$27.50, ton \$50.

SULPHATE OF AMMONIA. Apply 75 to 100 pounds per acre only with other fertilizers deficient in nitrogen. A valuable fertilizer for all plants in which a large leaf development or rapid growth is desired; will stimulate growth almost immediately. Also used for top dressing lawns, producing a thick, velvety growth and discouraging the weeds. Analysis equal to 25 per cent of ammonia. 5 lbs. 75 cts., 10 lbs. \$1.25, 25 lbs. \$1.75, 50 lbs. \$3, 100 lbs. \$5, 200 lbs. \$9.

TOBACCO STEMS. For fumigating, mulching, and fertilizing. Bus. 60 cts., bbl. sack \$1.25; in large bales at 2 cts. per lb., 1/2 ton \$15, ton \$27.50.



SEMESAN

To destroy fungous growth or spores of bacterial blights, rots, or rusts, all seeds should be dusted with or soaked in a solution of it before planting. This wonderful new product prevents damping off and many of the ills which young seedlings are heir to, besides stimulating them to vigorous growth. It is extremely concentrated and therefore economical to use.

Prices for Semesan

2 ozs.....	\$0 50	5 lbs.....	\$13 00
1/2 lb.....	1 60	25 lbs.....	62 50
1 lb.....	2 75	50 lbs.....	122 50

INSECTICIDES AND FUNGICIDES

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

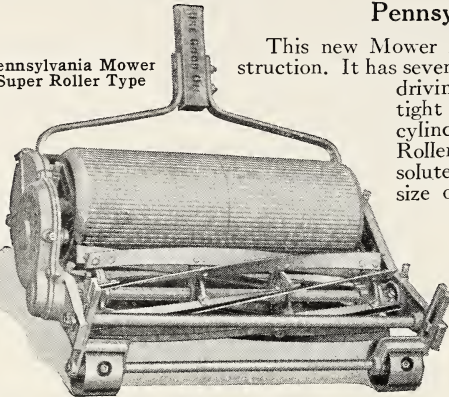
Only those Insecticides marked (*) can be mailed. Postage extra

- ARSENATE OF LEAD** (Dry Powder Form). The more popular form, owing to its economical ways of being applied (can be used either as dusting powder or diluted in water). 1 to 2 lbs. per acre. Diluted in water, 1 lb. to 50 gals. $\frac{1}{2}$ lb. 25 cts., lb. 45 cts., 4 lbs. \$1.40, 10 lbs. \$3.25, 25 lbs. \$8.
- BLACK-LEAF 40**. A concentrated nicotine spray for all sucking insects. Oz. 35 cts., $\frac{1}{2}$ lb. \$1.25, 2 lbs. \$3.50, 10 lbs. \$11.85.
- BORDEAUX MIXTURE** (Powdered). Used same as Bordeaux Mixture Paste or Liquid. Also used for dry dusting. Dilutes 1 lb. to 8 gallons of water. $\frac{1}{2}$ lb. 25 cts., lb. 40 cts., 5 lbs. \$1.75, 10 lbs. \$3.
- COATED ARSENATE OF LEAD**. For use against Japanese beetles on fruit or shade trees; only one spraying is necessary. Use 5 lbs. to 50 gals. water before beetles become established. Lb. 60 cts., $2\frac{1}{2}$ -lb. jar \$1.25, 10 lbs. \$3.50.
- HELLEBORE, POWDERED WHITE**. Less poisonous than Paris Green and safer to use where fruit is nearly ripe. $\frac{1}{2}$ lb. 35 cts., lb. 60 cts.
- EVER GREEN INSECTICIDE**. A non-poisonous insecticide, recommended for killing a wide variety of insects on plants and flowers. Oz. 35 cts., 6 ozs. \$1, 16 ozs. \$2, qt. \$3.50, gal. \$13, 5 gals. \$50.
- *LEMON OIL INSECTICIDE**. The best and cheapest insecticide on the market. Used by nearly all the leading growers. It effectually destroys mealy bug, scale, thrip and red spider. $\frac{1}{2}$ pt. 35 cts., pt. 60 cts., qt. \$1, $\frac{1}{2}$ gal. \$1.75, gal. \$3, 5-gal. keg \$12.
- MELROSINE**. The only remedy endorsed by leading authorities. The general contact insecticide that kills rose-bugs and other insects. Used with any good spray pump, diluted with from 20 to 25 parts of water. Pleasant and harmless to use. Guaranteed effective when used according to directions on can. Gal. \$6, $\frac{1}{2}$ gal. \$3.25, qt. \$1.75, pt. \$1, trial size 50 cts. By mail or express at customer's expense. Or Trial Size, sufficient to make one gallon when diluted and care for several plants for the season, post-paid for 60 cts.
- LIME-SULFUR SOLUTION**. For all scale insects on trees and shrubs; also of benefit for such fungous bark diseases as can be treated in winter. Must be diluted and applied with a spray pump while the trees are dormant, after the leaves have fallen in fall and before the buds swell in spring. It can be used quite strong during mid-winter. One gallon to 10 gallons of water. Qt. 45 cts., $\frac{1}{2}$ gal. 75 cts., gal. \$1.15.
- LIME-SULFUR** (Dry Powdered). The most efficient form of this highly celebrated spraying compound. Dissolves instantly in cold or hot water. Use at rate of 10 pounds to 50 gallons of water. Lb. 35 cts., 5 lbs. \$1.40, 10 lbs. \$2.50, 25 lbs. \$4.50, 50 lbs. \$8, 100 lbs. \$14.
- NICOFUME PAPER**. For fumigating greenhouses, conservatories, etc. Per box of 24 sheets, \$1.50, 144 sheets \$5.25, 288 sheets \$9.25.
- NICOFUME TOBACCO POWDER** (*Fumigator*). A $12\frac{1}{2}$ per cent nicotine fumigator for greenhouse use; burns efficiently and dispenses dense fumes of nicotine; complete with directions in each can. Lb. tin \$1.15, 5 lbs. \$4.25, 10 lbs. \$7.35.
- PYROX**. A general spray for all eating insects and fungous troubles. One pound makes 5 gallons of spray material. Lb. 50 cts., 5 lbs. \$2, 10 lbs. \$3.50, 25 lbs. \$7.
- PARIS GREEN**. Applied as a powder it should be mixed with plaster or flour, 100 parts to 1 part of Paris Green; in solution, mix 1 pound to 100 gallons of water. $\frac{1}{2}$ -lb. pkg. 30 cts., lb. pkg. 55 cts., 5 lbs. \$2.50, 14 lbs. \$5.
- P. T. B. PARA-DICHLOROBENZENE**. A successful remedy for peach tree borers. Directions with each package. Lb. can 65 cts., 5 lbs. \$2.50, 10-lb. can \$4.
- *SCALECIDE**. Used for the destruction of the San José Scale. Dilute at the rate of 1 gallon Scalecide to 20 gallons water. Scalecide does not clog nozzles, hose, or pump, and is pleasant to use. Spray during the winter or early spring when the trees are dormant. Qt. 75 cts., gal. \$1.75, 5 gals. \$6.25, 10 gals. \$10.75, 30 gals. \$26, 50 gals. \$38.
- *SLUG SHOT**. One of the old and well-known remedies for destroying slugs, currant worms, cabbage worms and all of the soft-shelled insects which trouble vegetation. Lb. shaker box 20 cts. (mail weight, 2 lbs.), 5 lbs. 60 cts. (mail weight, 6 lbs.), 10 lbs. \$1.10.
- *SUNOCO SPRAY OIL**. For the control of scale insects, red spider, aphid, thrip, etc. Cheap, effective, and pleasant to handle. Gal. \$1.50, 5 gals. \$5.75, 15 gals. \$12, 30 gals. \$20, 50 gals. \$26.
- *TOBACCO DUST, FINE**. For green and black aphid, flea-beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. 5 lbs. 30 cts., 10 lbs. 50 cts., 25-lb. bag \$1, 50-lb. bag \$1.80, 100-lb. bag \$3.50.
- *TREE TANGLEFOOT**. An absolute safeguard against all creeping insects on trees. Apply with paddle, making a band around the tree 3 inches wide. Lb. can (mail weight, 2 lbs.) 60 cts., 5-lb. can (mail weight, 6 lbs.) \$2.75.
- *FISH-OIL SOAP (WHALE-OIL SOAP)**. An excellent wash for trees and plants where insects and eggs affect the bark. Lb. 25 cts.
- WEED KILLER**. The method of killing weeds thoroughly by application of this liquid has become general. Used only on paths, drives, gutters, and places where no growth is wanted. One gallon makes 40 gallons of treating liquid. Qt. 50 cts., gal. \$1.75.

LAWN MOWERS AND SUPPLIES

Pennsylvania Mower, Super Roller Type

Pennsylvania Mower
Super Roller Type

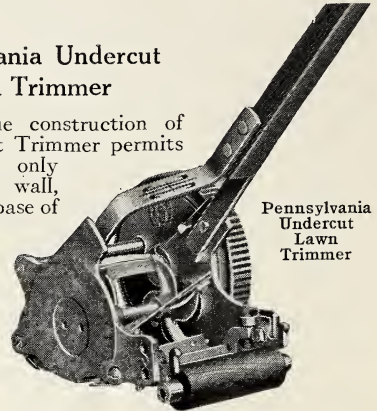


This new Mower for golf greens is the last word in Lawn-Mower construction. It has seven crucible steel blades in a high-speed cylinder, aluminum driving-drums, and train of cut gears running in a grease-tight case. Intermediate gear on roller bearing; drums, cylinder, and front caster wheels on ball bearings. The Super Roller Mower is light running, easy to push, and cuts absolutely without ridging the greens. Weight only 55 lbs. One size only. 18-inch cut, \$50. Grass-Box, \$8. Carriage, \$5.

fence, tree, etc., but it will get the grass under a fence or rock, cut at base of tombstones, house-foundations, and other places hitherto out of reach of anything but hand-shears. The slanting side-plate and conical cylinder make it possible to cut all grass which the regular Lawn Mower will not reach. Ball bearing, with 9 1/2-inch drive-wheel; 4-blade cylinder. \$12.

Pennsylvania Undercut Lawn Trimmer

The unique construction of the Undercut Trimmer permits cutting not only close to a wall,

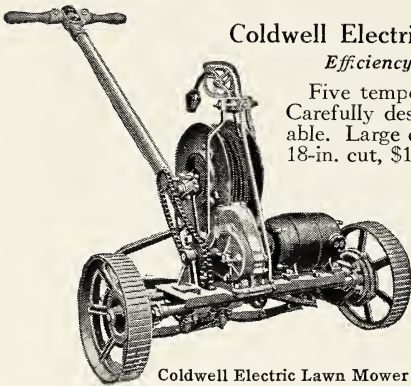


Pennsylvania Undercut Lawn Trimmer

Coldwell Electric Lawn Mower

Efficiency, Simplicity and Power

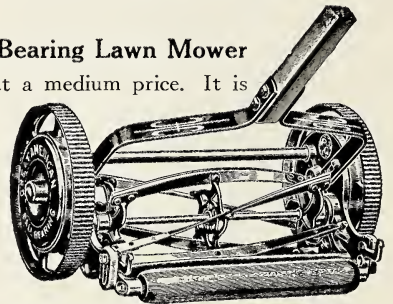
Five tempered crucible steel blades. Carefully designed and constructed. Entirely practical and thoroughly dependable. Large capacity for fine work. Inexpensive to operate. Moderately priced. 18-in. cut, \$150; 21-in. cut, \$165.



Coldwell Electric Lawn Mower

Great American Ball-Bearing Lawn Mower

A high-class machine at a medium price. It is regarded as the best all-round Mower of its type. The perfectly fitting ball cups and cones insure an easy running machine.



Great American Ball-Bearing Lawn Mower

10-in. wheels, 5-blade cylinder, 6-in. diameter

15-in. cut.....	\$19 50	19-in. cut.....	\$25 00
17-in. cut.....	22 50	21-in. cut.....	28 00

Pennsylvania Jr. Ball-Bearing Mower

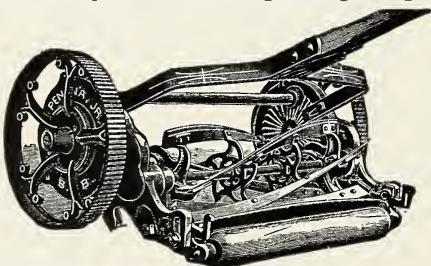
To get the best results from this machine, which does exceptionally fine work, the lawn should be mowed at regular intervals. It cuts the grass shorter than the 4-bladed machine, hence requires mowing at stated periods when the grass is growing rapidly.

8-in. or low wheel, 5-blade cylinder, 5 1/2-in. diameter

12-in.....	\$17 00
14-in.....	20 00
16-in.....	23 00
18-in.....	26 00

10-in. or high wheel, 5-blade cylinder, 6-in. diameter

15-in.....	\$27 00
17-in.....	30 50
19-in.....	34 50
21-in.....	38 50



Pennsylvania Jr. Ball-Bearing Mower

We can also supply the Pennsylvania Standard in same sizes and prices as above.

PLANET JR. TOOLS

72-page Planet Jr. Catalogue free. Describes 70 tools, includes Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.

Planet Jr. Tools save time, lighten labor, and get bigger, better crops at less cost. Designed by a practical farmer and manufacturer with over forty years' experience. Last a lifetime. Fully guaranteed.

No. 3 Planet Jr. Hill and Drill Seeder

Holds 3 quarts of seed. A favorite among onion-growers, market-gardeners, and seedsmen.

Price, \$17.50



Sows accurately in large or small quantities in drills in a narrow line, making wheel-hoe cultivation easy, or in hills, 4, 6, 8, 12, or 24 inches apart. Force feed.

The flow of seed is instantly started or stopped by the cut-off rod. No seed wasted at end of rows.

No. 17 Planet Jr. Single Wheel Hoe

Steel frame and wheel
Price, \$7.75

The highest type of Single Wheel Hoe made. Light, but strong, and can be used by man, woman, or boy. Will do all the cultivation in your garden and in the best, easiest, quickest way.



No. 119 Garden Plow and Cultivator

Price, \$4.75



A new tool for those who prefer the extra-high wheel on their garden Cultivator. The wheel is 24 inches high, and has a 1 1/2-inch rim; has a complete set of cultivating tools—plow, narrow and wide cultivator teeth, three-prong tooth, and scuffle hoe for weed cutting. Handles have plow-handle grips. A well-made, substantial tool at an attractive price.

No. 12 Planet Jr. Double Wheel Hoe Cultivator and Plow

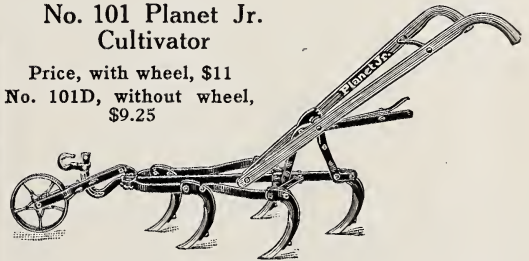
Price, \$10.75



A Single and Double Wheel Hoe in one. Straddles crops till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world.

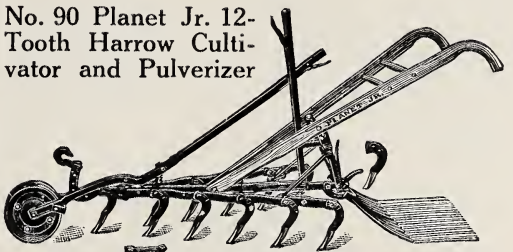
No. 101 Planet Jr. Cultivator

Price, with wheel, \$11
No. 101D, without wheel, \$9.25



A new and improved Cultivator sold at a low price. Stop in and see it. It will please you.

No. 90 Planet Jr. 12-Tooth Harrow Cultivator and Pulverizer



Complete with steel wheel, \$17
No. 90B (without pulverizer), \$13.75

This tool has become a special favorite with strawberry, tobacco, and sugar-beet growers, market-gardeners, truckers, and farmers, because of its 12 chisel-shaped teeth. The teeth and pulverizer leave the ground in fine condition. Depth can be regulated instantly. Cultivates any width from 12 to 32 inches. Handles adjust up, down, and sidewise, saving hands and clothes.

Planet Jr. Seed Attachment No. 35

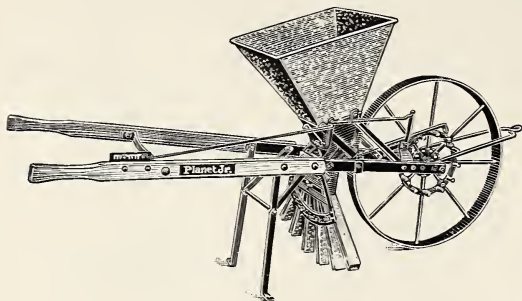
For hotbed or greenhouse work. Can also be attached to the No. 119 Wheel Hoe or all Single and Double Wheel Hoes. Without Handle, \$6.50. With Handle \$7.

Planet Jr. Edger No. 2

The Planet Jr. Grass Edger assists wonderfully in producing an attractive walk. \$1.60 (mailing weight 4 lbs.) Postage extra.



MISCELLANEOUS SUPPLIES



No. 220 Planet Jr. Fertilizer Distributor

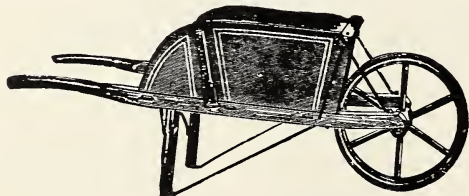
A thoroughly practical, well-built implement for distributing fertilizer evenly and thoroughly. It will handle 100 to 2,000 pounds per acre and can be adjusted to fertilize rows as close as 9 inches or as far apart as 4 feet. The economy in material and the saving in labor makes Planet Jr. No. 220 Fertilizer Distributor a profitable investment for every market-gardener or farmer. Price \$27.



Broadcast Seed Sower

For accurately sowing timothy, clovers, millets and heavy seeds of grass and other farm crops. Can be regulated to sow any required quantity per acre.

	Each
Cahoon.....	\$5 00
Cyclone.....	2 25



Farm and Garden Wheelbarrows

One of the most useful articles on the list of garden and lawn tools. Materials are selected oak mortised and bolted together, strengthened with six iron braces, made substantial, light and for long service. Wheels are 3-inch tread.

No.	Tire in.	Length in.	Depth in.	Width in.	Price
1	2 3/4	30	12	25	\$9 25
2	2 3/4	28	12	24	8 00
3	2 3/4	26	12	22	7 75
4	1 3/4	22	9	18	5 50

The Auto Spray

A Self-Operating Automatic Sprayer

This machine is one of the strongest and most simple in its parts. The pump is locked by means of sliding cam, which prevents wear, gives long service, and renders all parts instantly accessible. Reservoir holds 4 gallons, but should not be over two-thirds full of solution when ready for spraying. About two pumpings will empty the tank, and the operator has only to direct the spray. It can be used in the garden for small trees and shrubs, spraying weeds, spraying cattle, or whitewashing.



Cylinders are made of both galvanized iron and brass, with locked seams. It can be carried in the hand or used as a knapsack sprayer.

Equipment

No. 1A. Brass tank with Stop Cock.....	\$9 00
No. 1B. Brass Tank with Auto Spray.....	9 50
No. 1C. Galvanized Tank with Stop Cock....	6 00
No. 1D. Galvanized Tank with Auto Spray...	6 50

Postage extra. Mailing weight, 10 lbs.

Extension Pipes. 2-foot lengths for spraying tall shrubs and trees; solid brass..... 50

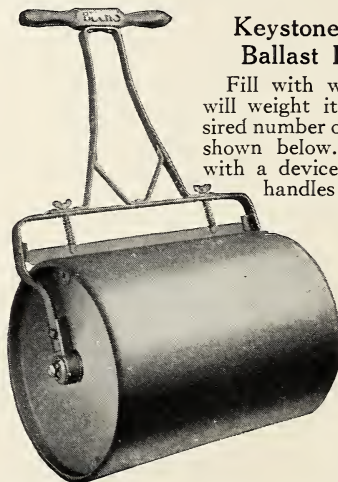
Brass Strainer. For straining lumpy liquid... 1 20

Brass Auto-Pop Nozzle. Shown in cut, part of No. 1B equipment. When sold separately. 1 50

Auto-Pop. With hose and fittings..... 2 00

Keystone Water Ballast Rollers

Fill with water, which will weight it to any desired number of pounds, as shown below. Equipped with a device for keeping handles stationary.



No.	Sec-tions	Diam. in.	Lgth. in.	Wt. empty	Wt. filled	Price
601	1	14	24	60	250	\$17 00
602	1	18	24	85	330	20 00
603	1	24	24	100	440	23 00
604	1	24	32	135	590	26 00

INDEX

	PAGE		PAGE
Acroclinium.....	35	Extension Pipes.....	48
Ageratum.....	35	Fennel, Florence.....	33
Alphano.....	44	Fertilizer Distributor.....	48
Alyssum.....	35	Fertilizers.....	43, 44
Antirrhinum.....	35	Field Seeds.....	33
Aquilegia.....	36	Fish-oil Soap.....	45
Arsenate of Lead.....	45	Flower Seeds.....	35-42
Ashes, Hardwood.....	44	Forget-me-not.....	39
Asparagus.....	3	Four o'Clock.....	38
Asparagus Roots.....	3	Foxglove.....	38
Aster.....	36	Gaillardia.....	38
Auto-Pop Nozzle.....	48	Gourds.....	38
Auto Spray.....	48	Grasses, Lawn.....	34
Baby's Breath.....	38	Gypsophila.....	38
Bachelor's Button.....	37	Harrow.....	47
Balsam.....	36	Hellebore.....	45
Balsam Apple.....	36	Herbs.....	33
Beans.....	3, 4	Hollyhocks.....	39
Beans, Scarlet Runner.....	41	Horseradish Roots.....	39
Beans, Soja.....	33	Humus.....	17
Beet, Mangel.....	7	Iberis.....	37
Beets.....	5-7	Impatiens.....	36
Black Leaf 40.....	45	Insecticides and Fungicides.....	45
Bone-meal.....	44	Kale.....	17
Bordeaux Mixture.....	45	Kohlrabi.....	17
Broccoli.....	8	Larkspur.....	39
Cabbage.....	9	Lawn Mowers and Supplies.....	46
Cabbage, Chinese.....	9	Leek.....	17
Calendula.....	36	Lemon Oil Insecticide.....	45
Calliopsis.....	37	Lettuce.....	18-20
Campanula.....	37	Lime.....	44
Candytuft.....	37	Lime-Sulfur (Dry).....	45
Canterbury Bells.....	37	Lime-Sulfur Solution.....	45
Carnation.....	37	Manure, Sheep.....	44
Carrots.....	10	Marigold.....	39
Castor-oil Bean.....	37	Marigold, Pot.....	36
Cauliflower.....	8	Melrosine.....	45
Celery.....	2, 13, 14	Mignonette.....	39
Celosia.....	37	Millet.....	33
Centaurea.....	37	Mirabilis.....	38
Chard, Swiss.....	10	Miscellaneous Supplies.....	48
Chrysanthemum.....	37	Momordica.....	36
Clover.....	33	Morning-Glory.....	39
Cockscomb, Dwarf.....	37	Moss, Peat.....	44
Columbine.....	36	Muskmelon.....	21
Coreopsis.....	37	Myosotis.....	39
Corn, Field.....	14	Nasturtium.....	39
Corn Salad.....	14	Nicofume Paper.....	45
Corn, Sweet.....	15	Nicofume Tobacco Powder.....	45
Cosmos.....	37	Nitrate of Soda.....	44
Cucumber.....	16, 24, 25	Onions.....	22, 23
Cultivator.....	47	Onion Sets.....	23
Dandelion.....	17	Pansy.....	40
Delphinium.....	38	Paris Green.....	45
Dianthus.....	38	Parsley.....	23
Digitalis.....	38	Parsnip.....	23
Dill.....	33	Peas.....	26
Edger.....	47	Peas, Canada.....	33
Eggplant.....	17	Peat Moss.....	44
Endive.....	16	Pepper.....	27
Eschscholtzia.....	38	Petunia.....	40
Ever Green Insecticide.....	45	Phlox.....	40
Everlasting.....	35	Phosphate.....	44
		Pinks.....	38
		Planet Jr. Tools.....	47
		Plantabbs.....	44
		Poppy, California.....	38
		Portulaca.....	41
		Primrose.....	41
		Primula.....	41
		P. T. B. Para-Dichloroben- zene.....	45
		Pulverizer.....	47
		Pumpkin.....	26
		Pyrox.....	45
		Radish.....	28, 29
		Rape, Dwarf Essex.....	33
		Reseda.....	39
		Ricinus.....	37
		Romaine.....	20
		Rutabaga.....	33
		Rye.....	33
		Sage, Scarlet.....	41
		Salsify.....	29
		Salvia.....	41
		Savory, Summer.....	33
		Scabiosa.....	41
		Scalecide.....	45
		Seed Attachments.....	47
		Seeder.....	47
		Seed Sower.....	48
		Semesan.....	44
		Sheep Manure.....	44
		Slug Shot.....	45
		Snapdragon.....	35
		Sorrel.....	29
		Spinach.....	30
		Squash.....	30
		Stimugerm.....	43
		Stocks.....	42
		Strainer, Brass.....	48
		Sulphate of Ammonia.....	44
		Sunoco Spray Oil.....	45
		Sweet Marjoram.....	33
		Sweet Peas.....	42
		Sweet William.....	41
		Thyme.....	33
		Timothy.....	33
		Tobacco Dust, Fine.....	45
		Tobacco Stems.....	44
		Tomato.....	31, 32
		Torf Mull.....	44
		Tree Tanglefoot.....	45
		Turnip.....	33
		Vegetable Seeds.....	2-33
		Verbena.....	42
		Vetch, Hairy.....	33
		Vigoro.....	43
		Wallflowers.....	42
		Water Ballast Rollers.....	48
		Watermelon.....	22
		Weed Killer.....	45
		Whale-oil Soap.....	45
		Wheat.....	33
		Wheelbarrows.....	48
		Wheel Hoe.....	47
		Zinnia.....	42

ABBOTT & COBB

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