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Livingston's

SEED ANNUAL
FOR 1917

ESTABLISHED 1850

FAMOUS
FOR
TOMATOES

8/2/17				



LIVINGSTON'S
MANYFOLD
TOMATO
Pkt. 50¢ Half Size Pkt. 30¢

THE
LIVINGSTON SEED CO.,
114 NORTH HIGH ST. COLUMBUS, OHIO



SOME OF THE PRODUCTS OF

\$1
POSTPAID

Our Great One Dollar Collection
OF
"True Blue" Vegetable Seeds

\$1
POSTPAID

EVERY sort included represents the best of its class and many high-priced novelties of real merit make this collection doubly worth while. The demand for this collection started years ago when we would get orders from people for a dollar's worth of vegetable seeds—the best we could do. Many are not familiar with the merits of the different sorts offered in this Catalog and for those we get up this collection the best we know how.

From year to year we change it. Obsolete sorts are dropped, new varieties of better character added, and we firmly believe that a better collection than ours cannot be bought at as low a price anywhere in this country.

At the same time its price is the only cheap thing about it. Full-sized packets, such as we supply to the most critical trade on regular orders, go into the collection. Six of the sorts named below retail for 10 cents each. The remaining 26 packets you buy for 40 cents in this collection. For good measure we throw in an ounce of Nasturtiums or

an ounce of Livingston's Fine Mixed Sweet Peas, and the whole comes to you by mail delivered free at your door.

The reason why we sell this collection at such a low price is two-fold: We can put up the boxes before the Spring rush starts, get thousands of them ready so that, when the order comes, all that needs be done is to wrap the box, affix postage stamps and out it goes—always the same day we get the order. This popular priced collection also gives new customers an opportunity to try a large assortment of "true blue" seeds at a moderate cost. Our margin of profit on this collection is small, yet we consider each collection sold a good investment which, in time, will bring us increased business.

Please do not ask us for any discount in connection with an order for our Dollar Collection and any special offers in this Catalog do not apply to or cannot be taken advantage of in connection with it. No changes can be allowed. Here is what One Dollar will buy:

32---Full-Sized Packets as Follows for Only One Dollar---32

1. Beans—Dwarf, Valentine. Fine green pod.
2. Beans—Dwarf, Kidney Wax. Fine wax pod.
3. Beet—Detroit Dark Red. Very early and tender.
4. Beet—Edmand's Blood Turnip. Very tender, long keeper
5. Cabbage—All-Head Early. Flat heading sort.
6. Cabbage—Danish Ball-Head. Solid, tender.
7. Celery—Columbia. Good flavor and keeper.
8. Cucumber—Klondyke. Dark green, shapely pickle.
9. Cucumber—Livingston's White Spine. Best slicer.
10. Sweet Corn—Columbus Market. Large early.
11. Sweet Corn—Livingston's Early Sugar. Early & sweet.
12. Lettuce—Big Boston. Tender, large headed sort.
13. Lettuce—Black Seeded Simpson. Finest Early Curled.
14. Lettuce—Prize Head. Fine heading sort.
15. Water Melon—New Chilian. Quality very delicious.
16. Musk Melon—Netted Gem. Green flesh. Early sweet.

17. Musk Melon—Perfection. Salmon flesh; delicious.
18. Onion—Yellow Globe. Best for general crop.
19. Onion—Red Globe. Fine; good keeper.
20. Pepper—Ruby King. Large, sweet and prolific.
21. Parsnip—Hollow Crown. Large and extra sweet.
22. Parsley—Moss Curled. Very fine green variety.
23. Peas—Little Marvel. Early, sweet, prolific.
24. Peas—Gradus. Large pods, full of sweet peas.
25. Radish—Cincinnati Market. Great favorite for early.
26. Radish—Rosy Gem. Bright red; white tip; early.
27. Radish—Livingston's Pearl. Fine, long, white variety.
28. Squash—Golden Custard.
29. Squash—Hubbard. Fine for Winter use.
30. Tomato—Livingston's Favorite. Fine red variety.
31. Tomato—Livingston's Beauty. No better purple sort.
32. Turnip—Purple-top White Globe. One of the best.

Free With each order for **OUR GREAT DOLLAR VEGETABLE COLLECTION** the buyer may select one ounce of either Livingston's Fine Mixed Peas, or one ounce of Livingston's Top-Notch Mixture of Tall Nasturtiums. With each collection we enclose a helpful leaflet of cultural directions—"The Vegetable Garden."



The Livingston Seed Co.

IMPORTERS, GROWERS AND DEALERS IN

"True Blue"

Garden, Field and Flower
Seeds

ESTABLISHED 1850

*Our Reference:
The Users of True Blue Seeds*

True Blue Nurseries, Trial Grounds and Greenhouses,
near this City.
Kirkersville Seed Farm, Kirkersville, Ohio.
Retail Store, 114 North High and 9-11 East Long Sts.
Seed Warehouse, 59-61 East Chestnut St.

Columbus, Ohio, January 1, 1917.

Greetings to Our Friends:

We are pleased to note that our predictions of a year ago came true. We refer especially to the very great demand for labor and at good wages, with consequent ability to buy all classes of food products. There has been a good market throughout the season and at paying prices. The season of 1916 proved to be one of excessive heat and drought in many sections, causing short crops. Prices as compared with those of 1915 went to the other extreme—the highest, in a general way, in years. Those who had a good back yard or kitchen garden in 1916 were fortunate indeed. It was the means of saving many purchases of high priced vegetables and flowers, and then the product of your own garden is so much more fresh than the ordinary grocery supplies.

Seed crops in a general way are short, in common with all other crops. A late and very wet spring followed by a hot and dry summer is the cause. Some vegetables have been so high in price they were put upon the market rather than saved for seed. The crops hardest hit are Beans, Sweet Corn, Peas, Pepper, Salsify, Tomato; although in each of these classes some varieties have given almost a normal yield. On such sorts we have kept prices down in order to help out on the short items for which we have been compelled to advance prices. This has resulted in making our average of prices about equal to other seasons.

In new things for 1917, we are pleased to offer such very promising sorts as Livingston's New Manyfold Tomato, Honey Dew Muskmelon, Sensation Aster and Double Mixed Cosmos, while our Novelty and Specialty list (pages 4 to 11) is filled with desirable varieties.

We desire to thank our customers of past years for their many favors, and sincerely wish for you all, successful crops in 1917. This includes the flower beds, too. We are pleased to receive photographs and reports of successful gardens at all times. Let us know how your gardening efforts turn out.

Yours for success,

The U. S. Registered Seals illustrated in the corners of this page are used on all bags containing seeds of our introduction.

THE LIVINGSTON SEED CO.





IMPORTANT SUGGESTIONS:

By carefully observing the following Rules and Directions, Mistakes and Misunderstandings will be very largely avoided.

COLUMBUS, OHIO, is a city of over 200,000 inhabitants centrally located geographically, has 17 steam railroad systems, five electric roads, which practically cover the entire country, Express Companies, Telegraph and Telephone wires in all directions, which afford us **unequaled facilities** for receiving orders, shipping and procuring lowest rates to all parts of the country; besides you have the assurance of getting your order in the quickest possible time.

Within Twenty-four Hours' Time We Can Reach Two-thirds of the Population of the United States.

ALWAYS USE THE ORDER BLANK and envelope sent with this Catalogue when possible. Write plainly, keep a copy of your order, and be sure to sign your name, Postoffice, County and State every time you write to us. Extra Envelopes and Order Blanks will be sent on application, also additional Catalogues, if desired.

SEND MONEY. Remittances should always accompany the order. Remittances may be made at our risk by any of the following methods. (1st and best)—**Postoffice Order**; (2d)—**Bank Draft**; (3d)—**Express Co. Money Order**; (4th)—**Cash by Express** in amounts not less than \$5.00; (5th)—**Registered Letters**. When money cannot be sent by either of the first four methods, it may be enclosed in a Registered Letter. The rates charged for Postoffice Orders and Express Money Orders are now so low this is the best way to remit where they can be obtained. We will bear expenses of sending money in either of above ways when order amounts to \$1.00 or over.

NO GOODS SENT C. O. D. Unless cash to the amount of one-fourth the order accompanies the same.

SEEDS BY MAIL. Sending seeds by mail is a very important branch of our business, as we are now using an entire building, apart from retail store, for the mail order and shipping department. Hence we are well prepared to fill orders promptly and correctly the day they are received in nearly all cases.

OUR PRICES. In comparing our mail prices, especially on heavy seeds, such as Peas, Beans and Corn, by the pound and two pounds, and other seeds by the pound and one-fourth pound, bear in mind that we pay the postage, unless otherwise noted.

ORDER EARLY. It is important to order as soon after you get the Catalogue as convenient, then you will have your seeds at hand for planting when you want them; besides, if you want seeds in large quantities, they can be sent by freight much cheaper than by express. Small orders, however, can often go by express as cheaply.

LARGE ORDERS. Any Dealer, Market Gardener, Institution or any Individual wishing seeds in large quantities is requested to mail us a list of what is wanted and we will promptly return it to you with the very lowest prices marked. A letter of inquiry may save you dollars if you want to buy in quantity.

SMALL ORDERS. If you only want a single packet, do not hesitate to order it. We take as much pains with small orders as with large ones. Small True Blue Seed orders are sure to grow larger.

SHIPPING ORDERS. When goods are to be shipped by freight or express, give plain shipping directions; otherwise we use our best judgment.

BE FREE TO WRITE US for any information pertaining to our business, on a separate sheet of paper from your order, as your letter goes to the general office and your order to the Mail, Express, or other departments.

WE URGE customers to inform us promptly on the arrival of orders if anything proves otherwise than expected. We aim to make friends of our customers, and mail orders receive the same careful attention that customers do over our counters, but we are only human and errors sometimes (though not often) occur. When they do we are willing and anxious to rectify them.

OUR SEED ANNUAL. Please show this Seed Annual to your friends, and if you should receive an extra copy be kind enough to hand it to some neighbor interested in seeds, who will be pleased to get it. We will be glad to send a copy free to any of your friends likely to want seeds, in this or any other country. In return we will ask you to speak a good word for us to your friends and neighbors. An order this season, no matter how small, secures our catalog for next season as soon as issued.

CHANGE OF ADDRESS. If you have changed, or intend to change your address, please let us know, and we will change it on our books, so that you will receive our Seed Annual at your new postoffice.

If you have Rural Mail Delivery be sure to give the Name and Number of your Route, if necessary, when ordering.

GUARANTEE. Complaints made that seeds are not good should quite as often be attributed to other causes as to the quality of the seeds. There are contingencies continually arising to prevent the very best seeds always giving satisfaction, such as sowing too deep, too shallow, in too wet or too dry soil; insects of all descriptions destroying the plants as soon as, or before, they appear; wet weather, cold weather, frosts; chemical changes in the seeds induced by temperature, etc. Soil preparation for the reception of seed is very important. If not properly done, seed with very high germination is bound to perish. For all these reasons it is impossible to guarantee seeds under all circumstances, and, while we exercise the greatest care to have all seeds pure and reliable, we give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any Seeds, Bulbs, or Plants we send out, and we will not be in any way responsible for the crop. If the purchaser will not accept the goods on these terms, they should not be ordered. We test all our seeds before sending them to our customers, and should they fail to grow, if promptly and properly tested by the customer, will replace the same amount or give value in others. We cannot afford, knowingly, to send out seeds doubtful as to vitality or purity, and you can get no better stocks of any seedsman, even though he deceitfully professes to warrant seeds. We have thought best to be frank in regard to this matter so there could be no misunderstanding. A guarantee from an irresponsible seedsman is of no value whatever.

ABOUT PARCELS POST

WE give below a Parcel Post rate table for the convenience of those wishing goods sent by mail in larger quantities than are quoted "postpaid" herein. Bear in mind however that we pay the postage or express charges, unless otherwise noted, on flowering bulbs up to and including dozen lots, and on all seeds up to and including pounds (Beans, Corn and Peas two pounds). The price on other items does not include prepayment of this charge except as noted.

The rate for Seeds, Bulbs, Plants and Books is 1 cent for each two ounces up to 8 ounces regardless of distance. Over 8 ounces the pound zone rate applies	Local Zone City of Cols. and its rural routes Postage required.	1st Zone Not over 50 miles from Columbus Postage required.	2nd Zone 51 to 150 miles from Columbus Postage required.	3rd Zone 151 to 300 mi. from Columbus Postage required.	4th Zone 301 to 600 mi. from Columbus Postage required.	5th Zone 601 to 1000 mi. from Columbus Postage required.	6th Zone 1001 to 1400 mi. from Columbus Postage required.	7th Zone 1401 to 1800 mi. from Columbus Postage required.	8th Zone Over 1800 miles from Columbus Postage required
Over 8 oz. up to 1 lb.	5c	5c	5c	6c	7c	\$0.08	\$0.09	\$0.11	\$0.12
Over 1 lb. up to 2 lbs.	6c	6c	6c	8c	11c	.14	.17	.21	.24
Over 2 lbs. up to 3 lbs.	6c	7c	7c	10c	15c	.20	.25	.31	.36
Over 3 lbs. up to 4 lbs.	7c	8c	8c	12c	19c	.26	.33	.41	.48
Over 4 lbs. up to 5 lbs.	7c	9c	9c	14c	23c	.32	.41	.51	.60
Over 5 lbs. up to 6 lbs.	8c	10c	10c	16c	27c	.38	.49	.61	.72
Over 6 lbs. up to 7 lbs.	8c	11c	11c	18c	31c	.44	.57	.71	.84
Over 7 lbs. up to 8 lbs.	9c	12c	12c	20c	35c	.50	.65	.81	.96
Over 8 lbs. up to 9 lbs.	9c	13c	13c	22c	39c	.56	.73	.91	1.08
Over 9 lbs. up to 10 lbs.	10c	14c	14c	24c	43c	.62	.81	1.01	1.20
Over 10 lbs. up to 11 lbs.	10c	15c	15c	26c	47c	.68	.89	1.11	1.32
Over 11 lbs. up to 12 lbs.	11c	16c	16c	28c	51c	.74	.97	1.21	1.44
Over 12 lbs. up to 13 lbs.	11c	17c	17c	30c	55c	.80	1.05	1.31	1.56
Over 13 lbs. up to 14 lbs.	12c	18c	18c	32c	59c	.86	1.13	1.41	1.68
Over 14 lbs. up to 15 lbs.	12c	19c	19c	34c	63c	.92	1.21	1.51	1.80
Over 15 lbs. up to 16 lbs.	13c	20c	20c	36c	67c	.98	1.29	1.61	1.92
Over 16 lbs. up to 17 lbs.	13c	21c	21c	38c	71c	1.04	1.37	1.71	2.04
Over 17 lbs. up to 18 lbs.	14c	22c	22c	40c	75c	1.10	1.45	1.81	2.16
Over 18 lbs. up to 19 lbs.	14c	23c	23c	42c	79c	1.16	1.53	1.91	2.28
Over 19 lbs. up to 20 lbs.	15c	24c	24c	44c	83c	1.22	1.61	2.01	2.40
Over 20 lbs. up to 21 lbs.	15c	25c	25c						
Over 21 lbs. up to 22 lbs.	16c	26c	26c						
Over 22 lbs. up to 23 lbs.	16c	27c	27c						
Over 23 lbs. up to 24 lbs.	17c	28c	28c						
Over 24 lbs. up to 25 lbs.	17c	29c	29c						
Over 25 lbs. up to 26 lbs.	18c	30c	30c						
Over 26 lbs. up to 27 lbs.	18c	31c	31c						
Over 27 lbs. up to 28 lbs.	19c	32c	32c						
Over 28 lbs. up to 29 lbs.	19c	33c	33c						
Over 29 lbs. up to 30 lbs.	20c	34c	34c						
Over 30 lbs. up to 31 lbs.	20c	35c	35c						
Over 31 lbs. up to 32 lbs.	21c	36c	36c						
Over 32 lbs. up to 33 lbs.	21c	37c	37c						
Over 33 lbs. up to 34 lbs.	22c	38c	38c						
Over 34 lbs. up to 35 lbs.	22c	39c	39c						
Over 35 lbs. up to 36 lbs.	23c	40c	40c						
Over 36 lbs. up to 37 lbs.	23c	41c	41c						
Over 37 lbs. up to 38 lbs.	24c	42c	42c						
Over 38 lbs. up to 39 lbs.	24c	43c	43c						
Over 39 lbs. up to 40 lbs.	25c	44c	44c						
Over 40 lbs. up to 41 lbs.	25c	45c	45c						
Over 41 lbs. up to 42 lbs.	26c	46c	46c						
Over 42 lbs. up to 43 lbs.	26c	47c	47c						
Over 43 lbs. up to 44 lbs.	27c	48c	48c						
Over 44 lbs. up to 45 lbs.	27c	49c	49c						
Over 45 lbs. up to 46 lbs.	28c	50c	50c						
Over 46 lbs. up to 47 lbs.	28c	51c	51c						
Over 47 lbs. up to 48 lbs.	29c	52c	52c						
Over 48 lbs. up to 49 lbs.	29c	53c	53c						
Over 49 lbs. up to 50 lbs.	30c	54c	54c						

Insured Parcel Post

Packages up to \$25.00 in value will be insured for their full value on payment of a fee of 5 cents for each package in addition to the regular post rates. Packages in value over \$25.00 will be insured for their full value, but not to exceed \$50.00 for a fee of 10 cents for each package in addition to the regular Parcel Post rates. If you desire your package insured, send the insurance fee in addition to the amount you send to pay for the goods—and be sure to mention same on your order.

Weight Limit

In the local, first and second zones, packages will be delivered by Parcel Post, weighing up to 50 pounds. In the third to eighth zones the weight limit is 20 pounds.

Size Limit

The size of the parcel in no case is to exceed 72 inches in length and girth combined. In other words, the circumference of the parcel at its thickest part, plus its length, must not exceed 72 inches.

Returning Goods

Should you ever find it necessary to return goods by Parcel Post, never put a letter or any money in the package, as that would make the whole shipment bear a first-class postage charge. Never seal a Parcel Post package, or place a stamp over the string. Always put your name and address in the upper left-hand corner.

Some Brand New Things for 1917 You Ought Not to Miss

Honey Dew Muskmelon

The finest new Melon introduced in years. It is being served at all first-class restaurants and hotels at very high prices. For full description and illustration see page —. We offer seed while our stock lasts at the following rates: Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.10.

Livingston's New Manyfold Tomato

A new Livingston sort. Offered now for the first. More than five years' selection has been spent in perfecting the New Manyfold. It produces large clusters of bright red fruit, having brightest red flesh of any known sort. Pkt., 50c.; 3 pkts., \$1.25. Full description page 10.

Novelties and Specialties for 1917

You will find under this heading new varieties worthy of trial, and others of such value as to warrant our giving them special mention. A vast number of novelties are offered each year which, after growing on our trial grounds, prove no better than standard varieties, if as good, so that in line with our policy of furnishing the best seeds procurable we endeavor to furnish in new types, only such as have made good on our trial grounds. There are varieties which, while not new in the strictest sense of the word, are of recent introduction and demand special notice as being much superior to ordinary types, and these we hope our customers will try along with some of the novelties, all of which will prove of interest and aid in the development of a more productive garden.



Livingston's Hardy Wax Bean

Can Be Planted Early — High Quality — Stringless

You can't find a stronger or more healthy grower than this variety. It resists disease and grows in spite of unfavorable weather, and when it comes to quality they are unsurpassed in their class. We made pretty strong claims for Livingston's Hardy Wax when we first introduced it, but we haven't taken back a word that we said. It is of great value either for market or home garden. Pkt., 10c.; $\frac{1}{2}$ lb., 15c.; lb., 30c.; 2 lbs., 55c.; $\frac{1}{2}$ pk. (7 $\frac{1}{2}$ lbs.), \$1.40; pk., \$2.50; bu., \$9.00.

"Sure Crop" Stringless Wax Bean

Hardy — Blight-Resistant — Fleshy, Stringless Pods

Plants are very thrifty and hardy. Thick, leathery leaves resist blight admirably and help this sort to stand a remarkable amount of dry weather. Sure Crop Stringless Wax is the Bean "par excellence" for dry sections. Pods average 6 inches long, are flat, thick and fleshy and entirely stringless. Pkt., 10c.; $\frac{1}{2}$ lb., 20c.; lb., 30c.; 2 lbs., 55c.; $\frac{1}{2}$ pk. (7 $\frac{1}{2}$ lbs.), \$1.65; pk., \$3.00; bu., \$10.00.

Chinese Cabbage (Pe Tsai)

Also Known as "Celery Cabbage," "Odorless Cabbage," "Chinese Lettuce," etc. Introduced into this country from China. A new vegetable for the United States. It is a species of cabbage, with a fine delicate flavor, resembles a stalk of celery more than a cabbage head. It is as tender as head lettuce and once introduced becomes a great favorite and is in great demand for numerous dishes such as salads, cole slaw, and it can be eaten raw, or it may be cooked quickly. Soil best suited to it is low and moist and cannot be made too rich, if finest quality is desired, but it can be grown to fair size on any good garden soil that will grow good cabbage. If the weather should be very warm at the time of heading, tie up like Endive. Keep well watered.

For Fall or early Winter crop, sow the seed in rows outside early in August, about 20 inches apart and the plants finally thinned to 12 or 15 inches apart. For Winter use it is taken up before hard frost or freezing and cared for the same as cabbage in Winter. The mode of storing is to cover with straw and a sufficient quantity of earth to keep out the frost. Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; oz., 45c.; $\frac{1}{4}$ lb., \$1.35; lb., \$4.50.

Copenhagen Market Cabbage

Everybody who grows Cabbage is familiar with the Danish Ball-Head or Hollander, a Winter Cabbage grown for market more extensively than any other variety. The Copenhagen Market is an early Danish Ball-Head. It matures with the Wakefields but is of larger size. We have tested out many varieties alongside of it and it was not only the earliest Cabbage, but every plant developed a fine solid head—all exceptionally uniform in type, averaging about 8 inches in diameter each way and weighing from 5 to 8 lbs. each. We place Copenhagen Market in the front rank as an early Cabbage and feel sure that everyone planting it will be highly pleased with the crop. Pkt., 10c.; $\frac{1}{2}$ oz., 20c.; oz., 35c.; $\frac{1}{4}$ lb., \$1.10; lb., \$3.50.

For other varieties of Cabbage, see pages 23, 24, and 25.



Copenhagen Market Cabbage

Two Finest Celeries

Livingston's Snowwhite Celery

BEAUTIFULLY WHITE, CRISP AND TENDER

Splendid for Family Use

The new Snowwhite is a pure-white, self-blanching variety, introduced by us in 1902 after five years of careful selection and improvement. It is without a rival in purity of color. The originator says on this point: "In the season of 1900 I set 7000 plants of Snowwhite and found seven green stalks; in 1901, three thousand plants and only one green stalk; and in 1902, six thousand plants and not a single stalk that was not pure white. It does well where others fail."

Mr. E. J. Hollister, the noted Celery grower, and author of a book on Celery Growing, also says: "The pearly whiteness of the stalks of your Snowwhite Celery denotes good constitution, and together with the size, strength and number of the stalks, makes a perfect picture."

In vigor of growth, ease of blanching, size, richness of flavor, crispness and purity, it is ideal. Our picture, made from a portion of a photograph of one dozen stalks, gives some idea of the beauty of this variety, but not of the size. The dozen stalks weighed 20 pounds.

Single stalks sometimes weigh 2½ pounds, and quite frequently 2 pounds. It grows solid on all kinds of soil and keeps better than a great many of the best standard varieties.

Pkt., 10c.; ½ oz., 25c.; oz., 45c.; ¼ lb., \$1.35; 1b., \$4.50.



Livingston's Snowwhite Celery

Mrs. F. D. Bowers, Pa., writes: "You have not given Snowwhite Celery half the praise it deserves."

Mr. G. E. Terrill, Conn., writes: "Your Snowwhite Celery is Perfection. I ate the last of mine March 26. It was stored in a warm cellar, so you can recommend its keeping qualities."

CELERY CULTURE

A good book on the growing of this very important crop may aid to success and prevent expensive mistakes. We offer one of 143 pages, size 5x7 inches, with plenty of pictures, by W. R. Beattie, bound in cloth, price 50c.; postage 8c.

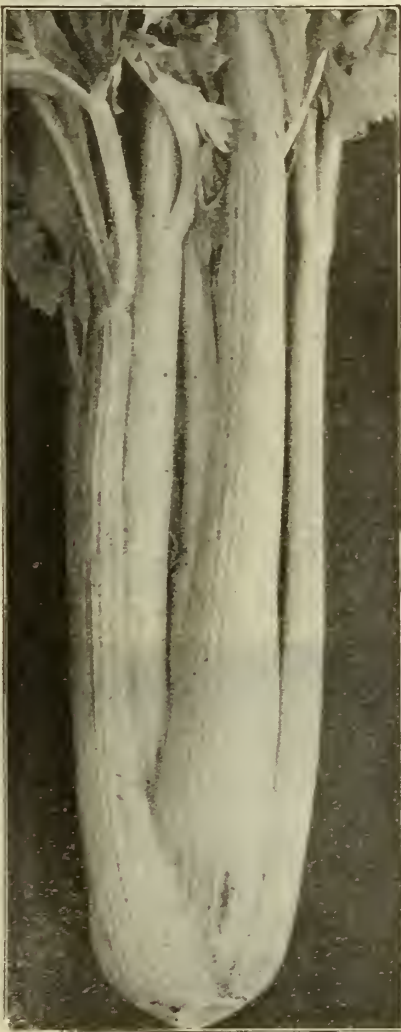
General list of Celery Seed of all standard varieties of real merit, see page 22.

New Columbia Celery

An early maturing sort, unsurpassed in shape and quality. The plant is of medium height, but very stocky and heavy. The stalks are thick, almost round, resembling in shape those of Giant Pascal; the color has in it more of the rich yellow tint of Golden Self-Blanching, which variety it resembles very much in appearance when trimmed and bunched for market. The foliage is of a distinctly light shade of green with a tinge of yellow. In season it follows in close succession Golden Self-Blanching. In quality is certainly exceptionally fine, some considering it equal or even superior to either Golden Self-Blanching or Giant Pascal. Pkt., 10c.; ½ oz., 20c.; oz., 30c.; ¼ lb., \$1.00; 1b., \$3.50.

Livingston's New Tom Thumb Pop-Corn

A great many people like to grow Pop-Corn, but there is so much difference in the popping qualities of the various varieties that one hesitates to offer anything in this line unless it has real merit. In this variety we have a dwarf growing corn, a heavy yielder of attractive ears, peculiar in form, but the grain is very similar to the best strain of White Rice Pop-Corn. The ears are short and thick, and run very uniform. Of a pearly white, and the grain is of excellent popping quality and flavor after being popped. We recommend Tom Thumb, believing it will give general satisfaction. Pkt., 10c.; ½ lb., 25c.; 1b., 40c.; 2 lbs., 75c.



Columbia Celery

Four Finest Sweet Corns

Livingston's Earliest on Earth

Earliest of the Golden Sorts

Records on our trial grounds for the past three years show it to be earliest of all including such well-known extra-early varieties as "Peep O' Day," "Golden Bantam," "Nordheims," "Premo," and all strains of Cory. Planted May 25, it was ready for market in 62 days. It is about a week earlier than Golden Bantam. Having 10 to 12 rows of grains, gaps in the ears are prevented. Ears run about 6 inches in length in roasting ear stage. Are produced on short stalks. On account of extreme earliness, other crops may be easily secured on same ground the same season. Pkt., 10c.; $\frac{1}{2}$ lb., 25c.; lb., 40c.; 2 lbs., 75c.; $\frac{1}{2}$ pk. (6 lbs.), \$1.20; pk., \$2.00; bu., \$7.50.

Extra Early Golden Bantam

One of the finest. Ears are from 6 to 8 inches long, eight rowed, filled with broad, sweet, golden yellow kernels of a delightful flavor. It is quite hardy and will stand planting early. It is as early as the Cory and of much better flavor. It is **always** good, whether planted in the Spring or during the Summer. We confidently advise all lovers of a real good Sweet Corn to give "Golden Bantam" a trial. The way to find out how good it is to try it; plant enough, or you'll be sorry when you begin to eat it. Pkt., 5c., $\frac{1}{2}$ lb., 20c.; lb., 30c.; 2 lbs., 50c. By express, not paid, $\frac{1}{2}$ pk. (6 lbs.), \$1.50; pk., \$2.75; bu., \$10.00.

Golden Cream

A Golden Country Gentleman

The good old Country Gentleman Sweet Corn has always been recognized as the sweetest of all the late varieties. Since the introduction of the Golden Bantam it has easily taken the lead as the sweetest of the Extra Early sorts. Now in this New Golden Cream we have the two united, retaining all the sweetness and fine flavor of both; also the color of Golden Bantam, but lighter yellow, and the irregular rows of Country Gentleman. The Golden Cream matures later than Golden Bantam. Quality very fine—sweet and tender. Pkt., 10c.; lb., 25c.; 2 lbs., 50c., postpaid. $\frac{1}{2}$ pk., 75c.; pk., \$1.40.

Golden Sweet Corn Collection

One packet each above fine new Golden varieties. Coming into bearing from extra early until Fall, only 25c, and a free packet of Livingston's Early Sugar.

Livingston's Early Sugar

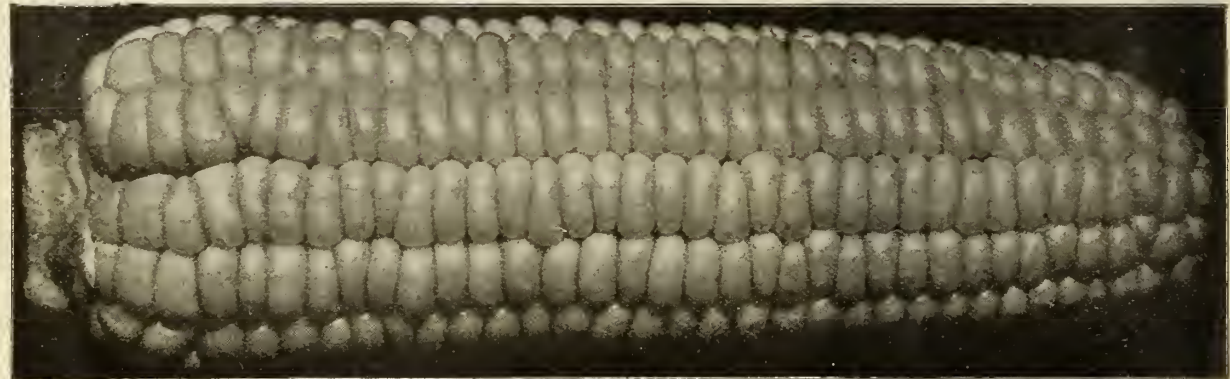
A distinct and valuable addition to the early Sweet Corns. As compared with other good early sorts, it has bigger ears with more even rows which are invariably filled well to the tip. Ears average 8 inches long by $2\frac{1}{4}$ in diameter, have from 10 to 12 rows of deep, broad, pearly white kernels of delightfully sweet flavor which is not surpassed by any other early kind. Sixty per cent. of the stalks carry two well-developed ears which are usually placed from 2 to 3 feet above the ground. A remarkable characteristic of Livingston's Early Sugar is the exceptionally strong husk which protects the ears from ravages of insects. Pkt., 10c.; $\frac{1}{2}$ lb., 15c.; 1 lb., 25c.; 2 lbs., 45c.; $\frac{1}{2}$ pk. (6 lbs.), 60c.; pk., \$1.10; bu., \$3.75.



Livingston's Earliest on Earth



Golden Bantam



Livingston's Early Sugar

Honey Dew Musk Melon

A Delicious New Melon Now Offered
for the First Time.

Read what the originator says of this fine new melon:

"The original seed was taken from a fruit shipped into New York City from some point in Africa." This would prove its carrying and keeping qualities. "It was then planted so as to make a cross with the Rocky Ford melon," so common on our markets. "Still another cross was made with a variety of Cassaba melon," so very popular in Southern California. "From this cross sufficient seed was secured to plant one and one-half acres in 1915. From this planting was harvested 1,175 crates, which were shipped to Chicago and netted me the handsome sum of \$3,600.00." One can readily believe it, when the prices charged at Hotels and restaurants for this most delicious of all melons, is considered. Its name has been well chosen, as it is about as sweet as Honey. The average size is about six inches in diameter, and they weigh five to six pounds. The skin is smooth with little netting, and of creamy yellow when ripe. The flesh is a beautiful green next to the outside rind shading to light green at the center. It is very thick, melting, fine grained and can be eaten almost to the rind, and the seed cavity is quite small.



HONEY DEW

Honey Dew Musk Melon

The Honey Dew is not easily bruised and stands shipping long distances. It matures about ten days later than the Rocky Ford, is very prolific, crops of 8,000 to 10,000 melons per acre having been reported. It is easily pulled from the vine, when fully ripe, and will keep for several weeks. The late maturing fruits are said to have kept until Christmas. We saw fruits of this Honey Dew matured on the vines in Michigan, the past season, and ripe fruits were shipped to us from Colorado; hence it is certain to mature over a wide range. Give Honey Dew a trial this season. You will no doubt be pleased. Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.10; lb., \$4.00.

Texas Cannon Ball Musk Melon

The following statement is from one of the largest melon seed growers in this country: "This melon should be more universally grown as it has considerable merit. It is slightly larger than the Rocky Ford Cantaloupe, is perfectly round, heavily netted, with no ribs, and has the thickest flesh of any melon grown. Flesh is green in color and of good flavor. It has never been used as a shipping melon to any extent, yet the rind is tough and is a good keeper. It should become more popular as it becomes better known, and we believe it has quite a future. Our strain is an excellent one." Pkt., 10c.; oz., 15c.; ¼ lb., 50c.

Livingston's Ohio Sugar Musk Melon

A Green-Fleshed Tip Top

Livingston's Ohio Sugar Melon is an absolutely distinct and very superior Melon. It is the result of careful hybridizing and pains-taking selection and breeding. We believe it to be one of the sweetest and most luscious green-fleshed cantaloupe now on the market. It is of that desirable size in demand in all markets; round, inclined to oval in shape, heavy in proportion to size because the flesh is deep. It is distinctly ribbed and thickly netted—color of skin grey-green. Because of its firm flesh and solidity, it is a splendid shipper. Seed cavity is small. It is no lottery to select a good Ohio Sugar Melon. They are all good, sweet and deliciously clear to the rind. It is the rarest exception that an under-quality Melon is found. The flesh is an attractive green of exquisite texture, sugary, juicy, tender, and entirely free from any stringiness. Handsome and uniform shape; every Melon a good one. It has become a popular market and home-garden Melon. Produces good Melons on a great variety of soils.

The vines are of luxuriant and vigorous growth, yielding bountifully through the season. Pkt., 10c.; oz., 20c.; ¼ lb., 45c.; lb., \$1.50.

Irving S. Jones, Kings Co., New York, writes, Jan. 28, 1916: "I wish to say that your Ohio Sugar Musk Melon is the most satisfactory melon that I ever raised. Last year I purchased a packet from you and tried it out with ten of the leading varieties. It was the best of all in every way. This year I will plant no other green fleshed melon."

Rocky Ford Pink Meat Musk Melon

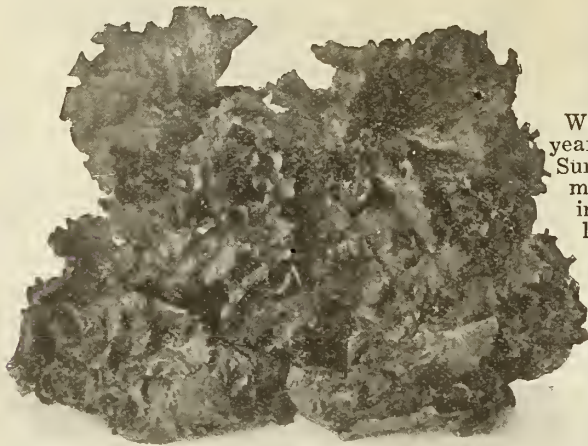
The Pink Meat Rocky Ford Cantaloupe has become very popular in the last two or three years. Is quite similar in appearance to an Eden Gem type of Rocky Ford, being beautifully netted, but the flesh is pink. Its shipping qualities are excellent, quality all that can be desired, and we believe is destined to be very popular. We offer it for the first time this year. Pkt., 10c.; oz., 15c.; ¼ lb., 50c.

Our Constant Aim is to give our customers the very best procurable. We could produce many seeds we offer considerably cheaper by contracting for them at low wholesale prices. It costs us nearly twice as much to grow seeds as to contract for them. At the same time our prices are only slightly higher than those of the average seedsmen. We are satisfied with a smaller margin of profit in order to enable planters to get the very best seeds procurable at reasonable cost.

C. H. Billingham, Calhoun Co., Mich., writes: "Your new Musk Melon, Ohio Sugar, is away at the top. It beats the Tip Top so far it never will catch up. From one packet of seed we had melons for the table for over two months. Although we had an acre of other Musk Melons, we had the first and last melon from the Ohio Sugar. We had the first ripe ones Aug. 17th, and ate the last one Oct. 29th."



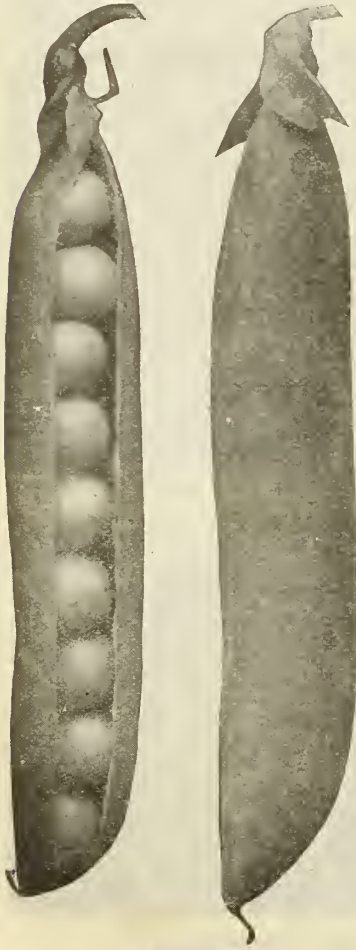
Livingston's Ohio Sugar Muskmelon



Livingston's "Bon Ton" Lettuce

Livingston's "Bon Ton"

This fine variety is of the Simpson Lettuce type, but comes very uniform and true. It has a beautiful light green outer head, changing to a rich cream shade at the heart. The leaves are just enough wrinkled to make them beautiful, yet not enough so as to render it difficult to prepare them for the table. It is especially adapted for local markets and family gardens, but for shipping it is not so good on account of its exceeding crispness. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.00.



Buttercup

Mrs. J. S. Kraig, Armstrong Co., Pa., writes: "I would like very much to procure at least ¼ lb. of the Bon Ton Lettuce Seed for I find it and the Early Simpson to be the best for late spring and early Summer planting."

Mr. George Endress, Blair County, Pa., writes: February 29th, 1916: "We had a very successful year, and your seeds are the best that we can get on the market. I want to mention about the Bon Ton Lettuce. It is the best Lettuce that we ever had."

Peter Pan Pea

A very promising new early sort with big Dark Green pods and peas.

Produces large pods filled with peas of highest quality. It has vigorous growing large dark foliage standing about 15 to eighteen inches in height. The Peter Pan Pea is the "last word" in this class of large podded dwarf growing dark green foliage, pods and peas. Packet, 15c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 65c.; ½ pk., \$1.35; pk., \$2.50.

Buttercup Pea

A Grand New Medium Early Pea
An Improved Carters Daisy

In this grand variety we have a large podded Wrinkled Pea comparing in size and quality with Telephone, Boston Unrivalled and Alderman, but the vines, while very thrifty and vigorous, only grow from 16 to 20 inches high and bear great crops of big pods filled with deliciously flavored Peas. In season, Buttercup comes between Premium Gem and Telephone, hence valuable as a market variety. Buttercup is a few days earlier than Carter's Daisy. A much better cropper and the pods fill quicker. Pkt., 15c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 60c.; ½ pk. (7 lbs.), \$1.20; pk., \$2.00; bu., \$7.50.

New Pea

Market Surprise

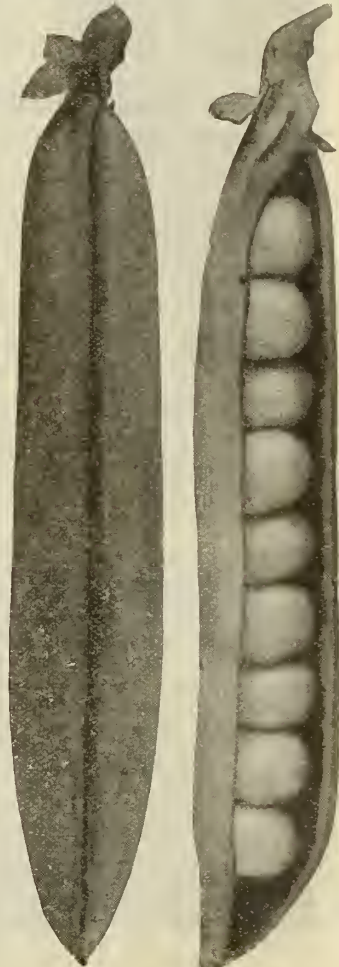
A Large Podded Extra Early

We have something new in Peas to offer our customers this year. It is a large podded, prolific Extra Early, called Market Surprise. It is as early as Livingston's First in Market, but more prolific. The pod is larger, measuring about ¾ inches in length and ¼" in width; the picking season a little longer than that of First in Market. The seed resembles that of First in Market, in color, while it is not quite as smooth, nor yet is it a wrinkled pea. We would describe as "dimpled." We believe you will do well to try some of the Market Surprise this season. We haven't a great quantity of the seed, but want our customers to find out how good it is and be ready for larger quantities in 1918. As a sort to follow, Extra Early Alaska it should prove a dandy good one. Pkt., 15c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 65c., postpaid.

We Could Produce "Cheaper" Seeds

than those offered by us, but that would not be serving our customers right. "True Blue" stands for highest quality. We aim to grow the best seeds that brains, soil and climate will produce—for the sake of the man who plants them.

DO NOT FORGET TO ORDER NITROCULTURE INOCULATOR FOR PEAS. (See Page 60.)



Peter Pan

Livingston's Prolific Yellow Pepper

Very Early, Very Productive, Very Mild

Introduced by Us in 1914. (See illustration alongside)

Immensely productive, of bright yellow fruits of the most convenient size for stuffing. Comes into bearing much sooner than the mammoth sorts, and is the surest crop of all. It may be used for stuffing while yet green. We secured a small amount of the seed of this variety some years ago from one of our gardener customers and after carefully selecting it so as to produce fruits true to type, we offered it for the first time in 1914.

On account of the mildness and thick walls of Livingston's Prolific Yellow Pepper, it is one of the finest for use in salads or pickles. Pkt., 10c.; ½ oz., 25c.; oz., 45c.; ¼ lb., \$1.35; lb., \$4.50.



Livingston's Prolific Yellow Pepper

New Saxa Radish

Bright Scarlet, Small Top and Root

This variety is of a beautiful scarlet color, round as a marble and having a very small top and tap root. It comes so quick that it has been placed on the dining table in three weeks from the time of sowing seed. The flesh of the New Saxa is very crisp, brittle and juicy, and remains in fit condition for the table for a long time. It is adapted to sowing in open ground as soon as it can be worked, and it is a fine sort for greenhouse crops, for which it was especially developed. Pkt., 10c.; ½ oz., 15c.; oz., 25c.

Sweet Salad Pepper (Pimento)

ALSO KNOWN AS PERFECTION

The following is the description of the introducers of this valuable new sort:

"This pepper is of the 'Pimento' type (see illustration below), and has been brought up to a degree of perfection which we have not found in any other strain or variety that we have ever seen or grown. We are large growers of peppers of both the 'Bell' and 'Pimento' types. We have tested about all the varieties now in cultivation. We have also given considerable attention to the crossing and selection of varieties, all of which have resulted in some valuable improvements. But the results have shown that there is not a single variety that we have tested that is in any respect equal to 'Perfection.'

This Pepper is especially desirable for canners. It is also fine for the home garden, both green and ripe. It is so smooth and uniform in shape that the skins can be easily slipped off after burning over a hot fire a few seconds or by boiling a few minutes in hot water. It can also be pared like an apple by using a sharp knife. The green peppers can be pared best in this way. The hull or meat is from two to three times as thick as that of the old "Bell" types, and yields about a half more edible product to the same measurement.

Quality very sweet and delicious and entirely free from pungency. Color when ripe a beautiful scarlet red. Very productive, yielding heavy crops until cut off by frosts. It is largely grown by canners for pimentos, pickles and pulp. Pkt., 10c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.50.

Pomona Food Canning Co. writes: "We have planted this year 50 acres Perfection Pepper. We know of no other pepper of the Pimento type that we would be willing to plant. We heartily recommend it as the very best for our canning business."

Pomona Food Canning Co. writes: "We have planted this year 50 acres Perfection Pepper. We know of no other pepper of the Pimento type that we would be willing to plant. We heartily recommend it as the very best for our canning business."



New Saxa Radish



New 1917 Tomato

Livingston's Manyfold

**Brigheest Red Inside and Out.
Earliest Big Red Sort.
Heavy Cropper**

In the introduction of new varieties of Tomatoes we have felt that it was due to our customers that there should be some points of superiority over existing varieties. We annually test a lot of sorts offered by others and in many cases have been disappointed. There was no real good reason for their introduction.

It has been a number of years since we sent out the Livingston's Coreless, the last one of the Livingston varieties to be introduced, although we have been continuously at work on various crosses and selections, and have been solicited by Seedsmen, Canners and Gardeners many times each season for something new in Tomatoes. A majority have asked for a sort that would hold up the size and productiveness of some of our large standard varieties, and yet would come into bearing a week or two earlier. In our new **Livingston's Manyfold Tomato** we believe it has been accomplished. It has a brilliant, bright-red fruit that averages almost equal in size to Livingston's Stone, and fully as productive, if not more so, but begins bearing earlier, hence lengthening the bearing season. The fruit is borne in large clusters which generally average five or more to the cluster. On 183 plants grown on trellises at our True Blue Farm the past season, we counted 442 clusters having five fruits and upwards. Almost invariably all of the fruits are of marketable size. The flesh of the Livingston's Manyfold Tomato is one of the richest reds we have ever seen. Even the pulp surrounding the seed, in most specimens, shows the red coloring. We consider this point of high color, together with early maturity of a very large majority of the crop, should appeal very strongly to Canners and makers of catsup, and equally so to private users of Tomatoes.

Livingston's New Manyfold Tomato is the most promising of all recent introductions. We have faith in it, and know you will not regret using it in your crop for this season. Packet, 50c.; 3 packets, \$1.25. Half size packet, 30c.



The way Livingston's New Manyfold Yields. Can you beat it?

If it is a
**Livingston
Tomato**

It's a plum good
one.

More Tomato Seed of the Livingston varieties are sold than all others, and you take the least risk in planting our own growing of Livingston's Tomato Seeds. They have been standard for years as we have

specialized on Tomato Seed growing for more than forty years. We know Tomatoes pretty thoroughly. The Livingston's New Manyfold has been selected for upwards of five years. You will be pleased with its trueness to type, bright red color, early and long bearing season, smooth and solid fruits, and immense productiveness.

Look at the picture of it in the natural color, or as near as the artist could make it, on the outside of this catalog.

Try a few packets of it this season and be ready to buy it in larger quantity in 1918. We are sure of a big demand and are going to grow a lot of seed this season to meet it.

Packet, 50c.; 3 packets, \$1.25. Half size packet, 30c.



Livingston's New Manyfold

The Livingston Seed Co.
Famous for Tomatoes Columbus, O.

New Aster - Sensation

1398—This new sort is the darkest red of all Asters. The plant averages about 18 inches high and is of the true branching type. Stems are long and stiff, making it ideal for cutting. The flower is very double and averages about three inches in diameter. On account of the deep velvety-red color of Sensation, it is exceptionally fine for either bedding or border. Pkt., 15c.



Aster, Sensation

New Cosmos

Double Crowned and Crested

1671—One of the best novelties of recent years. The colors are similar to those of the old type pink, white, crimson, etc. The plant is a vigorous grower and comes into flower about the same time as our Mammoth Perfection. Not all of the blooms will come double, but a fair percentage will do so. We offer this new sort in mixture. Pkt., 20c.

New White Oriental Poppy

2334—It is the most distinct "Break" that has yet been made in Oriental Poppies, it being a pure satiny white with a bold crimson blotch at the base of each petal, unquestionably the most important addition to the list of hardy perennial seeds. Like most hybrids the seedlings are liable to vary some in color, but a good percentage can confidently be expected to come true. Pkt., 20c.

Salvia New Ostrich Plume

2385—This new variety is the most beautiful of Salvias of recent introduction. Its habit of growth resembles that of the Splendens type, but produces a Plume quite similar in form to Ostrich Plume Celosia. One Plume alone is a bouquet itself, quite a per cent of the flowers are double and this is the only Salvia up to the present time that is double. The color is somewhat different from all other Salvias, being of a rich, glossy, dark scarlet. By very careful selection and severe roguing for the past three seasons, this variety now runs very true to type. Pkt., 15c.

New Decorative Dahlia

Mina Burgle

This new seedling received its name and origin on the trial grounds of the famous California Dahlia grower, Mr. Burgle, and is one of the finest varieties known. It produces giant flowers of brilliant and remarkable beauty. The flowers are of a perfect Decorative type, borne on long wiry stems well above the foliage. The color is a rich glowing scarlet, very intense. Each, 50c.

A Rare Gladiolus

Mrs. Frank Pendleton

A magnificent variety. The flowers are very large and well expanded. Nearly all who have seen this grand variety either in the field or on the show bench, are enthusiastic in its praise. Its color is a delicately flushed salmon pink, extending even to the reverse side of the petal. Its wide open blooms are arranged loosely on strong wiry stems which bend gracefully when placed in the vase and the deep carmine blotch in the throat presents a vivid contrast and a most effective combination of coloring. Each, 20c; doz., \$2.00, postpaid.



Mrs. Frank Pendleton



FIELD SCENE AT OUR KIRKERSVILLE FARM.

Livingston's **TRUE BLUE** Vegetable Seeds

In our Vegetable Seed Department we have listed only such varieties as are of real merit, having rigidly excluded all sorts that are not of value, and have cut out a number of out-of-date varieties.

We make thousands of tests each year in our Trial Grounds to ascertain similarity of variety, so as not to offer the same sorts under different names.

Cultural directions will be found at the heading of each class of vegetables, and also on most of our packets. These directions, while reliable, will not apply in every detail to the extreme sections of the United States, and therefore some allowance must be made for the difference in latitude.

We also send free to our customers, on application, a cultural leaflet—"The Vegetable Garden," which is of value to beginners.

Spargel **Asparagus** Esparragos

It can be grown in any good garden soil, but does best in sunny, moist soil. To grow plants from seed, sow in drills about one inch deep in rows one foot apart. Keep the soil mellow and free from weeds; during the Summer thin out, and the following Spring plants may be set in the permanent bed. Set the plants one foot apart each way, ten inches below the surface, spreading the roots well apart. Cover with about three inches of soil and as plant grows fill in the trench. **One ounce of seed will sow 60 feet of drill. About 400 plants to the ounce. Leaflet with Cultural directions free to customers.**

Columbian Mammoth White—A distinct variety, producing shoots which are white and remain so as long as fit for use. Vigorous and robust in habit; grows large shoots. Needs no earthing up. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 65c.

Early Argenteuil—A splendid early French variety of large size and green in color; excellent flavor. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Palmetto—Large, dark green variety of vigorous growth, having pointed tips. Early. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Conover's Colossal—Large and rapid grower of excellent quality; color, green. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

ASPARAGUS CULTURE.

A book giving all possible details as to Growing, Soil, Marketing, Canning, etc., for home use or market. 150 pages, 5x7. Cloth, 50c., postpaid.

For Asparagus Roots, see page 56.

Broccoli **Broccoli** Spargelkohl

This plant is very closely allied to the Cauliflower, the variation being very slight. It is generally considered rather more hardy, however. In growing Broccoli, a seed bed should be prepared and the seed sown in May. The plants will be ready to transplant late in June or early in July, and should be set in very rich mellow ground, in rows about $2\frac{1}{2}$ feet apart, leaving 18 inches between the plants.

Early Large White—Heads medium size, close and compact. One of the most certain to head. Pkt., 10c.; oz., 30c.; $\frac{1}{4}$ lb., \$1.00; lb., \$3.75.

Early Purple Cape—Rather hardier sort; greenish purple heads; good flavor. Pkt., 10c.; oz., 30c.; $\frac{1}{4}$ lb., \$1.00; lb., \$3.75.



"True Blue" Seeds

are "quality seeds." Our trial grounds prove to us every year that our strains are as good as the best and better than many good strains. Still, every year we learn and try to produce better seeds than those offered the year before.

Brussels Sprouts

Col de Bruselas

Rosenkohl

A species of the Cabbage family, which produces miniature heads from the sides of the stalk. These heads are a great delicacy, boiled in the same way as Cauliflower. The seed should be sown about the middle of May, in a seed bed, and the plants afterwards set in rows 2 feet or more apart, and cultivated like Cabbage.

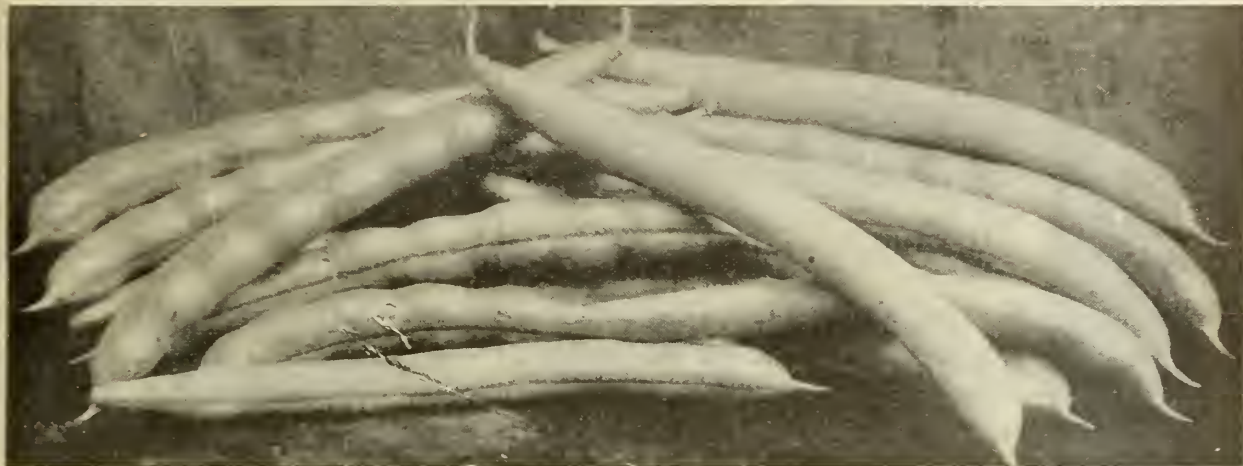
Improved Dwarf—Produces compact sprouts of the finest quality; a good keeper. Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 70c.; lb., \$2.25.

Pride of Denmark—A fine new variety, growing about 3 feet tall. Sprouts develop along entire stalk at one time, lower ones being as good as those at top. Pkt., 10c.; oz., 35c.; $\frac{1}{4}$ lb., 90c.; lb., \$3.00.

Borecole, or Kale—See Kale, page 29.



Livingston's Garden Beans



Livingston's Fencil Pod Wax.

Our strains of Beans are exceptionally fine. They are produced by the best growers in this country, who make a specialty of growing them for seed purposes. The fields are carefully rogued each year, the seed is hand picked, so that our stock will be found first-class.

Packets of Beans, put up to sell at 5c. postpaid, contain too small a quantity. We, therefore, put up **Liberal Sized Packets at TEN CENTS**. Bean Prices include postage, up to two-pound quantities. If the larger quantities are wanted sent by mail it will be necessary to remit additional amount at the Parcels Post rates. Refer to page 3 for rates.

Two pounds (one quart) will plant 100 feet of drill; 1 to 2 bushels to the acre.

Wax Podded Dwarf Varieties

Keeney's Rustless Golden Wax

A strong grower; free from rust. Pods meaty and well filled, semi-round, rich yellow, fine quality; **entirely stringless**. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c. By express, not paid, ½ pk., (7½ lbs.) \$1.60; pk., \$3.00.

Improved Golden Wax

Grennell's. One of the best strains of Golden Wax. Hardy, prolific, of best quality; pods straight, thick, and vines very erect. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c. By express, not paid, ½ pk., (7½ lbs.) \$1.60; pk., \$3.00.

Davis White Wax

Very productive, white-seeded, rustless, string or snap variety. A good variety for shipping. The dry white Beans are good for cooking purposes. Pkt., 10c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 60c. By express, not paid, ½ pk., (7½ lbs.) \$1.50; pk., \$2.75.

Green Podded Bush Beans

Hopkin's Earliest Red Valentine

One of the earliest and most prolific round green podded Beans. Comes into bearing earlier than the old stock of Valentines, is a wonderful producer and a perfect shipper. Remains in good condition a long time after picking. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 40c. By express, not paid, ½ pk., (7½ lbs.) \$1.25; pk., \$2.25; bu., \$8.50.

Extra-Early Round Pod Red Valentine

Usually ready to pick in 35 days after planting. Pods round, thick, fleshy, of fine quality; one of the most profitable sorts for market. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 40c. By express, not paid, ½ pk., (7½ lbs.) \$1.25; pk., \$2.26; bu., \$8.50.

Livingston's Yellow Pencil Pod Wax

Although hardy, it is stringless, tender and of fine quality. Pods smooth, perfectly round and straight. In points of vigor, hardiness and productiveness, it is superior. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 50c. By express, not paid, ½ pk., (7½ lbs.) \$1.25; pk., \$2.25; bu., \$8.50.

German Black Wax

Pencil Pod Strain—Pods are long, fleshy, round, waxy yellow, solid and tender; very early. Pkt., 10c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 60c. By express, not paid, ½ pk., (7½ lbs.) \$1.50; pk., \$2.75.

Wardwell's Kidney Wax

Immensely productive. One of the handsomest Wax Podded Beans. Early; vine medium, erect, hardy, productive. Pods long, broad, flat, brittle and of a delicate waxy yellow. Very attractive market sort. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 60c. By express, not paid, ½ pk., (7½ lbs.) \$1.60; pk., \$3.00.

New Kidney Wax

Pods are flat, but thick and fleshy. They average 6 to 7 inches in length, are borne in large clusters and make the finest show on the market bench on account of their rich lemon-yellow color and straight, handsome shape. In quality unsurpassed. Is brittle and stringless at all stages of development. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 60c. By express, not paid, ½ pk., (7½ lbs.) \$1.60; pk., \$3.00.

Round Pod Kidney Wax

Pods are round. Plants grow strong and sturdy, with long, round, handsome stringless pods of large size, very solid and full of meat; crisp, brittle. Wonderfully early and productive and has become very popular. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 50c. By express, not paid, ½ pk., (7½ lbs.) \$1.50; pk., \$2.75.

Full Measure

A very desirable round-podded variety with pods six to seven inches long, which are solid, meaty, brittle and stringless. It is a little later than Stringless Green Pod and is a splendid Bean for home or market use. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (7½ lbs.) \$1.50; pk., \$2.75.

Livingston's Round Six Weeks

Extra-early; strong grower and abundant cropper. Pods green, very fleshy, free from strings when young. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 40c. By express, not paid, ½ pk., (7½ lbs.) \$1.25; pk., \$2.25; bu., \$8.00.

Green Podded Beans (Continued)

Prices of beans include postage up to and including 2 pounds.

Bountiful

(See illustration). A green pod Bush Bean, which comes into bearing very early and continues throughout the season. Pods beautiful rich green, very thick, broad, long and uniform; meaty, tender, fine quality; absolutely stringless. Good shell Bean for Winter use. A splendid market variety. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c. By Express, not paid, ½ pk., (7½ lbs.) \$1.30; pk., \$2.50; bu., \$9.50.

Giant Stringless Green Pod

Has a much larger pod than Stringless Green Pod, or about one-third larger than the Valentine—average 5 inches long. Full and fleshy, extremely crisp and absolutely stringless; very early and prolific. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c. By express, not paid, ½ pk., (7½ lbs.) \$1.60; pk., \$3.00.

Refugee or 1000-to-1—Fine quality, medium late. Prolific; nearly round. Our strain is extra fine. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 50c. By express, not paid, ½ pk., (7½ lbs.) \$1.25; pk., \$2.25.

Extra Early Refugee—Hardy; an abundant bearer. Ten days earlier than Refugee or 1000-to-1. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c. By express, not paid, ½ pk., (7½ lbs.) \$1.25; pk., \$2.25.

Hodson "Green Podded"—Entirely unaffected by rust or blight; an exceptionally strong and robust grower; enormous yielder, often producing 50 to 60 pods to the plant. A little later than Refugee or 1000-to-1. Excellent shipping sort. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (7½ lbs.) \$1.25; pk., \$2.25.

Bush Lima Beans

These varieties are of true Bush or Dwarf form, growing but 18 to 20 inches high, without supports. About two weeks earlier than the Pole Lima Beans. Sure croppers. Abundant bearers until frost. Plant in rows 2 to 3 feet apart and a foot apart in the rows.

Burpee's Improved New Wonder or Quarter Century

This has uniformly larger pods than Burpee's Bush Lima, while the pods contain more Beans, which are thicker and remain green even in the dry stage. The plants are very prolific, bearing pods in clusters of from 5 to 7. The individual pods average 5 to 6 inches long and contain from 5 to 7 Beans. The Beans are exceedingly thin-skinned and of delightful flavor. They almost "melt in your mouth," to use a popular expression. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c. By express, not paid, ½ pk. (7 lbs.), \$1.20; pk., \$2.00; bu., \$7.50.

Fordhook

The Fordhook is entirely distinct in habit of growth. The stiffly erect bushes branch freely and bear tremendous crops. It is ready for use as early as the popular Burpee's Bush Lima, but the Beans are much plumper and remain green much longer. The shelled Beans are very fat, are closely packed in the pods, which shell very easily. Pods are borne in clusters of from 4 to 6, average 4 to 5 inches long and contain usually 4 tender Beans of a delightful flavor. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c. By express, not paid, ½ pk. (7 lbs.), \$1.20; pk., \$2.00; bu., \$7.50.

From Mrs. Isaac Keist, McLean County, Ill., R. F. D. 2, March 4, 1916: "I have been planting your seed for several years and would have no other kind. Your New Kidney Wax Bean is certainly grand. The best for canning I ever tried. I am sending an order with this letter."

Stringless Green Podded

One of the finest extra-early Beans in cultivation and one that has held its place in spite of many new introductions for which superior qualities were claimed. It produces in profusion long, straight, round, deeply saddle-backed pods early in the season. The pods are absolutely stringless at all stages of growth, brittle, tender, and of real good flavor. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c. By express, not paid, ½ pk., (7½ lbs.) \$1.50; pk., \$2.75; bu., \$10.00.

Black Valentine

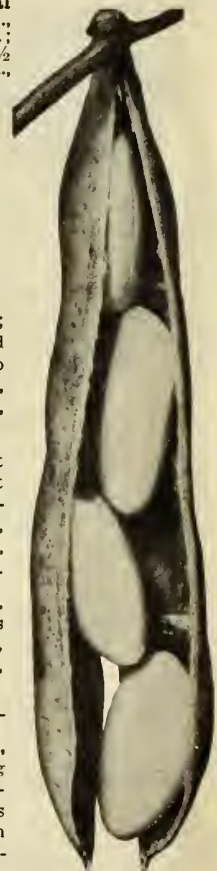
Very hardy; resists unfavorable weather and disease. Long, straight, green pods of fair quality, enormously productive. Ready for market in 50 days from sowing. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 50c. By express, not paid, ½ pk., (7½ lbs.) \$1.10; pk., \$1.90; bu., \$7.00.

Dwarf Horticulture—Speckled Cranberry. Splendid for Shell Beans. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 50c. By express, not paid, ½ pk., (7½ lbs.) \$1.10; pk., \$2.00.

Improved Navy, or Boston Pea Bean—Very productive variety. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (7½ lbs.) \$1.25; pk., \$2.25; bu., \$8.50.

White Marrow—Good green or dry. Standard Soup Bean. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (7½ lbs.) \$1.25; pk., \$2.25; bu., \$8.50.

White Kidney, or Royal Dwarf—Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c.; by express, not paid, ½ pk., (7½ lbs.) \$1.25; pk., \$2.15; bu., \$8.00.



Fordhook Bush Lima

See novelty pages for other varieties.



Siebert's Early Pole Lima.

Pole Lima Beans

Lima Beans will not grow until the weather and ground are warm. If planted before, they are almost sure to rot in the ground. See cultural directions for Pole beans. Prices on beans include postage up to and including two pounds.

Siebert's Early

One of the very best for market gardeners. The result of a number of years' selecting to largest green Beans and easily opening pods. Very productive, hardy and vigorous. Produces pods early, and continues to the last of the season. The great Beans are of immense size, but so tender and succulent that they shrink in drying to about the size of the original White Lima. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk. (7 lbs.), 85c.; pk., \$1.60; bu., \$6.25.

Early Leviathan

Of superior quality. Wonderfully productive. The ideal Pole Lima. Earliness is often obtained at the sacrifice of other valuable features, but in this variety we claim superiority, not only in this respect, but in size of Bean and pod and enormous productiveness. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk. (7 lbs.), \$1.00; pk., \$1.85; bu., \$7.00.

Carpenteria Large Green-Seeded

An excellent variety with many unique characteristics. Vines are of strong, vigorous growth, setting many pods, which are closely filled with large, fat Beans, much thicker than those of the ordinary Pole Limas. Pods contain 3 to 4 Beans, which retain the green tint in the dry state—a sure indication of fine quality. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk. (7 lbs.), \$1.00; pk., \$1.75; bu., \$6.50.

King of the Garden

Vigorous grower, pods containing five to six large Beans, which are of fine quality. The vines grow strong and yield heavily. A very fine variety. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk. (7 lbs.), \$1.00; pk., \$1.75; bu., \$6.50.

Dreer's Improved

Beans thick, sweet and tender; of medium size. Especially good for the home garden. Very productive. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk. (7 lbs.) \$1.00; pk., \$1.75; bu., \$6.50.

Sieva, or Small Lima

Early, and the small Beans are of luscious flavor. Fine sort for the kitchen garden. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk. (7 lbs.), 85c.; pk., \$1.60; bu., \$6.25

Pole or Running Beans

The Pole or Running varieties are tender and should be sown two weeks later than Bush Beans. They succeed best in sandy loam, which should be liberally enriched with manure. Two pounds will make 100 to 200 hills, according to size of the Beans.

Kentucky Wonder Wax

Quite similar to the Kentucky Wonder or Homestead Green Pod except in the color of pods, which in this one are light waxy yellow. It has a thick broad pod, very tender, of delicious flavor and stringless. The pods often attain a length of 8 to 9 inches. It begins bearing when the vines are only a few feet in height, hence its earliness, and, therefore a sort well adapted to maturing a crop where seasons are quite short. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 50c.; ½ pk. (7½ lbs.), \$1.40; pk., \$2.75.

Livingston's Royal Corn Bean

This is a fine green-podded snap Pole Bean; the pods are six to eight inches long. Stringless, very tender and delicious. Beans can be shelled green for Summer market, or left to ripen for dry Beans for Winter use. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 60c.

Kentucky Wonder or Old Homestead

An old favorite, with long, fleshy, deeply saddle-backed pods. Very prolific, producing an abundance of fine, stringless, crisp pods until late in the season. Of best quality. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 50c. By express, not paid, ½ pk. (7½ lbs.), \$1.20; pk., \$2.00; bu., \$7.50.

Lazy Wife—Pods 6 to 8 inches long, quite stringless; a good white Shell Bean for Winter. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 50c. By express, not paid, ½ pk. (7½ lbs.), \$1.10; pk., \$2.00; bu., \$7.50.

Powell's Prolific

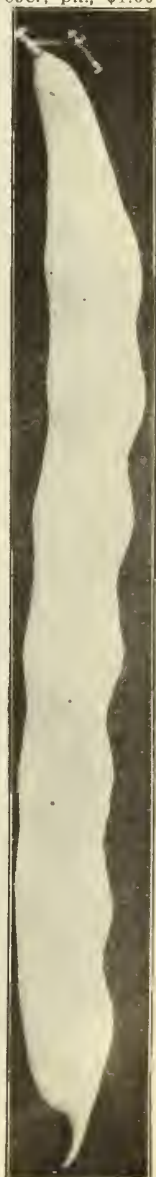
A most desirable green-podded Snap Bean. Bears profusely, is quite early, and continues until frost. Very strong grower, one plant filling a pole with a mass of vines densely loaded with handsome pods. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 50c. By express, not paid, ½ pk. (7½ lbs.), \$1.10; pk., \$2.00; bu., \$7.50.

Early Golden Cluster Wax—Splendid Snap Bean. Vines strong and hardy; very early and continues bearing until frost. Pods are golden yellow, stringless and tender. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 50c. By express, not paid, ½ pk. (7½ lbs.), \$1.35; pk., \$2.50.

Red Speckled Cut-Short—"Corn Hill." Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk. (7½ lbs.), \$1.25; pk., \$2.25.

Speckled Cranberry—Old "Bird Egg." Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk. (7½ lbs.) \$1.00; pk., \$1.85; bu., \$6.50.

See Novelty pages for other varieties.



Ky. Wonder Wax

Rote Ruben Garden Beets for Table Use Remolachas

Beets are one of our great specialties and we grow acres of them for seed at our Kirkersville farms, first growing the roots from seed; holding these over and then making a very careful selection of the roots in the Spring, when ready to plant. This we have been doing for years, which enables us to offer a very superior strain of Beet Seed.

The soil best suited for the culture of the Beet is that which is rather light, provided it is thoroughly mixed with manure. If wanted very early, sow in hotbeds and transplant; but for main crop sow in the Spring, as soon as the ground becomes fit to work, in drills 18 inches apart, $\frac{1}{2}$ inch deep. For Winter use, the Turnip varieties may be sown as late as June and the seed covered two inches. When the plants are 3 or 4 inches in height, thin out so that they stand 3 or 4 inches apart. Keep free from weeds by frequent hoeing and hand-weeding if necessary. Before freezing weather sets in the roots may be stored in cellars or pits, same as potatoes; dry earth thrown over them before the straw is put on insures their keeping over Winter. Do not bruise them in handling. **One ounce of seed will sow 50 feet of drill; 5 to 6 pounds to the acre.**

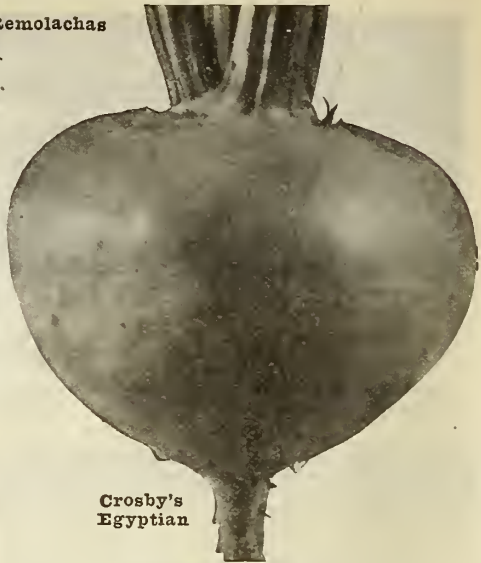
Crosby's Improved Egyptian Beet

A very superior beet. Of handsome form, good size, few small tops, very small tap root, fine quality and a rapid grower. The shape is very desirable, not quite so flat as the ordinary Egyptian, nor quite so round as the Eclipse. See illustration. Takes on its turnip shape and looks well in the very early stages of its growth, on which account it is preferred for first early crop to the Globe and Half-Long varieties. Being a rapid grower, it may be sown outside as late as July. We have made a very fine selection of our stock for years and we believe have it nearer the original Crosby idea than any one in the trade. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 45c.; lb., \$1.50.

Albert Schmidt, Philadelphia, writes: "Your Crosby's Egyptian Beet seed purchased from you were very early, and all that would be desired as far as eating was concerned."

Jay Carpenter, New York State, writes: "Those Crosby Beets were very fine. All about the same size, and the earliest I had."

W. C. Davis writes: "The Crosby's Egyptian Beet I got of you did excellently well for me. I raise nice Beets, good for market; sold at sight. Your seeds always prove good for me."



Crosby's
Egyptian

If seeds are wanted in larger quantities than listed herein, send for our Special Wholesale Price.

Crimson Globe

Root of medium size, very handsome, globe shape, and has a remarkably smooth surface. See illustration along side. Both the skin and flesh are deep, rich red, fine grained, sweet and tender in all stages of growth. Small tap root; leaves are small, dark green. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

Extra-Early Dark Red Egyptian

Very early, dark blood red, medium size, tender and sweet; fine for kitchen gardens. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 90c.

Extra-Early Eclipse

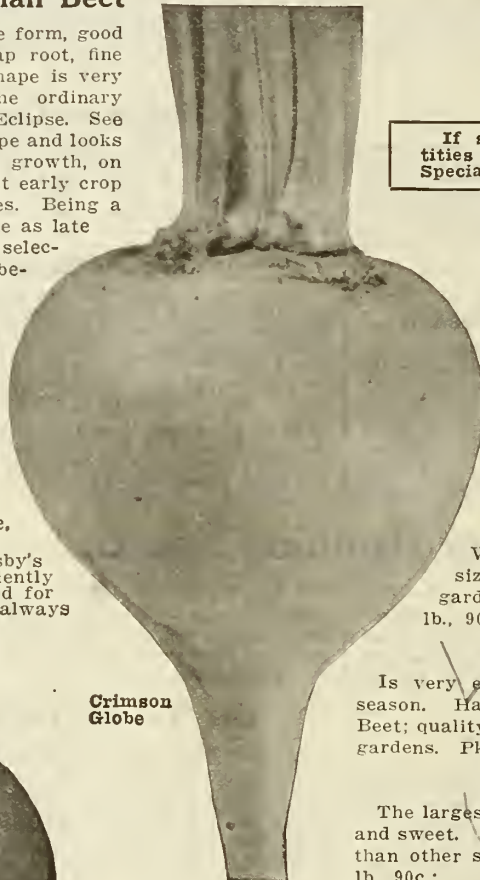
Is very early, and lasts well throughout the season. Handsome, smooth, dark, globe-shaped Beet; quality very desirable; good Beet for private gardens. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.15.

Bastain's Early

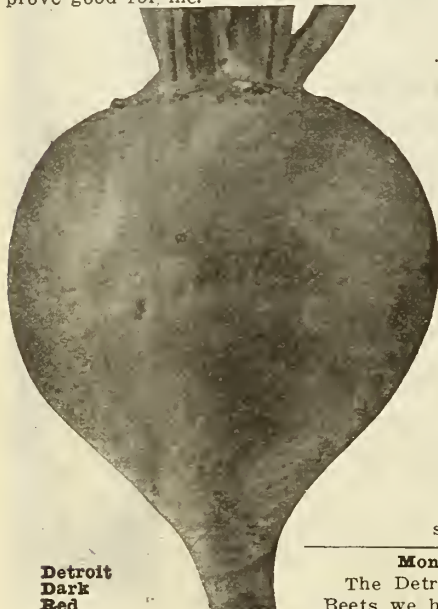
The largest of the turnip-shaped Beets. Tender and sweet. The flesh is somewhat lighter in color than other sorts. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 90c.;

Detroit Dark Red

This superb variety is one of the most popular red Turnip Beet, not only for market gardeners, but for home use. It is also one of the best for canning, making a strikingly handsome product, far superior to that obtained from any other variety. Its small top, early maturing and splendid shape and color have made it a favorite. Top small, upright growing, so that the rows may be close together; leaf stem and veins dark red, blade green; root globular and very smooth (see illustration); color of skin dark blood red; flesh deep, bright red, zoned with a darker shade, very crisp, tender and sweet, remaining so for a long time. Very uniform in shape, color and quality. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.



Crimson
Globe



Detroit
Dark
Red

Monroe Canning & Packing Co., Monroe County, Mich., Write Jan. 8, 1916:

The Detroit Dark Red Beet Seed purchased from you last season produced the finest Beets we have ever grown.

Garden Beets for Table Use (Continued)

Edmand's Blood Turnip

Very uniform. Root is always smooth, round and handsome; top small; of good marketable size and among the best for table use. Color dark red; crisp, tender and sweet; good keeper. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.

Howard H. Hoover, Oklahoma, writes: "The Edmund's Blood Turnip Beets were the finest I ever saw. They were smooth and large. All the seed obtained of you has been satisfactory."

Dewing's Improved Blood Turnip—The leading main crop variety. Roots always smooth, handsome, good size, tender and sweet. An enormous cropper. A favorite with marketmen. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Lentz's Early Blood Turnip—A great favorite with market gardeners around New York and Philadelphia. Of a rapid growth; fine form, exceedingly sweet and delicious. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.

Half-Long Blood Red—Of handsome shape, fine quality, quick growth; good for Winter use if planted late. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.

Long Dark Blood Red—A good keeper of good size, flesh dark blood red. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.

Swiss Chard or Spinach Beet

A peculiar variety of Beet, of which the leaves only are used. It does not make a large root, but the leaves are splendid "greens" when cut young, and are equally delicious when allowed to mature. The broad, white leaf-stalks or mid-ribs are cooked and served like Asparagus. Produces continually from July until Fall. Can be had throughout the Summer when Spinach cannot be grown. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.15.

Swiss Chard Lucullus

An improvement over the common variety. The plants grow from 2 to 2½ feet tall and consist, when fully developed, of about a dozen creamy white, attractively curled leaves. These leaves are carried on broad, thick stalks, about 12 inches long. **Take the leafy portion of the plant and cook it like Spinach. Prepare the stalks as you would Asparagus.** Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Mangel-Wurzels

An ever-increasing acreage is being planted to stock Beets, because of the wonderful results from feeding them. Fattening, breeding and milk cattle do equally well on them. About one-fourth of the daily rations should be of roots. Sow in rows 2½ to 3 feet apart as soon as the ground can be thoroughly worked. Cover seed about 1 inch, making ground firm over the seed. When 4 inches high, thin to 8 inches apart. **Six pounds sow one acre.**

Mammoth Long Red

Also called Norbiton Giant, Jumbo Mangel, Colossal, etc.—A favorite with the farmer and dairyman; large, well-formed; blood-red color; very nutritious; a big cropper. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c. By express, not paid, lb., 40c.; 10 lbs., \$3.75.

Golden Tankard

Very productive and sweet; flesh yellow; tops and neck very small; easily pulled. Especially relished by sheep and cows. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c. By express, not paid, lb., 40c.; 10 lbs., \$3.75.

Golden Giant Intermediate

Yellow Leviathan (or Mammoth Yellow)—Beautiful russet yellow; skin smooth; flesh white, firm, sweet; productive; easily pulled; good keeper. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c. By express, not paid, lb., 40c.; 5 lbs., \$1.75.

Yellow, or Orange Globe

Very productive; easily pulled; fine keeper; spherical shape; orange-yellow color. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c. By express, not paid, lb., 40c.; 5 lbs., \$1.75.

Sugar Beets

Sugar beets are not as heavy yielders as the Mangels, but contain a large amount of sugar. They are excellent for feeding cows.

Lane's Imperial

Especially good for stock feeding. Large, smooth, fine grained and very sweet. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Klein-Wanzleben

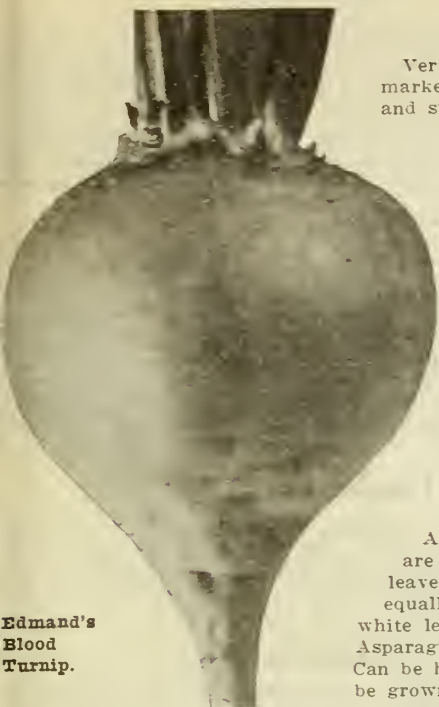
This splendid Sugar Beet is one of the **greatest milk-producing roots known.** The yield is not quite equal to Mangels, yet the feeding value is superior. Contains the greatest amount of sugar of any. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Giant Half-Sugar White

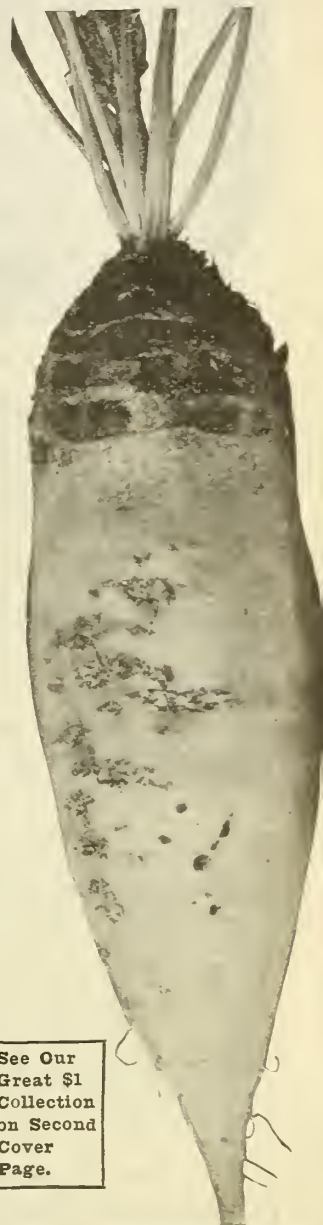
Yield nearly as much per acre as Mangel Wurzels, and the roots are of much higher nutritive value. Roots grow partly out of ground and are easily harvested. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c. By express, lb., 35c.; 10 lbs., \$3.00.

Giant Half-Sugar Rose

Similar to above, only rose colored. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c. By express, lb., 35c.; 10 lbs., \$3.00.



Edmand's
Blood
Turnip.



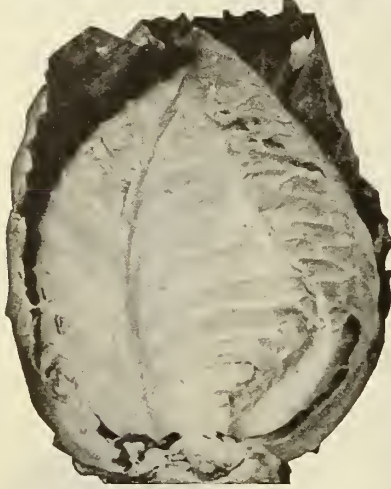
Giant Half Sugar

See Our
Great \$1
Collection
on Second
Cover
Page.

Col repollo Livingston's High-Bred Cabbage Seed Weisskraut

Cabbage requires deep, rich, mellow soil, high manuring and good culture to obtain fine, solid heads. For early use, sow seeds of the early kinds in the hot-beds or in a box in the house the last of January or early in February; transplant into the open ground in April, in rows 2 feet apart and 18 inches in the row; or sow a bed of seed outside as soon as the soil can be worked. Transplant in about four weeks. For second early Cabbage, sow in April and transplant in May. For late Cabbage, sow in May and transplant in July in rows 3 feet apart and 2 feet in the row. In transplanting, it is important that plants be set down to the first leaf, so that the stem may not be injured in case of frost. Be careful not to cover the heart of the plant. Hoe every week and stir the soil deep. As they advance in growth draw a little earth to the plants until they begin to head. To prevent splitting or bursting, go frequently over the ground and push every Cabbage that appears about to mature over sideways, which will break some of the roots and check its growth. To prevent attacks of the cabbage fly on small plants, dust thoroughly with plaster, air-slacked lime or wood ashes. For cabbage worm, try Hammond's Slug Shot. One ounce of seed produces about 2500 plants. Four ounces will grow enough plants to set an acre.

Chinese Cabbage (Pe Tsai), Celery-Cabbage, Odorless Cabbage, etc., see novelty pages.



Early Jersey Wakefield.

Early Jersey Wakefield

Many market gardeners consider this the **very best Early Cabbage** in cultivation. Certainly deserving of its great popularity. Grown extensively for market and shipping. Its merits are many, among which are large heads for an early sort, small outside foliage and uniformity of crop. Pyramidal in shape, having a blunted or rounded peak; very solid, fine texture and sweet. **The seed we offer is first-class, sure to give satisfaction.** Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

Large Charleston Wakefield

A selection from Early Jersey Wakefield, only it is about one week later than that popular early variety and grows much larger heads, often averaging 8 to 10 pounds. As solid as Early Winningstadt. There are immense quantities grown in the South for Northern markets. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

All Season (Vandergaw)

Greatly improved strain of Early Dwarf Flat Dutch. Heads very large, round, solid and of fine quality, keeping as well as the Winter sorts. Remarkable for its ability to stand hot sun and dry weather. Planted late—a choice Winter sort. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Glory of Enkhousen

It is very early and large, always extremely solid and fine ribbed—more so than any other kind. Once known, it will hold its own with the market gardeners and home growers alike. In our judgment it excels in flavor all varieties known to us. It is an exceedingly tender, fine grained, and as a cropper no early Cabbage will approach it. Planted side by side with Early Jersey Wakefield, under the same conditions, the former produced heads of marketable size five to six days earlier, and in size fully double that of the Early Jersey Wakefield. Glory of Enkhousen Cabbage is more solid and better flavored and keeps in fine condition much longer. It is very dwarf and compact, allowing of close planting. Heads fine, ball-shaped, and with few outside leaves. Size ideal for marketing. An extra good cropper on account of extra size over many other first early sorts. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Mrs. Nellie M. Manning, Hillsboro County, New Hampshire, writes May 2nd, 1916: "The seeds I ordered arrived safely and very promptly and they look like A-1 seeds. Am much pleased with all. Everything exactly as ordered. Thanks for free extras."

If Cabbage is wanted in larger quantity than quoted herein, ask for our Special Wholesale Prices.

Copenhagen Market

A splendid new extra-early round-headed sort which matures as early as the Wakefields and is of much larger size. Each plant forms a perfect, tightly folded head, averaging five to eight pounds in weight and about eight inches in diameter each way. The compact growth of the plant, the solidity of the head, its excellent flavor, and extreme earliness—all combine to make Copenhagen Market one of the most meritorious Cabbages that have come to our notice in a decade. See also page 5. Pkt., 10c.; ½ oz., 15c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.50.

Eureka First-Early

In comparison with Early Jersey Wakefield, Eureka First Early is heavier, hardier, earlier, and has flat head. Forms head fit for market 5 days earlier than Early Jersey Wakefield. Its shape and excellent table qualities make it a favorite with consumers. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Early Spring

As early as Early Jersey Wakefield. Will yield one-third more than any other extra-early Cabbage on same area. Plant 21 inches apart and you have 13,000 per acre. Has the peculiarity of heading firmly even before fully grown. Also flat-headed, making it valuable for extra-early market or home use. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

Early Winningstadt

(The Old Standby)—Well known and popular Cabbage. In season very close to Early Jersey Wakefield. Heads large, decidedly conical. Solid, even in Summer; almost worm-proof, because so hard. A very sure header. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Early Dwarf Flat Dutch

Excellent second early variety; producing fine, large heads. Highly valued for its fine quality and ability to resist heat. Heads very solid, broad, round, flattened on top, tender and fine-grained. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 70c.; lb., \$2.25.



Glory of Enkhousen

Cabbage (Continued)

All-Head Early

A thoroughbred sort of remarkably uniform size and shape and sure heading qualities. Deep, flat heads, solid and uniform in color, shape and size. In tenderness unsurpassed. For Winter use, sow in July. By reason of its compactness, 1000 more heads can be obtained from an acre than of many other good-sized varieties. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 70c.; lb., \$2.25.

Fottler's Short-Stem Brunswick

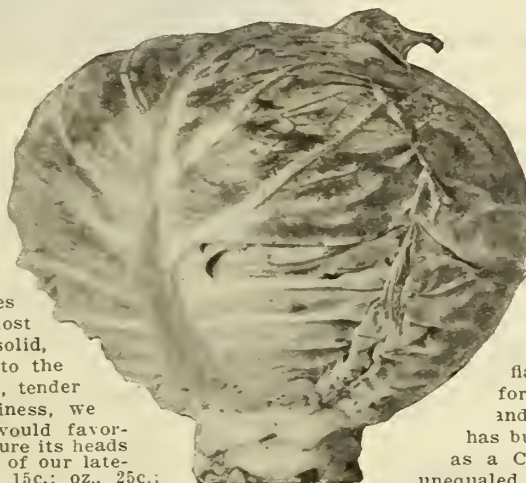
Rapid grower; large, solid heads, few outside leaves; planted early, is ready for use in July; planted late, is a choice Winter sort. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 65c.; lb., \$2.00.

Danish Summer Ball-Head Cabbage

In Danish Summer Ball-Head we have a variety coming between the Copenhagen Market and the regular type of Danish Ball-Head. The season of this new Cabbage is about the same as Henderson's Succession, it being a mid-season or Summer Cabbage, and the good things said about Copenhagen Market can be applied to this new Cabbage of true ball-head type. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 70c.; lb., \$2.25.

The Volga (No. 20)

This variety is of the greatest uniformity. In a field of several acres frequently not a single plant shows any variation from a true and valuable type. In some respects it is a vegetable wonder, as the heads are about equal in size and shape, weighing from 12 to 15 pounds each, round as a ball, the largest measuring about 12 inches in diameter either way. Unlike most varieties, the heads are perfectly solid, and the stem does not run up into the head; the flesh is exceedingly firm, tender and white. In respect to hardiness, we have never seen a type which would favorably compare. This type will mature its heads fully two weeks earlier than any of our late-growing kinds. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.



Volga



All-Head Early

Louisville Drumhead

About Cincinnati and Louisville it has been grown for more than 40 years. Heads very large and solid; a sure header; will stand without bursting almost the entire Summer. For Winter use, sow late in the season. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

Surehead

Very reliable header; large, round, flattened heads, and is remarkable for its certainty to head; good keeper and shipper. It is very sweet flavored, has but few loose leaves, keeps well, and, as a Cabbage for the kitchen garden, is unequalled. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 65c.; lb., \$2.00.

Henderson's Early Summer

About 10 days later than the Early Jersey Wakefield, but, being fully double the size, may be classed with best large Early Cabbages. Equal in weight to most of late varieties; may be planted nearly as close as Early Jersey Wakefield. Keeps long time without bursting. Heads round. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

Autumn King or World Beater

One of the finest strains of late Cabbage. It produces regular, even heads of enormous size; a great cropper on account of few outside leaves. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

Succession

About one week later than the Henderson's Early Summer, but nearly double the size, while it can be planted nearly as close, its outer leaves being unusually short. A very sure header. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.



Early Summer

Lee E. Chamberlain, Columbiana Co., O., writes, March 11, 1915: "Enclosed please find my order for seeds. I have always found your seeds gave me the best satisfaction, so that I come back every Spring."

Danish Ball-Head (Tall Stem)

Hard as a Rock—Heavy as Lead
Greatest Weight in Smallest Space

This splendid variety is well known for its remarkable solidity and grand keeping qualities. So great has been the demand among the users of Cabbage for this fine-grained sort as to render its importation from Denmark a most profitable enterprise for the vegetable dealer. The heads are very heavy and superb in quality. The extra weight, in limited space, will be appreciated by those who grow for distant markets, ship in car loads and sell by weight. This variety has been sold under a number of different names, such as "Hollander," "German Export," "Dutch Winter," etc., but the correct name is "**Danish Ball-Head.**" Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.00.

Danish Ball-Head (Short Stem)

The head is quite similar to the above, but has shorter stem. Less outer foliage and better able to resist blight. Stands hot weather better than the tall stem. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.00.

Large American Drumhead

A superior Fall and Winter variety; large heads. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

Livingston's Premium Flat Dutch

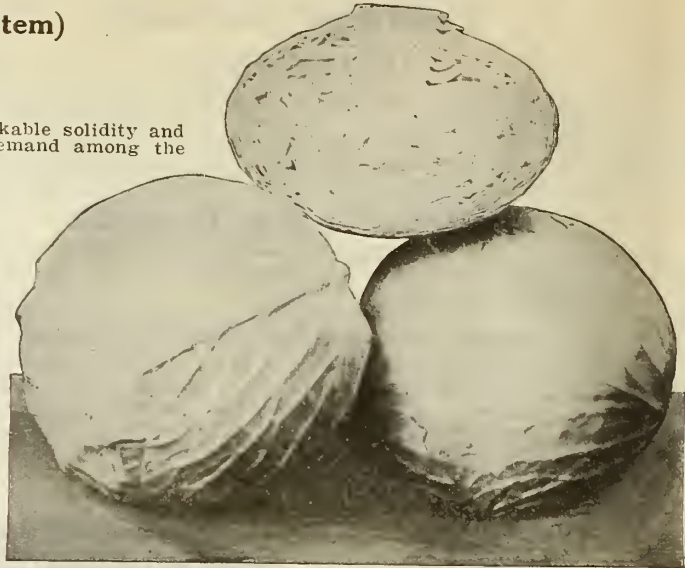
Years ago we set out to build up a strain of Large Late Flat Dutch Cabbage that would be better than any other on the market, and now we have it in our **Livingston's Premium Flat Dutch.** Our purpose has been to weed out every objectionable point, and to fix firmly every good quality. It produces many tons to the acre, because of its solidity and compact, snug manner of growth. Unlike most large sorts, it is solid to the heart. Our stock seed is always grown from heads (not from stalks after the heads are taken off), fully developed and perfect in every respect. This strain has no superior. **The heads are large and very solid; open white, are crisp and tender, and sure to head.** Grown largely by marketmen on account of its good shipping qualities. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 70c.; lb., \$2.25.

Livingston's Ideal Winter

(See illustration.) A few days earlier than Livingston's Premium Flat Dutch, and one of the most magnificent strains of Late Flat Dutch known today. By persistent selection, year after year, it has been brought to a state of perfection rarely attained. The large, solid heads, the low, short stems, the absence of useless foliage, uniformity of size and shape, reliability for heading, and long-continued selection mentioned above, all combine to make this the **Ideal Cabbage for profit.** Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.00.



Livingston's Ideal Winter



Danish Ball-Head Cabbage

Col de Milan Savoy Cabbages Wirsingkohl

The Savoy or Curly Cabbages are of exceptionally fine flavor and quality, and should be more generally cultivated. They are particularly adapted for private use, where quality rather than quantity is considered. Most delicious after frost.

Small Early Savoy

Best early dwarf Savoy; heads firm, solid, and beautifully crimped; finest quality. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Improved American Savoy

Superior to the ordinary Drumhead Savoy offered under different names. Heads large and finely curled; short stalk; a compact grower; sure header; keeps well. Best for main crop. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Repollo Colorado Red Cabbages Rotkraut

Danish Ironball (Red)

As round as a ball and as hard as iron—those are the two leading characteristics of this elegant new sort. Heads grow to a large size, averaging 8 inches in diameter, of rich purplish color throughout. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Extra-Early Blood Red Erfurt

Earliest and reddest. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 70c.; lb., \$2.25.

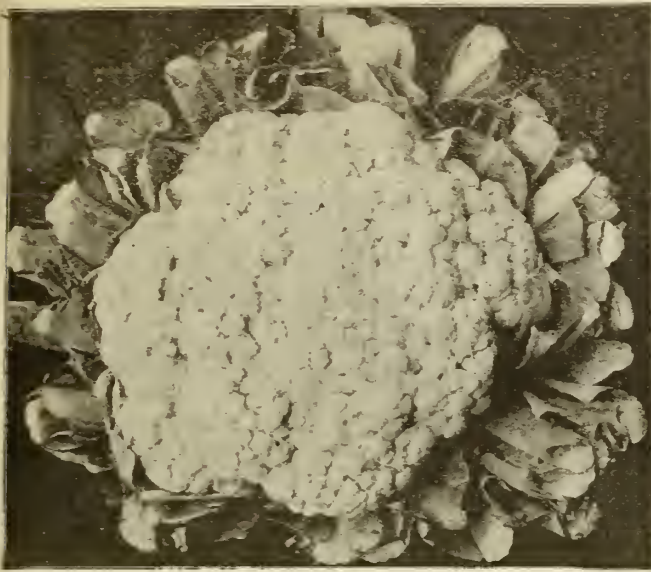
Mammoth Rock Red

Heads as large as Large Late Flat Dutch; deep red to center. Highly recommended. Hard as a rock. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75

Mr. Wm. Lynne, Logan County, Ohio, writes:—"The largest and best Cabbage ever raised was raised for late June market from Copenhagen Market Seed bought from Livingston's—heads weighing 18 lbs. All heads were the largest early Cabbages ever marketed here."

Mr. Alva Shearrow, Coshocton County, Ohio, writes February 22nd:—"I would like to say a word about your Seeds. I have been a user of them for two years and I think they are fine. I raised some of the largest Early Cabbage last year I ever saw. I weighed two heads, after I had trimmed the outside leaves off, and one of them weighed 10 lbs. and the other one weighed 9 lbs.—Early Jersey Wakefield."

From M. L. Budd, Fairfield County, Ohio, June 9, 1916:—"I have about 10,000 of the Danish Summer Ball Head Cabbage set out in black ground the last of May and it certainly shows up fine."



Livingston's Earliest Cauliflower

Dry-Weather Cauliflower

(Also known as **Danish Giant** and **Gilt-Edge**.) This is a fine, large, heavy variety that matures about a week later than Livingston's Earliest Cauliflower. It is especially adapted for growing in dry locations on account of its large leaves, which furnish greater protection to the heads. $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 75c.; $\frac{1}{2}$ oz., \$1.40; oz., \$2.50; $\frac{1}{4}$ lb., \$8.50.

Livingston's Green-House Forcer

For a great many years we have realized that a variety of Cauliflower that would grow in a small space, and, at the same time, combine all the good qualities of our best sorts would be greatly appreciated by every one who forces this vegetable under glass. Livingston's Green-House Forcer is unexcelled for this purpose. $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 85c.; oz., \$3.00.

Henderson's Early Snowball

One of the best types of Cauliflower on the market. Its compact habit of growth renders it a very profitable variety to force under glass, and it does well for late planting, as well as for early crops. It is a sure header. $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 75c.; $\frac{1}{2}$ oz., \$1.40; oz., \$2.50; $\frac{1}{4}$ lb., \$8.50.

From J. S. Leasure, Fulton Co., Ind., March 22, 1916:

"I have used the Livingston's True Blue Seed for 23 years, and have yet to get the first packet that failed to germinate or was not true to name."

Zanahorias Carrots Mohren

Sow in early Spring in drills 15 to 18 inches apart, finally thinning the plants to 3 or 4 inches. If sown early on a moist soil a half-inch is deep enough to cover the seed. The seed is slow to germinate. Keep clean by frequent hoeing and weeding. If neglected, the young plants are easily smothered, and the crop is lost. One ounce sows 100 feet of drill. Four ounces sow one acre.

Improved Danvers Half-Long

The best for general crop. Will yield the most per acre. Most profitable for market gardeners; stump-rooted. It is grown largely everywhere on account of its productiveness and adaptability to all classes of soils. Tops medium size, roots deep orange, large but of medium length tapering uniformly to a blunt point. Smooth and handsome flesh; sweet, crisp and tender. Although of medium length, it is one of the largest yielders. We take extra pains in the selection of our seed stock. It is second to none. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

Mrs. S. C. Williams, Washington County, Tennessee, writes, April 14th, 1916: "I received the package of seeds today. Am obliged for your promptness."

Improved Chantenay

A Popular and Profitable Sort to Raise for City Markets. It is about 6 inches long, thick through and decidedly stump-rooted. In size it is between the Oxheart and Danvers. The flesh is a deep orange red, fine-grained and of a splendid flavor. It is very early and always produces smooth, shapely roots. Its fine appearance finds for it a ready market; its splendid table qualities keep it in demand. Our strain of seed is unsurpassed. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

Mrs. A. G. Wisdom, Urbana County, Missouri, writes, February 27th, 1916: "This is our first seed order. My parents have been patrons of The Livingston Seed Company for thirty years."

Other varieties of Carrots on page 22.

Coliflor Cauliflowers Blumenkohl

Cauliflowers delight in a rich, moist soil, and in dry seasons should be abundantly watered, especially when heading. Sow the seed in the hotbed in January or February, and transplant the plants 2 or 3 inches apart in boxes or in another hotbed, until such time as they are safe to be planted in the open ground. Set the plants in the field 2 feet by 15 inches apart. If properly hardened off, they are seldom injured by being planted out too early. When heading, tie the outside leaves loosely over the head to protect it from the sun. One ounce produces from 1500 to 2000 plants.

Livingston's Earliest

Our grower in Denmark spares no pains or expense with this stock. For wintering in cold-frames it can not be excelled and it does equally well for a Fall crop if planted late and treated the same as late Cabbage. Livingston's Earliest Cauliflower should take the place of many of the late varieties on account of its fine texture, pure white heads, and large, uniform size. A most compact grower and a sure header. Market gardeners throughout the country are perfectly satisfied with it.

Price (under our True Blue Seal), $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 85c.; oz., \$3.00; $\frac{1}{4}$ lb., \$10.00.

Danish Perfection

It is similar in growth to Livingston's Earliest, but is even earlier, coming eight to ten days ahead of it, on the introducer's grounds. It is extremely uniform in type, the heads very solid and the introducers state that the leaves fold so closely about the head that it blanches finely with very little trouble on the part of the grower. $\frac{1}{2}$ size pkt., 15c.; pkt., 25c.; $\frac{1}{4}$ oz., 80c.; oz., \$2.75; $\frac{1}{4}$ lb., \$9.00.

Veitch's Autumn Giant—Heads are beautifully white, large, compact. Pkt., 10c.; $\frac{1}{4}$ oz., 25c.; oz., 50c.; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$5.50.

Extra-Early Dwarf Erfurt—Dwarf habit, compact growth; short outside leaves. Can be planted 20 inches apart. Pkt., 25c.; $\frac{1}{4}$ oz., 75c.; $\frac{1}{2}$ oz., \$1.40; oz., \$2.50; $\frac{1}{4}$ lb., \$8.50.

Large Late Algiers—Popular with canners and market gardeners. Ample foliage protects the heads well, which remain a long time fit for use. Pkt., 10c.; $\frac{1}{4}$ oz., 30c.; oz., 75c.; $\frac{1}{4}$ lb., \$2.00; lb., \$7.75.



Danvers

Carrots (Continued)

Improved Long Orange

The standard late variety; very handsome and uniform in shape; roots are of deep orange color, good flavor; yields very heavily. Requires a deep soil. Plants should stand 6 inches apart in 18-inch drills for roots to attain their full size. The roots are smooth, fine grained and very large, growing to 12 inches in length and 3 inches in diameter. For feeding milch cows it is very valuable, as it increases the flow of milk and imparts to the butter a rich golden hue. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.

Livingston's Early Market

A very choice strain. Tender, fine-grained flesh. An enormous producer; handsome, uniform stumped roots. Considered by many to be the best table Carrot, because of its quality and shape; free from core and of a deep golden yellow color. Can be sown very thick, and consequently well adapted for frame culture. A most excellent forcer. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Saint Valery, or Intermediate

A thick, intermediate smooth variety; an English sort. It very much resembles the Danvers Carrot in both general shape and size. The color is a rich orange red, and of fine flavor. The roots grow very uniform; a most desirable Carrot for private gardens or market purposes. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Earliest French Forcing

The earliest small round variety, much used for first early forcing in hot beds. Color reddish orange, and bunches very nicely; used largely for market, as well as kitchen garden. Quality the best. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Ole Nelson, Lee County, Iowa, writes, April 23, 1916: "I was very much pleased with your seeds; they all did just fine."



Golden Self-Blanching

Nantes Half-Long

(Stump-Rooted)—Sweet and fine flavored; almost without a core; very fine grained; excellent for the home garden or market. One of the finest in quality and handsomest in shape of the medium-sized sorts. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Early Scarlet Horn

For forcing and early garden use; flesh deep orange, fine grained; agreeable flavor; small top, stump rooted. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.40.

Oxheart, or Guerande

Intermediate length; is fully 3 to 5 inches in diameter; quality extra good. Some sorts require digging, but the Oxheart can be easily pulled. It is especially adapted to shallow soils, where the longer sorts would not thrive as well. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.

Carrots for Stock Feeding

Too much cannot be said in 'praise of the Carrot as a wholesome addition to the Winter feed for stock, apart from its great value as a vegetable for table use. The splendid roots make a most desirable change of feed for your cattle when given in connection with grain and dry fodder. Plant plenty of Carrots for all purposes. Ask for prices in largest quantities.

Improved Short White—Very large, half-long roots; pearly white. It is the heaviest cropper known. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Large White Belgian—Standard for field culture. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 55c.

Apio Choice Celery Seed Sellerie

One Ounce of Seed Produces 2,000 Plants. Cultural Leaflet Free to Customers

Celery Culture

Celery can be successfully grown with but little labor, in any good garden soil, by using plenty of well rotted manure with a liberal sprinkling of coarse salt worked into it, and this mixture should be put into the trenches, working it well into the soil, at least two weeks before the plants are transplanted into them. It delights, however, in low, moist, rich bottom land, or well-drained muck soil. It is usually grown as a second crop.

Golden Self-Blanching

This grand Celery is of French origin. It has the demand above all other sorts because of its many superb qualities. It has the same self-blanching habit as White Plume, but is much heavier and more compact, though not so early. Grows to good size, is very tender and free from strings, the heart large and solid, crisp, brittle, of excellent quality and very beautiful.

American Grown Seed from French Stock Seed—This has proven after repeated trials to be equal to French grown stock. Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.25; lb., \$4.50.

French Grown Seed—From one of our most careful growers. Pkt., 15c.; ¼ oz., 20c.; ½ oz., 35c.; oz., 75c.; ¼ lb., \$2.75; lb., \$10.00.

Livingston's Snowwhite

It is without a rival in purity of color; crisp, tender and of good size. In vigor of growth, ease of blanching, richness of flavor and beauty of stalk, "Snowwhite" is ideal. Single stalks sometimes weigh 2½ pounds and quite frequently 2 pounds. It grows solid on all kinds of soil and keeps better than a great many of the best standard varieties. We are pleased to announce that we have a good supply of this most excellent sort this season. See illustration in colors on fourth cover page. Pkt., 10c.; ½ oz., 25c.; oz., 45c.; ¼ lb., \$1.35; lb., \$4.50.

White Plume

Stalks and portions of the inner leaves and heart are so nearly white naturally that tying or simply drawing the soil up against the plants will complete the work of blanching. It is very ornamental. Early, of good flavor and fine texture; adapted to Fall and early Winter use; a good keeper up to the holiday season. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

From A. C. Early, Howard Co., Ind. (R. F. D. No. 4), Feb. 21, 1916.

"We received our seeds several days ago—the best, cleanest and brightest seeds we have seen for many years. The quantity, too, exceeded our expectations to such extent as to force us to enlarge our acreage devoted to vegetables.

"We shall be pleased to notify you of the results this Fall and to always speak for you to our friends.

"Thanking you for the booklets and for your interest in our welfare, I remain."

See novelty pages for Columbia Celery

Celery (Continued)

Giant Pascal

Forms solid, crisp stalks of incomparable flavor. Of strong growth, producing perfectly blanched stalks when hilled up properly. Of rich, nutty flavor. Blanching very easily and is very brittle. A fine keeper, an excellent shipper, retaining color and fresh appearance a long time. A favorite with Southern growers. For mid-Winter and early Spring use, it is excellent. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

Winter Queen

Of short, stocky growth, with broad, heavy stalks. An excellent variety for Winter use. When blanched, the stalks are of a creamy-white color and very attractive. Its flavor, crispness and long-keeping qualities combine to make this sort one of the best Winter varieties. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$1.75.

Boston Market

An excellent keeper; remarkably tender, crisp, solid. Best for light soils. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Evan's Triumph

A splendid long keeper of extra fine flavor. Healthy, strong grower, crisp and tender. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Dwarf Golden Heart

Solid; an excellent keeper and of fine, nutty flavor. Heart, which is large and full, is a light yellow. A showy and desirable variety for market. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

Giant Golden Heart

In quality, appearance and large size, it is one of the best. One of the best varieties for market gardeners. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Celeriac

Turnip-Rooted Celery

Sow seed the same way as for Celery. Transplant into rows 2 feet apart and 9 inches in the row. Thorough cultivation is necessary to secure good roots. Earthing up is not necessary. The roots may be cooked or used as salad.

Giant Smooth Frague—A large and smooth variety. Desirable for market; an excellent keeper; select stock. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.00.



Winter Queen

Corn Salad or Fetticus

A vegetable used as a salad. Sow the first opening of Spring in rows 1 foot apart and it is fit for use in six or eight weeks.

Large Leaved—Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Collards

A plant of the Cabbage family. It is well adapted to the South, enduring extreme heat; excellent for greens.

True Southern, or Georgia—Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Berro Cress or Pepper-Grass Kresse

A well-known pungent salad; can be used alone or with lettuce. Requires to be sown thickly (covering very lightly) at frequent intervals, to keep up a succession, as it soon runs to seed.

Water Cress

Well-known hardy perennial aquatic plant. Is easily grown along margins of ponds and streams, where it increases both by spreading of roots and seeding. Has a pleasant, pungent flavor. Growing Water Cress should prove a profitable enterprise where the conditions are favorable. Pkt., 10c.; ½ oz., 25c.; oz., 40c.

Extra Curled

(**Pepper Grass**)—May be cut two or three times. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

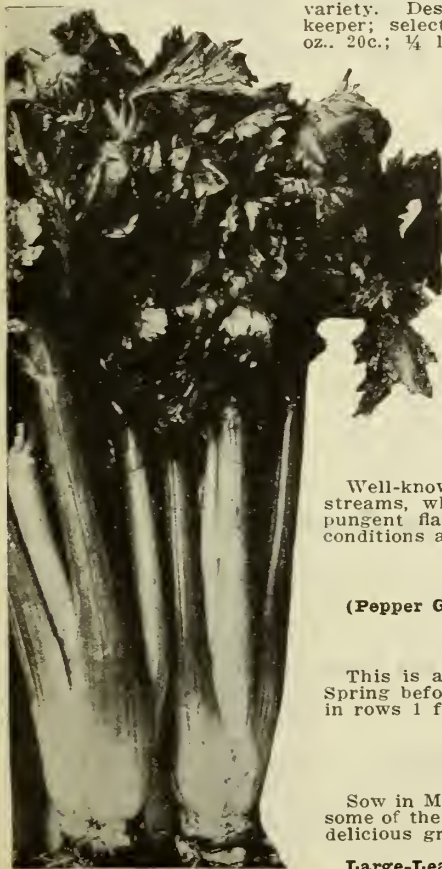
Upland Cress

This is a hardy perennial; stays green nearly the whole year; ready for use in the Spring before any other salad. Eaten like Lettuce or boiled like Spinach. Sow in April in rows 1 foot apart. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

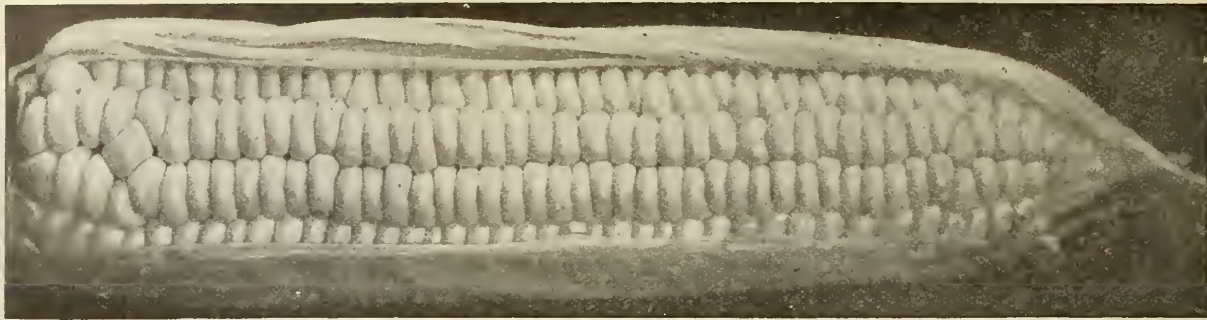
Dandelion

Sow in May or June, in warm, rich soil, in drills half an inch deep and 18 inches apart. Some of the plants will be ready for use in September, balance the following Spring. Make delicious greens. **One ounce will sow 150 feet of drill.**

Large-Leaved—Leaves fully double the size of the common Dandelion. Years of the most careful cultivation have developed a very fine strain of seed. Pkt., 10c.; ½ oz., 25c.; oz., 40c.; ¼ lb., \$1.25.



Giant Pascal



Extra Early Premo

Maiz dulce **Corn, Sweet or Sugar** Speise Mais

The Sweet or Sugar Corn Varieties, being liable to rot in cold or wet ground, should not be planted until May, or when the soil has become warm and dry. For a full supply for the table during the entire season, plant every ten days or two weeks until the last week in July, in hills 2x3 feet apart for the early kinds, and 3x3 feet for the large late sorts. Some plant in rows 3½ feet apart and 8 inches apart in the rows. Give frequent and thorough cultivation all the season. **Two pounds of seed corn plants 200 to 300 hills; 15 to 18 pounds will sow an acre.**

SWEEN CORN PRICES in quantities up to and including 2 pounds include prepayment of postage. If the larger quantities are wanted sent by mail, it will be necessary to remit additional amount at the Parcel Post rates. Refer to page 3 for rates.

Extra-Early Premo

(See Illustration.) A "sixty-day" Sweet Corn that combines all the merits of the leading varieties, and is superior to many of them in size, quality and yield. Premo can be planted fully as early as the Adams, for the young plants withstand slight frosts, while the other varieties are tender. The stalks grow about 5 feet high, and are very vigorous, generally bearing two well-developed ears to the stalk. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (6 lbs.) 60c.; pk., \$1.10; bu., \$3.75.

Peep-O'-Day

The stalks of Peep-o'-Day Corn grow from 3½ to 4½ feet high and bear from 2 to 3 ears each. The foliage is light green and being small, stalks will stand very close planting. Have the rows just far enough apart to admit of thorough cultivation. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 40c. By express, not paid, ½ pk., (6 lbs.) 60c.; pk., \$1.10; bu., \$3.50.

Extra-Early Adams—Same size, type and style as next below. Hardest and earliest Corn. It is not a Sugar Corn, but is grown for early use. Ears short; kernels very white. Pkt., 5c.; lb., 10c.; 2 lbs., 20c. By express, not paid, ½ pk., (7 lbs.) 60c.; pk., \$1.00; bu., \$3.50.

Early Adams—Similar to Extra-Early Adams; ear somewhat larger, but not quite so early; is good for early table use. Like the above, is hardy, and can be planted early. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 40c. By express, not paid, ½ pk., (7 lbs.) 60c.; pk., \$1.00; bu., \$3.50.

Mammoth White Cory—This new strain is as early as the original Extra-Early Cory, with ears of larger size, and kernels more compact. Cob and kernel are pure white. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (6 lbs.) 60c.; pk., \$1.10; bu., \$3.75.

Extra-Early Cory—Red Cob—One of the earliest varieties. Large ears, considering size of stalk; small red cob, well filled up with handsome and very sweet kernels. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 40c. By express, not paid, ½ pk., (6 lbs.) 60c.; pk., \$1.00; bu., \$3.50.

Extra-Early Cory—White Cob—Identical with Extra-Early Cory, except color; the cobs are white. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (6 lbs.) 60c.; pk., \$1.10; bu., \$3.75.

Shaker's Early—This fine Corn is a splendid market variety, being large and well formed. It comes in a little later than the "first earlies," being a good variety to plant for mid-season. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 40c. By express, not paid, ½ pk., (6 lbs.) 55c.; pk., 90c.; bu., \$3.25.

Early Minnesota—White cob and kernels. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (6 lbs.) 60c.; pk., \$1.10; bu., \$3.75.

(Mr. H. L. Wright, Fayette Co., Ky., Aug. 25, 1916.)

"I gave you a name for straight dealing to a party some time ago. I told them I had been buying from you for fifteen years, and I had never got a bill of seeds yet that did not come true to name."

See novelty pages for other varieties.

Kendel's Early Giant

The ears are large, measuring 8 to 9 inches long, thick through; with ten or more rows of plump and purest white kernels, that are of most deliciously sweet flavor. It is several days earlier than Shaker's Early, which gives it the distinction of being an early and at the same time a large-earred variety. Gardeners report this Sweet Corn ready to use in sixty days when grown on sandy soil, and in seventy-two days on heavy ground. Owing to our skillful selection year after year, Kendal's Early Giant has become a much more valuable sort than when first introduced. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (6 lbs.) 65c.; pk., \$1.15; bu., \$4.25.

Early Evergreen

An early strain of Evergreen Sweet Corn must be of great value. This variety resembles the Stowell's Evergreen, but is ready for use much earlier, and remains in good condition equally as long. The ears grow to a good size, usually about 7 inches long, and contain from 16 to 18 rows of deep, sweet grains. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (6 lbs.) \$1.10; pk., \$1.90; bu., \$7.00.

Livingston's Broad-Grained**Very Broad and Sweet**

For a number of years this variety has been closely selected to produce the broadest possible grains, and at the same time to retain its depth of grain and splendid quality. The grains are simply enormous when in the roasting ear stage. For those who enjoy running a knife blade down through the rows of grains before eating, Livingston's Broad-Grained Sweet Corn is unexcelled; there is no dodging of the knife about these big grains. The ears are of eight-rowed type and 7 or 8 inches long. It matures very soon after the Extra-Early varieties. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk., (6 lbs.) 65c.; pk., \$1.15; bu., \$4.00.

"4 Best" Sweet Corns for Home Gardens

This collection will supply the table continuously throughout the entire season: **Peep-o'-Day** (extra early), **Columbus Market** (early), **Country Gentleman** (main crop), **New White Evergreen** (late). One large pkt. each of above, 15c.; ½ lb., each, 45c.; 1 lb. of each, 65c., postpaid.

Sweet Corn for Fodder

Sow thickly in drills or broadcast at the rate of 2 to 3 bushels per acre. Express, not paid, pk., 85c.; bu., \$3.00.

Mrs. C. F. Kirkpatrick, Vermilion County, Illinois, writes February 28th, 1916: "I will send you some of my neighbors' names as they have been asking me where I got my garden seeds, for I raise such fine onions, cabbage and other vegetables. I sure like your garden seeds and have won several premiums at the town fair with my vegetables."

Wholesale prices on larger quantities of Sweet Corn on request.

Sweet Corn (Continued)

Narrow Grained Evergreen

A selection of Stowell's Evergreen retaining its large size and productiveness and adding the delicious sweetness of Country Gentleman. There will be less trouble for the canners to get the farmer to grow Narrow Grained Evergreen on account of increased yield. The Market Gardener should find ready sale for this large, medium late sort. We believe our stock of it will be found superior to much that is offered. We intend growing it on our own farms, making very careful selections of planting stocks each season. Get started raising some of this variety this season. You will be pleased. Pkt., 10c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 60c. By express, not paid, ½ pk., (6 lbs.) \$1.60; pk., \$3.00; bu., \$11.00.

Livingston's Evergreen (Red Cob)

Our old original variety, introduced by us in 1860, and now a general favorite for family use, as well as market purposes. It is a first-class second-early sort. Productive, large, well-filled ears, with broad kernels and small cob, filled well over tip. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 40c. By express, not paid, ½ pk. (6 lbs.), 60c.; pk., \$1.00; bu., \$3.50.

Livingston's Evergreen (White Cob)

This is our old Livingston's Evergreen (described above), with a white cob. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 40c. By express, not paid, ½ pk. (6 lbs.), 60c.; pk., \$1.00; bu., \$3.50.

Columbus Market

Ready for table with the second earlies, such as Crosby's Early, Shaker's Early, etc., but is fully twice as large as any of them. The ears carry an average of 16 rows of fine large, deep, white and very sweet grains, which are second to none in tenderness and flavor. The stalk is very strong, sturdy and of only medium height; the leaves broad and dark green in color, a habit of growth which gives it great endurance during a dry time. Especially adapted for early trucking; also very desirable for the home garden. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk. (6 lbs.), 65c.; pk., \$1.10; bu., \$4.00.

Stowell's Evergreen

A favorite with canners and market gardeners for late use, and especially for the kitchen garden. Ears large, kernels, very deep, tender and of most delicious sweetness; very productive. Pkt., 10c.; ½ lb., 20c.; lb., 40c.; 2 lbs., 75c. By express, not paid, ½ pk., (6 lbs.) \$1.75; pk., \$3.25; bu., \$12.00.

White Evergreen

This is a high-bred, pure-white type of the ever-popular Stowell's Evergreen. From one pure white-grained ear, accidentally discovered some years ago, it has developed by careful selection. Stalks very vigorous, 6 to 7 feet high. The ears are uniformly very large and well filled. When in the green state both cob and kernel are white as snow. Pkt., 10c.; ½ lb., 20c.; lb., 40c.; 2 lbs., 75c. By express, not paid, ½ pk., (6 lbs.) \$1.75; pk., \$3.25; bu., \$12.00.

Country Gentleman

One of the Richest Flavored of all the late varieties. As a table Corn this variety stands unrivaled, and without doubt is the most luscious of all varieties of Sweet Corn. The plump, pearly-white kernels are of great depth, most delicious, and the flavor will delight an epicure. We have selected this sort for many years and are especially proud of our strain. It comes as true to type as any we have ever seen. Ears average 9 inches long by 2 inches in diameter and are typical "shoe-peg" appearance. Pkt., 10c.; ½ lb., 30c.; lb., 55c.; 2 lbs., \$1.00. By express, not paid, ½ pk., (6 lbs.) \$2.40; pk., \$4.25; bu., \$16.00.

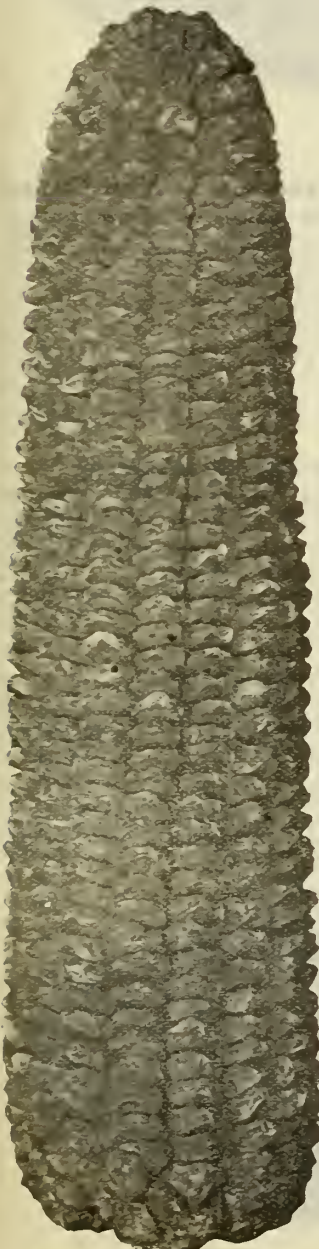
Mammoth Late Sugar

Produces larger ears than any other Sugar Corn, and of good quality; a rich and very sweet late variety. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 50c. By express, not paid, ½ pk., (6 lbs.) \$1.40; pk., \$2.50; bu., \$9.00.

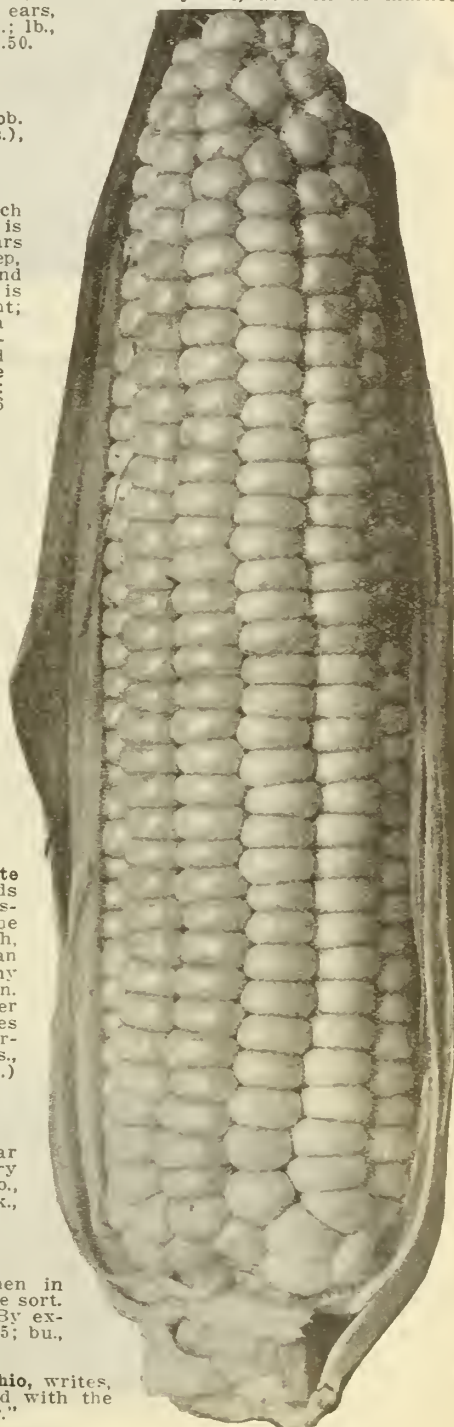
Black Mexican

One of the sweetest varieties; color when in roasting ear, purple and white; also a fine late sort. Pkt., 5c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 45c. By express, not paid, ½ pk. (6 lbs.), 65c.; pk., \$1.15; bu., \$4.00.

Mr. Wm. H. Reisling, Jefferson County, Ohio, writes, February 23d, 1916: "I am decidedly pleased with the prompt and careful attention given my order."



Narrow Grained Evergreen



Columbus Market

See novelty pages for other varieties.

Livingston's Select Cucumber Seeds



Livingston's Select Extra-Early White Spine

How to Grow Cucumbers

As soon as the weather has become settled and warm, plant in hills 4 to 6 feet apart each way, with 8 to 10 seeds in a hill; cover one-half an inch deep, smoothing the hill off with the hoe. When the plants are out of danger of insects, thin out to three or four plants to a hill. The seed may also be sown in rows 6 feet apart, with the seed every few inches in the row. When danger from bugs is past, they must be thinned out to 3 or 4 feet apart. This latter way of planting insures a good "stand," as the bugs cannot take all of them. Four or five moth balls placed in a dish or pan and set close to the hill, are said to drive away bugs. For pickles, plant from 1st of June to 1st of August. The fruit should be gathered when large enough for pickling, whether required for use or not, as, if left to ripen on the vines, it destroys their productiveness. Cucumbers forced under glass turn yellow quickly; sometimes from over-feeding; and often from the use of manures that are quick acting; on this account cow manure is preferred to horse manure. **One ounce of seed will plant about 50 hills; one to two pounds to the acre.**

Livingston's Selected Davis Perfect

By using this variety gardeners can produce out-of-door Cucumbers that will sell in the market for hothouse forcing varieties. The shape is ideal. It is almost seedless one-third of its length from the stem, and the few seeds that are contained in its blossom end when in eating condition are so small and tender that they are hardly noticeable. Most important of all, it does not lose its dark, rich color when grown outdoors. It is hard to tell the difference between it and a hothouse cucumber. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Klondike

Excellent strain of White Spine, remarkable for the uniformly dark green skin of its shapely fruits. Popular with Southern planters for shipping to the Northern markets. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Livingston's Select Extra-Early White Spine

This private strain we have had over thirty years, and it is the most thoroughbred, uniform and shapely variety known, not only for first early, but for general crop as well.

Excels in earliness, often ready for slicing when other sorts are only pickles. In purity it is unequalled. Vines are vigorous growers. The very best for slicing, and make choice pickles, straight and smooth; a great bearer; keeps green much longer than the yellow varieties; no sort excels it in crispness and flavor. Every market gardener knows how difficult it is to secure pure cucumber seed, and as this sort is remarkably free from mixture we are sure it will be quickly appreciated. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.



Livingston's Evergreen Pickling

(Introduced by us in 1890.) Generally admitted to possess every qualification required in a perfect pickling Cucumber. Exceptionally productive. One grower says it bears "four to one," compared with many standard sorts. It is a very strong grower, extra-early and bears firm, crisp fruits, which are excellent for slicing also. We devote the greatest care to the selection of this seed stock. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Early Fortune

A fine new variety of White Spine type; the fruit is of uniform size and shape and is of very firm texture, thus permitting long distance shipping. The skin, which is dark green, holds its color remarkably well and therefore remains in slicing condition longer than some of the other standard sorts. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Cumberland — Is of the hardy, White Spine type. The pickles differ from all other hardy sorts in being thickly set with fine spines over almost the entire surface. During the whole period of growth the form is very straight and symmetrical, thus being as choice for slicing as for pickles. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.



Livingston's Selected Davis' Perfect Cucumber



Livingston's Emerald

Improved Long Green

(See illustration below.) The vines are very strong growing and productive. The fruits are quite long, averaging 10 to 12 inches in length. This sort is very popular both as a slicer and for pickles. One of the best general purpose Cucumbers. **Extra choice stock grown on our own farms**—Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Westerfield Chicago Pickling—Popular with Chicago gardeners. Medium length, slightly pointed at ends; very large; prominent spines; deep green. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Jersey Pickling—Intermediate between Long and Short Green. Long, slender, cylindrical; crisp and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Green Prolific, or Boston Pickling—Of uniform growth, seldom too large for pickling; immensely productive. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.15.

Extra-Long, or Evergreen White Spine—Averages longer than other strains. Extra fine shape and quality; makes a good pickle; used extensively for growing under glass. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Arlington Improved White Spine—For market use and pickling it is superior to the old White Spine. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Extra-Early Russian—Small, extra-early, hardy; productive, good for small pickles. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Frame and Forcing Cucumbers

Used in greenhouse growing, for which they are especially adapted.

Rawson's Hothouse

A very fine strain of Cucumbers for forcing. It is an improvement on the White Spine, the fruit being about two inches longer and darker green in color. Pkt., 10c.; ½ oz., 25c.; oz., 45c.; ¼ lb., \$1.35; lb., \$5.00.

The "Vickery" Forcing

A very fine strain of the White Spine type; is longer than the ordinary White Spine and holds its rich, dark green color well down to the blossom end; immense cropper. A choice variety for hothouse growers; also hard to excel for out-door cultivation. Pkt., 10c.; ½ oz., 25c.; oz., 45c.; ¼ lb., \$1.35; lb., \$5.00.

Bollison's Telegraph—Grows about 18 inches long; bright green, and is almost seedless. Pkt. of 15 seeds, 25c.

Livingston's Emerald

(Introduced by us in 1897)—We were eight years in perfecting this variety, which represents a **dark-green Cucumber that will hold its color. It is strictly an evergreen**, retaining its color until quite ripe, making it very attractive. The plant sets early, and its vigorous vines abound in long, straight, handsome fruits of the most desirable qualities. **As a slicer the flesh is perfectly crisp and tender, and the flavor most pleasing.** The young fruit is dark green, straight, slender and almost spineless; makes an excellent pickle, and when ripe none excel it for making sweet pickles. It is not excelled for beauty in color and form. Excellent shipping variety. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Early Frame, or Short Green—A popular early variety of medium size and good shape; good for small pickles. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Nichol's Medium Green—Introduced by us in 1883. Color dark green; flesh crisp and tender; medium size; straight and smooth; a real handsome and prolific variety. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Early Green Cluster—Short and prickly; bearing in clusters; prolific; fine for bottling. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Cool and Crisp—The beautiful green color is all that can be desired. Excellent for pickling or slicing. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Curious Cucumbers

Serpent, or Snake Cucumber—A great curiosity. Interesting for children or for exhibition. The Cucumbers grow curled up like a snake, with head protruding; sometimes several feet in length. Pkt., 10c.; ½ oz., 15c.; oz., 25c.

Gherkins (True West India)—Used only for pickles. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

"Lemon" Cucumber—A new and desirable variety, having a strong resemblance to a lemon in its size, shape and color. It has a thin skin. The crispness, tenderness and sweetness are all that could be desired, and it seems to lack the bitterness of the common Cucumber. Pick just as it turns yellow. Pkt., 10c.; ½ oz., 15c.; oz., 25c.

Japanese Climbing—Vines extra strong; being a climbing sort, can be grown on trellises or other supports; valuable in small gardens. Very prolific, from 40 to 50 fruits having been counted on single plants. The Cucumbers are long and of fine flavor. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.



Improved Long Green



Livingston's Mammoth Purple Egg Plant

Berenjena **Egg-Plant** Eierpflanze

Sow seeds in hotbed or warm greenhouse in March or early in April; if no hotbed is at hand, they may be grown in any light room where the temperature will average 75 degrees. When plants are two inches high, or have formed two rough leaves, transplant them into beds and set 3 or 4 inches apart. Keep beds closed and very warm, shading from direct rays of the sun and giving an abundance of water until the ground is warm and all danger from frost and cold nights is past; then harden the plants by gradual exposure to the sun and air, and increase the supply of water; transplant to the open ground late in May or June, into warm, rich soil, 2 to 3 feet apart each way, according to the richness of the ground. When about a foot high, draw the earth up to the stems. Care should be used in cutting the fruit so as not to disturb the roots of the plants. **One ounce of seed produces about 1000 plants.**

Livingston's Mammoth Purple

(See illustration above of typical fruits grown on "True Blue" trial grounds.)

This splendid variety we have obtained by years of the most careful selection and extra cultivation, beginning with a true strain of New York Improved Large Purple. We now have the finest strain of Mammoth Purple Egg Plant obtainable. It is quite early for such a large sort, a sure cropper, and entirely spineless. The plants are large, vigorous and very productive. The fruit is uniform in color and shape, very large, usually 6 to 8 inches in diameter, but sometimes specimens are grown measuring 10 inches. Skin a handsome dark purple, smooth and glossy. Flesh white, of superior quality. **Selected Seed**—Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.10; lb., \$3.75.

Black Beauty

From ten days to two weeks earlier than the purple varieties, and of rich, lustrous, purplish black color, and is a distinct sort and a favorite where known. The plants are remarkably healthy in their growth and yield an abundance of large fruits. The fruit is very attractive in appearance. This variety is entirely spineless. Quality the very best. Pkt., 10c.; ½ oz., 25c.; oz., 45c.; ¼ lb., \$1.35; lb., \$4.50.

New York Improved Large Purple

A leading variety; fruit very large, oval-shaped, smooth, deep purple, flesh white and of good quality. The seed we offer is a very fine strain of this popular sort. Pkt., 10c.; ½ oz., 15c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.50.

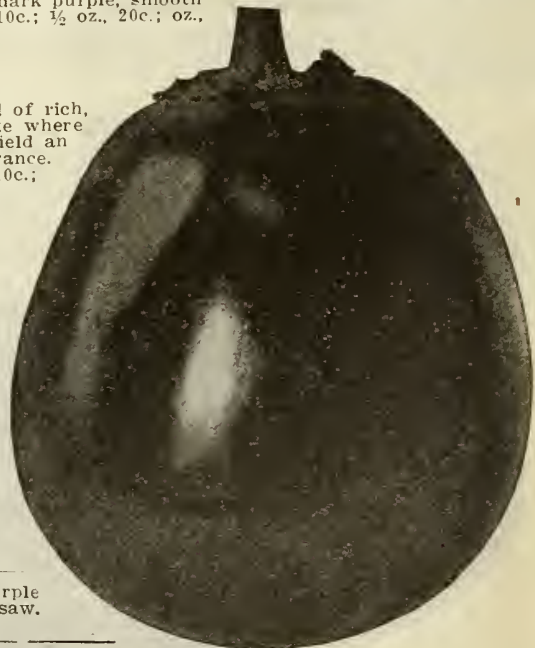
Florida High Bush

A large fruited purple sort; very popular with Southern growers. Fruit is held well up off the ground. A splendid shipper and finds ready sale. The plant is vigorous, quite productive, drought resisting and stands wet weather well. Pkt., 10c.; ½ oz., 15c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.50.

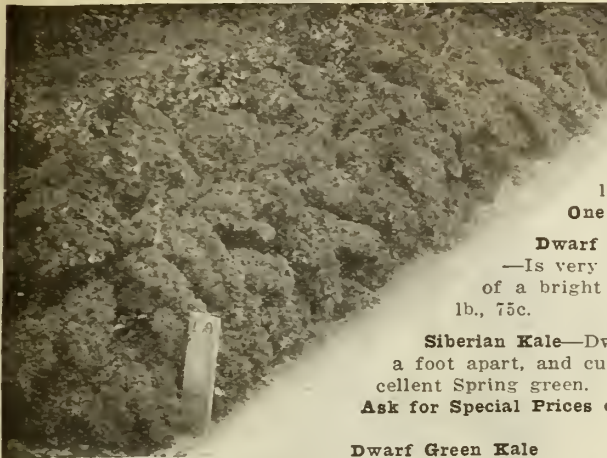
Mr. E. Bushyager, Pennsylvania, writes: "I took first premium on Egg Plants grown from your seed, weighing over four pounds, and no special effort made to grow them. They were still growing when cut."

Mr. A. J. Goddard, Florida, writes: "I planted your Mammoth Purple Egg Plant last season. They were the finest Egg Plant I ever saw. Every fruit a beauty and of large size."

W. J. Hodges, Henry County, Iowa, writes: "We have bought your seeds for many years with unvarying satisfaction."



Florida High Bush



Dwarf Green Kale
Growing in Our Trial Grounds

Kale, or Borecole

Breton Blatterkohl

Kale, or German Greens, do not form heads, but furnish an abundance of pretty curled leaves that are highly prized as food. Sow from the middle of April to the beginning of May; transplant and cultivate like Cabbage. Will endure considerable frost without injury. One ounce of seed sows 200 feet of drill. 4 pounds sow an acre.

Dwarf Green Curled, German Greens, or Sprouts. (See illustration)
—Is very dwarf and spreading. The leaves are beautifully curled and of a bright green color. Quite hardy. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Siberian Kale—Dwarf growth, bluish green leaves. Sow in September in rows a foot apart, and cultivate the same as Spinach; very hardy and makes an excellent Spring green. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.
Ask for Special Prices on Large Quantities of Kale Seed.

Herbs

Sweet Pot, Culinary, and Medicinal

Herbs delight in a rich, mellow soil. Sow in early Spring in shallow drills 1 foot apart; cover lightly with fine soil, and when up a few inches thin out, or transplant into prepared beds. Care should be taken to harvest properly. Do this on a dry day, just before they come into full blossom; dry quickly in the shade, pack closely in bottles or dry boxes to exclude the air. Varieties in the list marked with an (*) are perennials.

	Pkt.	Oz.		Pkt.	Oz.
Anise	5c	10c	*Rosemary	5c	35c
*Balm	5c	20c	*Rue	5c	15c
*Caraway, lb., 75c.	5c	10c	Saffron	5c	15c
*Catnip, or Catmint	5c	30c	Summer Savory...	5c	20c
*Coriander, lb., 60c.	5c	10c	Sweet Basil.....	5c	15c
*Fennel, Sweet.....	5c	10c	Sweet Marjoram..	5c	20c
*Horehound.....	5c	20c	*Thyme	5c	35c
*Lavender, Sweet...	5c	20c	*Wormwood	5c	25c

Dill—This herb is used in large quantities in the making of Dill Pickles; also for flavoring vinegar. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Sage—Sow in rich ground and thin out the plants to stand 15 inches apart. Used for flavorings and dressings. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

Kohl Rabi, (Turnip-Rooted Cabbage)

Col rabano o Nabicol

Kohlrabi

When young and tender they are fine for table use; when matured, they keep splendidly and are excellent for feeding stock. For early use, sow in hotbed, transplant and cultivate like Early Cabbage. For Winter use, plant the middle of June or first of July outdoors in rows 18 inches apart, transplanting or thinning out to 8 inches apart in the rows. One ounce of seed sows 200 feet of drill.

Earliest White Vienna—Greenish white outside, with clear white flesh within. Smooth, short leaf; good for forcing; fine in quality. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

Earliest Purple Vienna—Same in every respect as the Earliest White Vienna, except in the outside color. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.25.

Fuero Leeks Porree oder Lauch

Broad Scotch, or London Flag—A hardy kind; large strong plants with broad leaves. Cultivation the same as for Onions. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Large Musselburgh (Carentan or Scotch Champion)—Favorite market sort of enormous size; large broad leaves; flavor is very mild. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

Endivien Salat Endive Endibia o Escarola

For an early crop, sow in April in drills 15 inches apart, and later thin the plants to stand 12 inches apart in the row. The main sowings are made in June and July. When nearly full grown, gather up the leaves and tie them by their tips to blanch them. One ounce of seed will sow 150 feet of drill.

Fine Green Curled—Hardest variety; the most desirable for home use or market garden. Deep green leaves, beautifully cut and curled; easily blanched. (See illustration.) Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Large Green Curled—A hardy, vigorous growing variety with bright deep green leaves. The dense mass of deeply divided leaves formed in the center blanches very readily to rich creamy white. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Broad Leaved Batavian—Broad, thick and slightly wrinkled leaves; form very large heads, which are much used in soups. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Gourds

Gourds are listed in Flower Seed pages.

Miss Lenore Markley, Morrow County, Ohio, writes, February 28th, 1916: "I have used the 'True Blue' Seeds, both Flowers and Vegetables, for several years, and think they are the best ever, as when I order them I am sure I am getting something that is sure to grow and be true to name."

Mr. James M. Monroe, Shelby County, Ohio, writes, February 3rd, 1916: "I have been dealing with your firm for thirty-five years, and have found all seeds to grow true to name and very productive."



Endive—Fine Green Curled

Lechuga Livingston's Superior Lettuce Seed Salat

One Ounce Will Produce About 3,000 Plants

For early Spring use, sow in a seed bed in September or October, and protect through the Winter in cold-frames, or in the South with leaves or litter; or sow in a hot-bed in early Spring. Lettuce plants may also be started very successfully in the house in boxes which are about 4 inches deep. Make soil very fine and firm. Mark off into rows 2 inches apart and $\frac{1}{4}$ inch deep, into which sow the seed quite thinly; cover with blotting or brown paper fitted into the top of the box. First saturate the paper with water and keep moist until the seed germinates; then remove. Expose the young plants gradually to the light. As soon as the ground outside is dry and warm so that it can be well worked, set out the plants 8 inches apart in the rows. For a later supply, sow seeds in the garden every two weeks from the middle of April until July, choosing varieties according to their heat-resisting qualities. Sow very thinly in rows 18 inches apart, covering seed $\frac{1}{4}$ inch deep with fine soil, and when well up thin to 12 inches apart in the rows. One ounce of seed sows 100 square feet; plants 120 feet of row; produces 3,000 plants.

Selected Grand Rapids

Especially adapted for greenhouse culture in Winter; also a good Lettuce to sow outside early in the Spring for family use. It does not form a head, but makes large, compact bunches of light, attractively curled and fringed leaves. It grows very rapidly and keeps in good marketable condition for a long time after cutting. We take special pains to have our strain of Grand Rapids very true to type. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 45c.; lb., \$1.50.

Iceberg

A beautiful Lettuce, with large, curly leaves of a bright, light green, with a very slight reddish tinge at the edges. Handsome heads, unusually solid because of the natural tendency of the large, strong leaves to turn in, which also causes thorough blanching. Crisp, tender and fine flavor. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

Denver Market

An early head-lettuce for forcing or open ground. Heads are large, solid and of a desirable light green. Leaves are beautifully marked and blistered; crisp, tender and delicious. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

Black-Seeded Simpson

Is very popular among market gardeners, and fine for the home table. Forms a large, loose head. Its nearly white, curly leaves are large, thin, very tender and of good quality. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 45c.; lb., \$1.50.



All Heart Lettuce



Black Seeded Simpson

Early Curled Simpson

A leading early sort; does not head, but forms a compact mass of curly leaves of yellowish green. Matures early; generally grown as an early crop. Very tender and crisp. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 45c.; lb., \$1.50.

Livingston's Crisp-as-Ice

(Introduced by us in 1895.) A most beautiful, attractive Lettuce of the cabbage type. The heads are solid, of immense size when well grown, and so exceedingly crisp, tender and brittle as to fully warrant the name, Livingston's Crisp-as-Ice. The glossy leaves are thick, nicely crimped and curled; the outside leaves are beautifully variegated with dark brown bronze and green. The heads, when cut open, have a rich, creamy yellow heart. A superior family and home-market Lettuce. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.

Prize Head

Large heads; even the outer leaves are crisp and tender; light green, tinged with brownish red. Flavor very hardy; very fine for home use; too tender to ship any great distance. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

Deacon

This Lettuce does not grow as large as some sorts, but has few outside leaves; grows very solid and of delicious buttery flavor. Center of head blanches to bright yellow shade; very crisp and tender, remaining so for long time, even in hot weather. One of the finest Summer sorts. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

California Cream Butter

Extra fine sort of this type, forming splendid, large, compact heads in cool weather. Heads round and solid; outside green; within the leaves are a rich, creamy yellow color; most delicious and buttery in taste. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

All Heart

This excellent variety of Lettuce is in favor of both private and market gardeners. It is a very reliable hard-heading variety of cabbage-lettuce and will give satisfaction wherever grown. It rarely fails to make a large, solid head and is adapted for both Spring and Summer use. It withstands heat and forms large heads, leaves closely set, with solid heart, even before it is half grown. Color yellowish-green; flavor rich and buttery. Pkt., 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 80c.; lb., \$2.75.

We can also supply Improved Salamander, Mam. Black Seeded Butter and Early White Cabbage Lettuce. Each per pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

Selected Big Boston

(White Seeded)

A very desirable large variety for forcing in cold-frames and for outdoor planting. Plants large, hardy, vigorous. Leaves broad, smooth, thin, of a light green color. One of the most popular sorts in the South for shipment to Northern markets. It forms good-sized heads and does particularly well during the cool Fall and Spring months. Heads of a pleasing light-green color, firm and of superior quality. When grown in cold-frames, the heads are not as tight as when grown outside. One of the best market varieties we know. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

The Preferred

A Black-Seeded Big Boston

A new variety quite similar to Big Boston except as to color of the seed, which in this variety is black. The heads are large and compact; and the leaves are claimed to be free from the slight bronze tinge on the outer edge of the leaves, which is common to the old style of Big Boston. If this has proven an objection, the Preferred should prove desirable in this respect. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

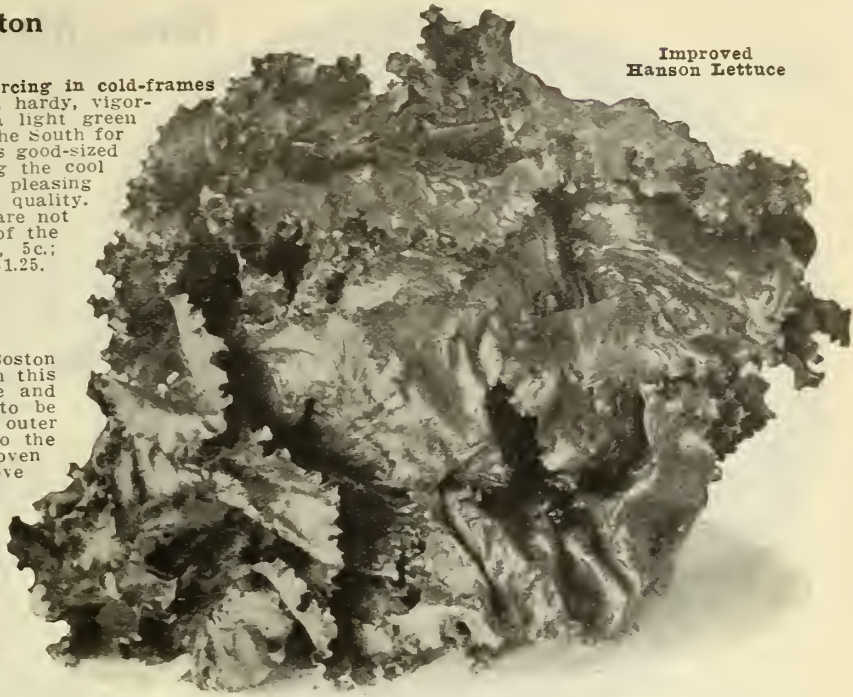
May King

This remarkable variety has proven itself capable of satisfying the most exacting requirements that could be made on an early outdoor Lettuce. It is not easily affected by cold or wet weather, grows very quickly and produces, even in poor soil, splendid globular heads very early in the Spring. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Celery Lettuce, Trianon Cos

This variety is the finest of the Cos or blanching sorts. The long, narrow leaves, which form solid heads, like Early Jersey Wakefield Cabbages, blanch and become snowy white. Excels in quality and crispness. The leaves, when blanched, are stiff like Celery, and can be eaten in the same manner. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

Improved
Hanson Lettuce



Improved Hanson

None more reliable for outdoor cultivation. Heads grow to a remarkable size, resembling that of a flat cabbage. Extremely slow to run to seed. Outer leaves are bright green, inner leaves white and deliciously sweet, tender and crisp. In our trial grounds with dozens of other sorts, it withstood Summer heat among the best. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.25.

Livingston's Lettuce Mixture

One Sowing Produces Salad for the Season

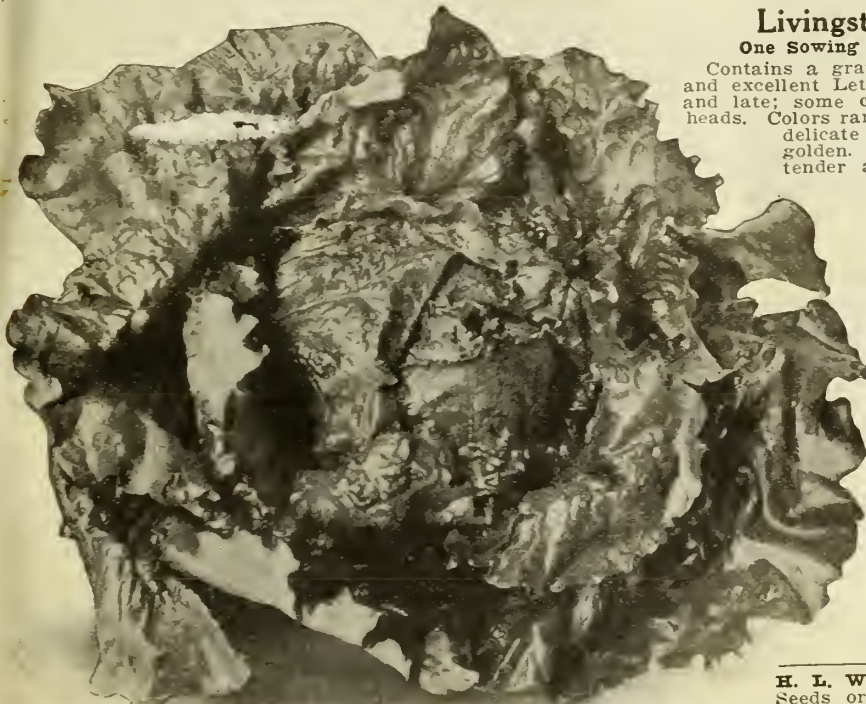
Contains a grand assortment of decidedly distinct and excellent Lettuces. They mature early, medium and late; some curled and crimped, others produce heads. Colors range from almost pure white, through delicate shades of green and yellow to rich golden. All are delightfully fresh, crisp, tender and of excellent flavor. All sizes, from the small early to the mammoth Summer varieties. Liberal pkt., 10c.; ½ oz., 15c.; oz., 25c.

Special Lettuce Collection

One full-sized packet each of the following: Selected Big Boston, best head Lettuce; Selected Grand Rapids, early curled Lettuce; Deacon, finest "butter head" Lettuce—for 10 cents.

Wonderful (New York)

This splendid mammoth heading and long-keeping variety has been grown to weigh 6 lbs. to the head; frequently weighs 2 or 3 lbs. Heart is solid, of light green color, very sweet, tender and crisp. Long standing, perfect heads may be cut from the same bed for many weeks. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.



Wonderful Lettuce

H. L. Wysor, Pulaski Co., Vt., writes: "The Seeds ordered of you arrived alright and I thank you for your generous treatment. I shall hereafter purchase all my seeds from you, as I believe your goods are reliable and true to name."
Special prices on seeds in larger quantity

Livingston's
Tip-Top



Livingston's Tip-Top

(Introduced by Us in 1892)

**TIP-TOP IN QUALITY — TIP-TOP IN APPEARANCE —
TIP-TOP IN PRODUCTIVENESS.**

This splendid melon has "held its own" for many years against all introductions in the melon line, and no yellow-fleshed melon of which we have any knowledge compares with it in good qualities. The testimony of all who have used **Tip Top** is that every melon produced, whether big or little, early or late, is a good one—sweet, juicy, finest flavor, firm (but not hard) fleshed, and eatable to the outside coating. Its appearance on the market is very attractive—sells on sight. Customers soon learn to pick them out and will have no other variety. Fruit of large size, and flesh attractive bright salmon in color; nearly round, evenly ribbed, moderately netted, very productive. (See illustration.)

Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

Burrell's Gem

A superior new orange-fleshed shipping melon. Of splendid flavor, sweet and aromatic; oblong in shape, smoothly rounded ends, closely netted and slightly ribbed, dark green skin. The rind is thin, but tough; flesh exceptionally deep rich salmon-orange color. Fruits average 6 by 4 inches. Very fine for marketing. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Paul Rose (Petoskey)

A successful cross of the Osage with the Netted Gem, which combines the sweetness of the one with the fineness of the other. A large size Netted Gem with deep orange flesh. Early as the Netted Gem. Adapted to shipping in baskets. Originated with an extensive grower of Northern Michigan. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Surprise

Fruit medium to large size, oval, distinctly ribbed, covered with slight patches of netting; skin light yellow. Flesh salmon color. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Mr. George Turner, Gallia County Ohio, writes: "I used your garden seeds last year with great success.

"I am glad I have begun using your garden seeds, as they are fresh and all of them come up good. You know when seed do not come up evenly you do not get a good crop."

Musk Melons or Cantaloupes

Melon Almizcleno o Cantalu

Zucker Melonen

A rich, sandy soil and good seed are absolutely necessary for success in raising the best Musk Melons. The seed should not be planted until the ground has become dry and warm; plant in hills 6 feet apart each way; old, well-rotted manure should be thoroughly mixed with the soil in each hill and in liberal quantity. Put six to ten seeds in the hill, and when danger from insects is past, leave three or four of the strongest plants only. Musk or Cantaloupe Melons may also be sown in rows, that are made about 6 feet apart, and when the plants are well up thinned to stand in hills 5 to 6 feet apart, just before the plants begin to run. This method insures a good stand of plants in spite of the bugs. If the plants grow very rank, the tips of the leading shoots should be pinched off when about 3 feet long. Cultivate often and not deep. One ounce of seed will plant 60 hills; 2 to 3 pounds will sow an acre.

NEW MUSK MELONS—Honey Dew, Pink Meat Rocky Ford, Texas Cannon Ball. See Novelty Pages.

Red or Salmon-Fleshed Sorts Osage, or Miller's Cream

A favorite salmon-fleshed variety. Large, oval, slightly ribbed and netted; skin is very dark green. Flesh is very thick and sweet flavored, most delicious to the rind. The whole crop is very even and fruit extra heavy, owing to this thickness of the flesh. A great favorite for both market purposes and the home garden especially. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Hoodoo

The vine is quite vigorous, resisting blight better than most other sorts, and is very productive. The fruits vary slightly in shape averaging nearly round, quite like the Netted Gem. The netting is distinctive in being exceptionally dense and fine, and it extends over practically the entire surface. The rind, although thin, is so very firm that the melons arrive in distant markets in perfect condition. Flesh very thick, highly colored, of finest texture and delicious flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

The Davis Grand

"The Grand" is 10 to 14 days earlier than the Osage, under the same conditions. It is salmon-fleshed and is remarkably uniform in size; the color and flavor of flesh are very fine. It sets fruits near the roots, has a more vigorous vine and therefore resists disease better than most sorts. Fruits average about 6 inches in diameter. **Extra choice seeds, saved by the originator especially for us.** Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Emerald Gem

Ripens early; medium size; nearly round; flesh a delicate light salmon color, very thick, fine grained, and very few melons can compare with it in superb flavor. The rind is thin, dark green, ribbed, slightly netted. One of the best for home use. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Banana

Very odd; 18 to 21 inches long. Yellow flesh, blending from bright green to rich salmon. Fragrant, and one of the most delicious of melons. Early. Pkt., 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

Mr. Joshua Owens, Howard County, Maryland, writes, March 16th, 1916: "I tried your Gold Lined Rocky Ford Muskmelons last year and they were the best that come to Lexington Market. Off of one thousand hills I sold \$200.00 worth."

From P. T. Ferrin, Seneca County, Ohio.

September 2, 1916.—"We are very much pleased with the results of the melon seed which we bought of you on the enclosed invoice, as we bought them for a try-out and found them true to name."

Green-Fleshed Musk Melons

Gold-Lined Rocky Ford

(See illustration alongside.)

It is a pleasure to be able to offer **Gold-Lined Rocky Ford**. Our stock of it is the result of several years' careful selection by a progressive grower. The shape is ideal, being slightly oval, and it is heavily netted over the entire surface. The flesh of the entire Melon is noticeably thick, fine grained and sweet. The color is green with a gold margin next to the seed cavity. Attractive, both as to outward appearance and when cut. We offer hand saved seed from selected Melons. Pkt., 10c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

Livingston's Ohio Sugar

The Green-Fleshed Tip-Top

Every one who tries this Melon goes into ecstasies over its captivating flavor. It has that delightfully rich aromatic flavor which is so refreshing. For full description of this grand variety see page 7. Pkt., 10c.; oz., 20c.; ¼ lb., 45c.; lb., \$1.50.

Burpee's Netted Gem

This very early Cantaloupe melon is one of the most delicious in the whole list. Small and round in shape. Firm, green flesh. Sweet and luscious clear to the rind. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Extra Early Hackensack

Produces melons two weeks earlier than the well-known Hackensack; heavily netted, and has light green flesh of most delicious flavor; a splendid Cantaloupe melon. Its shape and solidity admit of its being packed very closely in crates for shipment, and it will keep in good condition for several days after picking. Large, fine form; grown also for the home garden very extensively. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Rocky Ford

An improved Netted Gem Melon with sweet, green flesh. In the hands of the Rocky Ford (Colorado) growers it has made that state famous in Eastern markets for melons of unequalled quality. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Livingston's Rose Gem

A Fine Green-Fleshed Shipping Musk Melon Named and Introduced by Us in 1896

In shape it is more oval than the original strain, which gives it additional strength to stand long-distance shipping. One of the best and most profitable extra-early melons in existence for market gardeners and shippers, being especially adapted to basket-shipping. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.



Gold-Lined Rocky Ford

Acme, or Baltimore Nutmeg

Has a beautiful, heavily netted, green skin; good size; shape is oval, slightly ribbed; flesh thick, green, very finely flavored, smooth. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Long Island Beauty

A splendid variety, on the style of the Extra-Early Hackensack, but slightly more ribbed. It is of very superior quality, with green flesh. Pkt. 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Extra-Early Green Citron

The largest of the very early nutmeg melons. Form nearly round; fairly netted; flesh green; quality very fine. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Dwarf, or Bush Musk Melon

This Melon grows in bush form; the stem between the joints of the vine being shorter than on the ordinary kinds. Fruit small but early and very productive. The hills can be planted as close as 2½ feet apart, leaving 2 to 3 plants to the hill. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

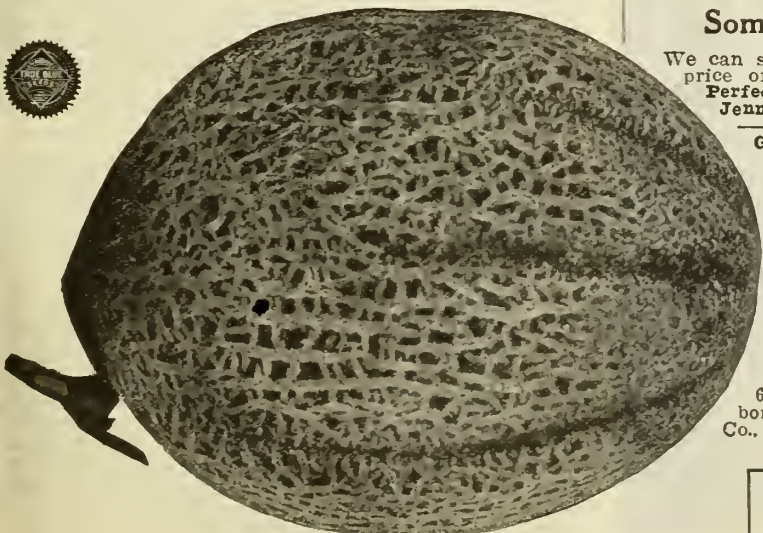
Some Other Good Musk Melons

We can supply the following varieties at the uniform price of: Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00. **Perfection, Hackensack, Early Green Nutmeg, and Jenny Lind.**

Geo. C. Short, Adams Co., Ohio, writes, March 8th: "I have been buying seeds of you regularly for about 20 years, and they have always given entire satisfaction. The Hoodoo Musk-melon is the finest thing I have ever found."

Jos. Garrison, Columbia Co., Pa., writes, March 3, 1916: "I have always liked to deal with your firm, for I am sure to get not only seeds that are clean, pure, true to name, but of such excellent vitality that they could not help but grow."

Fred C. Holmes, Blair Co., Pa., writes March 6, 1916: "I have the best garden in this neighborhood and I owe it all to the Livingston Seed Co., for they are hard to beat."



Livingston's Rose Gem

WRITE FOR SPECIAL PRICES ON LARGE QUANTITIES OF MUSK MELON SEED.

Other Varieties Offered in Novelty Pages

Water Melons

Sandias Wassermelonen

A light, sandy soil, with good exposure to the sun, is the best situation to plant Water Melons. The ground should be prepared deep, but receive shallow cultivation. Hoe often and very thoroughly. If extra-large Water Melons are desired, for exhibition purposes, leave but one or two on a single vine. Plant in hills 8 to 10 feet apart each way, with a very generous shovelful of well-rotted manure mixed with the soil in each hill. If commercial fertilizer is used, it should contain a large percentage of ammonia and potash. Plant eight or ten seeds in each hill, and finally, when danger from insects is past, thin out to three strong plants. Owing to the large size of Water-Melon seeds, the ounce size packets are about right for small gardens. One ounce of seed will plant 20 to 30 hills; four or five pounds will plant an acre.

Florida Favorite

A splendid oblong Melon; ten days earlier than Kolb's Gem. Skin dark green, slightly mottled with still deeper shade; flesh dark red and of the finest flavor and quality. We have a splendid stock of this Melon to offer, at an exceedingly low price. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

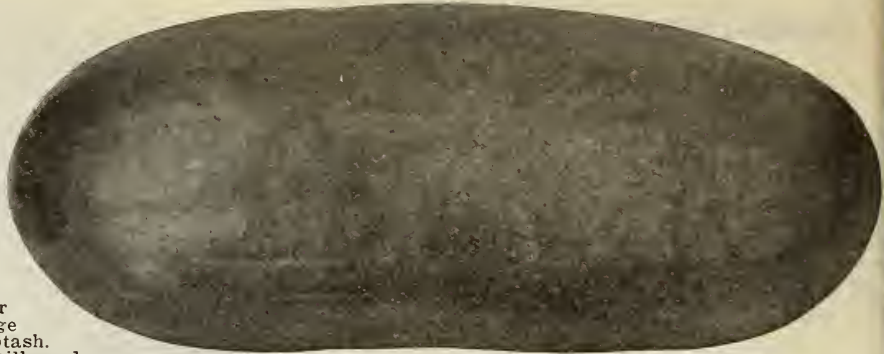
Halbert Honey

A very sweet, long, dark green variety. Fruits average 18 to 20 inches long, have a thin rind and deep red meat of delightfully delicious flavor; pulp entirely free from stringiness; seeds white. One of the finest for the home garden. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

New Chilean

A new white seeded Melon of fine quality, with a reputation already established in the Pacific States; and will, no doubt, become very popular elsewhere when it is better known. Fruits medium size, nearly round or slightly oblong, skin rich, deep green, indistinctly mottled and striped with a lighter shade. Flesh bright red, remarkably fine grained, firm and sweet, quality second to none. A good shipping Melon and keeps exceptionally well. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

A. V. Garten, Posey Co., Ind., writes: "We raised the Tom Watson Melon last year for the first time and consider them a success in every way. You cannot recommend them too highly."



Tom Watson

Tom Watson

An extra long Melon of attractive appearance, uniform in shape and quality. The luscious crimson flesh is "as sweet as honey," melting, and of superb flavor. The average Melon will weigh 35 to 40 pounds and measure about 28 inches long and about 12 inches in diameter. It is very prolific, producing in greatest abundance the large delicious fruits. (See illustration of specimen fruit.) We have great faith in the Tom Watson and believe it is one of the very best Water Melons ever offered. Introduced only a few years ago and has already taken a leading place with large melon growers and shippers. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c. By express, not paid, 5 lbs., \$1.75; 10 lbs., \$3.25.

Livingston's Nabob

Named and Introduced by Us in 1895

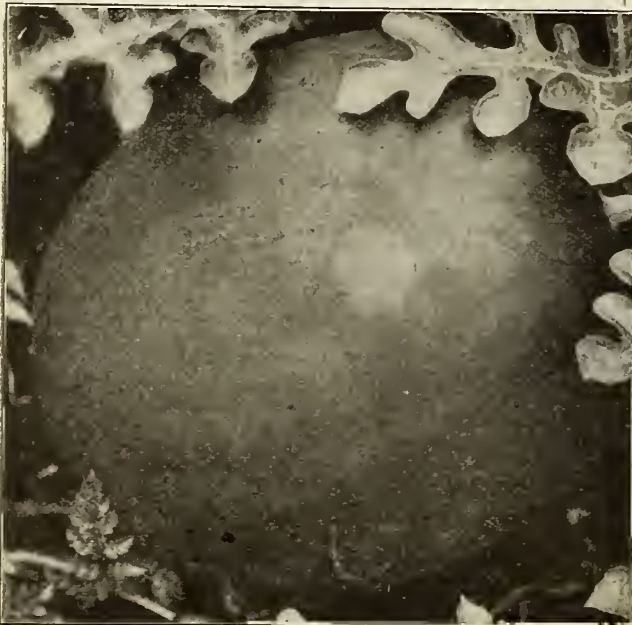
The Best for Home, Market and Shipping. Deep Red Flesh. Crisp, Sparkling, Deliciously Sweet—A Melon for all sections; equally valuable for Northern or Southern States. Vines hardy, vigorous, healthy and productive; fruit large and heavy (weighing 30 to 60 lbs.), resembling the Kolb Gem in shape, but differing in color, being peculiarly mottled, rather than striped. Rind thin and very firm; fruit keeps a long time, and is not excelled in shipping qualities; seeds dark buff or dun color; flesh the deepest scarlet, firm, solid and of richest flavor. Does equally well on different soils, in various climates and under unfavorable as well as favorable conditions. Every one praises its many splendid qualities. Pkt., 5c.; oz., 15c.

Kleckley Sweets

This splendid Water Melon has certainly become very popular wherever it has been thoroughly tested. It is of superb, luscious flavor. While the skin is perhaps too thin to admit of the Melons being shipped very great distances to market, it is most desirable to plant for home use or local markets. The Melons themselves are very large, oblong in form, with dark green skin, thin rind, which is very brittle. Flesh is bright scarlet, with solid heart, deliciously crisp, sugary and splendid in every way. The Melons average from 18 to 20 inches in length by 10 to 12 inches in diameter; of handsome appearance; ripens early, and is most desirable for the home garden. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c. By express not paid, 5 lbs., \$2.00; 10 lbs., \$3.50.

Cole's Early

Very hardy; a sure cropper for Northern states. Delicate in texture of flesh, which is dark red; rind green, striped with lighter shades, thin and very brittle; of medium size, and nearly round; matures early; especially good for home use. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.



Chilean

Taylor Wilson, Wicomico Co., Md., writes: "The Tom Watson Water Melon seed I got from you was the truest I ever saw. There was not a mixed one in the patch. I had the best patch of Water Melons that was around here. Everybody who saw them said they were the best they ever saw in their life and the truest Tom Watson. People asked me where I got my seed and I told them from you people. I will buy from you as long as you treat me right and will do all I can for you."

Special prices quoted on large lots.

Watermelons (Continued)

Sweetheart

A Great Producer—Splendid for Shipping—Very Popular in the South

Another variety of Watermelon, which should not be set aside on account of the many new varieties recently introduced, for it is hard to beat as to quality and productiveness, and is a splendid shipper. It is grown largely in the South for this purpose. The Melons ripen evenly, the vines are vigorous and bear many Melons of splendid size. Oval, very heavy and with a rind which is very thin but firm. In color it is a light green, slightly veined with a darker shade.

The flesh is a bright red, very tender and sweet. Sweetheart remains a long time in good condition after being ripe. We have a splendid strain of seed, which will produce a very uniform crop. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c.

Pride of Georgia—A dark green, oval variety; very fine, large, second-early sort; a good shipper and keeper. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c.

Round Dark Icing—One of the sweetest of all Watermelons. Very solid; thin rind; rich red flesh. Quite early and noted for its splendid quality. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c.

Seminole—One of the best large, long Watermelons. Early, enormously productive and of most delicious flavor. Of two distinct colors—gray and light green. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c.

Preserving Citron

Red Seeded; most desirable for preserves; flesh solid and white. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Other Good Watermelons

We can also supply the following varieties at the uniform price of—Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c: **Gray Monarch, Light Icing, Mountain Sweet, Triumph and McIvers' Wonderful Sugar.**

Mr. Fred Shively, Delaware County, Ohio, writes, April 5th, 1916: "We received first prize for the largest Watermelon, of the Tom Watson variety; the seed was bought of you two years ago and it was exhibited at the Pumpkin Show at Delaware, Ohio."



Ice Cream—True White Seeded

Ice Cream—True White Seeded

The Great Kitchen-Garden and Home-Market Watermelon

This old standby has too thin a rind for shipping unless packed in straw. Few varieties, if any, surpass a **True Ice Cream Watermelon** for quality and productiveness. Ours is not the Peerless Ice Cream, but the original type very carefully selected and is fancy stock. Of good size, medium early, fruit oblong (see illustration); rind light mottled green; bright flesh, and solid to the center; melting and delicious. Free from hard core or stringiness. An elegant sort. Seeds white. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Fordhook Early

The earliest and best Melon of good size. Next to Cole's Early in time of ripening, but much larger. Fruit round; outer color, medium green; flesh is bright red, of fine quality. Good shipper. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50.

Kolb's Gem

Probably the most extensively grown for long distance shipping of any Watermelon ever originated. The flesh is bright red and of good flavor. Melons large, of very thick, oval blocky form; skin handsomely marked in stripes of light and dark green. One of the most productive and best keeping Melons. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c.

Georgia Rattlesnake, or Striped Gypsy

Very large, long, smooth and distinctly striped; flesh bright scarlet, very crisp and sweet. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Alabama Sweets

Large, dark green Melons of oblong shape and fine quality; skin faintly netted with lighter green stripes. Flesh bright red, of delicious flavor. A good shipper. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Peerless

One of the best for home gardens and market gardeners, who deliver direct to customers. Medium size; flesh red, tender and delicious. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Cuban Queen

A large variety weighing 80 pounds and upwards; striped light and dark green; an enormous cropper. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

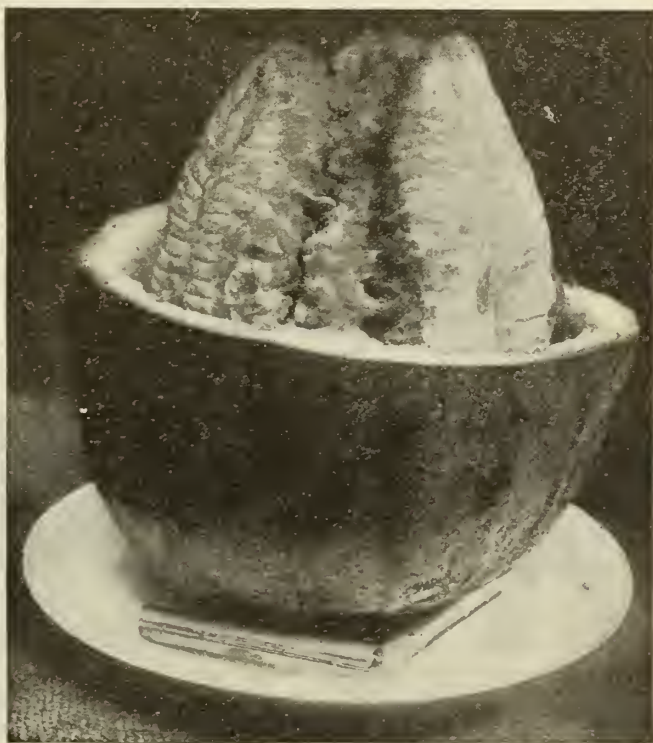
Improved Dixie—Fruit beautifully striped; surpassed by few for shipping or table; long keeper; flesh very red, sweet and juicy. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

Phinney's Early—One of the first to ripen, of good size and very productive; oblong; rind a distinct mottled color; flesh deep red; quality excellent. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c.

Harris' Earliest—Large, oval sort, with mottled skin. Sweet, tender flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Livingston's Orange

The peculiarity of this fine Melon is that when well ripened the inner core separates from the rind, as shown in our picture. Frequently one can lift the entire heart of the Melon out of the shell or rind by carefully cutting the Melon rind only. It will be noticed that the inner portion of the Melon quite resembles an orange after peeling, hence the name. The flesh of this Melon is of a beautiful pink shade and fine quality. It grows to a medium size, is productive and, taken altogether, is a very desirable variety. Pkt., 10c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.



Livingston's Orange



Perkins Mammoth Okra

Mostaza Mustard Senf

Used as a condiment; the green leaves are used as a salad, or cut and boiled like spinach. Cultivate same as Curled Cress or Pepper-Grass. One ounce of seed will sow 50 feet of drill.

Fordhook Fancy

The plants, of vigorous growth, have beautiful dark-green leaves. It is most productive from early Spring sowings, and stands well, even during the hot Summer months. By making several sowings a few weeks apart, a continuous growth of fresh tender leaves may be had throughout the season. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Southern Giant Curled—Is highly esteemed in the South, where the seed is sown in the Fall and plants used early in Spring as a salad. Seeds brown. Plants are 2 feet high; enormous bunches. Pkt., 5c.; oz. 10c.; $\frac{1}{4}$ lb., 15c.; lb., 45c.

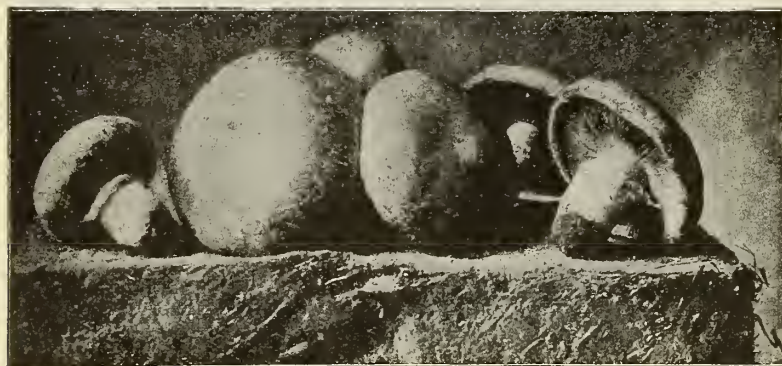
Chinese—A giant curled variety with leaves double the size of the ordinary. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 45c.

White English—Leaves are light green, mild and tender when young; seed light yellow in color. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 40c.

Brown or Black Mustard—More pungent in flavor than the White. Seed black. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 40c.

Seta Livingston's Sure-Crop Mushroom Spawn *Champignonbrut*

Mushrooms will usually do well almost anywhere if a fairly uniform temperature can be maintained. One pound of Spawn is sufficient for a bed 2 x 6 feet. We receive fresh Spawn several times a year from the best makers. A careful study of one of the books below will help you to be successful.



English Milltrack Spawn

(Livingston's Sure Crop)—Lb., 25c., postpaid. By express or Parcel Post, at buyer's expense; 5 lbs., 65c.; 10 lbs., \$1.10; 25 lbs., \$2.50; 50 lbs., \$4.50.

American Pure Culture Spawn

Produced by the new grafting process from selected and most prolific varieties. Produces a crop very uniform in size and color. Per brick, 35c., postpaid. By express or Parcel Post, at buyer's expense; 5 bricks, \$1.00; 10 bricks, \$1.85.

MUSHROOMS: HOW TO GROW THEM—Falconer. A book of 169 pages. Cloth, price \$1.00.

HOW TO GROW MUSHROOMS—A practical treatise for instruction. Paper cover, 14 pages, price 10c.

Okra, or Gumbo

Very wholesome. The pods, when young, make a fine soup. Plant seed after the ground is warm and dry in drills 3 feet apart, thinning the young plants to 1 foot apart. Make early and late sowings to secure a supply throughout the season. Easy to grow in any good garden soil. One ounce of seed will sow 40 feet of drill.

White Velvet

Distinct in appearance; the large pods are perfectly round, smooth, an attractive velvety white, of superior flavor and tenderness. Plant dwarf, of compact, branching growth; very prolific. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 45c.

Perkins' Mammoth

Plant dwarf; are very productive. Produces beautiful, long, slender, deep green pods, which remain tender a long time. An extra choice variety. (See illustration alongside.) Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Kleckley's Favorite

Plants are of compact growth, with many close joints. At each leaf joint develop handsome, smooth, white pods which average 6 inches long, by 1 inch in diameter. They are exceptionally fleshy and tender. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.



Southern Giant Curled Mustard

Cebollas **Choice Onion Seed** Zwiebeln

About Quality in Onion Seed

It is many times better to plant no Onions at all than to sow the absolutely worthless stuff sold in so many cases and called Onion seed—and which often is purchased because it was low in price. **Strictly First Quality Onion Seed** can never be low in price. It costs a certain amount to select, sort, keep the bulbs over Winter, and again the next season to raise the crop of seed; and the nearer to perfection in every respect the seed is brought, the more it costs.

Owing to the unfavorable season, the Onion seed crop on our farms has not turned out as well as expected and it has been necessary for us to purchase a portion of our stock from Eastern growers to make up the shortage. The parties from whom we get these stocks are thoroughly reliable and we believe our customers will be well pleased with this stock

"Profitable Onions"

IS THE TITLE OF OUR ONION BOOKLET. It tells all about the old and new method of growing large Onions from seeds, describes the finest strains of American Onions procurable and shows how we produce them. Read "Profitable Onions" and learn some of "the reasons why." It may keep you from making expensive mistakes in growing this valuable crop. Free to all onion growers.

NOTE.—If onion seeds are wanted in larger quantities than quoted herein, ask for our Special Wholesale Prices.



Livingston's Ohio Yellow Globe

Livingston's Selected Ohio Yellow Globe

Most Perfect Strain of Yellow Globe; Sure Cropper; Enormous Yields; Long Keeper; Early.

We name it "Ohio Yellow Globe" Onion to designate it from the many strains of Globe Danvers Onion now being offered. To Ohio growers belongs the honor of producing, by many years of painstaking care, selection and cultivation, this **finest strain of that extreme type of Globe** now so deservedly popular in all large Onion markets. Its main points of excellence are: **Distinct and attractive shape; handsome, bright, even color; necks very small; ripens early and all at once.** The solid bulbs are excellent Winter keepers, and all that can be desired in size and quality; **enormous yields**—800 bushels per acre are frequently grown on rich Onion land. This is a superb Onion for all classes of soil (well-enriched) and especially good for all our muck lands. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Select Yellow Globe Danvers

Of large size, an early and abundant cropper, very thick bulb, flat or slightly convex bottom, full oval top with a small neck and rich brownish yellow skin. We consider our strain of Globe Danvers just right for critical growers. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Yellow Flat Danvers

A splendid extra-early yellow Onion for market or home use, and for sets. Flatter than the Globe Danvers; long keeper; flesh white, fine quality. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

Southport White Globe

The handsomest Onion grown. Of beautiful silvery-white color, perfectly globe-shaped, uniform in size. Flesh firm, fine-grained and of pleasant flavor. **Southport White Globe** as grown in the rich muck soil of our Kirkersville farm comes very beautiful and true to type. Of true globe type, solid and with very small neck. We grow a large acreage of bulbs every year, and firmly believe that a better strain than ours does not exist. Pkt., 10c.; oz., 35c.; ¼ lb., \$1.10; lb., \$4.00.

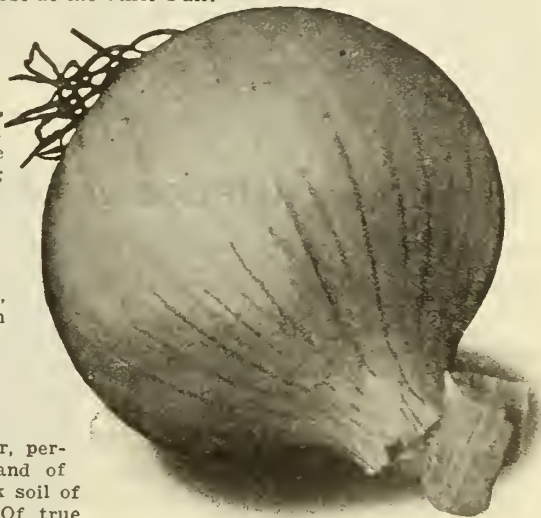
Yellow Dutch, or Strasburg

One of the most popular varieties for yellow Onion sets. It is also a good-keeping half-round sort for home use. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 65c.; lb., \$2.00.

Southport Yellow Globe

Produces large, perfectly globe-shaped bulbs. Color of the skin is brownish yellow. Flesh white, fine grained and crisp. Quite similar to Yellow Globe Danvers, but a little later and of larger size. Pkt., 5c.; oz., 20c.; ¼ lb., 70c.; lb., \$2.25.

W. H. Birtell, Douglas Co., Kansas, writes, Jan. 19, 1916: "I got my seeds of you last year and must say that I am more than pleased with the Onions; all grew fine. I wish to tell you that I raised a splendid crop, exhibited three varieties at two fairs and took first premium on Red and White and Second on Yellow at State Fair at Topeka and all first at the other Fair."



Southport White Globe.

Mrs. W. H. Morris, Haywood Co., Tenn, writes, November 13, 1916: "I have always found everything from Livingston's True Blue Seeds to be just as represented."

**Mammoth Prize-Taker Onion****Mammoth Yellow Prize-Taker**

This is the large, beautiful Spanish variety so often seen in the fruit stores and markets of all large cities. Enormous size—14 to 16 inches in circumference. Although of such great size, it is hardy and a good keeper for such a mild flavor. It ripens up firm and very fine grained. The outside skin is rich yellow, while the flesh is white. Has produced more bushels of marketable Onions to the acre than any other variety. Our stock is American grown. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Gigantic Gibraltar

A strain very like the Prize-Taker, but is said to be better adapted to conditions in warm climates. Color is a beautiful straw-color. Stock limited. Pkt., 10c.; ½ oz., 20c.; oz., 35c.

Southport Red Globe

The handsomest of all the red Onions; large and of perfect shape. Red Globe is the latest of the Southport Onions, ripening from a week to ten days after the yellows. The bulbs are remarkably uniform in shape, of a rich red color, ripen evenly and yield a large percentage of marketable Onions. Flesh pinkish-white. They ripen down hard, keep well, and their beautiful appearance helps to sell them. Southport Red Globe will yield a heavier crop than either the Yellow or White Globe.

Our strain of the Red Globe is unsurpassed. Pkt., 5c.; oz., 20c.; ¼ lb., 70c.; lb., \$2.25.

Foreign Varieties of Onions

Extra-Early White Barletta Onion—The earliest Onion in cultivation. One of the best for pickling, being naturally quite small. Pure white, mild and delicate; adapted for table use. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Mammoth Silver King—Of attractive shape, with silver-white skin and flesh of most agreeable, mild flavor. It matures quite early, coming in just after the Onions grown from sets are gone. Matures to a large size. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Earliest White Queen—A very early pure white, small, flat Onion, 1 or 2 inches in diameter; when sown early in the Spring will ripen in July. Very mild flavored. Fine for pickling. Pkt., 5c.; ½ oz., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Neapolitan Maggiajola (Italian May Onion)—A large, flat, beautiful silver-white skinned variety; one of the earliest and of very mild flavor. A large and handsome sort. Sells rapidly, especially in the South. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

Livingston's Yellow Beauty Onion

Grows the Hardest, Smoothest, Roundest, Best-Keeping Onions or Onion Sets.

Livingston's Yellow Beauty is a lemon-yellow sort, of very fine and firm texture, especially adapted to growing sets and Onions for late Spring sales. They often keep until June in fine condition. Crop short. Pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 85c.; lb., \$3.00.

Livingston's Brown Beauty

This sort is very similar to our Yellow Beauty except in color, which grows somewhat darker as the Winter advances. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

Australian Brown

This variety has become very popular, because of its good keeping qualities. The bulb is medium sized, nearly spherical, being slightly flattened; reddish brown in color and very solid; rather strong flavored. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.

Indiana Silver Skin

This is a strain of pure white Onion that produces round, hard Onion sets, for which we highly recommend it to you. The bulbs when fully matured are flat and one of the best keeping white varieties. Pkt., 5c.; ½ oz., 10c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

White Portugal, or Silver Skin

Matures early; rather flat in shape; mild flavor; excellent for Winter; very much esteemed for pickling when small. Pkt., 5c.; ½ oz., 10c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Philadelphia White Silver Skin

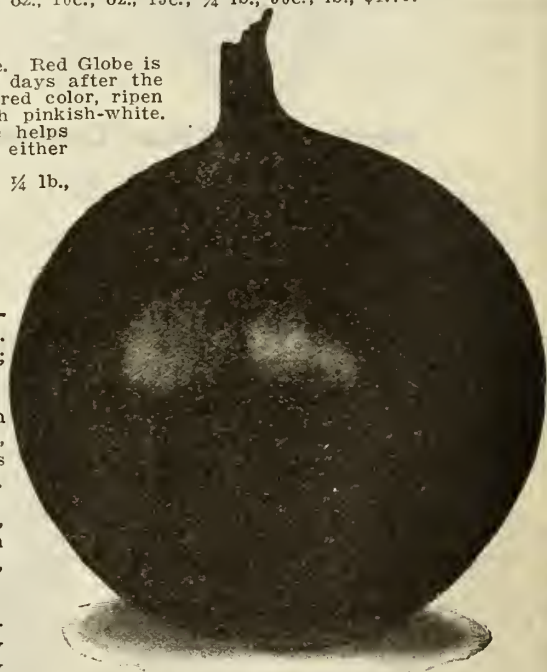
A good-sized white variety when full grown, and makes a most beautiful, firm, round, pearly white Onion set, for which it is very extensively grown the country over. Pkt., 5c.; ½ oz., 10c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Large Red Wethersfield

This is a standard red variety. Large size; skin deep purplish-red; form round, somewhat flattened; flesh purplish-white. One of the best keepers. Yields enormous crops. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.75.

Extra-Early Red

Medium size, very uniform in shape; smaller than Large Red Wethersfield, but two weeks earlier; good keeper; desirable for early market and planting at the North. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

**Southport Red Globe**

Livingston's Choice Onion Sets

Early green Onions are obtained much earlier by setting out sets than by sowing seed. Some of the latter, however, should be sown to follow the crop grown from the Onion Sets. Plant both Onion Sets and Seed as soon as the ground is warm and dry in the Spring.

Our Set Prices are based on the present market rates and are subject to market changes. It is impossible for us to make fixed prices. Lowest market prices on large or small quantities will be given on application at any time. **We handle Onion Sets in large quantities.** A pound of Sets is equal to about a quart by measure.

Prizetaker Onion Sets

These Sets make large Onions sooner than any other variety. They grow to enormous size, are quite hardy and fairly good keepers. The outside skin is rich yellow, while the flesh is white. Very mild flavored. $\frac{1}{2}$ lb., 15c.; lb., 30c.; $\frac{1}{2}$ pk., 65c.; pk., \$1.10; bu. (32 lbs.), \$4.00.

Standard Onion Sets (Bottom Sets)

Are grown from seed sown very thick in broad, shallow furrows, and covered about half an inch deep. **These are the little Onion Sets so much planted for first Onions.** One bushel weighs 32 pounds.

White Onion Sets, $\frac{1}{2}$ lb., 15c.; lb., 30c.; $\frac{1}{2}$ pk., 70c.; pk., \$1.25; bu., \$4.25.

Red Onion Sets, $\frac{1}{2}$ lb., 15c.; lb., 30c.; $\frac{1}{2}$ pk., 60c.; pk., \$1.00; bu., \$3.50.

Yellow Onion Sets, $\frac{1}{2}$ lb., 15c.; lb., 30c.; $\frac{1}{2}$ pk., 65c.; pk., \$1.10; bu., \$3.75.

White Multipliers

Pure, silvery-white, enormously productive, frequently 20 bulbs in a cluster from a single bulb. Of excellent quality and size for bunching green, or can be ripened for pickling Onions. Remarkably good keeper; very early. $\frac{1}{2}$ lb., 15c.; lb., 25c.; $\frac{1}{2}$ pk., 75c.; pk., \$1.25; bu., \$4.75 (measured).

Egyptian Winter, or Perennial Tree Onions are sold only in the Fall. See Fall Catalog regarding this variety, as Autumn is the time to set them out.

G. W. Tyler, Manatee Co., Fla., writes, June 8, 1914: "I am glad to say that I always get good results from your seeds. Thanking you for your promptness, I am, yours truly."

Mrs. G. E. Millon, Balls Co., Mo., writes, April 21, 1916: "Just received my order of Onion Sets and am well pleased."



Hollow Crown Parsnips

chirivia Parsnips Pastinake

Sow as early in the spring as the weather will permit, in drills 15 inches apart and half an inch deep, in rich, well-manured ground, well dug. Cultivate similar to Carrots, and thin to 6 inches apart in the rows. The roots improve by being left in the ground until spring, securing enough in pits or the cellar for winter use. **One ounce of seed to 200 feet of drill, 5 or 6 pounds for an acre.**

Large Sugar, or Hollow Crown (Improved Guernsey)

White, smooth, sugary, excellent flavor, easily harvested. (See illustration.) Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Long White Dutch

Roots are very long and smooth; one of the best varieties for general use. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

Perejil Parsley Petersille

Parsley is used for seasoning soups and stews, for salads, and is also very universally used for garnishing, also for ornamental borders in the flower garden; succeeds best in a rich, mellow soil. As the seeds germinate very slowly, three or four weeks sometimes elapse before it makes its appearance. It should be sown early in the spring. **One ounce of seed will sow about 150 feet of drill.**

Champion Moss Curled

More densely crimped and curled than some other sorts. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

Fine Double Curled

Dwarf, beautifully curled; very fine variety. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Plain

Much used for soups and stews; rather stronger in flavor than other varieties. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 45c.

Hamburg, or Turnip Rooted

A rooted variety; the fleshy roots resemble Parsnips, and are used in soups and stews. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

Livingston's Exquisite

One of the main features in any variety of Parsley is the ornamental effect of its leaf when used for garnishing. This is a very strong point in our Livingston's Exquisite, with its very elegant and closely curled leaves of beautiful dark green. **The finest strain of Curled Parsley that has ever come under our notice.** Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.75.



Parsley—Livingston's Exquisite

Chicaros
o Guisantes

Livingston's Choice Peas Erbsen

Peas thrive better if the ground has been manured for a previous crop, but if the ground is poor and requires enriching, use well-rotted manure; and for the dwarf varieties you can hardly make the soil too rich. When grown as a market crop, Peas are seldom staked or bushed, but are sown in single rows 3 to 4 inches deep, the depth depending on the time of sowing, nature of the soil, as well as the variety. Wrinkled varieties are not as hardy as the smooth sorts, and if planted early should have dry, warm soil, and not planted deep, or they are liable to rot in the ground. These wrinkled varieties are, however, the sweetest and best flavored. Rows for planting should be from 2½ to 3½ feet apart, according to the kind, soil and manner of culture desired. When grown in the kitchen garden it is best to sow the seed in double rows, 6 to 8 inches apart, the tall sorts requiring brush. Two pounds sow 100 feet of row; 1½ bushels for an acre.

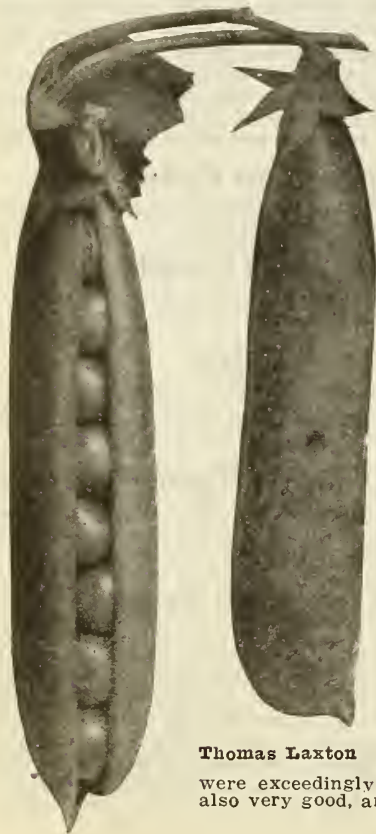
Pea Prices

Our Pea Prices include postage up to and including two pounds. If any of the larger amounts are wanted sent by mail it will be necessary to remit extra to cover postage at the Parcels Post rates.

Livingston's First-in-Market

Excellent variety, very profitable for the gardener and shipper, because it ripens uniformly, so that almost every pod may be gathered at one picking. The pods are handsome, straight and full of medium-sized round Peas of superior quality; it is immensely productive for such an early sort. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 50c.; ½ pk. (7½ lbs.), 90c.; pk., \$1.65; bu., \$5.75.

Mrs. Geo. McCallister, Bath Co., Va., writes, March 30, 1916: "I have been planting your seed for 12 years and find them better than any I have ever planted, more in the packet, and grow better."



Thomas Laxton

were exceedingly fine. The Lettuce, Radish and Beet were also very good, and I recommend them to all of my friends."

Little Marvel

This Pea has been rightly named. It is an early wrinkled Pea with all the good qualities of American Wonder, Premium Gem and Nott's Excelsior and some of its own besides. It grows about 15 inches tall and bears heavily. There is no earlier wrinkled Pea and the quality satisfies everybody. Our sales increase yearly because Little Marvel never disappoints. We hope every customer who grows Peas will buy it this year and they will thank us for suggesting it.

Large pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c.; ½ pk. (7 lbs.), \$1.00; pk., \$1.85; bu., \$6.50.

Laxtonian Peas

This is a giant podded, early, dwarfed Pea—the same size and quality as Gradus, but requires no supports. We regret our crop of Laxtonian failed. And we only carried over a small quantity. The Pioneer will be found quite similar and should be given a liberal trial. We offer the Laxtonian while they last. Pkt., 15c.; ½ lb., 25c.; lb., 40c.; 2 lbs., 75c.

Livingston's Selected
Extra-Early Alaska

This fine Pea has become a standard extra-early market variety, and is the earliest of all blue Peas; grows about 30 inches tall; very uniform in maturing the crop. Our strain is especially fine. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 50c.; ½ pk. (7½ lbs.), 85c.; pk., \$1.50; bu., \$5.50.

American Wonder

A leading dwarf wrinkled Pea; esteemed for earliness, productiveness, flavor and quality. Strong and robust in habit, growing about 10 inches high, and produces a profusion of good-sized pods, which are fairly packed with the finest flavored Peas. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 60c.; ½ pk. (7 lbs.), \$1.20; pk., \$2.00; bu., \$7.50.

Thomas Laxton
A Fine Wrinkled Pea

The vine grows about 3 feet high, much like that of the Gradus, or Prosperity, but more hardy and greatly more productive. Pods large, long, with square ends, similar to but larger, longer and handsomer than those of the Champion of England, and fully as uniformly well filled. The green Peas are very large, fine colored and unsurpassed in splendid quality. Pkt., 10c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 65c.; ½ pk. (7 lbs.) \$1.25; pk., \$2.15; bu., \$8.00.

Mrs. W. P. Hannahs, Lawrence Co., Ohio, writes, February 13th, 1916: "I am sending for these seeds because I know they are good from what I had last year, especially the tomato. They were exceedingly fine. The Lettuce, Radish and Beet were also very good, and I recommend them to all of my friends."



Little Marvel

Livingston's Prolific
Early Market

For length of pod, number of Peas in a pod and number of pods to a vine, this is a wonder. It is one of the smooth-seeded, extra-early varieties which can be sown the first thing in the Spring, and for the type of Pea the quality is all that can be desired. Large pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c.; ½ pk. (7½ lbs.) \$1.00; pk., \$1.75; bu., \$6.00.

Nott's Excelsior

This fine extra-early dwarf wrinkled Pea is very popular. Foliage dark green and rather heavy, suggesting health and vigor. On good soil grows about 1 foot high. Pods one-third larger than American Wonder and are all ready to pick at once; a great yielder. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c.; ½ pk. (7 lbs.) \$1.00; pk., \$1.85; bu., \$6.50.

Premium Gem

A very fine Extra-Early Dwarf Pea of Little Gem type, on which it is a decided improvement; pods are larger and more productive. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c.; ½ pk. (7 lbs.) \$1.00; pk., \$1.75; bu., \$6.00.

Livingston's Home Collection
of the Three Best Peas for
the Private Garden

The varieties contained in this collection are all superior wrinkled sorts—sweet, tender and delicious. It contains early, medium and late sorts, and will supply the table with a succession of luscious Peas for a long period.

Thomas Laxton—Bears large pods literally packed with luscious Peas early in the season.

Telephone—The largest of all late Peas and a tremendous cropper of handsome pods and peas.

Little Marvel—A fine dwarf early variety; very prolific and of excellent quality.

One 10c. packet each of 3 Best Peas, 25c.; 1 lb. each, 65c., not postpaid.

Our Packets of Peas Are Exceptionally Large

Gradus or Prosperity

(See Illustration.)

This extra fine variety combines earliness with large size in a green wrinkled Pea. In earliness the Gradus follows closely after the First Earlies, being only two or three days later than Livingston's First-in-Market. In height, they grow about 2½ feet. The pods are long and straight; and well filled with luscious sweet peas of superb quality. It produces most uniformly large pods, measuring 4 to 4½ inches in length, and well filled with large, handsome peas. Pkt., 10c.; ½ lb., 15c.; lb., 35c.; 2 lbs., 65c.; ½ pk. (7 lbs.), \$1.20; pk., \$2.00; bu., \$7.50.

McLean's Advancer

The leading Pea for second-early. Excellent flavor, very productive. It is a wrinkled variety, grows about two feet in height. Has long pods, and well filled to the end. Ripens so uniformly that the vines can usually be picked clean in two pickings. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c.; ½ pk. (7 lbs.), \$1.00; pk., \$1.85; bu., \$6.25.

Potlatch

A variety of great value, growing 15 to 18 inches high, with very large pods, measuring up to 6 inches in length. Vines and pods are a rich, dark green, and pods contain 8 to 9 immense peas. The plant is a vigorous grower, the pods being borne in pairs. It is a great producer and the quality of Peas which shell out is surprising. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 60c.; ½ pk. (7 lbs.), \$1.00; pk., \$1.85; bu., \$6.50.

Sutton's Excelsior

A fine wrinkled Pea quite hardy and may be planted with the hard-seeded varieties. The plants are dwarf (about 15 inches high), of vigorous growth and very productive. The quality is all that could be desired. Sutton's Excelsior produces larger and broader pods than most early varieties and it matures within a few days of Nott's Excelsior. It is a desirable variety for home and market use. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 55c.; ½ pk. (7 lbs.), \$1.10; pk., \$1.90; bu., \$7.00.

Pioneer Pea

(See Illustration.)

A new large podded early Wrinkled Pea of great promise. The vines are extremely vigorous, growing fifteen to eighteen inches high, dark green and produce a wonderful crop of dark green pods which are filled with big Peas of delicious flavor. It is one of the earliest Wrinkled Peas, coming about the same season as Gradus, but a heavier cropper. Try this one in place of Laxtonian, which we cannot supply, in quantity, this season. Pkt., 15c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 60c.; ½ pk. (7 lbs.), \$1.35; pk., \$2.50.

Do not forget to order NITROCULTURE INOCULATOR for Peas and Beans and all other legume crops if you want best results. Don't waste good seed; make your crop sure. For full description and prices see page 60.



Gradus or Prosperity

Alderman

The Alderman is a late wrinkled variety growing four to five feet high and bearing freely large pods of a dark green color. These pods each contain eight or nine large dark green Peas of unsurpassed flavor. Alderman will eventually take the place of Telephone in markets requiring dark green pods and Peas. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 60c.; ½ pk. (7 lbs.), \$1.00; pk., \$1.85; bu., \$6.50.

Quite Content

Largest Podded of Any. Season Same as Telephone—This variety has created a sensation by its vigor and size, being by all odds the largest Pea in existence. The pods, which are usually produced in pairs, being from five and a half to six inches in length and each pod contains from nine to eleven large Peas of fine quality. Pkt., 15c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 60c.; ½ pk. (7 lbs.), \$1.35; pk., \$2.50.

Improved Stratagem. The vines are strong, vigorous and covered with immense pods, many of which measure nearly 5½ inches in length and containing as high as ten large, richly flavored wrinkled Peas. The quality is excellent. Pkt., 10c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 65c.; ½ pk. (7 lbs.), \$1.20; pk., \$2.00; bu., \$7.50.

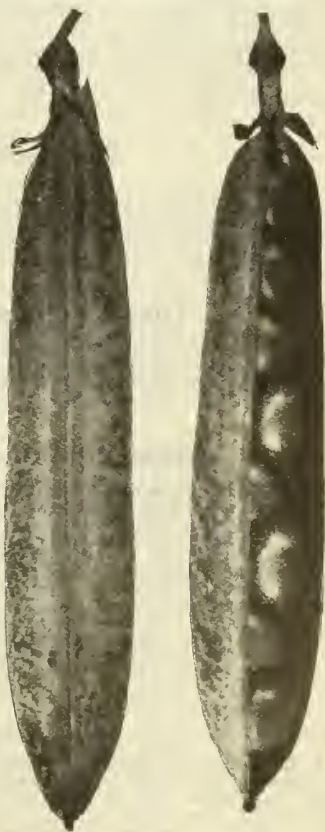
Carter's Telephone

The favorite late variety for the market gardener. Extra large pods. Vine large, coarse leaves, height about 4 feet. The pods are very large and filled with immense Peas. Tender, sweet and of splendid quality and flavor. Pkt., 10c.; ½ lb., 20c.; lb., 35c.; 2 lbs., 65c.; ½ pk. (7 lbs.), \$1.25; pk., \$2.15; bu., \$8.00.

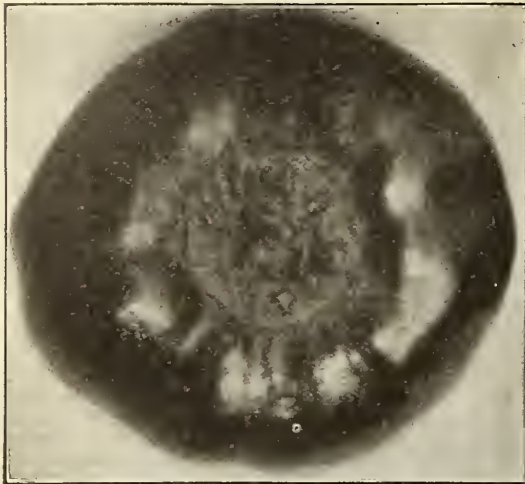
Champion of England. An old variety, but considered by many the best tall growing sort. To do its best it needs support. A prolific bearer of large pods, well filled with large wrinkled Peas. Five feet high. Pkt., 10c.; ½ lb., 15c.; lb., 25c.; 2 lbs., 50c.; ½ pk. (7 lbs.), 85c.; pk., \$1.50; bu., \$5.50.

White Marrowfat. Grows 4 to 5 feet in height. Pods large, round, light green and well filled. Excellent for Summer crop, but of inferior quality. Pkt., 10c.; lb., 25c.; 2 lbs., 50c.; ½ pk. (7 lbs.), 75c.; pk., \$1.40; bu., \$5.25.

Livingston's Prolific Giant-Podded Sugar. Excels all other Sugar Peas in size, productiveness and quality. Vines are about 30 inches in height. The pods are gigantic in size, broad, sweet and tender, extremely fleshy and equal to the best Snap Beans for cooking pods and all. Pkt., 10c.; ½ lb., 15c.; lb., 30c.; 2 lbs., 60c.; ½ pk. (7 lbs.), \$1.25; pk., \$2.15; bu., \$8.00.



Pioneer



Tomato Shaped (Pimento)

Tomato Shaped Pepper (Pimento)

Very Thick Meated and Mild

This very popular variety used extensively by the Spanish people in their Pimento salads. It is a thick meated variety of milk flavor, being brilliant red in flesh, and very productive. Pkt., 10c.; ½ oz., 20c.; oz., 35c.

Livingston's Ohio Crimson

The Sweetest and Biggest Mango Pepper

(Introduced by us in 1906.) Habit of growth, robust and stocky, and a sure cropper. The fruit is extra large. In weight Livingston's Ohio Crimson is much heavier than other varieties of the same size owing to thicker flesh. In flavor it is the mildest we have ever known, as the flesh, and even the seeds, may be eaten from the hand without any of the fiery sensation. Growers tell us their customers prefer it to others for making mangoes. Livingston's Ohio Crimson has been thoroughly fixed in type for years. Pkt., 10c.; ½ oz., 25c.; oz., 45c.

Neapolitan

This is the earliest of the large, mild red Peppers, grows about two feet high and is completely laden with fine Peppers about four inches long and ½ to 2 inches in diameter. Worthy of a place in every garden. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

Giant Golden King

An exact counterpart, except in color, of the Ruby King. Bears large, handsome fruits of most attractive bright yellow. Flavor mild and pleasant. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

Mammoth Ruby King

Our Mammoth Ruby King Pepper is one of the largest and finest mild Red Peppers in cultivation. Not only is it very productive for so large a Pepper, but its splendid size and handsome appearance make it sell most readily in any market, and for the kitchen garden it is a special feature. The plants are vigorous, stocky and dwarf; very bushy, growing about 2 feet in height. They are well branched; thickly set with large fruits, some 4 to 6 inches long by about 3 inches thick. When ripe they are of a beautiful bright, glossy red color, and are always remarkably mild and pleasant to the taste. They can even be sliced and eaten with salt and vinegar (like Tomatoes or Cucumbers), and are most appetizing. Pkt., 5c.; large pkt., 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 85c.; lb., \$3.00.

Pimento Livingston's Choice Peppers Pfeffer

Peppers should be started in a hotbed or cold-frame and transplanted about the end of May into a sunny corner of the garden, in rows about 2 feet apart, with the plants about the same distance between them in the rows. They can also be sown in open ground in a prepared seed bed when all danger from frost has passed and the weather has become settled and the soil warm. When the little plants are about 3 inches in height, transplant as above into the rows where they are to remain. Some very rich fertilizer stirred into the soil when the plants are about 6 inches high will be found very beneficial to the crop. The Peppers intended for mangoes should not be grown near the hot varieties, as if so they will partake of their fiery nature. One ounce of seed will produce about 1500 plants.

Livingston's Prolific Yellow

Fruits bright yellow when ripe; just right size for stuffing; very productive. (For full description see novelty pages.) Pkt., 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.10; lb., \$4.00.

Sweet Salad (Pimento)

An extra fine new sort; bright red; thick fleshed; best for salads. For full description see Novelty pages. Pkt., 10c.; ½ oz., 20c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.50.

Sweet Upright

This sort produces a greater number of fruits than the large sweet Peppers. The fruits are just the right size to serve whole, not large, about 3 inches long, 2½ inches to 3 inches across. The flesh is quite thick, mild and sweet, and the skin very tender. The color of the ripe fruit, both skin and flesh, is a rich, brilliant scarlet. Grows upright on the stem, hence its name. Pkt., 5c.; ½ oz., 15c.; oz., 20c.; ¼ lb., 70c.; lb., \$2.25.



Mammoth Ruby King

A. C. Schattenberg, Nacogdoches Co., Texas, writes Jan. 14, 1916: "The Pepper seed procured from you last year made the finest crop of Peppers I ever raised. I hope to receive the same good quality and strain from you again in this order. Australian Brown and Prizetaker Onion do fine here."

Pepper (Continued)

Chinese Giant

It is of mammoth size, splendid shape, beautiful rich, glossy bright red flesh and mild flavor. Its strong, bushy plants, which are loaded with the splendid large fruits, begin bearing quite early. Has few seeds, hence necessarily high in price. Pkt., 10c.; ½ oz., 25c.; oz., 45c.

Large Bell, or Bull Nose

An early variety and of mild flavor except in hot, dry seasons. The skin is quite thick and fleshy; of medium size; is quite popular in some sections. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 70c.; lb., \$2.25.

Sweet Mountain

Very similar to Bell or Bull Nose; sweet and mild flavored; used for stuffing. Pkt., 5c.; ½ oz., 10c.; oz., 20c.; ¼ lb., 70c.; lb., \$2.25.

Mixed Mango Peppers—A choice mixture, containing a very large number of varieties suitable for stuffing and mangoes. Pkt., 10c.; 3 pkts. for 25c.

Livingston's Improved Thick Long Red

A great improvement on the ordinary Long Red Cayenne—Pods of about the same length, but much thicker. (See illustration, which is of average size.) The flesh is fully double the thickness of Long Cayenne. They are grown almost exclusively for some markets. Exceedingly prolific; are very hot and have handsome bright red pods. Produced early in the season while prices are high. Pkt., 10c.; ½ oz., 20c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

Long Red Cayenne—Four inches long and one-half to three-quarters inches in diameter; flesh hot. Pkt., 5c.; ½ oz., 15c.; oz., 20c.; ¼ lb., 70c.; lb., \$2.25.

Small Cayenne (Red Chili)—Pods 1½ to 2 inches long; very hot; used for making pepper sauce. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

Cherry Red—Fruit small, round, rich scarlet and extremely hot. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.

"Red Hot" Mixture—Includes a great number of small and ornamental sorts, which are as "hot as fire." Pkt., 10c.; 3 pkts., 25c.



Improved Thick Long Red Pepper

Calabazas Livingston's Prize Winning Pumpkins Speise Kurbisse

Pumpkins are not so particular in regard to soil as Melons or Cucumbers, but in other respects are cultivated in a similar manner. Sow in the month of May, when you plant your corn. Make hills, the same as you do for Squashes, but about 8 or 10 feet apart each way. It is preferable to grow Pumpkins in the field, and not in the garden, as they always mix badly with the Squashes and other vines. You can sow some amongst your late corn, putting in a few seeds, say, every third or fourth hill. This will give you plenty for the table, and your stock the coming Winter. One ounce of seed will plant 15 hills; 3 to 4 lbs. plant an acre.

Large Sweet, or Kentucky Field

Large, round, flattened, hardy and productive. One to two feet in diameter. It has thick flesh of extra fine quality and is a splendid sort for canning, family and market use; and used largely for stock feeding. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Japanese Pie

Crooked neck; quality fine; very productive; ripens early; medium size; skin dark green; flesh orange yellow. Excellent for pies. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Common Yellow Field

Yankee Cow Pumpkin, or Connecticut Field—The common Yellow Field Pumpkin, so very largely cultivated by our farmers for stock feeding, and used some for canning; very productive. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.



Small Sugar Pumpkin

Genuine Mammoth, or True Potiron

(King of the Mammoths, a Jumbo Pumpkin)
Of immense size, with depressed ends, slightly ribbed, often 3 feet in diameter and sometimes weighs over 200 lbs.; skin salmon color; flesh bright yellow; fair quality; great exhibition sort. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.

Mammoth Tours—Immense size, often weighs 100 pounds. Oblong; skin green; good exhibition sort or for feeding stock. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Tennessee Sweet Potato—Bell shape; medium size, thick flesh, skin creamy white, fine grained, sweet, delicious. Very fine for pies. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Large Sweet Cheese

Best for Canning. Has heavy, thick, sweet meat; large, round, flattened variety, with creamy-buff skin. An excellent keeper, and very productive; good quality. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Small Sweet or Sugar

This is the small, sweet Pumpkin that has made the New England States famous for their pumpkin pies. It is a very fine grained, most deliciously sweet-flavored sort. Splendid keeper. They average about 10 inches in diameter. Deep orange-yellow color. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Livingston's Pumpkin Mixture

One Sowing Furnishes Pumpkins for the Season. Especially offered to those who wish to grow a grand collection of Pumpkins for Fall fairs. Large pkt., 10c.; oz., 20c.; ¼ lb., 50c.

Ruibarbo

Rhubarb, or Pie Plant

Rhabarber

Requires a deeply cultivated and thoroughly manured soil. Sow the seed early in the Spring, in rows 1 foot apart; the second year after planting, the roots can be removed in the Autumn to the permanent place in the garden allotted to them. Plant the roots 2 feet apart each way. One ounce of seed gives 500 plants.

Victoria—In general use for market and home garden. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Rhubarb Roots are offered on page 56.



Our Strain Rosy Gem Radish Produces Very Uniform Roots.

Babanitos Radishes Radieschen

All varieties thrive best in light, sandy loam. For early use, sow in the hotbed in February, giving plenty of ventilation, or outside in the garden, in drills, as soon as the soil is warm and dry, covering the seed about half an inch deep. Sow every two weeks from March until September for a succession of crisp Radishes for continued use. Radishes must grow rapidly to be crisp, mild flavored and tender. We offer a very fine assortment. One ounce of seed will plant 100 feet of drill; 8 to 10 pounds for an acre.

Round and Olive-Shaped Sorts

Rosy Gem

(See illustration above)—One of the earliest; is perfectly globular; a rich deep, brilliant scarlet at top, blending into pure white at the bottom, exceedingly tender and crisp; most delicious; adapted to greenhouse sowing and culture; desirable for market or home garden. A fine variety. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Scarlet Turnip White Tip

Handsome, bright scarlet, with white tip; most attractive, quality splendid. Similar to Rosy Gem but more desirable for outside growing. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

French Breakfast

Of quick growth; very mild and tender; of an oval form, scarlet tipped with white. One of the best real early sorts for home garden. Popular with many growers. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.



Sparkler

Scarlet Globe

This splendid globe Radish is the very finest early strain of the round, bright red Radishes. Nothing can surpass its table excellence or its beauty. The skin is a bright scarlet; flesh pure white, crisp, tender and of delicious quality. Fine for market gardeners as first-early forcing Radish. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Crimson Giant

A variety combining earliness and great size. It grows much larger than other extra-early varieties, but does not become pithy, even when fully twice as large in diameter and a week older; beautiful crimson-carmine; turnip-shaped; flesh firm, crisp and tender. We recommend it for outdoor garden planting as well as for greenhouse forcing. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Model White Box

Short top, of rapid growth; perfect turnip shape; extra fine quality, remaining solid and juicy for a long time; is especially suitable for growing under glass in frames. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Early Snowball

One of the quickest growing, besides being one of the prettiest round varieties in the whole list; white as snow, smooth as glass, very crisp and extremely tender. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Early Golden Yellow Oval

A very fine olive-shaped variety. Flesh is white and tender. Fine for forcing or out-door culture. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.



Non Plus Ultra, or Fireball

Non Plus Ultra (or Fireball)

The earliest forcing Radish in cultivation. A pretty little round Radish; deep rich scarlet in color; tops very small; crisp, tender, white flesh; a little earlier than Scarlet Globe, but not so large. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Early Scarlet Turnip

Quite early, small, round Radish; skin is of a rich scarlet color. This splendid old variety is a great favorite with market gardeners and especially so for kitchen gardens. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Sparkler

A splendid variety of the Scarlet Turnip White Tipped type, but showing more white, practically the whole lower part being white, while the upper half is a bright scarlet. It makes a fine show on the market bench, is very attractive, and is of good quality. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Early Long Radishes

Long White Icicle

Grows about 4 inches long; slightly stump-rooted, and of transparent whiteness; short leaves, matures quickly; most excellent flavor; equally desirable for home or market gardens. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Wood's Early Frame

A few days earlier than the Early Long Scarlet Short-Top, which it resembles; an excellent half-long forcing variety, and for first sowing outside, as it is quite hardy. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Half-Long Deep Scarlet

Color deep, rich red. Shape half-long, tapering. Flesh pure white, crisp, tender, brittle, not becoming pithy for a long time. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Cincinnati Market

This superb Radish originated in the vicinity of Cincinnati, Ohio, with the Market Gardeners there, and has been continually used by them for many years. We introduced it to our trade in the Spring of 1895, and it has become so deservedly popular that we have had to grow it ever since by the thousands of pounds to supply the demand. The tops are so small that the Radishes may stand touching each other in the rows. The Cincinnati Market Radish grows straight and smooth, 6 to 7 inches in length. (See illustration.) The skin is a beautiful scarlet, very thin, the flesh crisp, brittle, and of delightful flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Livingston's Pearl

A beautiful pearly-white, half stump-rooted variety of exceptional merit. It is very firm and solid and after having reached its best condition, it remains in good shape for some two weeks before becoming woody or showing any signs of going to seed. It is a Radish we can heartily recommend and a variety which for all purposes is first-class. Every one who likes a long, white Radish should plant Livingston's Pearl. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

"True Blue" Seeds and Service Please and Satisfy Everybody

Wm. A. Shaw, Allegheny County, Pa., writes:

"As you know, last season was my first one in trying my hand at gardening, and that I made good is putting it very mild; while I put in a lot of work on the garden and at least three months reading the best books on the subject, I consider the quality of the seeds you sent me contributed most to my success."

Brightest Long Scarlet

(Cardinal White - Tipped) — Resembles Early Long Scarlet Short-Top in shape and size, but is of a lighter shade of scarlet; extra-early; white-tipped; a rapid seller. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

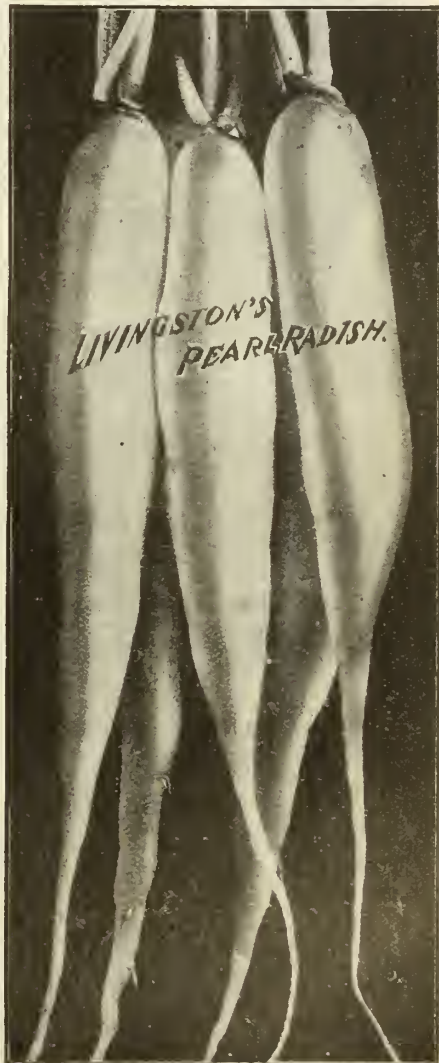
Early Long Scarlet Short-Top

Admirable for forcing; the leading outdoor quick-growing variety, both for private and market gardens; the average length is 6 to 8 inches; grows about half out of the ground, straight, uniform; tops small; bright scarlet in color, brittle and crisp. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Our Big Dollar Collection of vegetables offered on 2d cover page is sure to please you.



Cincinnati Market



Facts About the Livingston Business

We started on a farm. Early in life we realized the importance of good seeds. We are extensive seed and plant growers. Sixty years' experience to produce the Best come now to your aid when you buy from us. We originated and introduced 25 of the best varieties of Tomatoes. The finest strains of Ohio-grown Onions are raised by us. Some of the best Musk Melons in cultivation originated with us. Since 1876 our business has been growing continually with but little advertising. Our customers advertise for us; they are satisfied that "True Blue" products are the Best. Selling the Best at a reasonable price is our maxim; quality first, price second consideration. We do not figure how much money we can get for a small amount of seed, but how many good seeds and plants we can give for a small amount of money. Honesty, Liberality and Promptness are the factors which helped us to make the friends we have. We aim to merit friendship by serving customers right. Our standing orders are to give Top-Notch service to those who patronize the Livingston business.

Summer Radishes

Lady Finger

Or Long White Vienna

Beautiful in shape; skin and flesh are pure white, very crisp and tender, a most rapid grower and long standing. A fine variety. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Improved Chartier

A distinct and exceedingly attractive sort; a clear rose colored long Radish, shading into pure waxy white at the tips. Attains large size. Perhaps one of the best Early Summer Radishes for the open ground. Grows very fast; ready for use or market early; keeps crisp a long time. Should not be sown until the ground is warm. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Golden Globe

Most perfect globe shape; golden colored skin; very quick grower; white flesh, tender, brittle; long standing. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

Gray Summer Turnip

Crisp and tender; one of the most brittle Summer Radishes; skin gray; flesh white. A very choice variety. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Special Prices on Large Quantities of Radish Seed.

REMEMBER we pay the postage on all seeds by the packet, ounce, quarter-pound, pound, two pound, unless noted otherwise. For complete information about "Seeds by Mail" see page 3.

White Delicious

This elegant sort has proven a decided acquisition. Roots are of distinct half-long form, tapering to a point. They grow to good size, are of handsome appearance, and the pure white flesh is crisp, solid and of mild flavor until the Radishes become unfit for use. It does not grow so quickly as White Vienna, but is in good condition much longer. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 85c.

Large White Summer Turnip

A favorite with market gardeners. Round, smooth; very white; crisp and tender; of large size. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Giant White Stuttgart

Of large size; in shape like a top; flesh and skin white; fine quality; firm and brittle, never pithy; can be stored for Winter the same as Turnips. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 85c.

White Strasburg

Handsome, oblong, tapering shape; both skin and flesh pure white; flesh firm, brittle, tender, and possessing the most desirable character of retaining its crispness, even when the roots are quite large. Excellent for Summer use, as it withstands severe heat and grows quickly. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 85c.

E. C. Lonnesberg, Wayne Co., Mich., writes, Nov. 12: "You will be interested to know that I am using Livingston's Crisp-as-Ice Lettuce now from my open garden, when all other varieties are frozen and gone."

White Delicious

White Strasburg

Rabanos Winter Radishes Rettige

Sown in Summer and Used in the Fall, or Put Away as You Do Turnips for Winter Use.

Chinese Rose Winter

A very handsome and distinct variety; color bright rose; crisp and tender; cylindrical in shape; very smooth; very desirable sort; keeps splendidly through Autumn and Winter. A big seller. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Round Black Spanish

Similar to Black Spanish except in shape; fine for Winter. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Long Black Spanish

Grows 5 to 8 inches long, 1 to $1\frac{1}{2}$ inches through at top; skin black, flesh white and firm. One of the oldest but nevertheless one of the best Winter sorts. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Long White Spanish

Differs from Long Black Spanish in color only. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

Scarlet Pamir

Fine, deep red, turnip-shaped sort of crisp, mild flavor; one of the best. Crop short. Pkt., 10c.; oz., 15c.

White Chinese

(New Celestial)—(See illustration alongside.) A large stump-rooted Radish with white skin and flesh. Can be sown from July 1 to August 15, and will keep in prime condition a long time; mild in flavor, brittle and never woody. Fine for market gardeners. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

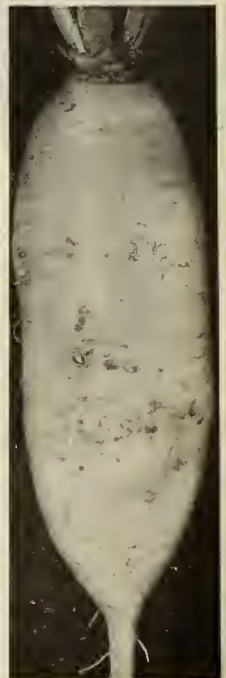
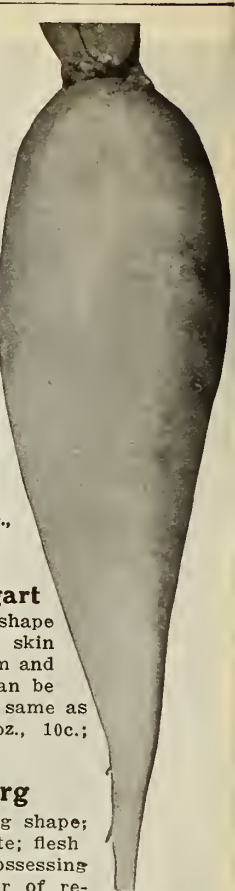
Livingston's All-Seasons Radish Mixture

Livingston's All-Seasons Mixture of Radish Seed contains all shades and shapes—red, white, pink and variegated; round, half-long and long, in great variety. It is all the go for small gardens, where space is limited, and you want to make a garden and be done with it. One sowing does for the whole season, as they become ready for your table early, medium and late. **You always have some that are just right—sweet, juicy, delicious, crisp.** You will be surprised and delighted with our popular Radish Mixture. **Your garden will not be complete without a bed of these Radishes.** Large packet, 10c.; oz., 15c.; 2 ozs., 25c.; $\frac{1}{4}$ lb., 35c.

White Chinese Winter



Chartier or Shepherd



Sidracayote

Squashes

Plant after weather has become firmly settled and the ground is warm and dry in hills 5 to 6 feet apart for bush varieties, and 6 to 8 feet apart for running varieties. Hills should be thoroughly manured. Slightly elevate the hills and place 7 or 8 seeds in each, finally leaving but three plants. Press the seeds down firmly before covering, and cover early planted ones, 1 inch deep, and late ones 1½ inches. One ounce of the Bush varieties for 40 hills, or of the large-seeded Winter kinds for 15 hills; 2 to 3 pounds of the Bush sorts, or 4 to 5 pounds of the large-seeded Winter kinds are needed for one acre.

Gregory's Delicious

The result of years of selection and crossing, the Hubbard having been prominently used in its make-up. Green when matured. Flesh thick, dark orange in color; dry, sweet and of rich flavor. Is best as Fall and Winter variety, improving with age. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Livingston's Pie Squash

Rich, Sweet Flavor. Makes Good Pies Without Eggs. The color of the skin is similar to that of the Golden Russet Apple. Flesh yellow and very thick. Quite early, surprisingly productive and a rapid and hardy grower. The very finest for pies, making good ones even when eggs are not used. Size 8 to 10 inches in diameter. Large pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Giant Golden Summer Crookneck

The largest and best of all Summer Crookneck Squashes. Of a dwarf, bushy habit and very productive; bears early and all Summer; true Crookneck type; rich golden yellow color; thickly warted. Its cooking qualities are unexcelled. One of the best varieties for the market or table use. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

Mammoth Yellow Bush Scallop

(Golden Custard)

Decidedly the best strain of Yellow Scalloped Summer Squash. Double the size of the old sort, retaining all its good points. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Fordhook

Convenient size for family use. Flesh dry and sweet, and seems incapable of rotting; if placed in a cool, dry room, keeps in a perfect condition throughout the Winter and Spring, until late in June. The thin, hard stem and roots, furnish absolutely no food for the squash borer. Maturing early, it is a sure cropper and immensely productive. Skin thin and meat thick; seed cavity small. May be used at any stage of growth. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

them, especially when other varieties are near. Can be grown among corn, same as pumpkins; and yield a good crop, but the better way is to grow them separately on good rich soil, in hills 10 to 15 feet apart each way. Sells well on market and should be in the hands of every grower. Pkt., 5c.; oz., 15c.; ¼ lb., 45c.; lb., \$1.50.



Early White Bush, or Patty Pan

Early White Bush, or Patty Pan

Bears fruits ready for use very early in the Summer. Of true bush habit and very productive; should be eaten when young and tender. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Mammoth White Bush Scallop

Excellent large strain. Nearly as early as the common sort; creamy white; splendid for market or home garden; good shipper. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

Boston Marrow

Of oval form and thin skin. Color a rich orange; of good size, excellent flavor and keeps well. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Essex Hybrid

Hard shell; solid, thick-fleshed, fine grained, rich flavored; prolific, and of the best quality. Flesh rich orange color. Turban shape. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Livingston's Improved Cushaw Squash

The genuine Cushaw of "ye olden times," and a great favorite. Very beautiful in appearance, being a distinct mottled green and white striped. Flesh yellow, solid, fine grained, very sweet, and excellent for pies; also good for baking. They average about 15 pounds, but on good rich soil 30-pound specimens are common, and even 35 to 40 pounders are found. They are hardy, and bugs seldom eat

Jos. McAllister, Palm Beach Co., Fla., writes: "I have had excellent success with your seed and consider them the best seeds on the market anywhere. Thanking you for promptness in filling my order, I am."

W. H. C. Lee, Harris Co., Texas, writes: "I have failed to secure seeds of merit by monkeying with local seed houses. Seed generally no good. I have always had success in getting good stands when I bought seeds from you."

Mr. G. W. Harbarger, Jackson County, Ohio, writes, April 6th, 1916: "Years ago, when I was Superintendent of Infirmary, I had very satisfactory dealings with you, and found your seeds so reliable that I want to renew our acquaintance, and I write to ask you to mail me your catalogue."

"I will have a little garden here and I may want something for my farm in the country."

Other Squashes On Page 48



Livingston's Improved Cushaw



Hubbard

Hubbard

The Standard Winter Squash—It is of good size, often weighing 9 to 15 pounds. Color bluish green. Flesh fine grained, sweet, and of excellent flavor. Has a very hard shell and will keep until Spring. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.

Golden Hubbard—Color bright, rich, orange-red; showy and attractive. Shell hard and warty. Flesh deep golden yellow, fine grained and of splendid flavor; cooks dry. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.

Espinaca Spinach Spinat

Spinach will succeed finely in any ordinary soil, and its cultivation is a very simple matter. It is grown both as a Spring and Summer crop. To winter over for Spring use, plant the seed in August or September, in drills 12 to 14 inches apart. At approach of cold weather, cover lightly with straw or any handy litter. Uncover the plants when they begin to make a new growth in the Spring. For Summer use sow early in Spring. Thin to 3 or 4 inches. **One ounce of seed for 50 feet of drill; 12 to 16 pounds for an acre.**

Improved Thick Leaf (Viroflay)

The market gardener's favorite for Fall or Spring sowing. A great favorite in all parts of the country, as it furnishes an abundance of heavy, broad, dark green leaves of finest quality and appearance. The leaves are attractively curled, and on account of their firmness and substance they remain in prime, salable condition for a long time. Also excellent for home use. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

New Zealand—See illustration. A distinct type of Spinach. The plants grow in branching form, with thick, succulent leaves. The leaves and stems can be gathered at any time after they are well grown and the plants will start out into new growth. Thrives during hot weather and in any soil. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Victoria—An excellent sort, whether grown for home use or market. It may be sown with equally good results either in the Spring or during late Summer and Fall. The plants are fit for use early and remain in good marketable condition much longer than most other kinds. The leaves are very thick and juicy and, when prepared properly, develop a delightfully distinct, mild flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Bloomsdale Savoy—Large wrinkled leaves, upright growth; fine quality. Earliest variety, but will not stand long. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Prickly Seeded Winter—A fine variety with triangular, oblong or narrow-shaped leaves. Hardest of all, therefore best for Fall sowing where Winters are severe. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 45c.

"Long Season"—Of flat spreading, but compact growth, this sort is especially noticeable for its short-stemmed, dark-green leaves, which are heavily crumpled and savoyed. For marketing during the warm Summer months, it is unsurpassed. Stands longer before going to seed than any other sort on our list. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 55c.

Squashes (Continued)

Chicago Wartyed Hubbard—Large size, dark green color, distinguished by a dense covering of knots (warts), a sure indication of splendid quality; thick flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 90c.

Dunlap's Prolific, or Orange Marrow—The earliest of the Fall varieties, and much sooner ripe than any other Marrow Squash. Very prolific, a bright orange red; it is a general favorite; its quality is the best. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.

Mammoth Chili—Oblong, productive; profitable for stock. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Mammoth Whale—Often grows 3 feet long; sometimes weighs 100 pounds or over. Slate color; prolific; flesh solid, orange color; quality good; keeps well; suitable for stock. Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

Livingston's Squash Mixture

One sowing will produce Squashes for the season. This mixture contains a great variety of Summer and Winter Sorts, just suited for growing for exhibition or table use. Large pkt., 10c.; oz., 15c.; ¼ lb., 35c.

Salsif Salsify or Oyster Plant Haferwurzel

When properly cooked it is a good substitute for oysters in taste and flavor, and is very nutritious. A most palatable vegetable; the cultivation is precisely the same as directed for Parsnips and Carrots. Salsify will keep finely through the Winter, in the ground where sown, in exactly the same manner as Parsnips. The roots are perfectly hardy; in fact, they are best after the frost has touched them.

When cooking, boil with the roots a small piece of codfish, which should be discarded when the salsify is done; codfish strengthens the oyster flavor. When cold, mash, and fry as patties or fritters. This vegetable is also good stewed, plain boiled, and also as a salad, sliced raw in vinegar with pepper and salt. Sow early in drills 18 inches apart and cover firmly one inch deep; thin to three inches apart in the drills. **One ounce of seed will sow fifty feet of drill; eight pounds is sufficient to plant an acre.**

Mammoth Sandwich Island

This splendid variety will average nearly twice the size of the White French Salsify. Grows very uniform. Mild and delicious in flavor. A popular sort with all growers. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.



New Zealand

Ruben Turnips Nabos

First-early varieties of Turnips should be planted just as early in the Spring as the ground is dry and warm. Sow them in drills, beds, or later broadcast, or among corn. The Ruta-Baga varieties, and also the early sorts, will do better if planted in drills; make the drills at least 18 inches apart, and thin out the plants when well up to six inches apart. Cultivate often and thoroughly. We call especial attention to the fact that the Ruta-Baga varieties should be planted as soon as possible after the middle of June, as they need a longer season than the earlier sorts of Turnips. One ounce of seed sows 100 feet of drill; one pound an acre.

Extra-Early Purple-Top Milan

The earliest of the flat Turnips, with a beautiful purple top. They are mild and sweet. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

Extra-Early White Milan

Similar to Purple-Top Milan, except it has pure white skin and flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Early Snowball

Medium-sized round Turnip; pure white, very fine flavor. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Early White Egg

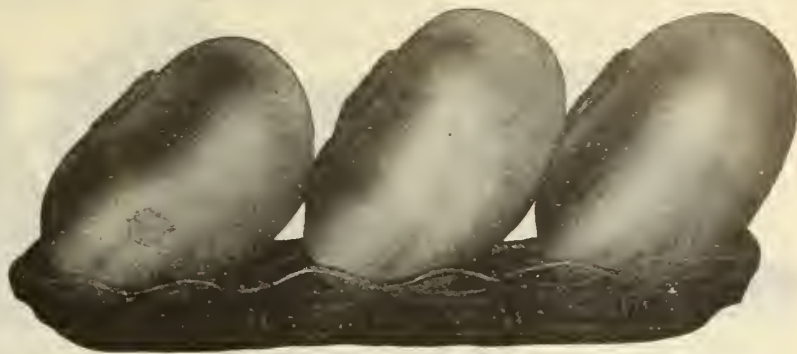
An early variety. Flesh white, firm, fine grained, mild and sweet. A fine Turnip for Winter use. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 85c.

Early Flat Dutch, or White Strap-Leaved

A standard flat variety; good size; pure white; small top, few leaves; good early or late. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Long White, or Cow Horn

Long; grows rapidly, partly above ground; slightly crooked; productive; white, fine grained, very sweet. Used for plowing under to improve the soil. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.



Purple-Top Strap-Leaved Turnips. Pkt., 5c.

Purple-Top White Globe

A variety of decided merit. Globular shape, and of superior quality, either for the table or stock; heavy yielder. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Purple-Top Strap Leaf

A popular variety for family or market use; white, purple above ground; flesh fine grained; good for Winter use or late planting. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Large White Globe

Similar to Purple-Top White Globe, except in color, which is pure white; firm, sweet flesh. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Yellow Globe, or Amber

Sweet; large; fine for table or stock. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

Golden Ball, or Orange Jelly

Rapid grower; globe shaped; is bright yellow. The best of the yellow sorts for table use. Keeps well. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

Seven Top

Cultivated extensively for the tops, which are used as greens. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

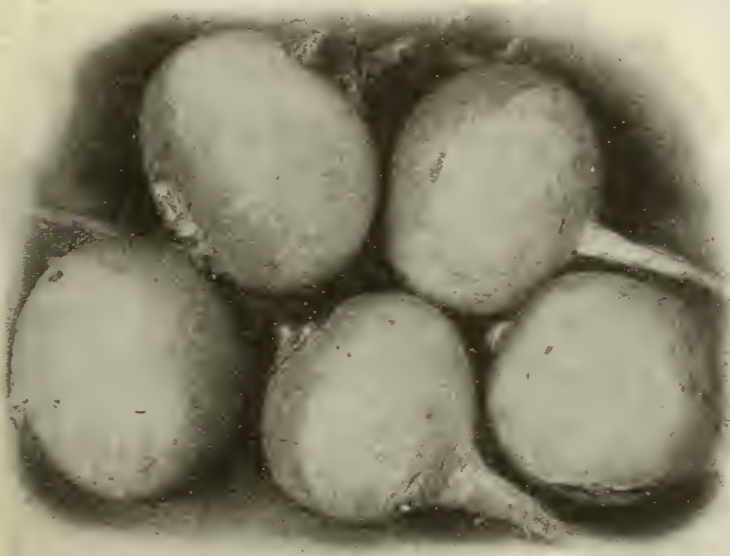
Ruta-Bagas

(Swedish or Russian Turnips)

Ruta-Bagas are more especially adapted to sections north of Ohio. They require a longer season for maturing, hence should be sown earlier than Turnips, or about July 15.

Improved American (Purple Top)—Very hardy and productive; flesh yellow, sweet and solid; good for stock or table use. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

White Russian, or Large White—Grows very large; excellent for table or stock; flesh is firm, white and solid; the best keeper of any white variety. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.



Purple-Top White Globe Turnips

Mrs. D. N. Coberly, Clark Co., Ohio, writes us as follows: "I have ordered garden seeds from Livingston's the past three years, and always fined them reliable and true to name. I have come to look upon Livingston's Garden Seeds as standard."



Livingston's Famous Tomatoes

New Varieties and the Growing of Large Quantities of Seed Our Specialty

We Grow More High Grade Tomato Seed Than Any Other Establishment in the World

If it were possible for every one who reads these lines to go with us to our seed farms and trial grounds northwest of the city, or to our Kirkersville farms, nearby, some idea could be gained of the extent to which Tomato growing for seed is carried on by us. As is well known, we are situated in the best Tomato growing section of the world, but all Tomatoes we grow are for seed purposes only and no portion of the crop is ever marketed. When it is considered that each year our Tomato seed crop is measured in tons and that it requires tons of seed to fill orders from growers (not other seedsmen) some idea of the magnitude of the industry can be formed. What has created this industry?

Back in the fifties the founder of our business, the late Mr. A. W. Livingston, began making a special study of the Tomato. His efforts were crowned with great success and has been kept up by our Company until to-day we have to our credit a fine series of really new, distinct and decidedly meritorious varieties. As our varieties have been introduced from time to time, they have been recognized, at once, even by the most ordinary grower, as having a distinctiveness all their own, and are not, as is too often the case, an old sort under a new name, or so near like sorts already on the market as not to be recognized by the naked eye.

In 1870, the "Paragon" Tomato was offered for sale and today you can purchase Paragon Tomatoes of practically the same form and size as when introduced over forty years ago. The type was fixed and has remained so all these years. In rapid succession followed the introduction of Livingston's "Acme," "Perfection," "Favorite," "Beauty," "Stone," "Globe," etc., etc., each having some particular merit as to size, color, season of ripening, etc., and in all, some twenty-six varieties have been introduced.

Livingston's Tomatoes are known all over the world. They are the standard by which other varieties are judged. It has required years of careful study and a vast amount of labor to develop the various types and the work goes

on in constant effort to maintain the high standard to which Livingston's Tomato seeds have attained.

It is needless to assure our friends that we are constantly keeping at it, improving and reselecting all the sorts introduced by us. The standard of quality of our Tomatoes is higher to-day than it has been at any previous time, and it will be kept up as long as Livingston's have anything to do with it. We take great pride in giving herewith a list of varieties introduced by us and the years in which they were first sent out. No doubt you'll find some old, familiar sorts that have "made good" with you among these varieties.

Livingston's Paragon	.....	in 1870
Livingston's Acme	.....	in 1875
Livingston's Perfection	.....	in 1880
Livingston's Golden Queen	.....	in 1882
Livingston's Favorite	.....	in 1883
Livingston's Beauty	.....	in 1886
Livingston's Potato Leaf	.....	in 1887
Livingston's Stone	.....	in 1889
Livingston's Royal Red	.....	in 1892
Livingston's Gold Ball	.....	in 1892
Livingston's Buckeye State	.....	in 1893
Livingston's Aristocrat	.....	in 1893
Livingston's Large Rose Peach	.....	in 1893
Livingston's Honor Bright	.....	in 1897
Livingston's Dwarf Yellow Prince	.....	in 1898
Livingston's Magnus	.....	in 1900
Livingston's Aristobright	.....	in 1901
Livingston's Royal Colors	.....	in 1901
Livingston's Dandy Dwarf	.....	in 1901
Livingston's Multicolor	.....	in 1901
Livingston's Princess	.....	in 1901
Livingston's Grandus	.....	in 1901
Livingston's Dwarf Stone	.....	in 1902
Livingston's Purple Dwarf	.....	in 1903
Livingston's Globe	.....	in 1905
Livingston's Hummer	.....	in 1907
Livingston's New Coreless	.....	in 1908

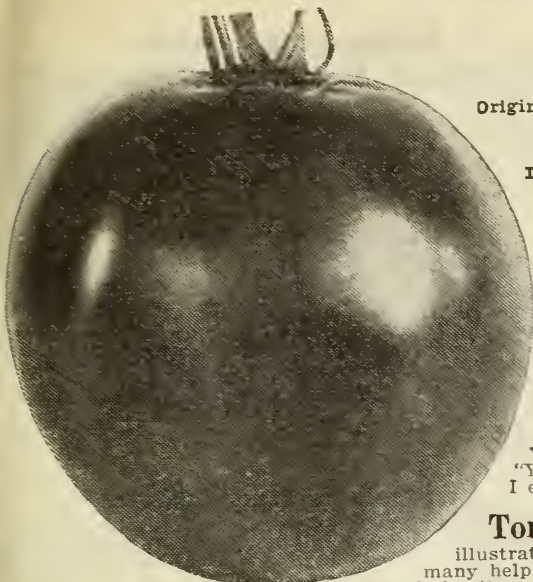


LIVINGSTON'S
STONE TOMATOES GROWN ON STAKES
KIRKERSVILLE FARMS

Livingston's Globe Tomato

THE GREATEST SHIPPING TOMATO KNOWN

Originated With Us and Introduced in 1905. The Finest Early Purple Tomato in Existence. Very Distinct in Shape, Firm Fleshed, of Delicate Flavor. Almost Blight Proof.



Livingston's Globe

Livingston's Globe is an extra good all-round sort, of a distinct globe shape, with quite a large percentage of elongated fruits, on account of its shape, one that permits of a great number of slices to be made from each fruit. We class it with the first earlies, both in green-houses as well as in the field. The fruits are of large size, and a good marketable size is retained throughout the season. It is always smooth, of firm flesh, and few seeds; ripens evenly; color, a fine glossy rose, tinged with purple, and without the slightest tinge of yellow at any stage of ripening. It is an exceedingly productive variety. In quality there is nothing more to be desired, being mild, pleasant and of delicious flavor. There is no better variety for green house growing or for early growing on stakes or trellises. Its blight-proof qualities are remarkable. May be picked quite green, will carry to distant markets in excellent shape and ripen up uniformly. Pkts., 5c. and 10c.; ½ oz., 15c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.25. Special prices in large quantities.

W. A. Montgomery, Saint Tammany Co., La., writes, June 10, 1916: "Your Globe is certainly a world beater. I am shipping the finest crop I ever saw; made first shipment May 10th."

Tomato Facts

is the title of a unique booklet published by us. It tells all about Livingston's Famous Tomatoes and is illustrated with many half-tone reproductions from photographs. Contains many helpful hints on plant production, culture, etc. Free to customers who ask for it.

Warning

We do not sell Tomato Seeds to dealers in bulk. All our Tomato Seed is put up in packages bearing our registered "True Blue" Seal. When you walk into a store and see Livingston's Stone, Livingston's Globe, Livingston's Beauty, etc., displayed on the counter in a bag without our blue seal, that packet does not contain Livingston's Tomato Seed. We sometimes receive complaints that seeds bought at stores do not turn out as well as ours. The reason: Livingston's Tomato Seeds can only be bought from Livingston's or from reliable dealers who handle our seeds in original bags with the "True Blue Seal."



Our True Blue Seal

Geo. H. Chamberlin, Winnebago, Ill., writes, Oct. 2, 1916: "Hot and dry all summer, your Stone Tomatoes and Tip Top Melons have made the finest crop I have ever seen."



Livingston's Stone

Livingston's Stone

THE GREATEST CANNING TOMATO IN THE WORLD

The Largest, Bright Red, Perfectly Smooth, High-Yielding, Best-Keeping, Finest-Flavored Main-Crop Variety in Existence.

Introduced by Us in 1889.

Livingston's Stone is always of good size, deep through from stem to blossom end and very firm. Skin is bright scarlet, perfectly smooth and strong enough to stand shipping and long distance hauling to perfection. Flesh is very solid, and of finest flavor. Seed cells are small and few. Livingston's Stone is now recognized by all as the greatest canning Tomato. We alone supply enough seed to the leading Tomato growers and canners every year to produce millions of plants. Order direct from us to get seed of our growing. Pkts., 5c. and 10c.; ½ oz., 15c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.25.

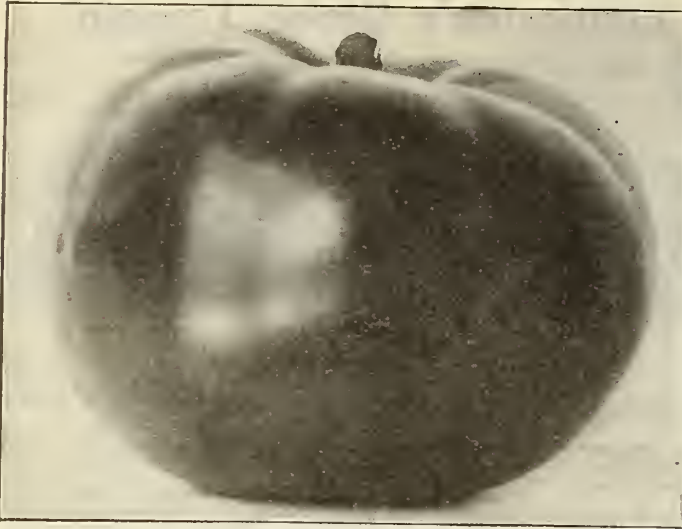
Livingston's Beauty

The greatest of all Purple-Colored Home Market Sorts. Strong Grower, Very Productive. Large, Smooth and Early. (Introduced by Us in 1886.) Although introduced by us so many years ago, this is still one of the most popular purple-colored Tomatoes. The plants make a strong growth, are hardy and bear plentifully. The fruit is produced in clusters of 4 to 6, is large, of perfect shape, and retains its size until late in the season. It ripens early, has firm flesh of excellent quality, and the seed cells are very small. For home market it is excellent. May be picked quite green; will ripen up nicely, look well and keep in perfect condition for several days. Pkts., 5c. and 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 85c.; lb., \$3.00.

Livingston's Beauty



Livingston's Beauty



Livingston's Paragon

Livingston's Paragon

(Introduced by Us in 1870.) This was the first perfectly smooth, deep red Tomato ever offered to the American people. We have endeavored to keep it up to the original high standard, and there are many gardeners and catsup-makers who today, after 40 years, would not have any other kind for a main cropper. It is an immense yielder. In time of ripening, a medium early. The fruits are of large size and remain so throughout the season. Flesh is solid, of superior quality and of appetizing appearance. Pkts., 5c and 10c.; $\frac{1}{2}$ oz., 15c.; oz., 30c.; $\frac{1}{4}$ lb., 85c.; lb., \$3.00.

Livingston's Royal Red

(Introduced by Us in 1892.) A first-class variety, bright red and handsome. Desirable for canning and catsup-making. Pkts., 5c. and 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 80c.; lb., \$2.75.

Livingston's Perfection

(Introduced by Us in 1880.) Livingston's Perfection may fittingly be described as an improved Acme with red skin. Skin is tough, fruits remarkably solid; hence a good shipper. It is a medium sized, smooth, bright-red sort of excellent quality. It ripens earlier than Stone, keeps its good size to the end of the season and is excellent for either market or home use. Used in northern sections for canning because early. Pkts., 5c. and 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.

Livingston's Hummer

Originated by Us and Introduced in 1907

Is round as a ball, smooth as an apple, a good variety for forcing, very prolific, and has very little indenture about the stem end. The color of the fruit is very attractive bright scarlet. The flesh is a rich crimson scarlet, and of the very best quality. In size an excellent variety for canner's use, as a large percentage of the fruits can be put into the can whole; quite early; desirable in latitudes where the crop must be produced in a short time.

It is hard to beat for market and home garden. It is a healthy, vigorous grower of medium-sized vines. The fruit itself is solid. Pkts., 5c. and 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 80c.; lb., \$2.75.

Mr. Michael Spreitzer, St. Louis County, Mo., writes: "I have used your Tomatoes for eight years and find them to be the best I can purchase; use from five to ten thousand on stakes."

Livingston's Favorite

(Introduced by Us in 1883.) Livingston's Favorite will always be that which its name implies—a Favorite with canners and in the home garden. Favorite is one of the best shaped, large, bright red Tomatoes. The fruit ripens evenly, is always smooth, and holds its size to the end of the season. Flesh is of good flavor, very solid. Pkts., 5c. and 10c.; $\frac{1}{2}$ oz., 15c.; oz., 30c.; $\frac{1}{4}$ lb., 85c.; lb., \$3.00.

Livingston's Acme

(Introduced by Us in 1875.) As a shipping sort for growing in Southern States it is one of the best. This was the first perfectly smooth, large purple Tomato introduced. Today, after thirty-five years, it is still the leading sort with extensive growers in the South, particularly in Texas. It is a smooth, uniform, medium-sized, early, purple-fruited sort, very prolific. Fruits in clusters of four or five, are of medium size and free from cracks; are solid and stand long-distance shipment; quality fine. Pkts., 5c. and 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.

Livingston's Honor Bright

(Introduced by Us in 1897.) The distinctive features of this sort are its solidity, long-keeping qualities after being picked and the remarkable changes of color the fruit undergoes during growth and ripening. First it is light green, then an attractive waxy-white, then lemon-yellow, finally changing to a rich red. It can be shipped in crates like apples, if picked when in the yellow stage of ripening. Fruits ripen very evenly. Flesh is tender and melting. Pkts., 5c. and 10c.; $\frac{1}{2}$ oz., 15c.; oz., 30c.; $\frac{1}{4}$ lb., 85c.; lb., \$3.00.

Livingston's Golden Queen

(Introduced by Us in 1882.) "Queen of all the Yellows." Of superior flavor, it is solid, always smooth, entirely free from ridges, large in size, ripens early. Fine for slicing. Pkts., 5c. and 10c.; $\frac{1}{2}$ oz., 15c.; oz., 30c.; $\frac{1}{4}$ lb., 85c.; lb., \$3.00.

Livingston's Gold Ball

(Introduced by Us in 1892.) Beautiful canary-yellow; flesh thick, fine quality; handsome color; very productive. Pkts., 5c. and 10c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 80c.; lb., \$2.75.

Miss Alpha Owens, Johnson Co., Ind., writes 3-11-16: "We

want to buy some Tomato Seed as we think yours are the best we can get."



Livingston's Hummer

Special Prices on any kind of Tomato Seed in Large Quantities.

Livingston's Buckeye State Tomato

(Introduced by us in 1893)—The largest Tomato bearing our name. The extra large fruits are borne in clusters of three to six. Buckeye State has a smooth skin of dark purple color. The fruit is very meaty, solid, and the flesh is of most desirable quality. The principal objection to "mammoth" sorts has been their rough and uneven skin. In Livingston's Buckeye State we have been successful in eliminating these weak points, and planters everywhere will appreciate the beautiful large fruits, which are exceedingly showy and find a ready sale. Pkts., 5c. and 10c.; ½ oz., 20c.; oz., 35c.; ¼ lb., \$1.15; lb., \$4.00.

Livingston's Improved Dwarf Champion

Bears fruit fully one-third larger than the original Dwarf Champion in all kinds of soils. Fruit is produced in clusters of three to five. Of a beautiful glossy purple; firm, solid, thick flesh, with large meaty center. Pkts., 5c. and 10c.; ½ oz., 15c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Livingston's Dwarf Stone

(Introduced by Us in 1902)

The advent of Dwarf Stone marked a new epoch in Dwarf Tomatoes. The fruits are larger than those of Dwarf Champion and nearly as large as those of our Standard Stone.

It is very prolific. Fruit smooth; ripens evenly. The color is bright red. You may set the plants of Livingston's Dwarf Stone as close as 15x24 inches and still produce an abundant crop. Pkts., 5c. and 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 85c.; lb., \$3.00.

Livingston's Dwarf Purple

(Introduced by Us in 1903)

Large fruited Dwarf-growing purple Tomato. Smooth and not liable to crack. Flesh solid and thick, with few seeds. Pkts., 5c. and 10c.; ½ oz., 15c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Livingston's Dwarf Aristocrat

(Introduced by Us in 1893)

This Tomato in habit of growth and foliage resembles the Dwarf Champion, but the color is a beautiful rich, glossy red. The size, solidity, productiveness, smoothness, flavor of its fruit are all that are to be desired. Pkts., 5c. and 10c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

Livingston's Dwarf Yellow Prince

(Introduced by Us in 1898)

A very choice Dwarf-growing yellow Tomato. Very early. Flesh is solid and the flavor is desirable. Of large size and beautiful shape. When sliced with red or purple sorts it is highly ornamental. Pkts., 5c. and 10c.; ½ oz., 20c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.



Livingston's Coreless

Livingston's Coreless

(Originated by Us and Introduced in 1908)

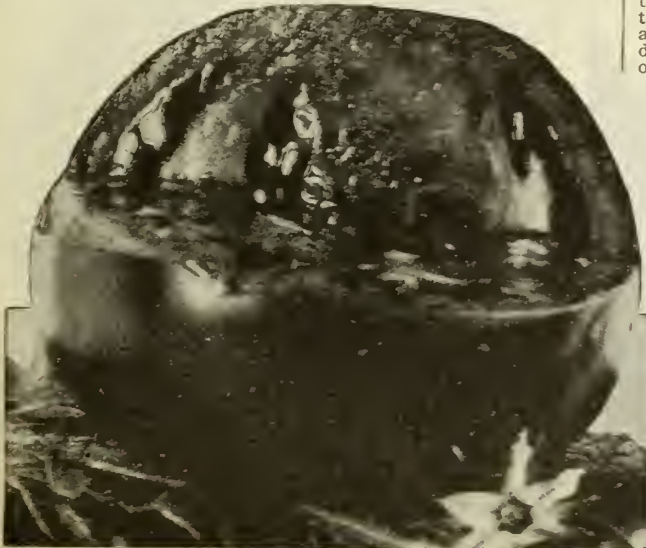
A Perfect Shaped Canning Variety of Large Size, Globe Shaped, Full at Stem End; Bright Red, a Strong Grower and a Big Cropper.

All markets requiring a bright-red sort will be pleased with Livingston's Coreless. In shape it is almost round, being of about the same diameter each way. The depression at the stem end has been almost eliminated, making a profitable variety for canning owing to a very small amount of loss in material and labor. Is immensely productive, clusters of 4 to 7 fruits are produced at six to eight inches apart along the stem. All of the fruits are of marketable size, and many of them are quite large, twelve to fifteen ounces. A grand, good slicing variety, the seed cells being surrounded by bright-red, heavy, meaty and delicious flesh. Its color is that bright, rich red so desirable in a canning sort. Pkts., 5c. and 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

Livingston's Magnus

One of the Finest for Growing on Stakes (Introduced by Us in 1900.) This distinct variety, of the color of Livingston's Beauty, is one of the most valuable additions to the Tomato family. It is large, early, thick, heavy and solid, and one of the most handsome varieties in cultivation. Livingston's Magnus is unsurpassed in quality and in the production of fine, large fruits. While well adapted to main-crop planting, it also takes first rank for early market purposes. The form is perfect, uniform, large and attractive; quite deep through from stem to blossom end. The flesh is very firm. A robust grower, with short joints, setting its clusters closer together than most varieties, and is a very heavy cropper. It has the broad foliage which prevents sunburn in hot sections. Ripens evenly, does not crack about the stem. For staking up in the open field, as well as for forcing in greenhouses, is fully equal to any for such purposes. Pkts., 5c. and 10c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 85c.; lb., \$3.00.

Mr. Owen Leinbach, Berks Co., Pa., writes, Feb. 4th, 1916: "I have tried a good many of your brands of Tomatoes and find so far that your Globe and Magnus are the heaviest bearer. I had an immense crop of Magnus last season, and also very fine crop of Globe Tomatoes."



Livingston's Magnus

Other Selected Varieties of Standard Tomatoes

For years we have aimed to give all the new varieties of Tomatoes offered a thorough test for quality and comparative points in our True Blue Trial Grounds, near this city, which are under the personal supervision of a most efficient manager, who devotes his best energies to the testing of all the seeds we sell; both for purity of stocks, and also to determine that all seeds sent out by us shall be absolutely of the highest percentage of germination. By this plan we not only keep abreast of the times on the Tomato question, but posted on all varieties of both Flower and Vegetable Seeds, especially all novelties, and are therefore placed in a position to offer those deserving of introduction as fast as brought out by any grower or dealer in the horticultural world. Our limited space in this department of our catalogue will not admit of very full or extended descriptions of the fine Tomatoes offered below. The seed stock we offer we can recommend to be as fine as any offered by our competitors or the original introducers.



Earliana—Livingston's Selection

June Pink

A Pink Earliana

Ripens as early as Earliana. It is an enormous bearer, clusters of six to eight fruits being borne frequently. The fruit is of medium size, uniform, smooth and attractively shaped. Excellent for shipping. In color it is a bright, pleasing pink, and in markets where a pink Tomato is desired, it is a great seller. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 30c.; $\frac{1}{4}$ lb., 85c.; lb., \$3.00.

Early Hustler

This new sort we recommend as one of the earliest, smoothest bright-red market Tomatoes. Claimed to be earlier than Earliana. Try a small amount. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 75c.; lb., \$2.50.

Earliana

Livingston's Selection

The earliest smooth, bright-red Tomato of good size. It has been developed in the light, warm soil of Southern New Jersey, where effort is made to market Tomatoes at the earliest possible date. It is so far superior in hardness, sure-setting of fruits, size and smooth uniform shape, that it is now planted exclusively in this section, which now practically controls the markets of our Eastern cities during the last week of June and the month of July. The plants are compact in growth, with short, close-jointed branches, setting fruits very freely. With the Livingston strain the Tomatoes are quite uniform in size and of smooth, regular form, averaging three inches in diameter and from two to two and a half inches in depth; they are fleshy, solid, and excellent for shipping purposes.

When this variety was first introduced it was inclined to be quite rough. Seeing its many good features and realizing that there was a place for such a variety we immediately started to work out these good points and eliminate the bad ones, foremost of which was its roughness. After several years' careful growing and selecting this roughness has almost entirely disappeared, and we now have a strain that one would scarcely recognize as the old original Earliana. In our trial ground tests we find this strain to be equal to any and surpassing most of the so-called "Extra Selections," usually sold at high prices. Our stock has become quite popular with many of the largest market gardeners in the country. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 80c.; lb., \$2.75.

Comet Forcing

Superior red variety for forcing under glass. Rich scarlet-red; fruits are solid, round, smooth; strong grower; exceedingly heavy cropper; medium-sized fruits; flavor excellent. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 80c.; lb., \$2.75.

Chalk's Early Jewel

A little later than Earliana—a heavier cropper, larger size, fine flavor. Brightest scarlet; ripens up to stem without green core. Flesh thick, bright scarlet, solid, sweet flavor. One of the largest cropping medium early varieties we grow. Comes in ahead of Livingston's Stone, almost as large. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.; $\frac{1}{4}$ lb., 80c.; lb., \$2.75.



Chalk's Early Jewel

L. Mitchell, Jr., Oswego Co., N. Y., writes us as follows: "I purchased Tomato seed of you last season and they certainly made good."

Matchless Tomato

A fine, smooth main crop Tomato, of rich cardinal red color, with solid flesh of finest quality. Grows to good size which it maintains throughout the season. Very similar to Livingston's Stone. Pkt., 5c.; ½ oz., 15c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Trucker's Favorite

A purple fruited sort of excellent quality, highly esteemed in many Eastern and Southern markets. Grows to uniformly large size which is maintained until late Fall. Fruits are invariably smooth, solid and the flesh is of finest color throughout. Unexcelled for slicing or cooking. Plants are very thrifty and bear continually until killed by frost. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 80c.; lb., \$2.75.

Dwarf Giant

A new dwarf sort of good size and very prolific, producing fruits in clusters around the base of the plant. Tomatoes are smooth and of regular size and shape. Of the same color as Ponderosa—the originator calls it a "Dwarf Ponderosa." Pkt., 10c.; ½ oz., 20c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.50.

Ponderosa

(See illustration)—The fruit ripens early and bears well until very late; very solid, almost seedless, of good subacid flavor and of immense size, frequently weighing considerably more than 2 pounds. Somewhat scattered on the vine, and a small percentage are rather rough. Our strain, however, is now producing a much smoother fruit than when first introduced. Good Tomato for home use; splendid slicer. Pkt., 5c. and 10c.; ½ oz., 20c.; oz., 45c.; ¼ lb., \$1.35; lb., \$4.50.

Bonny Best

Best Bed for Greenhouses

One of the finest bright red sorts for growing in greenhouses, and a good one to follow Earliana in the open field. It has been highly recommended by U. S. Dept. of Agriculture as well as big growers and shippers throughout the country. Bonny Best is a favorite Tomato of medium size. They are of bright scarlet color, always smooth and of remarkably uniform size and shape. A splendid sort for market and shipping. Pkt., 5c.; ½ oz., 15c.; oz., 25c.; ¼ lb., 85c.; lb., \$3.00.



Ponderosa (Two-thirds Natural Size)



Bonny Best

Early Detroit

A very productive, early purple sort, uniform in size of fruit, free from cracks, and does not blight easily. Fruit large and smooth. Vines vigorous and quite productive. Quality excellent. Pkt., 5c.; ½ oz., 20c.; oz., 30c.; ¼ lb., 85c.; lb., \$3.00.

Small Fruited Tomatoes

Excellent for Preserves, Pickles and Pies

- Red Currant—Pkt., 5c.; ½ oz., 20c.
- Red Pear-Shape—Pkt., 5c.; ½ oz., 20c.
- Yellow Cherry—Pkt., 5c.; ½ oz., 20c.
- Red Cherry—Pkt., 5c.; ½ oz., 20c.
- Yellow Plum—Pkt., 5c.; ½ oz., 20c.
- Yellow Pear-Shape—Pkt., 5c.; ½ oz., 20c.
- Mixed Small Tomatoes—Above 6 sorts. Pkt., 10c.



Yellow Plum

Odd Tomatoes

Purple Peach—Resembles some peaches so closely in size, shape and general appearance that at a short distance away it could be taken for a peach. Color purple, blended with orange-amber; very productive. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

Yellow Peach—Like Purple Peach, except in color; a rich golden yellow. Pkt., 5c.; ½ oz., 20c.; oz., 35c.

Strawberry (Winter Cherry, or Husk Tomato)—This delicate husk-enveloped Tomato is unequalled for making preserves and pies. Have a strawberry flavor and are very productive.

Golden Husk—Fruit a handsome golden color, the size of large cherries. Best sort. Pkt., 5c.; ½ oz., 20c.; oz., 35c.

Purple-Husk—Beautiful; very productive. More acid than Golden Husk. 1 to 2 inches in diameter. Pkt., 5c.; ½ oz., 20c.; oz., 35c.



Vegetable Plants

Asparagus Roots

Piantas o raices de Esperragos

Spargelwurzeln

We have for many years been making a great specialty of Asparagus Roots at our True Blue Seed Farms. Our splendid soil, together with the finest strains of seed obtainable, of the various standard varieties, places us in a position to produce enormous quantities of Asparagus Root of the very best quality. You will find listed below the most approved sorts in cultivation. Kindly note our especially favorable prices.

500 Asparagus Roots at 1,000 rates. Special prices quoted by letter on larger quantities.

	By Mail	By Express, not	
	Doz.	100	1000
Carolina Queen	\$0.25	\$0.75	\$6.00
Conover's Colossal .....	.25	.65	5.00
Columbian Mammoth White.....	.25	.75	5.50
Early Argenteuil .....	.25	.75	6.00
Palmetto .....	.25	.75	5.50

Garlic Sets

Garlic Sets or Bulbs are planted in early Spring in rows 12 inches apart, placing the sets 4 inches apart in the rows, 2 inches deep, or in the same manner as Multiplier Onions. Garlic is used for flavoring purposes.

Bulbs, postpaid, oz., 5c.; ¼ lb., 15c.

A. W. Porter, Marion Co., Ind., writes: "Having purchased our seeds of you for me time we come back again. It shows we are pleased with your seeds. Two years in succession we showed Tomatoes and Squashes raised from some of your seed at the Indiana State Fair and we won the ribbons and high praises on quality and size of Tomatoes and Squashes."

Louis A. Hood, Orleans Co., La., writes: "The seeds ordered in my letter of Jan. 23rd received, also your letter of Jan. 26th. I wish to thank you for the extra package of Ohio Crimson Pepper. I would not ask for a finer stand of beautiful plants than I have from your Ruby King seed. The Tomato and Water Melon seeds have come up nicely and I shall always be glad to recommend your seeds whenever possible."



Horse Radish Sets Nuremberg

From Bavaria comes a variety of Horse Radish which has a great many points of superiority. By selection and most careful cultivation the Nuremberg Horse Radish has reached a point where individual roots 18 inches long by 2½ to 3 inches at the thickest part are produced from the growth of one year. In fact, its shape is like a parsnip. The quality is splendid; crisp, and of very fine flavor. The color is a beautiful pearl-white.

Roots Ready for Planting—By mail, postpaid, 6 for 15c.; doz., 25c. By express, 100 for \$1.00; 500 for \$4.00; 1000 for \$7.50.

Common Horse Radish

Roots Ready for Planting—By mail, postpaid, 6 for 15c.; doz., 25c. By express, not paid, 100 for 75c.; 300 for \$1.80; 500 for \$2.50; 1000 for \$4.50. Prices on large lots on application.

Rhubarb Roots

We offer strong seedling roots, which are much more easily transplanted, do better and the transportation charges are less than with old clumps. Never have we had a better lot of roots, or had them in greater quantities. Should you need a large quantity of roots, write us, please, before placing your order elsewhere.

By mail, postpaid, each, 20c. By express, not paid, each, 10c.; 10 for 65c.; 50 for \$2.50; 100 for \$4.00; 1000 for \$30.00. Two-year-old roots, each, 15c.; 12 for \$1.50; 100 for \$8.00; 1000 for \$75.00. By express or freight at buyer's expense.

George Endress, Blair Co., Pa., writes: "We would like to make a few remarks about the seed we received last Spring; they were fine; we had a very bad drought, but it did not seem to hinder at all. We raised four crops this Summer and I think that was doing fine. The Coreless Tomato was the best we ever had. They are one of the finest for canning. Also we cannot recommend the Radishes highly enough."

Mr. Linwood Straight, Bristol County, Mass., writes: "All the seeds bought of your house last season were top-notchers, especially the Extra - Early White Spine - Cucumbers. I raised over 30 bushels from one packet of seed."

Mrs. H. H. Johnson, Erie Co., N. Y., writes: "I have used your seeds for 14 years and think I know what the result should be."

Livingston's Re-Cleaned Grass and Clover Seeds

Our Grass and Clover Seeds are selected with special reference to their quality. Purchasers may rely upon our best exertions to furnish them with these vitally important qualities—fresh, pure and free from noxious weeds and foreign seeds.

Prices on Grass and Clover Seeds are changing almost daily, **AND WE CAN ONLY GIVE PRICES SUBJECT TO FLUCTUATIONS.** No charge for bags at prices quoted below; do not forget this important item when comparing our prices with others. **These prices do not include postage. See page 3 for Parcel Post Rates.** Owing to the European War, prices on imported seeds are more unsettled than usual. If interested in imported Grass Seeds or for larger quantities, write for special rates.

Best Grasses

Awnless Brome Grass (*Bromus inermis*)—Will stand long droughts and still produce heavy crops in dry sections where other grasses would surely perish. Has also proven itself one of the hardiest grasses. Especially desirable for permanent pastures. Succeeds in a wider range of temperature than any other grass. Sow from 25 to 30 lbs. per acre. (Bu., 14 lbs.) Lb., 20c.; 10 lbs., \$1.80; 100 lbs., \$16.00.

Creeping Bent Grass (*Agrostis stolonifera*)—Excellent for pasture when mixed with other grasses. Succeeds well in most sections and thrives in moist land. Sow 40 lbs. per acre. (Bu., 14 lbs.) Lb., 65c.; 10 lbs., \$6.00; 100 lbs., \$50.00.

Meadow Fescue (*Festuca pratensis*)—Thrives in all soils; excellent for permanent pastures; starts early; productive. Sow 25 to 35 lbs. per acre. (Bu., 24 lbs.) Lb., 20c.; 10 lbs., \$1.75; 100 lbs., \$16.00.

Orchard Grass (*Dactylis glomerata*)—Extremely hardy and widely known. One of the earliest to start in the Spring; grows rapidly; furnishes an abundance of pasture the entire season. Sow 20 to 30 lbs. per acre. (Bu., 14 lbs.) Lb., 30c.; 10 lbs., \$2.50; 100 lbs., \$22.00.

Crested Dog's Tail (*Cynosurus cristatus*)—May be sown on lawns; forms a close turf, remaining green for a long time; valuable for sheep pasture; succeeds on dry, hard, and gravelly soil. Height 1 to 1½ feet. Sow 25 lbs. per acre. (Bu., 21 lbs.) Lb., 40c.; 10 lbs., \$3.50; 100 lbs., \$30.00.

Hard Fescue (*Festuca duriuscula*)—Not very productive, but is of very fine quality; thrives in dry situations where many other grasses would fail, thus making it desirable for pasture. Sow 30 lbs. per acre. (Bu., about 12 lbs.) Lb., 40c.; 10 lbs., \$3.50; 100 lbs., \$33.00.

Kentucky Blue Grass, June Grass (*Poa pratensis*)—Universally known; desirable for pastures and lawns. Sow in Fall or Spring at rate of 30 to 40 lbs. per acre. (Bu., 14 lbs.) **Export Fancy Clean Seed**—Lb., 20c.; 10 lbs., \$1.75; 100 lbs., \$14.00.

Perennial Rye Grass (*Lolium perenne*)—Very nutritious; valuable for meadows or permanent pastures; rapid grower. Sow 25 to 35 lbs. per acre. (Bu., 24 lbs.) Lb., 15c.; 10 lbs., \$1.20; 100 lbs., \$9.00.

Red Top Grass (*Agrostis vulgaris*)—Thrives well in any soil, but best on low land; produces a firm sod. Sow 15 to 20 lbs. per acre. (Bu., 14 lbs.) **Fancy Clean**—Lb., 20c.; 10 lbs., \$1.60; 100 lbs., \$14.00.

Rhode Island Bent Grass (*Agrostis canina*)—Valuable for lawns. Sow 35 to 50 lbs. per acre for lawns, 20 to 30 lbs. for pasture. (Bu., 12 lbs.) Lb., 40c.; 10 lbs., \$4.00; 100 lbs., \$37.00.

Sheep's Fescue (*Festuca ovina*)—Grows naturally on light, dry, sandy soils and mountain pastures; considered valuable mixed with other grasses for permanent early Spring pasture. Sow 15 lbs. per acre. (Bu., about 12 lbs.) Lb., 40c.; 10 lbs., \$3.50; 100 lbs., \$32.00.

Tall Meadow Oat Grass (*Avena elatior*)—Used for soiling. Succeeds well in sandy lands, and owing to its long fibrous roots, stands cold and drought well. Sow 25 to 30 lbs. per acre. (Bu., 10 lbs.) Lb., 30c.; 10 lbs., \$2.30; 100 lbs., \$20.00.

Timothy (*Phelum pratense*)—A well-known variety. When ready to buy, write us for latest prices, whether you want a bag or a carload. Sow 8 lbs. per acre. (Bu., 45 lbs.)

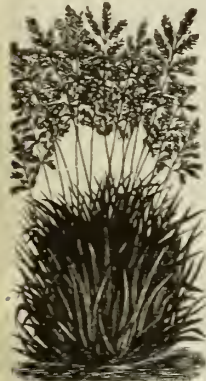
Prime Seed Lb., 15c.; 10 lbs., 90c.; 100 lbs., \$7.00
Choice Seed Lb., 15c.; 10 lbs., \$1.00; 100 lbs., \$7.50

Wood Meadow Grass (*Poa nemoralis*)—Adapted for pasture or pleasure grounds; of early growth; thrives under trees. Sow 25 to 30 lbs. per acre. (Bu., 14 lbs.) Lb., 80c.; 10 lbs., \$7.50; 100 lbs., \$70.00.

Mixed Grasses

For Meadows and Permanent Pastures—We are prepared to furnish seeds adapted to all soils, all situations and all purposes—for light, medium, and heavy soils. By light soils we mean that which is more or less of a sandy or gravelly nature; the heavy, clay and heavy loams, while the medium is an intermediate between these two. A light, wet soil, with respect to grasses suited to it, may be considered same as too heavy soils; a dry, heavy soil more as the light soils. Write us what you want, giving nature of soil, number of acres, etc., and we will, with pleasure, give you estimate and terms.

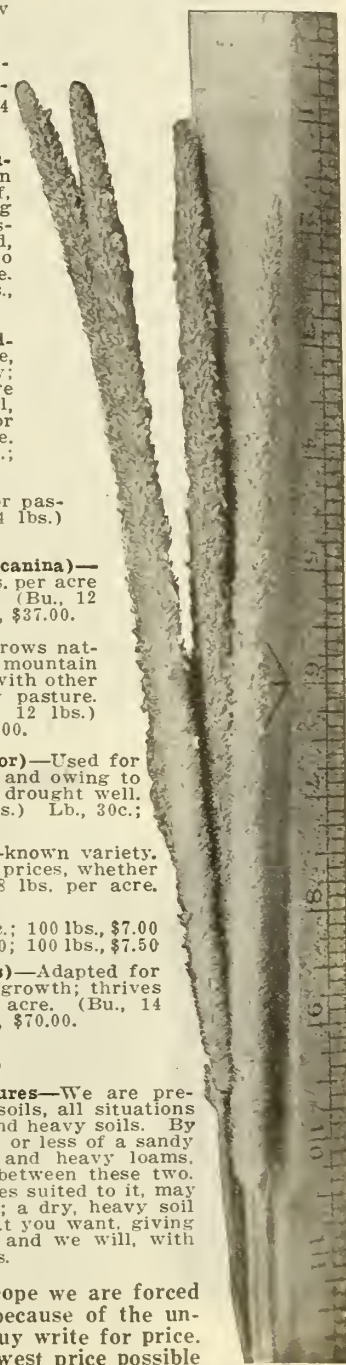
NOTE—Owing to the war in Europe we are forced to name prices higher than usual because of the unstable conditions. When ready to buy write for price. We will take pleasure in naming lowest price possible at any time.



Blue Grass.



Red Top Grass (*Agrostis vulgaris*)



Timothy

Sudan Grass

(Andropogon Sorghum)

A New Forage Crop of Immense Value to the South and Middle West.

Sudan Grass was introduced into the United States in 1909 from Sudan under the name of Garawi. The result of this test by the Government proved so promising that it at once sprang into favor in the dry Middle West and South, and recommended for the Central States as a substitute for Millet in its use as a catch crop.

The dry region has no other satisfactory hay crop and Sudan Grass will be of great value there, as it has all the good qualities of Johnson Grass, but does not have the creeping root-stalks which are so objectionable.

Sudan Grass is strictly an annual and dies each year like Millet. This makes it fit into any system of rotation.

Sudan Grass grows from 5 to 9 feet tall. The stems are very small, rarely thicker than a lead pencil.

The plant stools freely when given plenty of room, and often produces 100 stems from one crown. The tendency to stool is greater after the first cutting, and the hay is finer from the second cutting.

Sudan Grass is not very particular as to soil, but does best on rich loam, fairly well drained.

In seeding Sudan Grass, a firm seed bed is best and should be made quite fine. Seed should not be sown until the soil is well warmed up. The best tool for seeding is the common grain drill, and seed should be covered from half inch to one inch. When drilled in rows 18 to 25 inches apart, 4 to 6 pounds are required. When sown broadcast, 16 to 24 pounds per acre should be used.

Sudan Grass grows strictly erect and stiff enough to be valuable to sow with Cow Peas and Soy Beans as a support. Sudan Grass cures readily and can be cut in the morning and raked in the afternoon. The blades are retained well and if properly handled make a bright, leafy hay of best quality.

From Central United States southward it is possible to have from 2 to 3 cuttings. From seeding to cutting 75 to 80 days are required. The second cutting comes on in about 45 days.

The yields vary from 1 to 8 tons cured hay per acre.

Price—Large pkt., 10c.; 1 lb., 35c., postpaid; 10 lbs., \$2.50; 25 lbs., \$5.25; 100 lbs., \$18.00.



Photograph supplied by Southwest Trail
Sudan Grass

Millet (German or Golden)

True Southern grown-cultivated Tennessee grown stock is far superior to Western grown stock; will grow in any climate or soil, and where conditions are favorable its yield is very heavy; often from two to seven tons per acre of most nutritious feed. It is of special importance, however, to secure the true Southern grown stock.

True Southern grown produces a heavy and luxuriant growth, has very large heads which ripen evenly, and if cut while in bloom or before seed ripens it is a quickly produced, cheap and valuable food, that is eaten readily by all our farm animals.

Have the land well plowed and thoroughly pulverized before sowing. Sow for hay not less than 50 lbs. per acre at any time between May 1st and July 1st. If sown broadcast cover with single stroke of harrow or light board drag, or it may be sown with a grain drill set to sow one bushel per acre, having the hoes hooked up so as not to cover seed over one inch deep. We prefer putting seed in with a drill. (Bu., 50 lbs.)



Head Golden Millet Price—Lb., 10c.; 10 lbs., 60c.; 100 lbs., \$4.25.

Hungarian Millet (Grass)

For good low ground or rich high land, Hungarian becomes even more valuable than German Millet. It is one of the earliest annual hay crops and can be sown later than any of the millets. Is often sown as a catch crop after early Potatoes or other early maturing crops.

Hungarian is not so large and coarse as German Millet; it is very leafy and much finer in the straw, and if cut for hay before seed is ripe enough to grow or just as it goes out of bloom it is considered nearly equal to Timothy, and under favorable conditions should yield from two to four tons per acre of good, nutritious hay that is relished by dairy cows, young cattle or horses.

Hungarian Grass is generally looked upon as being much better feed for horses than Millet.

Sow from May 15th to July 15th on well prepared soil at the rate of three pecks to 1 bushel per acre. (Bu., 50 lbs.)

Price—10c per lb.; 10 lbs., 50c.; 100 lbs., \$4.00.

Write for prices of Ohio and Western grown German Millet.

All prices subject to market change.

All Prices of Grass, Clover and Field Seeds are Subject to Market Changes

Livingston's Re-Cleaned Clover Seeds

Parties wishing large quantities will do well to get samples and prices before placing their orders. We handle it on a close margin and supply the finest grades. It is impossible to tell how low our prices are without seeing samples, which will be sent free on application. A bushel of Clover Seed is 60 pounds. These prices do not include postage. For Parcel Post rate see Page 3.

Sweet Clover, or Bokhara

Melilotus Alba (White), Melilotus Officinalia (Yellow) are Biennial; Melilotus Indica (Yellow), Annual.

Are the varieties in general use. The white-flowered variety (Melilotus Alba) is the one we handle unless otherwise mentioned. It is the strongest grower and by far the best.

When young it resembles Alfalfa, but when mature it often stands 5 to 8 feet high and blooms from June to October. The roots of all varieties are large and much branched and penetrate the ground several feet. Being a Biennial, all top and roots die at the end of the second year if the plant ripens seed.

If cut before seed is ripe, or if pastured so that seed is not matured, the plant lasts over several seasons.

Is found growing under very varied conditions of both soil and climate. It, however, prefers a limestone soil and has been largely used to reclaim old, worn-out, abandoned lands. It is of great value for this purpose.

Apart from its value as a nitrogen gatherer and humus producer, Sweet Clover is rapidly coming to the front as a hay and pasture crop. Its feed value is nearly equal that of Alfalfa, and in a short time stock eat it as readily as they do Red Clover and seem to thrive on it equally well. For hay cut just before it comes into bloom, and is handled as you would Alfalfa. It is also used extensively as a Bee pasture, the small white blooms yield much fine honey.

Sow clean hulled seed at the rate of 15 to 20 lbs. per acre, from April to Sept. 15th, with or without a nurse crop.

Price: Lb., 30c.; 10 lbs., \$2.50; 25 lbs., \$5.50; 50 lbs., \$10.50; 100 lbs., \$20.00.

Mammoth Clover—Valuable with other grasses for mixed hay. Ripens about with Timothy. Being a rank grower, it is used largely for plowing under. Sow 10 lbs. per acre. Lb., 35c.; 10 lbs., \$3.00; 100 lbs., \$25.00.

Medium, or Common Red—The most important and valuable of the Clover family. Makes the best of hay. Sow 10 lbs. per acre. Lb., 35c.; 10 lbs., \$3.00; 100 lbs., \$25.00.

Crimson Clover—Should be sown in July, August and September of each year. Can be sown with corn, or any cultivated crop. Sow 10 to 15 lbs. per acre. Cover lightly. Use only American grown seed. The Spring following it can be cut for soiling May 1st; for ensilage, May 1 to 15; for seed about third week in June. Lb., 30c.; 10 lbs., \$2.00; 100 lbs., \$15.00.

White Dutch Clover—Good in permanent pastures, especially for cattle; valuable for bees, and the best variety for lawns. Sow in Spring at the rate of 5 lbs. per acre when sown alone; ¼ the quantity when sown with other grasses. Lb., 60c.; 10 lbs., \$5.50; 100 lbs., \$50.00.



Alfalfa or Lucerne

Alfalfa, or Lucerne (Medicago sativa)

The Greatest Feed on Earth

Alfalfa is being more generally grown as experience is teaching our farmers the proper methods to follow. Different soils do not now seem so difficult to overcome, especially where they can be properly drained, pulverized, sweetened and inoculated.

Alfalfa does not thrive on acid or sour land, nor will it do its best without inoculation on any kind of soil.

Treat your land to a liberal dressing of fine ground lime or more liberally to fine ground limestone well worked into the soil some three months to a year before seeding to Alfalfa.

Sow from 10 to 15 lbs. well inoculated seed per acre, using Nitragin. From April 1st to June 15th for the early Spring sowing, either drilled or sown broadcast. If broadcast cover lightly with a light drag or with single stroke of a harrow.

Much seeding is now done later and many prefer sowing from July 15th to September 15th. When seeded late it gives the grower an opportunity to have his land clean and free from weeds.

Alfalfa naturally prefers a deep, sandy or gravelly sub-soil. Roots from 3 to 15 feet deep, and a good stand on properly selected land should yield from 3 to 5 cuttings a year. We make a specialty of extra high grade seed that tests 99 per cent. pure or better. Get our samples and prices before ordering. Prices: Lb., 30c.; 10 lbs., \$2.50; 100 lbs., \$20.00.

Alsike, or Hybrid (Swedish)—Hardest of all clovers. On rich, moist soil, yields large quantities of hay or pasturage. Will thrive in soils which are so wet that the common Red Clover would not live. Unlike some of the other clovers, which have tap roots, Alsike has many fibrous roots, hence is not injured by freezing and thawing of the ground. Esteemed highly by beekeepers. Sow 5 lbs. per acre. Lb., 35c.; 10 lbs., \$3.00; 100 lbs., \$25.00.



Alsike or Swedish

NITROCULTURE INOCULATOR

Get a perfect "catch," a bigger yield, of better feeding value. For Alfalfa, Clover, Vetch, Cow Peas, Soy Beans and all other legumes.

For full description and price see page 60.



INSURE YOUR SEED

with

THE IMPROVED GERMAN SOIL INOCULATOR
NOBBE-HILTNER PROCESS

NITRAGIN

TRADE MARK REG'D DEC. 6, 1898 NO. 12212

PURE CULTURE

THE SIMPLEST SAFEST AND SUREST SYSTEM
OF SOIL INOCULATION FOR ALL LEGUMES

AWARDED GOLD MEDAL, ST. LOUIS, 1904

Get a "catch," a good stand and a big yield of
Clover, Alfalfa, Cow Peas, Soy Beans, Vetch,
Garden Peas and Beans and all other Legumes

RED CLOVER
Seed Not Inoculated
Seed Inoculated with "Nitragin"

"NITRAGIN" is the original Pure Culture—a granular medium (not a jelly)—nothing to break or spill—packed in a ventilated can, containing millions of surfaces, supporting billions of nitrogen-gathering germs, their health, strength and virility.

**GUARANTEED FOR SIX MONTHS
BY THE NITRAGIN COMPANY**

Absolutely harmless. Easy to use. An investment—not an expense. Remember—legumes not inoculated take no nitrogen from the air. Inoculated legumes mean bigger yields, richer feeding value, better soil. **Avoid Imitations. LOOK FOR THE OVAL LABEL.** Pure Culture inoculation is endorsed by the U. S. Dept. of Agriculture and other authorities. Don't waste good seed. Make your crop sure. Inoculate with "NITRAGIN." It can be obtained for the following list of legumes, namely: Alfalfa, Sweet Clover, Red Clover, Crimson Clover (German Clover), Alsike Clover, Sweet Clover, Bur Clover, White Clover,

Yellow Clover, Mammoth Clover, Field Peas, Garden Peas, Canadian Peas, Cow Peas, Field Beans, Garden Beans, Lima Beans, Navy Beans, Velvet Beans, Soy Beans, Horse Beans, Summer Vetch, Winter Vetch (hairy), Blue Lupines, Yellow Lupines, Sanfoin and Serradella, at prices named below.

"NITRAGIN" is of no direct value for any other crops.

REMEMBER each legume requires its own particular kind of bacteria. In ordering be sure to name crop for which it is to be used. Ask or write for fuller descriptive circular.

Dr. Lipman, of New Jersey Experiment Station, tried "Nitragin" Pure Culture. In Bulletin No. 226 he says:

"Alfalfa Yield Increase due to 'Nitragin' Pure Culture was 500%."

PRICES—Small garden size, 30c per can, for peas, beans and sweet peas only; half-acre garden size, 50c per can; acre size, \$1.00 per can; 5-acre size, \$4.00 per can, 100-acre size, \$75.00.

F. O. B. Columbus, Ohio. Postage and express extra. Parcel post, 10c per acre extra.

ENRICH YOUR SOIL AND KEEP IT RICH

To insure a Stand, Enrich Your Soil, Increase the Yield, Always Treat Your
CLOVERS, ALFALFA, PEAS, BEANS, VETCH, SOJA BEANS, COW PEAS, FIELD PEAS, SWEET PEAS AND ALL LEGUMES.

THE STANDARD INOCULATION

FARMOGERM

TRADE

MARK

HIGH BRED NITROGEN GATHERING BACTERIA
for CLOVERS, ALFALFA, BEANS, and OTHER LEGUMES

Inoculation of Legume Seeds with Farmogerm

Is a simple process, no fuss, no bother. Just moisten the seed with FARMOGERM, pure cultures, allow them to dry, and plant. Seeds for 20 acres can be treated in a few minutes and the results will surprise you. In order to obtain the maximum yield Legume (or pod bearing) crops, seeds must be supplied with Nitrogen-Gathering Bacteria. FARMOGERM supplies these Bacteria, guaranteed alive and efficient, and shipped in a form to be conveniently applied to the seeds. Their use will increase the yield of the crop and make it richer in protein or feeding value. Your stock will relish FARMOGERM Legume Fodder.

Always specify crop when ordering.

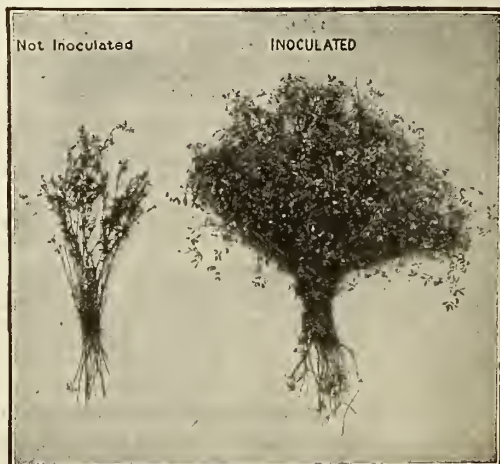
Insist on FARMOGERM. It insures live, active Bacteria. Cultures in sealed bottles are not to be depended on.

Ask Us for Interesting Literature

Atmospheric Nitrogen is free. The supply is unlimited. Why not make use of it and save the high cost of Nitrogen Fertilizer.

Prices: Half garden size, 1/8 acre, 25c.; garden size, 1/4 acre, 50c.; trial farm size, 1 acre, \$1.50; small farm size, 5 acres, \$5.00; farm size, 50 acres, \$55.00.

F. O. B. Columbus. Postage 10c. Per Acre Extra.



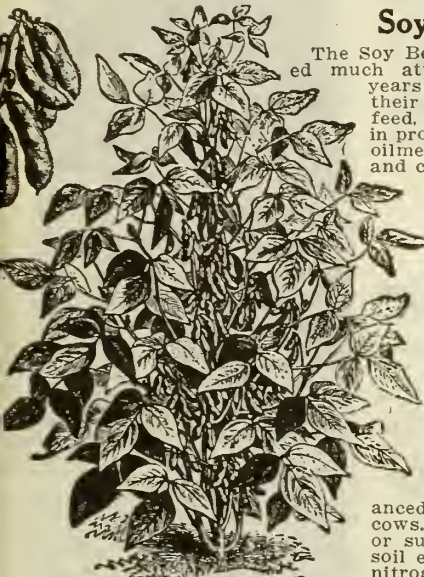
Miscellaneous Farm Seeds

Our grades of Farm Seeds are away above the average in quality, and this makes a big difference in the value—the low, trashy grades being costly at any price—and yet our prices will be found very little, if any, above those quoted by others. The man in charge of this department, having been with us more than thirty years, is thoroughly posted and will take pleasure in giving customers any information desired. The prices quoted below are **Net Cash, free on cars, this city, purchaser paying all transportation charges**, except when quoted postpaid. At the prices given here we make no charges for bags or cartage. The prices quoted are **subject to market fluctuations**. Should any article seem high, or when customers are in need of large quantities, we will be pleased to submit samples and quote, on application, the lowest prices that the market will justify at the time. **Please state quantities when writing for prices.**

Prices on Farm Seeds are subject to important market changes. Ask for Samples and Prices before placing your order.

Artichoke Roots

The Jerusalem Artichoke can be grown only from the tubers. It is especially valuable as a cheap and healthful hog food, and the hogs do the harvesting. Tubers—4 ozs., 10c., postpaid. By express or freight: Pk., 60c.; ½ bu., \$1.00; bu. (50 lbs.), \$1.75; bbl. of 3 bu., \$4.50. 3 to 5 bushels of tubers for an acre.



Soy Bean.

Soy Beans

The Soy Beans have attracted much attention in recent years on account of their great value as a feed, being much richer in protein than flaxseed, oilmeal, bran or oats, and can be used to balance a feed ration to good advantage; are worth for feed about \$1.50 a bushel when bran is worth \$20.00 to \$22.00 per ton; are used extensively in silage with corn, cane, etc. By its use the dairyman can make a combination that is wholesome, economical and a completely balanced food for milch cows. They also equal or surpass clover as a soil enricher, gathering nitrogen from the air; are used by fruit men as a cover crop with good results. May be

used for silage, cover crop or feed in matured state.

used for silage, cover crop or feed in matured state.

Medium Early Green or Guelph Soy Bean

One of the oldest and best known sorts, which has become quite a favorite north of the Ohio river both for seed and forage crop. Grows 24 to 38 inches high; stems medium stout, ¼ to ⅜ inch in diameter, branches often filling the space between 3-foot rows. The leaves very dark green, large and full in center, while the edges are freely curled. Pods of medium size, 1 to 1½ inches long. Color of seeds, bright green. The branches are usually far enough above the ground to permit easy harvesting. **Postpaid, ½ lb., 20c.; lb., 35c. By express or freight: Pk., 90c.; bu., \$3.25.**

Ito San—This is one of the best for the northern part of the state. It grows erect from 25 to 30 inches tall, branches are fine; leaves medium in size; blossom purple; seeds medium sized, straw colored, orbicular in shape, distinguished by a brown spot beside the hilum or point of attachment to the pod. Matures in 100 to 115 days.

Price: Pk., 90c.; bu., \$3.25.

Ebony—Plant slender, not upright, much branched, leafy. Height 30 to 40 inches. Ripe about September 15th. Seeds rather small, flat and black. A good hay bean; not desirable for seed.

Price: Pk., 90c.; bu., \$3.25.

Mammoth Yellow—The latest maturing variety. Plants rather coarse, height 3 to 5 ft., ripens in 130 to 150 days. Good yielder, excellent to plow under as green manure. Pk., 85c.; bu., \$3.00.

Ohio Grown Stock—To be sown north of the Ohio River. Price same as **Early Green**. (60 lbs. per bushel.)

Prices are based on present market rates and are subject to market changes. Lowest market prices on large or small quantities will be given on application as long as stocks last.

All prices subject to market change.

Buckwheat

Should be sown about the middle of June, using from 1 to 3 pecks of seed per acre. (50 lbs. to bushel.)

New Japanese—This new sort has proven to be much earlier and more productive than any other variety. Grains very large and of rich brown color. It excels all in yield and earliness. By express, not prepaid: Pk., 50c.; bu., \$1.80.

Silver Hull—A very good and popular variety. The grain is of light gray color, rounder than the common variety; has a much thinner hull. By express, not prepaid, pk., 60c.; bu., \$1.85.

Cow, or Southern Peas

There is no surer or cheaper means of improving and increasing the productivity of soils than by sowing Cow Peas. They put plenty of nitrogenous vegetable matter into the soil at a small cost. For hay they are most valuable. For ensilage they are unsurpassed.

When it is desired to turn the entire crop under as a soil improver, it is better to do so after the vines are partly dead. A good picking of the dried peas can be made before plowing under. Cow Peas can be sowed in May or June, after the ground is warm, or about the close of the corn planting, at the rate of one-half to one bushel per acre. (60 lbs. to bushel.)

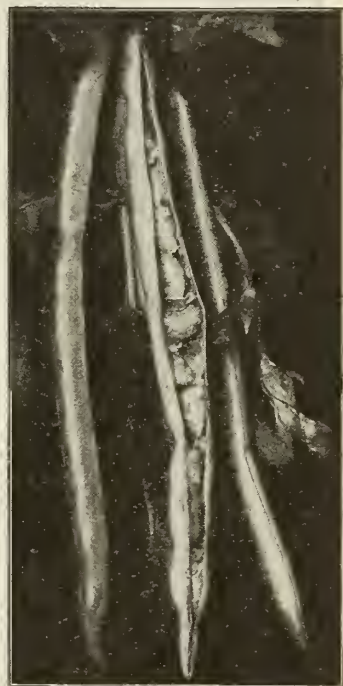
Black—Is quick to mature. Well adapted for Northern sections. A vigorous grower and a great yielder. Pk., 85c.; bu., \$3.00.

Whip-Poor-Will

(See illustration)—An early bunch-growing variety; a great favorite in the North and West; is quite prolific. Pk., 85c.; bu., \$3.00.

Black-Eye—A prolific vine-growing variety of merit; seed often sold for table use. Pk., \$1.00; bu., \$3.50.

Market Price on Cow Peas changes often. Write for prices on larger quantities when ready to buy.



Whip-Poor-Will Cow Peas.

From Philip Wise, Belmont County, Ohio.

January 29, 1916.—“From the four bushel of New Victory Oats I got from you last spring, we sowed an acre and seven-eighths and we harvested 140 bushels or about that. I have lost exact figures, but they averaged over 70 bushels per acre, while our other Oats only yielded about 50 bushels. We expected to sow all our crop from New Victory Seed. We saved 112 bushels by themselves for seed, so they would not get mixed. The neighbors all fancied them both in field and bin.”

From Mr. G. Guy Randall, Lake County, Ohio.

April 20, 1916.—“The two grades of Seed Corn which I ordered from you a few days ago arrived today O. K., and I am well pleased with it. I want to thank you for the promptness with which you filled the order.”

For NITROCULTURE INOCULATOR, see page 60.

Livingston's Thoroughbred Field Corn Seed

Prices of all Farm Seeds quoted in this Catalogue are subject to market changes. The prices given are those ruling at the time this Catalogue is published, January 1st. But we reserve the right to change prices without notice. One bushel of Field Corn Seed will plant from five and one-half to seven acres, according to variety and whether the hill or drill method of planting is followed. Livingston's Thoroughbred Field Corn Seed only costs you 30 to 40 cents for sufficient seed to plant an acre. We earnestly urge you to plant the best Field Corn Seed that our many years of experience has been able to produce. Our strains are pure and each a distinct type—no two resemble one another, and all grown in Central Ohio. Situated, as we are, in the very best territory in this country as regards both soil and climate, for growing and perfecting Field Corn, we would impress upon you the fact that our facilities and opportunities for securing and supplying the most thoroughbred strains of Field Corn are not exceeded by any seed firm.

All our Field Corn Seed in well matured, thoroughly cured, and shelled with the greatest care. We test all varieties before sending the seed to our customers, that there may be no doubt as to the vitality. To avoid delay when ordering late in the season, it would be well for you to mention your second choice, or state whether we shall send you a sort adapted to your locality, or refund the money, provided we are sold out of your first choice when your order arrives. Field Corn Seed on the ear can only be supplied while our present stock lasts.

Our Grand New Field Corn

Kilbury's Yellow Hybrid

Introduced by Us in 1908

A New and Very Desirable Variety. Earliest Large-Eared Corn in Cultivation. Handsome, Uniform Ear. Deep Grains.

This splendid Corn is one of the most valuable new varieties which has come under our notice for a long time. (See illustration.) The following is originator's description: "Kilbury's Yellow Hybrid Corn is deep in color, with red cob, which tapers uniformly from butt to tip, with deep grains well compacted on cob. Ears large, from 9 to 12 inches in length. Fodder large; ears $3\frac{1}{4}$ to 5 feet from ground, husks easy; does not fall off in handling. The earliest large Corn on the market. Plant any time in May; it has matured planted as late as June 15th. This Corn has been successfully grown for 20 years on black loam and clay soils, and is well adapted to both."

After careful examination of this Corn, both growing in fields and after being harvested, we believe it to be all that Mr. Kilbury claims. It is the result of careful selection from hybrids, of Leaming and Clarage, but is much larger than either of the parents. It is a large, medium early Corn; safe to plant in localities no colder than Ohio. If you want the earliest big-eared Corn grown, with large, heavy, deep grains and small cob, a yellow corn, plant Kilbury's Yellow Hybrid. For prices see below.

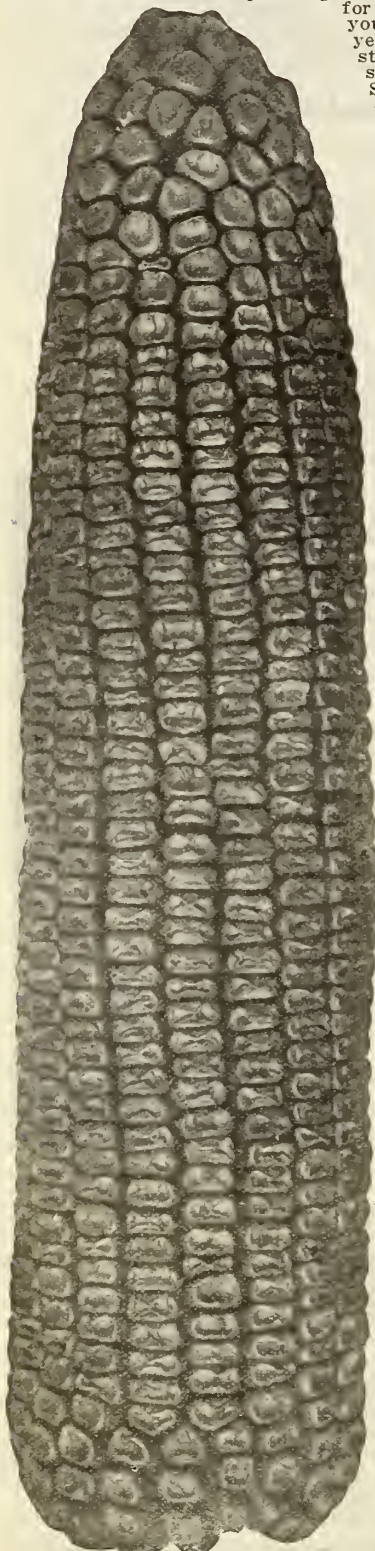
Neller's Cattle Corn

This very desirable strain of Corn was brought into Licking County, Ohio, from an adjoining county some thirty or more years ago by a local cattle breeder. And as it was especially well adapted to cattle feeding, became very popular wherever tried not only for cattle feeding, but for general feeding as well.

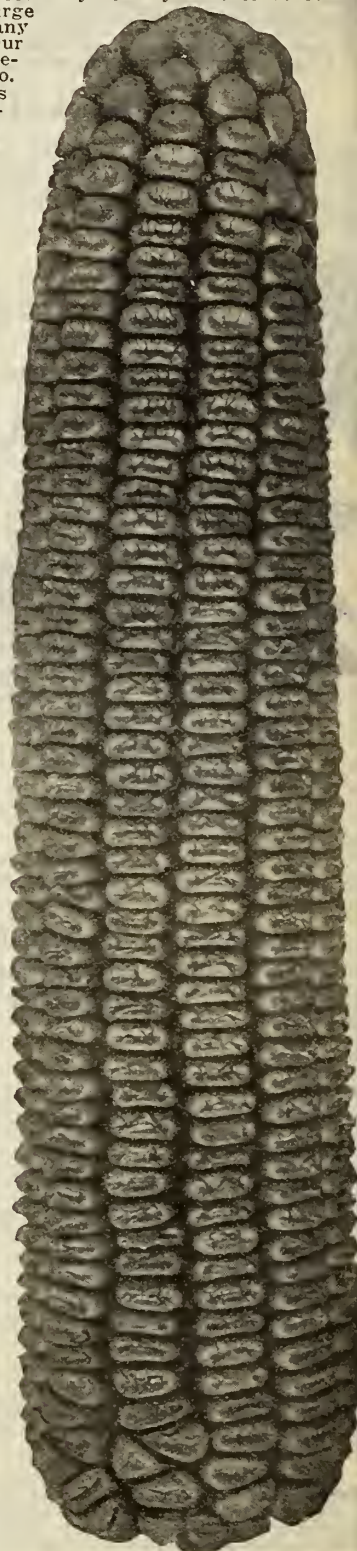
Our attention was directed to this Corn some time since and five years ago when good seed Corn was so hard to procure, we introduced it to our trade through our retail store. Four years ago we catalogued this variety and reports from all directions to this date (October, 1916) are especially satisfactory and we look upon it as one of our very best strains for general growing; quite uniform in shape and style of ear and a sure cropper.

The Corn is a good strong yellow in color, has deep, well-formed kernels, well-dented but not chafy, set on a small dark red cob. Ears have 12 to 16 rows and often 12 inches long and well-grained over the ends, fodder an average in size and leafage. In this locality will ripen in 90 to 100 days.

Prices for either of the above: Shelled, large pkt., 10c.; pint, 25c.; quart, 40c.; postpaid. By Parcel Post, Express or Freight, purchaser paying the transportation charges, $\frac{1}{4}$ bu., \$1.00; $\frac{1}{2}$ bu., \$1.65; bu., (56 lbs.) \$3.00; 5 bu., \$14.50; 6 select ears, 60c.; bu. (68 lbs.) of ears, \$3.50.



Kilbury's Yellow Hybrid



Neller's Cattle Corn

Livingston's Golden Surprise Field Corn

The Large Amount of Corn Produced on Such Small Cobs Surprises Everyone. Entirely Distinct. Stalks Short and Strong. Ripens in 90 to 100 Days. Ears Medium Size. Deep Grained. Small Cob. A Great Feeding Corn.

A variety of great merit offered and named by us in 1898, and, as anticipated, it has met with great favor wherever it has been thoroughly tested. Our description of Golden Surprise Field Corn consists of plain statements and simple facts.

Our illustration is from a photograph, and will give you a very accurate idea of the ears. The cob is small. The Corn, as a whole, is indicative of its name, and is indeed a genuine surprise to all who grow it. Beautiful in its rich golden color and even size from butt to tip of the ear. Profitable in its depth of grain and small per cent of waste in cob. Convenient in its short fodder growth and easy break of ear from the stalk. Certain in its early maturity, and, all points considered, the best early Corn up to date.

Golden Surprise was not offered to the general public until after ten years and more of the closest and most critical observation, careful breeding and selection to its present perfect type. Tested for years in various localities in comparison with well-known sorts, we find it fully equal in average bulk to any on the market, but in depth of grain and weight of shelled Corn per bushel, it has no competitor. Its habit of growth is a very vigorous, medium sized, strong stalk, with broad, closely set leaves, which makes it a valuable fodder Corn. For prices, see below.

Johnson County White Dent

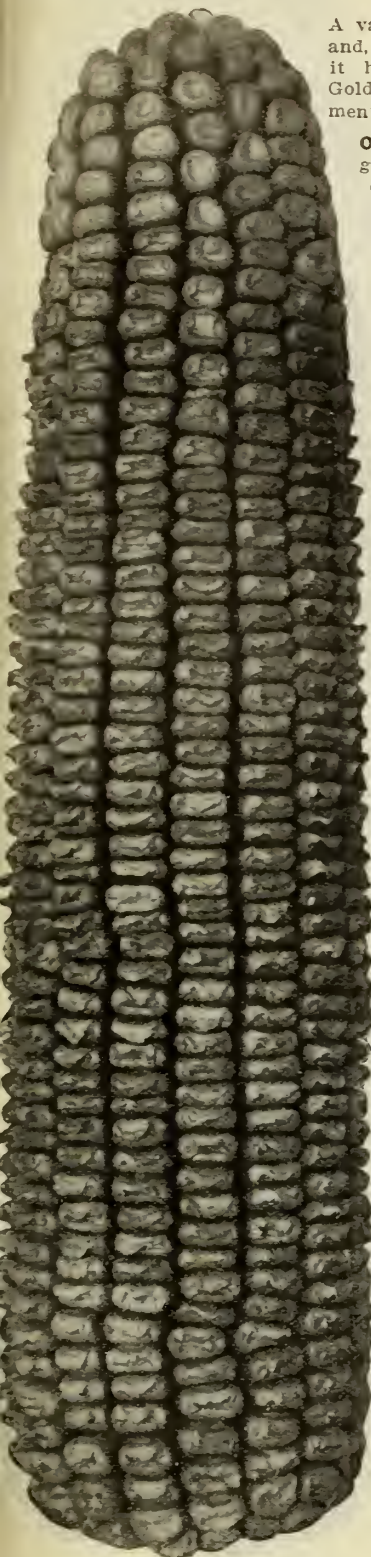
This variety is a cross between Boone Co. White and Forsythe Favorite and developed and introduced by L. B. Clore and has had 21 years of careful, painstaking and intelligent selection and breeding. For the corn-growing belt, we are quite sure there is no White Corn grown today of equal merit. The Corn has become famous for yield and quality, and especially valuable where one wishes to grow show stock.

The shape of the ear is cylindrical to within about 2 inches of the tip, then slightly tapering. Tips fill well over the end and a large per cent of the ears are entirely covered with grains; the butts are well rounded out with a medium-sized shank, kernels very uniform wedge-shaped, pure white, and white cob; ears average about 10 inches in length with the circumference about three-fourths of the length.

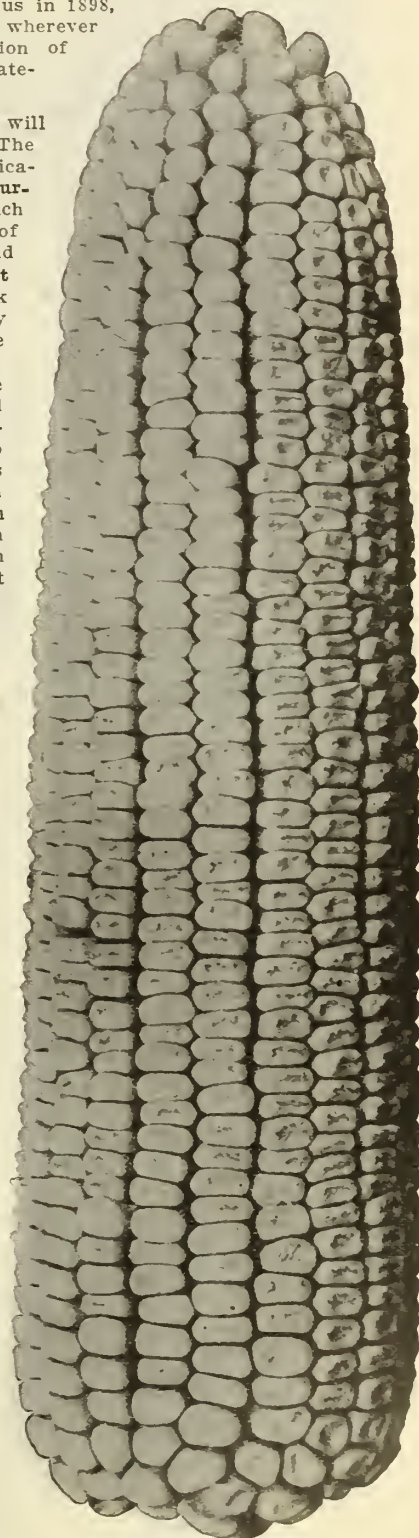
Of strong and vigorous habit of growth and well covered with broad blades—very valuable for ensilage. The length of season is about 120 days. This corn has been successfully grown as far north as Ft. Wayne, Ind., or Marion, Ohio. We especially recommend it for the great corn-growing valleys in latitudes of Columbus and south.

Prices: Shelled, large pkt., 10c.; pint, 25c.; quart, 40c.; postpaid. By Parcel Post, Express or Freight, purchaser paying the transportation charges, $\frac{1}{4}$ bu., \$1.00; $\frac{1}{2}$ bu., \$1.65; bu., (56 lbs.) \$3.00; 5 bu., \$14.50; 6 select ears, 60c.; bu., (68 lbs.) of ears, \$3.50.

As corn prices are made before corn conditions are fully known, those wanting larger quantities will please write for special quotations.



Golden Surprise



Johnson County White Dent

The splendid varieties of Corn described and priced in this catalogue have all been grown especially for seed, and will be found well cured and true to name—in fact, first-class in every respect. We would ask our customers to place their orders as early as possible while our stocks remain unbroken. Prices of Field Corn by Packet include postage. On larger quantities, by Parcel Post, express or freight, purchasers must pay the transportation charges. See page 3 for Parcel Post rates.

True Yellow Leaming

The Standard Variety for Quality

An extensively grown, large, Yellow Dent variety, which we have grown and sold with the greatest satisfaction for years. Our improved strain we do not believe is excelled, if equaled, by any other now offered. It has pure, glossy yellow ears, growing low, on very strong, heavy stalks; grains square and deep; ripens quite early—frequently in 100 days from planting. Yields from 75 to 100 bushels per acre. Adapted to rich soils. (See illustration.)

For prices, see below.

True Yellow Clarage

Best Second Early. Sure to Ripen

This variety has been grown extensively in this locality for over 50 years, and is one of the surest cropping varieties ever grown here. Ripens between Pride of the North and True Yellow Leaming. Ear medium in size, very uniform its entire length and well filled out at both ends. Husks very easily; of rich golden yellow color and very productive. In favorable seasons will ripen planted as late as the first of July. Highly recommended as one of the best in points of early maturity, productiveness and very rich in feeding qualities. (See illustration.)

For prices, see below.

White Cap Yellow Dent

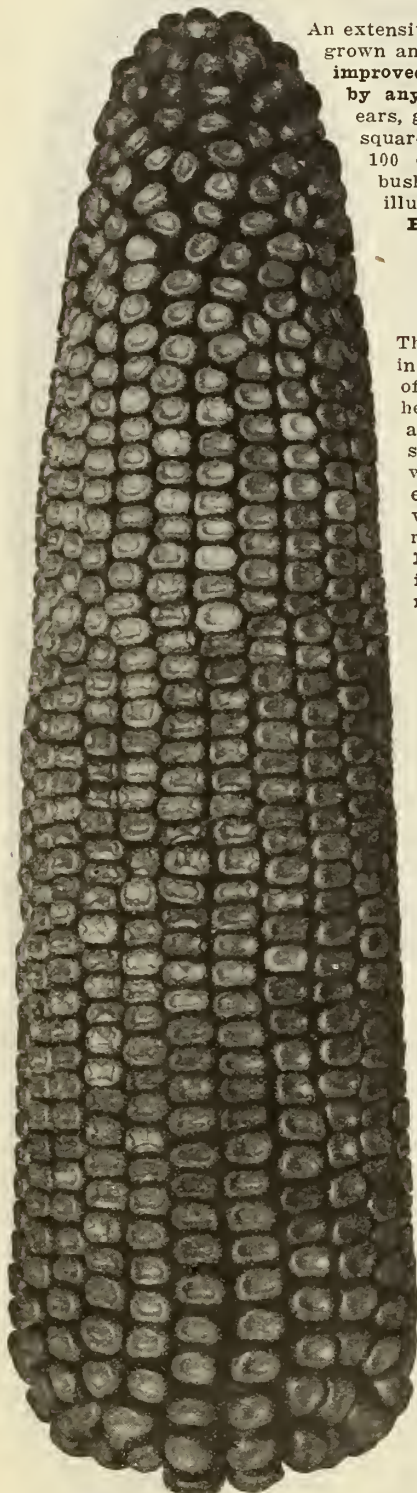
An old popular variety. This old favorite has been known for many years as a good yielder on all kinds of land. A very strong and hardy strain and recommended for thin soils. The ears are large and well covered, cob is both red and white. The grain has white cap, is well dented and of good depth with lemon colored body. Can be planted safely in any part of Ohio and similar latitudes. For price, see below.

Pride of the North

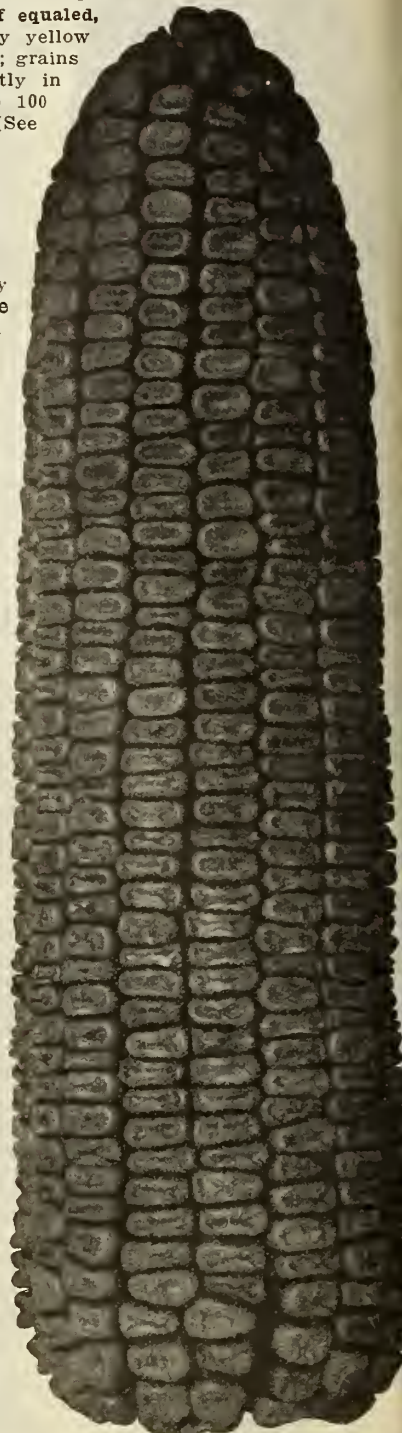
A very early Yellow Dent Field Corn, and can be successfully grown farther North than can any other Dent variety. It ripens very readily, even in New England. It also matures perfectly in 90 days and is very frequently safe from frost in 75 days. Very hardy, ears of uniform size; too small for a main crop, but right size for stock feeding; cob small, kernels set closely on cob and are long and compact. This variety is planted quite largely for early crop to feed stock while yet green; and is also planted late when larger varieties could not possibly mature before the frosts.

UNIFORM PRICES FOR ALL VARIETIES LISTED ABOVE:

Shelled large pkt., 10c.; pint, 25c.; quart, 40c., postpaid. By Parcel Post, Express or Freight, purchaser paying the transportation charges, ¼ bu., \$1.00; ½ bu., \$1.65; bu. (56 lbs.), \$3.00; 5 bu., \$14.50; 6 select ears, 60c.; bu. (68 lbs.) of ears, \$3.50.



True Yellow Leaming Field Corn.



True Yellow Clarage Field Corn.

Livingston's Mammoth White Dent Field Corn

Has Been Grown Continuously on One Farm for Over Fifty Years

A very large White Dent Field Corn. Has a broad, very deep, pure white kernel and cob. Grades strictly white in any market. It is very desirable for white cornmeal, and those desiring a large white corn cannot fail to be pleased with this splendid variety. As a grain crop or for ensilage we consider it the equal of any variety we have ever seen tried, and have sold it in large quantities to nearly all the dairymen around this city and many others throughout the country. We have sold this excellent Corn for many years past, and we can honestly pronounce it one of the best large White Dent sorts. Matures as early as any of the yellow varieties of the same large-sized ear. (See illustration.) For prices see below.

Reid's Thoroughbred Yellow Dent

(See illustration to the left, from our own photo.)

If any seed grain can truly be called pedigreed, the Reid's Yellow Dent Field Corn is certainly entitled to be known as such, as its history dates many years back. It has been bred up and selected with painstaking care to what is at the present time one of the best varieties of yellow Corn grown. Ear medium in size, remarkably uniform, and of a bright yellow color, with solid, deep grain and small red cob. Has from 18 to 24 rows of kernels on the cob, 50 to 60 grains in the row and is well filled over the ends, and especially the butt, leaving a small shank, which makes it a great favorite with huskers. Best shredding sort, as it shatters the least of any by actual test.

The Iowa Experiment Station report of 1901 gave the Reid's Yellow Dent an average of 100 bushels per acre, while the Agricultural Students' Union of Ohio in 1903 gave it a yield of 14 per cent above all other varieties. For prices see below.

Prices: Shelled, large pkt., 10c.; pint, 25c.; quart, 40c., postpaid. By Parcel Post, Express or Freight, purchaser paying the transportation charges: 1/4 bu., \$1.00; 1/2 bu., \$1.65; bu., (56 lbs.) \$3.00; 5 bu., \$14.50; 6 select ears, 60c.; bu., (68 lbs.) of ears, \$3.50.

Fodder and Ensilage Corn Varieties

Red-Cob Ensilage Corn

A Southern type of large, white corn, with strong, leafy stalks and short joints. Farmers growing the Red-Cob Ensilage for the first time tell us they hardly know what to do with the enormous yield of fodder. Pk., 50c.; bu., \$1.70; 2 bu., \$3.20; 5 bu., \$7.75; 10 bu., \$14.50.

Mammoth White Dent Corn

See top of page for description and price.

True Yellow Leaming Corn

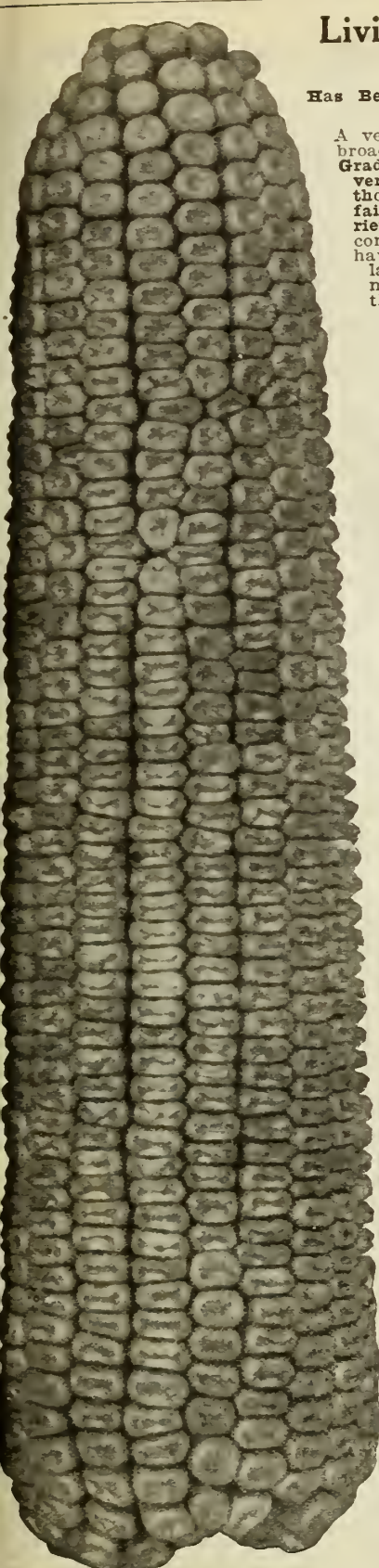
See page 64 for description and price. Sweet Corn for Green Fodder

There is nothing better or more greedily eaten by stock of all kinds. Can be planted the same as other corn, or sown thickly in drills or broadcast. Pk., 85c.; bu., \$3.00.

Popping Corn

Selected White Rice

Our stock of this variety is choice, having been selected very carefully for many years. This variety is the best for popping; grains pointed; pops full and white; ears large sized, very handsome; productive, excellent quality; very crisp and delicious. By mail, postpaid—Nice Sample Ear, 10c.; pkt., 5c.; 1/4 lb., 10c. By express or Parcel Post, not prepaid, 5 lbs., 75c.; 10 lbs., \$1.30; 25 lbs., \$3.00.



Reid's Yellow Dent



Mammoth White Dent

Various Types of Sorghum (The Great Dry Land Forage Plants)



Feterita

Feterita

An Extra-Early Strain of White Kaffir Corn.

A New Non-Saccharine Cane.

Introduced 1912, has again proved its worth planted on both muck and upland on our own farms and has verified the claim we made for it last year. In fact, we thought so well of it that we give it a place on Catalogue Cover 1915, and recommend it with full confidence to all Poultry men, and for use wherever Kaffir Corn can be used. It is twenty to thirty days earlier than Kaffir Corn and more productive, heads equally as large, withstands drought as well or better and branches from the root. One seed produces anywhere from 3 to 10 stalks usually 6 to 8 each bearing a full-sized head, all filled with fine white plump grains—a little larger than Kaffir Corn. The stalks are well covered with large blades from the ground up, and after the heads are removed there is from two-thirds to three-fourths as much stover left as would be furnished by any average crop of corn. Seed planted after April 16th ripe and harvested on our lands Sept. 21st. Plant a few acres to feed your hens and fill your egg basket. It is one of the surest croppers and one of the best feed for poultry and pigeons. Owing to its earliness the best of its class for latitudes south of Chicago.

Prices: Pkt., 5c.; $\frac{1}{4}$ lb., 15c.; postpaid; 10 lbs., \$1.00; 50 lbs., \$4.50; 100 lbs., \$8.00.

All Prices Subject to Market Changes

Sorghum, or Sugar Cane

(50 lbs. to bushel)

For Fodder—Sow 1st to 15th of June, 100 lbs. seed per acre, and harrow to cover 1 to 2 inches. Harvest after first frost. Cut with self-binder or mower, and after three days of sun put up in large cocks and feed from field, or store in long, 8-foot-wide ricks near feed lot. Yield 8 to 10 tons per acre. Cows and all stock do as well when fed on it as on grass. They will eat it up "slick and clean." Our sales grew from a few hundred pounds to many tons as soon as we found out and recommended this way of growing it. **For Syrup**, plant in hills and cultivate same as corn.

Early Amber Cane—The earliest and makes the finest quality of forage or syrup. Oz., 5c.; $\frac{1}{4}$ lb., 15c., postpaid; 10 lbs., 75c.; 50 lbs., \$3.25; 100 lbs., \$6.00.

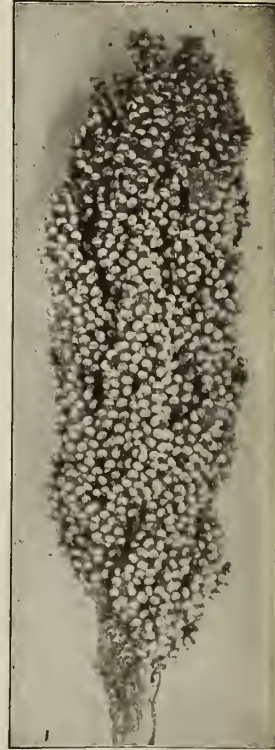
Early Orange Cane—A strong grower; stalks heavier and a little later than Amber. Oz., 5c.; $\frac{1}{4}$ lb., 15c., postpaid; 10 lbs., 75c.; 50 lbs., \$3.25; 100 lbs., \$6.00.

Write for prices on larger quantities, stating amount you can use. Will send samples gladly if you so desire.

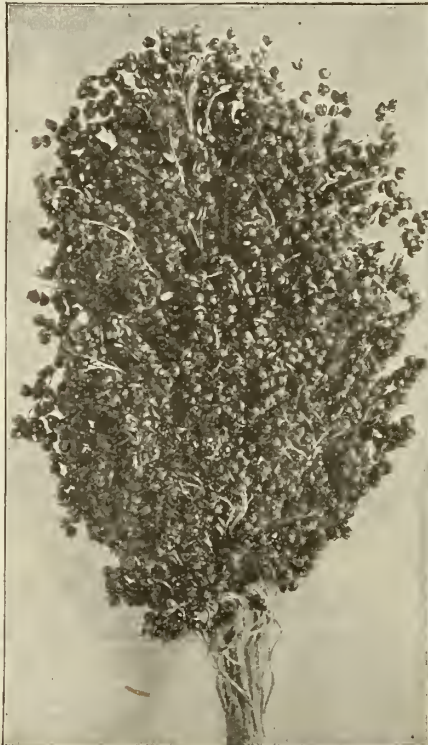
Kaffir Corn

A Great Fodder Crop. The Finest Grain for Poultry and Pigeons.

(50 lbs. to bushel.) Eaten by all domestic animals, whether fed in the grain or ground and cooked. For grain, sow at rate of 5 to 7 lbs. per acre and cultivate same as corn. Average yield 50 bushels per acre. For hay, sow in drills or broadcast at rate of 50 to 75 lbs. per acre, and cut when seed is coming to the dough stage. Make valuable hay, yielding from 5 to 10 tons per acre. Oz., 5; $\frac{1}{4}$ lb., 15c. postpaid; 10 lbs., 70c.; 50 lbs., \$3.00; 100 lbs., \$5.50.



White Kaffir Corn



Head of Sorghum

Items on this page are sent at buyer's expense, except as noted.

Peanuts

Improved Large Virginia

A very profitable variety to grow, and is easily cultivated, very erect; the largest pods and kernels with fewer imperfect pods than any variety. The vines make valuable forage for stock. (Bu., 22 lbs.) By mail, large pkt., 10c.; $\frac{1}{4}$ lb., 15c.; postpaid; 5 lbs., 90c.; 10 lbs., \$1.50.

Sweet Spanish Peanut

The earliest variety grown. Pods are small, remarkably solid, well filled and of an extra fine quality. Yield per acre very large. Large pkt., 10c.; $\frac{1}{4}$ lb., 15c., postpaid; 5 lbs., 90c.; 10 lbs., \$1.50.

Canada Field Peas

Every year there is more inquiry for Field Peas. They stand in the front rank as a fodder, especially for hogs. They can be fed green or dry. They will grow on land that will not produce clover. Sow $1\frac{1}{2}$ to 2 bushels to the acre, or, if with oats, sow 1 bushel of each. Sow the peas first and plow under 4 to 5 inches; then oats on top and harrow in. Pk., \$1.15; bu., (60 lbs.) \$4.00. For large quantities, write for prices, stating quantity you can use.

All Prices Subject to Market Changes

Livingston's Finest Grain Seeds

Selected Seed Oats

We have always realized the importance of supplying growers with the best selected Seed Oats, and we can truly say that our efforts in this direction have resulted in our customers obtaining increased yields by

sowing our superior stocks and strongly advise that those customers who wish to secure the best yields use our northern grown stocks. Many years of experience as growers leaves no doubt as to this matter.

Prices subject to market fluctuations.

Items on this page are shipped at buyer's expense except as noted.

Regenerated Selected Swedish Oats

(See illustration)—Originated and introduced by Garton Seed Co., of England, are now well acclimated and have given excellent satisfaction. Weighs from 32 to 40 lbs. per measured bushel. The straw is heavy and strong and not liable to lodge. Heads are large, upright and bushy. Grains are white, large, thick and plump with thin hull, making a very fine appearance and very desirable for feeding. Their strong root development enables them to withstand drought better than many varieties; are quite early and less liable to damage by rust than many sorts.

Price—Lb., 10c.; pk., 35c.; bu. (32 lbs.), \$1.00; 2 bu., \$1.90; 5 bu., \$4.75; 10 bu., \$9.00.

Silver Mine Oats

This Oat has reputation of long standing and is noted for its heavy and reliable yielding properties. It is very hardy and produces beautiful white kernels very desirable for the manufacture of rolled oats. The heads are large and sprangled and borne low down on the stalk, which is stiff, bright and clean and seems to prevent lodging. We have handled this very reliable Oat for a number of years. Many farmers will sow no other sort, as they offer all the desirable points, namely: Large, plump, white grain, good straw, medium early and good yielder. Price—Lb., 10c.; pk., 35c.; bu. (32 lbs.), \$1.00; 2 bu., \$1.90; 5 bu., \$4.75; 10 bu., \$9.00. Bags free.

New Victory Oats

Is an Oat introduced from Sweden and grown by us on our Kirkersville farms for the past three years on both strong upland and muck, and are much pleased with them, and offer them to our customers with full confidence that they will give satisfaction.

The head is large, well spread and filled with large, plump, rather barley-shaped, white grain. Straw is quite stiff and of good length. Stools freely, especially

when sown thinly. This Oat being of new blood and from an Oat-growing country leads us to predict for them a successful future.

Price—Lb., 10c.; ¼ bu., 45c.; bu. (32 lbs.), \$1.25; 2 bu., \$2.35; 5 bu., \$5.50; 10 bu., \$10.00.

Spring Wheat (60 Lbs. to Bushel)

Marquis (New)—Is similar to Red Fife; quite early; beardless; yellow chaff, very plump, flinty kernel; said to be one of the best. Lb., 10c.; by express or freight, pkt., \$1.00; bu., \$3.00.

Blue Stem—A very popular variety in the Northwest. Heads are large and well filled; stools freely; kernels very hard. Lb., 10c.; by express or freight, pkt., \$1.00; bu., \$3.00.

Barley (48 Lbs. to Bushel)

The Best Nurse Crop for Sowing With Alfalfa.

Beardless—Barley needs a rich land, more sandy and lighter than that adapted to Wheat. It is sown in the Spring and can be grown farther North than any other grain. It should be cut before fully ripe (unless intended for seed), as it is then of better quality and less liable to shell. Use about 2 bushels per acre. Lb., 15c.; pk., 50c.; bu., \$1.75; 10 bu., \$16.50.

Speltz or Emmer (40 Lbs. to Bushel)

A valuable grain recently introduced from Russia. It is adapted to dry sections and poor soils, often yielding 50 bushels or more of grain per acre. The straw and grain of Speltz have feeding value equal to barley and are relished by all kinds of stock. Sow in the Spring, 50 lbs. per acre. Large pkt., 10c.; lb., 15c.; postpaid; 10 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$1.85; 100 lbs., \$3.40.

All prices subject to market change.



Beardless Barley



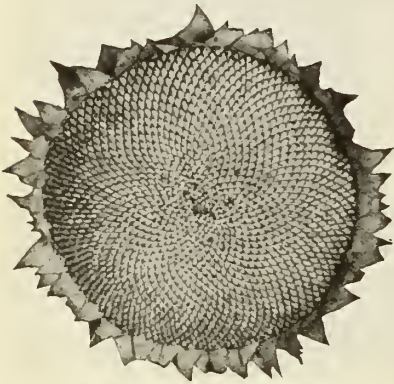
Dwarf Essex Rape

Best Quick Growing Pasture for Sheep and Hogs.

There is but one variety of Rape that has proven profitable in the United States, and that is the Dwarf Essex Rape. No other plant known that will give so much pasture in so short a time at so little cost. Under favorable conditions it is ready for pasture in six weeks from time of sowing and can be sown any time from April to September at the rate of 3 to 5 lbs. per acre. Land should be prepared same as for Turnips. It is grown for pasture and green manuring and is especially valuable for these purposes. Rape-fed lambs should have free access to salt. One acre of good Rape will furnish feed for a flock of twelve sheep for 45 to 60 days. Our stock is the True Dwarf Essex, and not the worthless annual. Weight per bushel, 50 lbs. Price: Packet, 5c.; ¼ lb., 10c.; lb., 20c.; 10 lbs., \$1.25; 50 lbs., \$5.75; 100 lbs., \$10.50. Write for prices on larger lots.

Broom Corn

Improved Evergreen—The best variety for general cultivation on account of the color and quality of brush. Ripens early; grows about 8 to 10 feet high; brush of good length, fine and straight, and always of green appearance when ripe. Our stock is select, having been saved by professional growers for their own planting. (46 lbs. to bushel.) ¼ lb., 10c.; lb., 20c., postpaid. By express: 10 lbs., \$1.25; 25 lbs., \$2.75; 100 lbs., \$10.00.



Mammoth Russian Sunflower

Sunflower

Mammoth Russian — Immense yielder — 125 bushels of seed to the acre has been grown at less expense than corn.

Very highly recommended for poultry. Best egg-producing food known. Good feed for horses as well. (See illustration.)

Choice Stock — Oz., 5c.; ¼ lb., 10c.; postpaid; 10 lbs., \$1.00; 25 lbs., \$2.25; 100 lbs., \$8.00.

Sand or Hairy Vetch

One of the Newer Leguminous Plants of Value

(*Vicia villosa*)—Since its introduction into this country this plant has made a splendid reputation for itself, especially as a crop to turn under. It succeeds on almost all soils, even poor sand soils produce quite good crops, though it is much more vigorous on good land. It is very hardy and remains green all Winter; it should be sown during August and September, and we advise that it be sown with rye—the rye helps to hold it up. It is much harder than scarlet Clover and is giving excellent returns in the Northern and Northwestern states where the Winters are very severe and where many forage plants Winter kill. It is equally valuable in the South for a hay crop. Every gardener, dairyman and farmer should use this wonderful soiling plant.

Where conditions of soil, time of sowing, and rainfall have been favorable, it will make from 10 to 15 tons of green top to turn-under by the 1st to the 15th of May.

The root system is quite heavy and like all leguminous plants bear to a greater or less extent nitrogen gauls or nodules according to season, land and inoculation.

If the crop is to be used for hay, it will be well to sow 45 to 60 lbs. of Vetch, and with it ½ bu. Rye per acre. Write for circular giving fuller culture directions.

If you want any considerable quantity, write for special quotations.

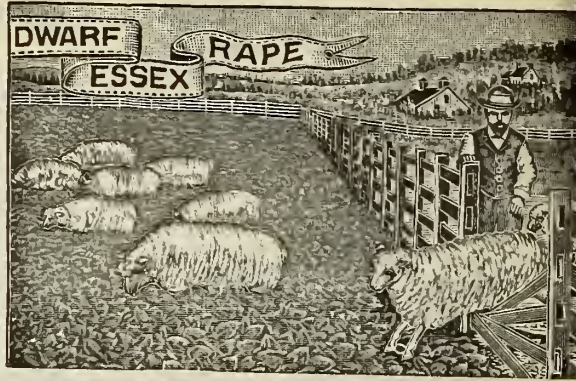
Vetch is largely grown in Europe, and on account of the war seed is scarce.

Prices: Oz., 5c.; 4 ozs., 15c.; lb., 40c., postpaid. By express or freight not paid: 10 lbs., \$2.50; 25 lbs., \$5.75; 50 lbs., \$10.00; 100 lbs., \$19.00.

Spring Vetches

A good forage plant; also used for plowing under. Sow 50 to 75 lbs. to the acre broadcast, like wheat or barley.

Prices: Oz., 5c.; 4 ozs., 15c.; lb., 25c.; postpaid. By express or freight not paid: 10 lbs., \$1.30; 25 lbs., \$2.50; 50 lbs., \$5.50; 100 lbs., \$9.00.



Tree and Hedge Plant Seeds

Osage Orange—The best of all hedge plants. Oz., 10c.; ¼ lb., 25c., postpaid; 10 lbs., \$7.00; 25 lbs., \$16.00.

Catalpa (Speciosa)
A rapid grower and makes the best timber trees. Pkt., 5c.; oz., 20c.; ¼ lb., 50c., postpaid.

Russian Mulberry
Easy grown; hardy; fine for hedges; makes fence posts in five years; fruit good. Pkt., 10c.; oz., 30c.; ¼ lb., 85c., postpaid.

Black Locust
A very rapid grower, as fence posts or ties may be cut in 10 years from planting seed, and will last a lifetime. Oz., 10c.; ¼ lb., 25c., postpaid; 10 lbs., \$7.00; 25 lbs., \$16.00; 50 lbs., \$30.00.



For NITROCULTURE INOCULATOR, See Page 60

Prices on Farm Seeds do not include shipping charges except as noted.

Patatas **Livingston's Superior Seed Potatoes** Kartoffeln

The necessity for changing seed often is universally admitted by all well-posted growers, especially when the best seed can be had at so little additional outlay. Owing to the perishable nature of seed potatoes and the unsettled condition of all markets, prices are made subject to market change and conformation of order on receipt of same.

Special Instructions

Owing to the perishable nature of seed potatoes and the unsettled condition of markets, all prices are made subject to market change and confirmation of order on receipt of same, and will fill orders just as soon as the weather, in our judgment, will permit. However, we cannot become responsible for changes in the weather by which the potatoes might be damaged while en route. We will ship at any date our customers may designate, when requested to do so, regardless of the weather, if customers wish to take their own risk. When ordering late, please state whether we shall return the money or send some other kind of equal value, provided we cannot supply the sort ordered. Please give plain and explicit shipping directions.

Order Seed Potatoes Early. We would most earnestly request our customers to send in their orders early. We then book and fill them in the order received. By so doing you take very little risk in getting what you want, as compared with waiting until the last moment.

Seed Potatoes by Express or Freight

At Barrel, Bushel, Peck, Half-Peck or Pound Prices, buyer pays the freight or express charges. Our barrels contain 2¾ bushels, good measure.

Seed Potatoes by Mail

Prices for small quantities of any of our Seed Potatoes, unless otherwise quoted: Lb., 15c.; 3 lbs., 35c., not postpaid.

All transportation charges must be paid by the buyer, except when offered postpaid, by mail. No potatoes sent C. O. D.

Culture

Any good soil will produce Potatoes, but a sandy loam is best. Make furrows of good depth, 3 feet apart; drop the cut seed pieces about 8 or 10 inches apart. If grown in hills, one or two pieces of potatoes, containing one or more eyes in each piece, are placed in each hill, which are made 3 feet apart each way. Cover the seed four inches, but not so deep in wet, cold land. When the sprouts appear, cultivate and hoe to keep the soil free and clear of weeds. As the vines increase, draw earth around them, forming a slight ridge. Just as soon as the bugs appear use Paris Green. One peck will plant about 100 feet of row, or 100 hills. Ten bushels are required to plant an acre.

By planting Our Northern Grown Seed you are assured of **Early Maturity, Increased Yield and a Vigorous Growth.** To produce healthy stock we use first-class potato land, nothing but pure, well-matured, good-sized seed. The seed potatoes are very carefully handled when digging and barreling, that they may not be bruised or otherwise injured. Our seed potato stocks should not be compared with potatoes picked up on the market named at a guess, and sold for seed.

Seed Potato Eyes

For those at very great distances, or where for any special reasons the express or freight charges would be exorbitant, these Seed Potato Eyes afford an inexpensive way to obtain and test any of the varieties we offer. Three dozen Eyes, any kind, 30c., postpaid.

THE RELIABLE POTATO

Extra Early Cobbler (Irish Cobbler)

One of the most reliable first-early Potatoes ever sent out. It ripens almost with the Early Ohio and is so uniform that every hill seems to ripen at one time. The yield is very large for an early variety—equal to some of the late ones. Form oval and round; skin lightly netted, creamy white and having few eyes, which are quite shallow—some even with the surface. Flesh pure white and of the finest quality—not exceeded by any early variety. Keeps perfect until Spring, when it starts large, strong and vigorous sprouts. Its strong growth, earliness, uniformity, large yield, fine quality and very handsome appearance have brought the Extra-Early Cobbler right to the front as a profitable variety for market or home use.

PRICES—Choice Sorted Northern Grown Stock: ½ pk., 45c.; pk., 80c.; ½ bu., \$1.50; bu., \$2.75; bbl., \$7.50.



Extra-Early Ohio

Extra Early Ohio Potato

Our Specialty — A Grand Potato

Some early varieties will yield edible Potatoes about as soon as the Extra-Early Ohio, but their tops will be green for days after the Extra-Early Ohio have fully ripened. The Extra-Early Ohio is fully two weeks ahead of the Early Rose, and is a general favorite with potato growers and marketmen alike, and is the most profitable Potato they can possibly grow. The sprouts are very strong, the vines grow erect and are easy to cultivate. Maturing early, it brings the highest prices, and the land can be used for another crop after it; does well on any soil suitable for Potatoes. The tubers grow compact in the hill, are easily dug, with very few small ones—nearly every Potato is of marketable size; has few eyes, which are even with the surface. With heavy manuring, close planting and good culture, a very large and profitable crop can be expected—300 to 500 bushels per acre is not an unusual yield. We are confident that many growers do not really know a true Extra-Early Ohio, and have been growing some other sort for it. We know ours is right, because the stock is the product of original headquarters seed.

PRICES—Choice Northern Grown Seed: ½ pk., 45c.; pk., 80c.; ½ bu., \$1.50; bu., \$2.75; bbl., \$7.50. Special prices will be quoted on larger quantities.



Extra-Early Cobbler

The "Livingston" Potato

It is "a White Seneca Beauty," and the Seneca Beauty is admitted by all who have ever grown it to be one of the most beautiful of the many rose-colored varieties; and those familiar with it will at once realize what a beauty it would be in a white jacket, and especially if it retained its delicate Peachblow eyes. This is exactly what we have in "The Livingston." It is a very strong grower and most productive and not subject to blight. Tubers of beautiful form, medium to large size, oblong, and of uniform thickness; slightly flattened; skin white and slightly russeted—all of which denotes the very highest quality. Cooks dry and has splendid flavor. Prices—Choice Sorted Northern Grown Stock: $\frac{1}{2}$ pk., 45c.; pk., 85c.; $\frac{1}{2}$ bu., \$1.60; bu., \$2.90; bbl., \$8.00.



Livingston Banner

The Seneca Beauty Potato

Very Smooth, Uniform Size, Almost Blight-Proof, Productive, Splendid Quality, Fine Keeper

A grand, good, medium-late Potato, and too much has not been said in its praise. Its beautiful and distinct appearance sells it in any market and its fine table qualities please all. The tubers are large and smooth, with few eyes close to the surface, and of a beautiful pink color. Uniform in size and shape, scarcely and small ones. Vines rank and healthy, and loaded with beautiful blossoms. Good keeper and a heavy cropper. Prices—Choice Sorted Northern Grown Stock: $\frac{1}{2}$ pk., 50c.; pk., 90c.; $\frac{1}{2}$ bu., \$1.65; bu., \$3.00; bbl., \$8.25.

David Salser, Meigs Co., Ohio, writes, April 7th: "I planted $\frac{1}{4}$ bu. of your Extra Early Ohio Potatoes April 7th and dug and marketed part of them June 8th, good size, just sixty-one days from date of planting."

M. S. Boylan, Calhoun Co., Mich., writes as follows: "Thirteen years ago I purchased from you a peck of Livingston's Seneca Beauty Potatoes and have raised them ever since and they are just as good today as ever. They are certainly a grand, good Potato for home use. I also raise the Livingston Potato, securing seed of them 8 or 9 years ago, and they are a fine Potato. In fact, I consider your two varieties the best that I have ever grown and I have raised and tested over 300 different varieties. I would not be without them for my own use if I had to pay double price for the seed."

Livingston's Banner Potato

The Best Main Crop Variety

The Banner is a seedling and is one of the finest main crop white Potatoes on the market. No Potato ever made so good a record in so short a time with all classes of growers and on all kinds of soils. None surpass it in uniform, handsome appearance. Its slightly rusty skin is of a light, cream-white color. Its shape is a little oblong and slightly flattened (cooking through easily). The eyes are very shallow. The size is large and desirable, very few being under marketable size. Always smooth and regular in form; grows strong and vigorous from the very sprout. Is also a great drought resister. As near blight and scab proof as any variety we have ever known. The flesh is very white and whether boiled or baked is of the same delicious tasty quality. Medium late. Choice Sorted Northern Grown Stock: $\frac{1}{2}$ pk., 40c.; pk., 75c.; $\frac{1}{2}$ bu., \$1.40; bu., \$2.60; bbl., \$7.00. Write for special prices on larger quantities.



Rusty Coat Potato

Livingston's Rusty Coat Potato

Uniformly long and slightly flattened; is entirely free from prongs, and the eyes are even with the surface. Beautiful buff skin, heavy netting, like a russet apple; flattened shape; of very highest quality, especially as a potato to bake. Its flesh is of the finest texture and very free from hard or black spots. Cooks white as flour, bursting open at any season of the year, and is of the finest flavor. It is an abundant yielder. They sell on sight in the market. This splendid Potato always brings the very highest market prices, and commission men tell us they cannot get enough of them. The seed we offer is strictly pure, hand sorted. Price—Choice Stock Seed, Northern Grown: $\frac{1}{2}$ pk., 40c.; pk., 75c.; $\frac{1}{2}$ bu., \$1.40; bu., \$2.60; bbl., \$7.00.

Seed Sweet Potatoes, New Jersey Grown

Carefully dug, handled and stored over Winter for us, expressly for sprouting purposes. The seed stocks are selected from the most perfect and prolific hills at the time of digging. We have been bedding and selling this stock for more than thirty years, and find the Potatoes much dryer and sweeter than those grown from Ohio or Western grown seed. We repack before shipping, but we wish it distinctly understood that customers take all risks after we deliver in good condition to express or railroad company here. We book orders at any time, but do not ship until about planting time. Our barrels contain 3 bushels, good measure. No Sweet Potatoes shipped C. O. D. Prices quoted are subject to market changes after March 1. Order early.

Up Rivers

Select strain of smooth, short, "chunky" Yellow Jersey Sweet Potatoes, which yield a larger per cent. of marketable stock and sell higher than most other varieties we know. Dry and sweet. A splendid Sweet Potato. This is our specialty in Seed Sweets; we recommend it as very fine. Pk., 50c.; $\frac{1}{2}$ bu., 80c.; bu., \$1.50; bbl. (3 bus.), \$4.00, by freight or express, not prepaid.

Yellow Jersey, or Nansemond

Fine old favorite. Pk., 50c.; $\frac{1}{2}$ bu., 80c.; bu., \$1.50; bbl., \$4.00, by express or freight, not prepaid.

We make special prices for larger quantities. If you need out several barrels, it may pay you to write us before you buy your seed.



FLOWER SEED DEPARTMENT

OUR list of flower seeds will be found to contain all varieties of real merit. Many times varieties are listed which are of no value whatever in the garden or are so difficult to grow that unless one has every facility for propagation, disappointment is sure to follow the purchase of seed. We want our seeds to give satisfaction and prefer not to have a very extended list, rather than to cause disappointment in any of the varieties procured. Cultural directions will be found on most of our seed packets. We will also give free to customers, on application, a very instructive and helpful leaflet—"Annuals from Seeds."

Annuals are those flowers that bloom and ripen their seed the first year, then die. Among these are Asters, Balsams, Mignonette, Sweet Peas, Nasturtiums, Morning Glories and many other very brilliant and fragrant sorts.

Biennials from seed, generally bloom the second year, then die. Some varieties, if planted early, bloom the first season; therefore are treated as Annuals.

Perennials are those that endure our Northern Winters with little or no protection and live and bloom several years in succession. A large majority of the Perennials will bloom the first year if started early in the Spring. Hollyhocks, Columbine, Larkspurs, Foxglove, Poppies, etc., are in this popular class.

Discounts on Packet Flower Seeds For 25 cents select 6 Five-cent, or 3 Ten-cent pkts. For 50 cents select Packets to the amount of 65 cents. For \$1.00 select Packets to the amount of \$1.30. For \$2.00 select Packets to the amount of \$2.75. These discounts apply **ONLY TO FLOWER SEEDS IN PACKETS.**

☞ Collections of Seeds in Packets cannot be included when taking advantage of these discounts.

Showy Flowering Annuals for Beds and Massing

	See page		See page
Ageratum	75	Eschscholtzia	83
Alyssum	75	Gaillardia	83
Antirrhinum	76	Lobelia (Compacta)	86
Asters	72	Marigolds	87
Balsams	77	Nasturtium (Tom Thumb)	90
Calendula	77	Pansy	91
Calliopsis	77	Petunias	93
Candytuft	78	Phlox Drummondii	93
Carnation	78	Poppies	94
Celosa	78	Portulaca	94
Chrysanthemum	79	Salvia Splendens	95
Convolvulus Minor	83	Stocks	96
Cosmos (Dwarf)	80	Verbena	101
Dahlias (Tom Thumb)	80	Vinca	101
Dianthus (An'als)	82	Zinnias	102

Large Showy Annuals for Back-grounds and Borders

Amaranthus	75	Marigolds	87
Celosia Plumosa	78	Nicotiana	91
Centaurea	79	Poppies	94
Cosmos	80	Ricinus	95
Datura	81	Salvia	95
Hibiscus	84	Sunflower	96
Larkspur (Br'ch'g)	86	Zinnias	102

Colored Foliage Plants for Ribbon Beds

Centaurea, White	79	Pyrethrum A're'm	92
Coleus	79		

Climbing Annuals for Arbors, Verandas, Trellises, etc.

	See page		See page
Balloon Vine	76	Moonflower	88
Balsam Apple	76	Maurandya	86
Canary Bird Vine	77	Morning Glories	88
Cobaea	79	Nasturtium	89
Cypress Vine	79	Sweet Peas	97
Dolichos	82	Thunbergia	101
Gourds	84	Wild Cucumber	101
Humulus (Hop)	85		

Hardy Flowering Perennials for Permanent Beds and Borders

Aquilegia	76	Hollyhock	85
Campanula	77	Lavender	86
Candytuft	77	Myosotis	89
Canterbury Bells	78	Pinks (hardy)	82
Carnation	78	Poppy (hardy)	94
Chrysanthemum	79	Primrose (Japan)	93
Coreopsis (hardy)	77	Pyrethrum (h'rdy)	92
Delphinium	81	Scabiosa	96
Dianthus (hardy)	82	Stokesia	96
Digitalis	81	Sweet William	100
Gaillardia	83	Valeriana	101
Gypsophila	84	Violet	101
Hibiscus	84	Wallflower	101

Plants Succeeding in Partial Shade

Antirrhinum	76	Matricaria, or Feverfew	83
Aquilegia	76	Mimulus	86
Asperula	75	Myosotis	89
Bellis (Daisies)	81	Pansy	91
Canterbury Bells	77	Poppies (hardy)	94
Coreopsis	77	Violet	101
Delphinium	81		
Digitalis	81		

Plants for Vases, Hanging Baskets, Veranda Boxes, etc.

	See page		See page
Alyssum	75	Centaurea	79
Asparagus	75	Coleus	79
Lobelia Gracilis	86	Fuchsia	83
Maurandya	86	Geranium	84
Nasturtium	89	Heliotrope	84
Petunia	93	Impatiens	85
Begonia Vernon	76	Pansy	91

Long-Stemmed Flowers for Cutting

Aquilegia	76	Larkspur	86
Asters	72	Marigolds	87
Calliopsis	77	Matricaria	83
Carnations	78	Mignonette	87
Centaurea Cyanus	79	Poppies	94
Centaurea Sweet	79	Salpiglossis	95
Chrysanthemum	79	Scabiosa	96
Coreopsis	77	Stocks	96
Cosmos	80	Stokesia	96
Dahlias	80	Sunflowers	96
Delphinium (h'rdy)	81	Sweet Peas	97
Gypsophila	84	Sweet Sultana	79
Gaillardias	83	Zinnias	102

Plants Suitable for Edgings

Ageratum	75	Marigold, Legion of Honor, 9 in.	87
Alyssum	75	Phlox D. Compacta	93
Begonia Vernon	76	Pinks (hardy)	82
Bellis (Daisies)	81	Portulaca	94
Candytuft	78	Pyrethrum Aure'm	92
Centaurea Candidissima	79	Verbena	101
Cosmos (Dwarf)	80	Zinnia, Dwarf	102
Lobelia Compacta	86		



Semple's Late Branching Aster

Crego Pink

A large variety of a most beautiful shade of pink unlike any other Aster. It comes into bloom just ahead of the late branching Asters and being of Comet type affords variety in the garden. 1409—Pkt., 10c.

1408 Crego White—Similar to the above, only white. Pkt., 10c.

1407 Crego Purple—A new color added to this popular type last year. Pkt., 10c.

Asters

The Aster is, perhaps, the most popular annual flower grown in this country, and justly so on account of its ease of culture, season of bloom and lasting qualities both in the garden and as a cut flower. Seed can be sown in the house in shallow boxes (cigar boxes are good), and in the hot bed in March or in cold frames the first of April and later (about May 1st) in the open ground. Transplant the smaller varieties about eight inches apart in the row and such varieties as Semple's Branching, fifteen inches apart, the rows to be twelve inches apart. The richer the ground the better your flowers will be and water is very necessary if you wish to grow fine blooms.

Semple's Giant Late Branching

Without question, the finest Aster grown. It has size, vigor, fine stems, beauty of form and varied color to recommend it and, while not so early as many of the other varieties, it stands at the head of the list both for the home garden and as a florist's flower.

1400 Semple's Giant Finest Mixed Colors—All shades and colors. Pkt., 10c.; ¼ oz., 20c.; ¼ oz., 35c.

1401 Semple's Giant Lavender. Pkt., 10c.

1402 Semple's Giant Royal Purple. Pkt., 10c.

1403 Semple's Giant Pure White. Pkt., 10c.

1404 Semple's Giant Crimson. Pkt., 10c.

1405 Semple's Giant Shell Pink. Pkt., 10c.

Collection of Semple's Giant Asters, 5 above sorts, 35c.

Mikado Pink

In type Mikado Pink belongs to the Comet class. Petals are narrow, very long and gracefully reflexed. The outer petals show to their full extent, while gradually toward the center they bend and curl across each other, forming a perfectly double flower. 1381—Pkt., 10c.

Mikado White

A magnificent new Aster, same as Mikado Pink, except in color, which is pure glistening white. 1383—Pkt., 10c.

Pink Enchantress

A new variety of upright growth. The flowers are very double and are produced on good stems. The color is of the Enchantress Carnation shade, a very delicate pink. It is a mid-season variety. 1492—Pkt., 20c.

Peerless Pink

The introducers of this variety state that it is midway between Crego and the Late Branching varieties and of a beautiful shade of pink. It blooms a little ahead of the Late Branching and produces its flowers on long stems. 1406—Per pkt., 15c.

Queen of the Market

About two or three weeks earlier than most other Asters. They bloom profusely and are of graceful habit. Their shape is very similar to Semple's Giant Branching Aster. The perfect flowers are borne on long stems and in great variety of colors, making them extremely useful for cutting. A favorite sort. Height 1½ feet.

1440 Mixed Colors—All colors in finest mixture. Pkt., 5c.; ½ oz., 15c.; ¼ oz., 25c.

Separate Colors—1441 Scarlet, 1442 Pink, 1443 Crimson, 1444 Pure White, 1445 Dark Blue, and 1446 Light Blue—Each color, pkt., 5c.

Collection Queen of the Market Asters, 6 separate colors, 20c.

Daybreak

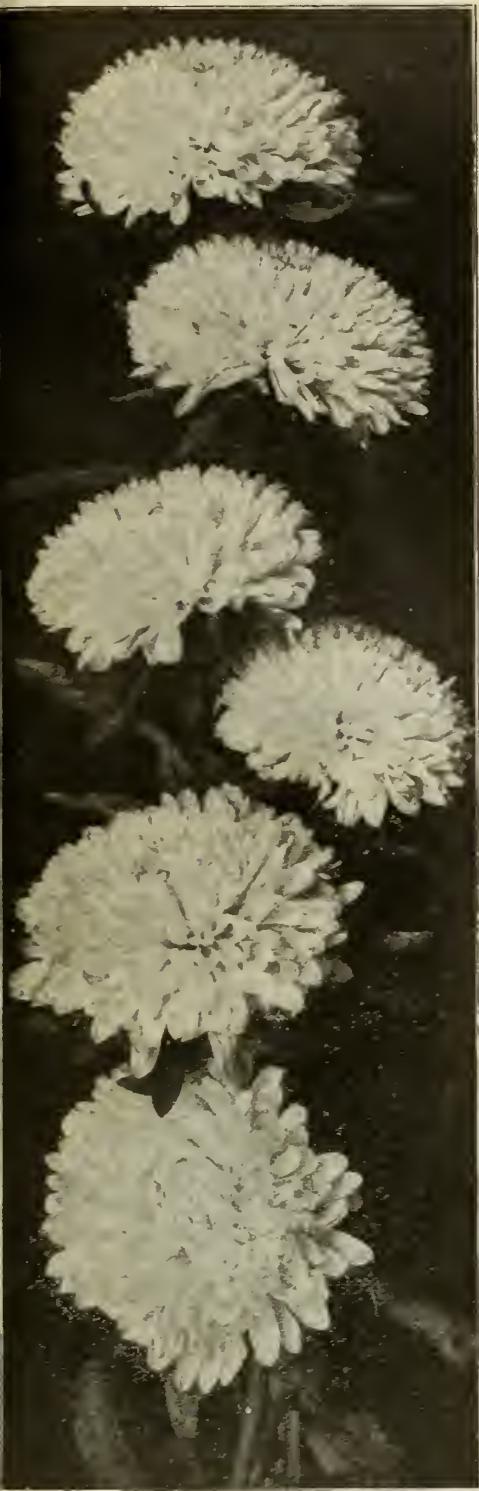
Flowers are very large and double, beautiful shell-pink color. A grand Aster for cutting purposes, growing 2 feet high. 1384—Pkt., 10c.; ¼ oz., \$1.00.

Snowdrift

A white Aster of Comet type and one of the earliest of all. In bloom same time as Queen of the Market. 1485—Pkt., 10c.

Invincible

A very popular Aster in many parts of the country. It is a mid-season variety, very similar in form to the late branching, but flowering a couple of weeks earlier. 1435 White, 1436 Light Rose, 1437 Lavender, 1438 Purple, 1439 Crimson—Each 10c. per pkt.; set of five varieties, 40c.



Royal Asters

Royal Asters

Without doubt one of the best early flowering sorts. It is quite similar, in type of flower, to the Late Branching, but will come into bloom only about a week later than Queen of the Market. The flower stems start from the plant close to the ground, are free from laterals and consequently give their full strength to the production of numerous large, handsomely proportioned flowers. **1486 White, 1487 Purple, 1488 Shell Pink, 1489 Lavender**—Each 10c. per pkt.

Purity

Double flowers of a glistening pure white; similar to Daybreak in form and habit. **1386**—Pkt., 10c.; $\frac{1}{4}$ oz., \$1.00.

Violet King

The habit of growth of this Aster is similar to the Branching type, growing vigorously about $2\frac{1}{2}$ feet high; has long, stiff stems. In form the flower is entirely new and distinct from any other variety; round, full and very large, many of the flowers measuring from 4 to 5 inches in diameter. Petals somewhat resemble the quilled varieties, but are much longer and broader. **1380**—Pkt., 10c.; $\frac{1}{2}$ oz., 50c.; $\frac{1}{4}$ oz., 75c.

Vick's New Early Blanching Aster

The habit of growth is identical with its parent, the late Branching Asters. Plants branch freely, are vigorous in growth. They produce flowers on long, stiff stems and luxurious foliage. The shape of the flower is round, and the size extraordinary large. A very valuable flower for commercial growers and the home garden.

The new Aster comes in two dainty and desirable colors—pink and white. Our stock of seed is true and comes direct from the original introducer. **1410 White**, per pkt., 10c.; **1411 Pink**, pkt., 10c.; **1412 White and Pink Mixed**, pkt., 10c.

Truffaut's Peony-Flowered Perfection Aster

The improved strains of this grand Aster are considered the finest in cultivation. It is one of the most beautiful and extensively cultivated classes, and it deserves to be, as the large, perfectly double flowers are fine. The petals are beautifully incurved. Very profuse bloomers, producing rich and beautiful flowers. We can recommend them very strongly, as we all know they will delight you. Height 2 feet.

1390 Peony Flowered, Mixed Colors—Fine assortment. Pkt., 10c.; $\frac{1}{8}$ oz., 25c.; $\frac{1}{2}$ oz., 45c.

Peony-Flowered Perfection Asters in the following separate colors: **1391 Snow White, 1392 Brilliant Rose, 1393 Rich Crimson, 1394 Sky Blue, 1395 Dark Blue, 1396 Brilliant Scarlet**, at 10 cents per packet.

The Collection of 6 separate colors, one pkt. of each as named above, 50c.

Giant Ostrich Plume Asters

A very large-flowering class, the blooms of which are of most perfect shape; splendid for cut flowers. Resemble the Giant Comet Asters, as they have the same curled and twisted petals. However, the petals are longer, and the whole flower larger. Individual blooms often measure 4 to 6 inches in diameter. Plants of luxurious branching habit, with flowers on long slender stems. Height 2 feet.

1416 Giant Ostrich Plume, Mixed Colors—Embraces all the desirable colors in splendid mixture. Pkt., 10c.; $\frac{1}{8}$ oz., 25c.; $\frac{1}{4}$ oz., 45c.

1417 Ostrich Plume Snow White. Pkt., 10c.

1418 Ostrich Plume Rose Pink. Pkt., 10c.

1419 Ostrich Plume Light Yellow. Pkt., 10c.

1420 Ostrich Plume Azure Blue. Pkt., 10c.

1421 Ostrich Plume Lavender. Pkt., 10c.

1422 Ostrich Plume Dark Blue. Pkt., 10c.

1423 Ostrich Plume Crimson. Pkt., 10c.

Collection of Giant Ostrich Plume Asters, 7 separate colors, 55c.

George P. Bauer, of Ottawa Co., Mich., writes: "Having traded with you this spring in a small amount and finding your seed 'true blue' in every respect, I consider myself a customer of yours from now on."



Shell-Pink Rochester Aster

Victoria Asters

The Victoria Asters resemble Trauffaut's Peony-Flowered Asters very closely, except that the petals recurve to the edge of the flower instead of incurving to the center. Superb colors, elegant sort. 2 feet.

1388 Miss Roosevelt (Victoria)—The flowers of this new Aster are of a clear primrose tint, which changes to delicate flesh color, like the popular Glorie de Dijon rose. Fine cut flower. Pkt., 10c.; $\frac{1}{2}$ oz., 50c.

1459 Pink Beauty—Of upright growth, with flowers carried on long, strong stems. Of chrysanthemum shape with incurved inner and reflexed outer petals. Of beautiful, soft blush pink color. Pkt., 15c.

1450 Victoria Asters, Mixed Colors—Very fine. Pkt., 10c.; $\frac{1}{2}$ oz., 35c.; $\frac{1}{4}$ oz., 60c.

1460 Dwarf Victoria Asters—Perfect flowers of large size, produced profusely. 10 inches high. Effective in beds and borders. Choice Mixed. Pkt., 10c.

Livingston's Exhibition Aster Collection

This magnificent collection contains the finest and most complete assortment of mammoth-flowering Asters it is possible to offer—the newest kinds, all colors, all varieties; early and late. The symmetrical globe-shaped and the fluffy Chrysanthemum sorts.

One large packet each **Semple's Giant Branching, Mixed; Giant Ostrich Plume, Mixed; Giant Comet, Mixed; Truffaut's Peony Perfection, Mixed; Livingston's Superb Mixture of Giant Asters; Vick's Early Branching Asters; Violet King.**

In the bag with each collection we will enclose our leaflet "Aster Culture," telling how to grow big Asters successfully.

All for 50c., postpaid. At regular rates these seeds would cost 80c.

Livingston's Superb Mixture of Giant Asters

Is absolutely unexcelled. A magnificent mixture, producing beautiful flowers, gigantic in size, gorgeous in colors, perfect in form.

This mixture includes the cream of all the Asters on this and the other two pages, together with many other sorts of the most beautiful forms and brilliant colors. Our special strain has been especially selected from the finest large-sized double flowering types. Height about 2 feet. **1490**—Pkt., 10c.; three packets for 25c.; $\frac{1}{2}$ oz., 50c.

Asters (Continued)

Vick's Shell Pink Rochester

(See illustration Alongside)

1493—In this Aster we have another color added to the already popular Rochester type. The color, as the name indicates, is of a soft, shell-pink, one of the most popular colors in Asters. The flowers are large and are supported on long, stiff stems. The long, narrow petals are twisted and curled, making a very rich effect. Pkt., 20c.

Vick's Autumn Glory

1494—Pure sea-shell pink. While similar in color to Semple's Pink, it has a better and more substantial flower, a deeper and longer keeping color, larger and stronger type of plant. Its most distinctive characteristic and chief claim for recognition, however, is the fact that it is later in season than any of the other varieties. The flowers are very double and are borne on stems of unusual length. Pkt., 15c.

Giant Comet Asters

An ideal class for cut flowers, being not only most profuse bloomers, but each individual flower is borne on a stiff stem and resembles an exquisitely curled and twisted Japanese Chrysanthemum. Height 2 to 2 $\frac{1}{2}$ feet.

1430 Giant Comet Crimson, 1431 Giant Comet Light Blue, 1432 Giant Comet Rose Pink, 1433 Giant Comet Dark Blue, 1434 Giant Comet, the Bride, 1428 Giant Comet, Mixed Colors, 1429 Giant Comet Snow White.

Collection Giant Comet Asters, 5 separate colors, 40c.

Mrs. Mary A. Love, Buchanan Co., Iowa, writes, April 7, 1915: "I have planted your seed ever since 1875. They are so reliable, I am afraid to use others. You sent me two catalogues. I gave them to my neighbors. I know they will send to you for seeds."

Vick's Lavender Rochester

(See illustration below)

1495—The magnificent flowers are more double and more Chrysanthemum-like than those of the original Lavender Pink Rochester. The long, narrow petals fall over one another in a charming cascade of color, forming a wonderful shaggy mass that cannot be equaled for richness of effect. In addition to their great diameter they have a most remarkable thickness, making them truly massive. Vick's Lavender Rochester is an exquisite shade of clear light lavender. Pkt., 10c.



Lavender Rochester

**Alyssum
Little Gem
Pkt., 5c.**



Sweet Alyssum

One of the sweet-scented flowers that should always be in every garden. An easily grown annual; fine for beds, edgings or for cutting. In bloom all Summer and through the greater part of Fall.

1325 Sweet Alyssum (Maritimum)—One of most popular of our hardy annuals, both for cutting and for edgings. The pure white flowers are noted for their exquisite fragrance. Blooms continually from earliest Summer until hard frosts. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

1327 Little Gem, or "Carpet of Snow"—A dwarf, very compact-growing variety, that, while only 6 inches in height, each plant will carpet a circle from 20 to 30 inches in diameter. From early Summer until very late Autumn the plants are a solid mass of snow-white flowers of delicious fragrance. Pkt., 5c.; ¼ oz., 15c.; ½ oz., 25c.; oz., 40c.

1329 Saxatile Compactum (Golden Saxatile, or "Basket of Gold")—A hardy perennial variety; its flowers are a most brilliant golden-yellow. Fine for rock-work. Nine inches high. Pkt., 5c.; ¼ oz., 20c.; ½ oz., 35c.

Ageratum (Floss Flower)

Very showy plants; bloom profusely the whole Summer; fine as cut flowers. Splendid for borders, ribbon beds, etc. Half hardy annuals. (See illustration.)

1312 Perfection Blue—Splendid large heads of deep amethyst blue. Compact growth, 9 inches high. Deepest colored of all Ageratums. Fine bedder. Pkt., 10c.; ¼ oz., 25c.

1314 Princess Victoria Louise—A very pretty dwarf sort. Bushes 5 to 6 inches high. Splendid combination with Sweet Alyssum. The color is a bright blue, with white center. Pkt., 10c.; 2 pkts., 15c.; ¼ oz., 25c.

1316 Little Blue Star—Exceedingly dwarf, bushy growth, not over 4 or 5 inches high. Densely covered with clusters of bright blue flowers. Very fine for edging. Pkt., 10c.

1318 Imperial Dwarf Blue—8 inches. Pkt., 5c.
1319 Imperial Dwarf White—8 inches. Pkt., 5c.
1320 Mexicanum—Lavender-blue. 1½ feet. Pkt., 5c.
1321 Finest Mixed—Splendid. Pkt., 5c.; ¼ oz., 15c.

Abronia

Pretty trailing plants with verbena-like fragrant flowers. In bloom a long time. Adapted to beds, rock-work and hanging baskets. Annuals; good mixture; many varieties. 1300—Pkt., 5c.

Abutilon

(Flowering Maple, or Chinese Bell-Flower)—Universally admired for garden or house culture; flower the first season if seed is sown early; rapid growth; bear elegant bell-shaped flowers. Half hardy shrubs. 1302 Mixed—Pkt., 10c.

Arabis Alpina

1306—Dwarf perennial plant, covered with pretty white flowers in May. Thrives well in dry, sandy places. Pkt., 10c.

Acroclium

1308 Rose and White, Mixed—An Everlasting. Yields a great number of flowers, which should be gathered the first day they open and dried in the shade for winter bouquets. Annuals; one foot. Pkt., 5c.; ½ oz., 15c.

Adlumia Cirrhosa

1310 Mountain Fringe, or Allegheny Vine—A beautiful, hardy climber, flowering the first season. Clusters of small rosy-lilac flowers and pale green feathery foliage. Pkt., 5c.

Amaranthus

1333 Fine Mixed—Foliage brilliantly ornamental, producing a striking effect in the border as a background, or as a center of beds. Of the easiest culture. Annuals; 3 feet. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

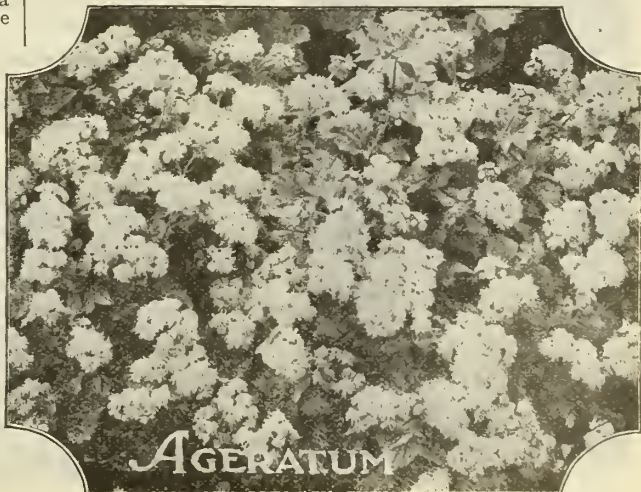
Asparagus

1372 Plumosus Nanus (Climbing Lace Fern)—One of the prettiest house plants. Its feathery foliage is indispensable for bouquets and lasts a long time after cutting. Half hardy perennials. Pkt. (10 seeds), 15c.; 25 seeds, 30c.; 100 seeds, \$1.00.

1374 Sprengeri (Emerald Feather, or Abyssinian Parlor Fern)—This is one of the most beautiful plants for either pot culture or hanging baskets. Useful for bouquets. Grows freely all the year; a popular house plant. Pkt. (15 seeds), 10c.

Asperula

1377 Sweet Woodruff—This charming plant delights in moist, shady situations. Its fragrant leaves and flowers when dried impart an agreeable perfume. Perennials; one foot. Pkt., 5c.



Aquilegia or Columbine

Exceedingly showy, early blooming, hardy plants; always favorites, and of the easiest culture. The graceful, long-spurred flowers are very brilliant. They delight in the moister portions of the garden. The new varieties are greatly enlarged, and the range of colors and shades has been largely increased. Hardy perennial. 1½ to 2 feet.

1365 Chrysantha—This beautiful variety is a clear yellow, being an unusual color in Columbines, and of the long-spurred type. It also has the characteristic of flowering nearly all Summer. One of the best and very hardy. Pkt., 10c.

1368 Coerulea—The true Rocky Mountain variety, a beautiful blue and free-flowering. The State flower of Colorado. A splendid plant for the hardy border. Pkt., 10c.

1356 New Long-Spurred "Rose Queen"—A beautiful novelty, producing in great profusion very graceful, large-flowered, long-spurred flowers, shading from light pink to dark rose, with white center and yellow anthers. Very delicate and beautiful. Pkt., 15c.

1360 Double Varieties Mixed—A very choice assortment. Pkt., 5c.

1362 Single Varieties Mixed—All the best sorts and colors. Pkt., 5c.

Mr. Floyd H. Ferrell, Hocking Co., Ohio, writes, March 9, 1916: "I have had good success with your seeds last year and I think they are surely True Blue seeds indeed."

Mr. Daniel J. Hurley, Wayne Co., Mich., writes, July 25, 1916: "The seeds I got from you last Spring are giving perfect satisfaction."



Antirrhinum

Giant-Flowered Antirrhinum

(Snap Dragon)

This old favorite is one of the most beautiful and useful border plants of our gardens. Its very graceful flowers are borne on long spikes and in the greatest diversity of colors. The spikes of flowers are most brilliant and showy. Two feet.

1340 Giant White—Pure snow-white. Pkt., 10c.

1341 Giant Rose—Delicate rose-pink. Pkt., 10c.

1342 Giant Scarlet—Brilliant scarlet. Pkt., 10c.

1343 Giant Yellow—Pure soft yellow. Pkt., 10c.

1344—Giant Queen Victoria—Extra large, superb; pure white. Pkt., 10c.

1346 Giant-Flowering Finest Mixed Colors—An elegant assortment of innumerable rich colors and shades, including all the named varieties offered by us. Pkt., 10c.; 3 pkts., 25c.; ¼ oz., 30c.; oz., \$1.00.

Collection Giant Antirrhinums, 5 separate colors, 35c.

1347 Dwarf Mixture—Contains the very choicest colors. 12 inches. Pkt., 5c.; ¼ oz., 20c.

1348 Tall Mixture—The best colors; 2 feet. Pkt., 5c.; ¼ oz., 15c.

E. Blickenderfer, Laclede Co., Mo., writes, Jan. 28, 1916: "Enclosed find 25c. for your seven varieties of Sweet Peas, Spencer variety. Those we received from you last year did extra fine; they were without doubt the finest in the city."

Mrs. T. J. Gammon, Kennebec Co., Me., writes, March 15th: "Your seeds are the finest I have ever bought. I have bought of you for several years and they always come true."

John Wiemann & Sons, Des Moines Co., Iowa, says: "Your seeds give perfect satisfaction. June 12, 1915."

Balsam Apple and Pear

1518 Mormordica, Mixed—Very curious vine with ornamental foliage. Its large, golden-yellow fruit opens when ripe and shows its brilliant blood-red inside. Hardy annuals. 10 feet. Balsam Apple and Pear Mixed. Pkt., 5c.; ¼ oz., 10c.

Begonias

1523 Finest Mixed—Our strain contains a great variety of colors, both in flowers and foliage. A superior assortment. Pkt., 10c.

1524 Vernon—An elegant variety, with bright orange-carminé flowers and very dark leaves. Start the seed early in the house or greenhouse. Pkt., 10c.

1520 Tuberous Rooted, Best Double Mixed—Prize strain. Pkt., 25c.

1521 Tuberous Rooted, Best Single Mixed—Prize strain. Pkt., 25c.

1522 Begonia Rex (Ornamental-leaved Varieties)—A collection of house plants without some of these elegant pot plants seems incomplete. The leathery leaves are bronze, red, silver and gold. Finest sorts. Pkt., 25c.

Balloon Vine

"Love in a Puff"

1496—Rapid growing, pretty annual climber; delights in a light soil and warm situation; produces white flowers, followed by seed vessels that look like small balloons; makes a fine porch screen. 10 feet. Pkt., 5c.; oz., 20c.

Bachelor's Button—See Centaurea, page 79.

Double Balsams

1500 Livingston's Premium Balsams, **Finest Mixed**—Our strain is unsurpassed. The large double flowers are as fine as the most elegant Camellia. The size, fine form, varied and brilliant colors of our Premium Balsams are greatly admired. Pkt., 10c.; ¼ oz., 40c.

1502 **Camellia-Flowered White**—A superb variety. The flowers are extremely large, full centered, with reflex petals, pure snow-white. The most elegant of all Balsams. Pkt., 5c.; ¼ oz., 25c.; oz., 75c.

1504 **Double Camellia-Flowered Finest Mixed**—A very choice assortment of all the best varieties and colors in these favorite Balsams. Pkt., 5c.; ¼ oz., 20c.; ½ oz., 35c.

1507 **Double Lavender**; 1509 **Double Bright Scarlet**; 1511 **Double Dark Blood Red**; 1513 **Double Peach Blossom**; 1514 **Double Red Spotted White**. Each of above separate colors, pkt., 5c.; oz., 60c. **Collection Double Balsams**, 6 separate colors, 25c. 1515 **Double Mixed Balsams**, pkt., 5c.; ½ oz., 30c.; oz., 50c.

Campanula (Canterbury Bells)

This old-fashioned flower is a favorite with all. Stately and showy, and of the easiest growth. Hardy biennials.

1560 **Livingston's Prize Mixture**—An elegant mixture of all the finest classes and colors of single and double and "Cup and Saucer" varieties. Pkt., 10c.; 2 pkts., 15c.



Canterbury Bells. Pkt., 5c.



Double Balsams

1561 **Calycanthema "Cup and Saucer"**—Our mixture includes all the best colors and varieties. Pkt., 5c.

1563 **Finest Double Mixed**. Pkt., 5c. 1564 **Finest Single Mixed**. Pkt., 5c.

1566 **Pyramidalis**—The Chimney Bell-flower, a hardy perennial flowering in late Summer. Finest mixed. Height, 3½ feet. Pkt., 10c. 1568 **Carpatica**—Beautiful free-flowering, hardy perennial; fine for groups and edgings. Blue and White, mixed. 9 inches. Pkt., 5c.

Calliopsis, or Coreopsis

One of the easiest grown annual flowers; can be used with fine effect anywhere—in beds, borders or masses. Blooms all the time. Sow the seed thinly when weather becomes warm and soil dry. 1 to 2 feet.

1530 **Hybrida Superba**—Very showy new hybrids in great variety of color, varying from pale yellow to rich orange and velvety brown. 1 foot high. Pkt., 10c.; ¼ oz., 25c.

1532 **Golden Wave (Drummondii)**—Bushy, compact plants covered with very large bright golden-yellow flowers with brown centers. Pkt., 5c.; ¼ oz., 10c.

1534 **Coronata**—Showy, large, pure yellow flowers. Pkt., 5c.; ½ oz., 15c.

1536 **Mixed Tall Sorts**—All choice sorts. Pkt., 5c.; oz., 20c.

1537 **Mixed Dwarf Sorts**—For bedding. Pkt., 5c.; oz., 25c.

1539 **California Sunbeams (Grandiflora)**—An improved large-flowering strain. Fine light-yellow and brown blooms. Pkt., 5c.

1540 **Lanceolata Grandiflora (Harvest Moon)**—One of the grandest perennial plants. Fine in masses, or as cut flowers. The individual blooms are very large and of the richest golden yellow. Pkt., 10c.; ¼ oz., 20c.; oz., 60c.

Canary Bird Vine 1543—Easy-growing, free-blooming annual climber for house or garden. Bright yellow flowers resembling a canary bird with extended wings. 10 feet. Pkt., 5c.; ½ oz., 15c.

Calendula (Pot Marigold)

One of the easiest grown, most showy and free flowering, hardy annuals, producing a fine effect in beds of mixed borders; blooms all the time; fine for cut flowers. 1½ feet.

1529 **Fine Double Mixed**—Contains the choicest sorts. Pkt., 5c.; oz., 20c.

Cannas

Cannas seem to be especially adapted to the American climate, as they do well everywhere. They grow nicely from seed, and will bloom the first Summer if started early. It is hard to describe the elegance of a fine bed of Cannas. Soak the seeds in warm water until they begin to swell; then sow them in a box in a sunny window or in the greenhouse. When up to the second leaf, transplant singly into pots and set out in the garden when the weather has become warm and settled.

1580 **Large-Flowering French Hybrid Cannas, Mixed**—Early flowering, and remarkable for large size and beauty of flower and foliage. This collection contains all that is best in Cannas. Pkt., 5c.; oz., 25c.

1582 **Dark Leaved Cannas**—This mixture contains the very choicest varieties we grow in the dark-leaved Cannas. Pkt., 5c.; oz., 20c.

Canna Plants—See page 103.



Candytuft (Iberis)

Candytuft is among the most highly prized of Summer flowers, and no garden is complete without a large quantity of it. Grows easily and blooms all the time until frost. Splendid for cut-flowers. Hardy annuals. 1 foot.

1547 Rose Cardinal—Very large umbel of bright rose-cardinal flowers, so prolific that a bed presents an unbroken sheet of bloom. Height 8 inches. Pkt., 10c.; ½ oz., 40c.

1550 Empress, or Giant Hyacinth-Flowered—An improved strain, producing immense trusses of pure white bloom, frequently measuring 4 inches in length by 2 inches through. Fine for bedding and cutting. Height 1 foot. Pkt., 10c.; ¼ oz., 15c.; ½ oz., 25c.; oz., 40c.

1545 Large-Flowering Dwarf, Mixed—Pkt., 10c.; ½ oz., 35c.

1546 Large-Flowering Dwarf, White—Pkt., 10c.; ½ oz., 35c.

1551 White Rocket—Compact spikes. Pkt., 5c.; oz., 15c.

1553 Odorata—Pure white; most fragrant. Pkt., 5c.; oz., 20c.

1554 Candytuft, Mixed Annual Sorts—Our mixture contains all the best varieties and colors. Pkt., 5c.; oz., 15c.

1556 Gibraltarica—A dwarf evergreen plant flowering in early Spring and Summer. Much used for rockeries, edging or in the foreground of perennial borders. A fine little plant worthy of more general cultivation. Lilac, shading to white. Pkt., 10c.

1557 Sempervirens—Similar to the above except pure white. Pkt., 10c.; ¼ oz., 25c.



Giant Marguerite Carnations.

frosts. Our strains are semi-dwarf and strong growers. 1 foot high. Our mixture is splendid. Pkt., 10c.

1587 Marguerite Double White—Pure white, large flowers; stiff stalks. Pkt., 10c.

1588 Marguerite Double Yellow—Pkt., 15c.

1585 Livingston's "Peerless" Carnation Mixture—All bloom the first Summer. A very choice mixture including all superb sorts. Pkt. (about 75 seeds), 15c.

1590 Chabaud's New Giant Perpetual—Comes into bloom in a little over 4 months from seed; extra large size; fine range of colors; is very sweet-scented. Mixed colors. Pkt. 10c.

1594 Red Grenadin—For yielding a quantity of double red flowers, no outdoor Carnation can equal it. Pkt., 10c.

Celosia, or Cockscomb

Very attractive annuals. The crested heads of flowers resemble a cock's comb. The plumed heads are like great feathers. Sow the seed directly in the garden or start early and transplant. Make fine pot plants.

Ostrich Plume Sorts

Very graceful. Handsome, pyramidal plants 3 feet high. Each branch gracefully tipped with brilliantly colored plume resembling an ostrich feather. (See illustration.)

1600 Thompsoni Magnifica—Mammoth blossoms of vivid scarlet; purple, blood-red, golden yellow, salmon, etc. 2 feet. Mixed colors. Pkt., 10c.; ¼ oz., 25c.

1602 Gold Plume—Golden yellow. Pkt., 5c.

1604 Fire Plume—Fiery scarlet. Pkt., 5c.

Collection, the 3 new Ostrich Plume Celosias, listed above, 15c.

Comb Varieties

1608 Queen of the Dwarfs—Grows only about 8 inches high. Immense combs of perfect form; brilliant dark rose. Pkt., 10c.

1609 Glasgow Prize—Large and very showy dark crimson combs. 9 inches. Pkt., 10c.; ½ oz., 30c.

1610 Empress—Combs of colossal proportions; rich crimson. Pkt., 10c.; ¼ oz., 50c.

1611 Finest Dwarf Mixed—A choice mixture of all sorts and colors. Pkt., 5c.; ¼ oz., 25c.

Choice Carnations

Seeds may be sown under glass in the Spring, or in open ground, but must be protected in the Winter. Half hardy.

1586 Giant Marguerite—The flowers enormous; the colors most varied and brilliant, and they come into full bloom in four months from sowing, and continue until hard

1591 Carnation, Giant of Nice—Blooms in four to five months from date of sowing the seed. The flowers are very large; colors varied; very free flowering. Pkt., 20c.

1592 Fine Double Mixed. Pkt., 10c.

Mrs. Alice M. Woolverton, Saint Joseph County, Ind., writes, May 8th, 1916: "The Vegetable and Flower seed came O. K., and part of them planted. Thank you for the extras and promptness in sending them."

Mr. T. B. Bowman, Columbiana County, Ohio, writes March 16th, 1916: "I have been planting your seeds for more than twenty-five years and think they are the very best that I can get."



Candytuft



Celosia, Ostrich Plume

Centaureas

The various varieties of this popular annual include such favorites as the Bachelor's Buttons or Corn-Flowers, and Sweet Sultans, old-fashioned flowers of easiest culture. 2 feet.

1616 Bachelor's Buttons (Centaurea Cyanus)—Our strain is especially fine. The true old-fashioned Bachelor's Buttons of your grandmother's garden. Also called Blue Bottle, Ragged Sailor, Korn Blume, etc. Mixed colors. Pkt., 5c.; ½ oz., 10c.; oz., 15c.

1617 Emperor William—Rich, deep blue Bachelor's Button. Pkt., 5c.; ½ oz., 10c.

1618 Double Varieties—A comparatively new strain; about three-quarters of the flowers come double; many choice colors. Pkt., 5c.; ½ oz., 15c.

GIANT-FLOWERING SWEET SULTANS (Centaurea Imperialis)

The blooms are borne on long stems. Of the easiest growth; very showy in the garden all Summer long. (See illustration.)

1620 Giant Mixed Colors—An elegant assortment of colors. Pkt., 5c.; ¼ oz., 25c.; oz., 75c.

1621 Giant White—Splendid for bouquets. Pkt., 5c.; ¼ oz., 25c.

1622 Giant Odorata—Light blue; very large. Pkt., 5c.

1623 Giant Suaveolens—The popular yellow. Pkt., 5c.

1627 Livingston's Choice Mixed Centaureas—A grand mixture of all the above Bachelor Buttons and Giant Sweet Sultans. Pkt., 5c.; ¼ oz., 25c.; oz., 75c.

WHITE-LEAVED CENTAUREAS (Dusty Millers)

Silver-foliage plants; extensively used for edgings, hanging baskets, etc.

1629 Candidissima—Very thick, broadly cut, slippery white leaves. 1 foot high. Pkt., 10c.

1628 Gymnocarpa—Leaves fern-like; silvery gray color. Fine for borders. 1½ feet. Pkt., 5c.

Chrysanthemums

The annual sorts bloom throughout the Summer, while the perennial varieties are gorgeous in the garden every Fall. The plants grow from 1 to 3 feet in height.

SEEDS OF ANNUAL VARIETIES

1632 Double White—Pkt., 5c. **1633 Double Golden Yellow**—Pkt., 5c.

1634 Double Sorts Mixed—All the most desirable colors. Pkt., 5c.; ¼ oz., 15c.

1635 Livingston's Choice Mixed Chrysanthemums, Single and Double Sorts—Very desirable for the Summer garden; showy; free-flowering. Pkt., 5c.; ¼ oz., 15c.; ½ oz., 25c.

1654 Tricolor "Northern Star"—Fine hardy annual, with large daisy-like flowers produced freely on long stems. Pkt., 10c.

SEEDS OF PERENNIAL VARIETIES

1641 Japanese Hybrids—The best double-flowering varieties. Pkt., 15c.

1642 Frutescens (Marguerite, or Paris Daisy)—Large, single white flowers. Pkt., 5c.

1643 Maximum (Triumph Daisy)—Large, single, pure white, yellow center. Pkt., 10c.

2433 Shasta Daisy—Pkt., 10c. For description, see page 111.

1644 Chrysanthemum Inodorum (Bridal Robe)—New; pure white; extra fine. Pkt., 10c.



Centaurea Imperialis—Giant-Flowering Sweet Sultan

Cineraria

A favorite free-flowering greenhouse plant, with flowers of great richness and diversity of colors. Cinerarias bloom during the Winter and Spring months and can be planted out in Summer. The plants thrive best in a mixture of loam, leaf-mould and sand.

1648 Livingston's Prize Mixture—Contains only the richest and most beautiful colors; large. Pkt., 25c.

1650 Cineraria Maritima (Dusty Miller)—Silvery white foliage; for edgings, ribbon beds, hanging baskets, etc. 1 foot. Perennial, but usually grown as an annual. Pkt., 5c.; oz., 40c.

Cobaea Scandens

A fine annual climber, often growing 15 to 25 feet in a season. Has handsome foliage and large bell-shaped flowers of a beautiful deep violet-blue. **1658**—Pkt., 5c.

Cyclamen

These elegant greenhouse plants have the most beautiful foliage and the richest colored flowers. Seed may be sown in the Spring and Autumn. For large size blooms, substance and brilliant colors, our strains are unsurpassed.

1683 Livingston's Superb Mixture—Is our best strain; obtained by a continued selection of the choicest varieties of Cyclamen Persicum. The individual flowers are enormous in size; plants are profuse bloomers. The colors are rich and varied. (See illustration.) Pkt., 25c.

1684 Cyclamen Persicum, Finest Mixed—A choice assortment of varieties and colors. Pkt., 10c.

Coleus

Beautiful foliage plants, both for greenhouses and bedding out in the garden. The striking colors and brilliant variegated leaves are much admired.

1663 Fine Mixed Hybrids—Mixed seed from a very fine collection. Pkt., 10c.

Cypress Vine

Ipomoea Quamoclit—This is a beautiful, rapidly growing annual climber, with delicate dark green finely cut fern-like foliage and masses of the most brilliant and graceful star-shaped flowers. The two shades, white and scarlet, are very striking. Planted by the side of a veranda, tree or stake, and trained properly, nothing is prettier.

1686 Pure White—Pkt., 5c.

1687 Bright Scarlet—Pkt., 5c.

1689 Finest Mixed—A mixture of Pure White and Bright Scarlet. Pkt., 5c.; ½ oz., 15c.

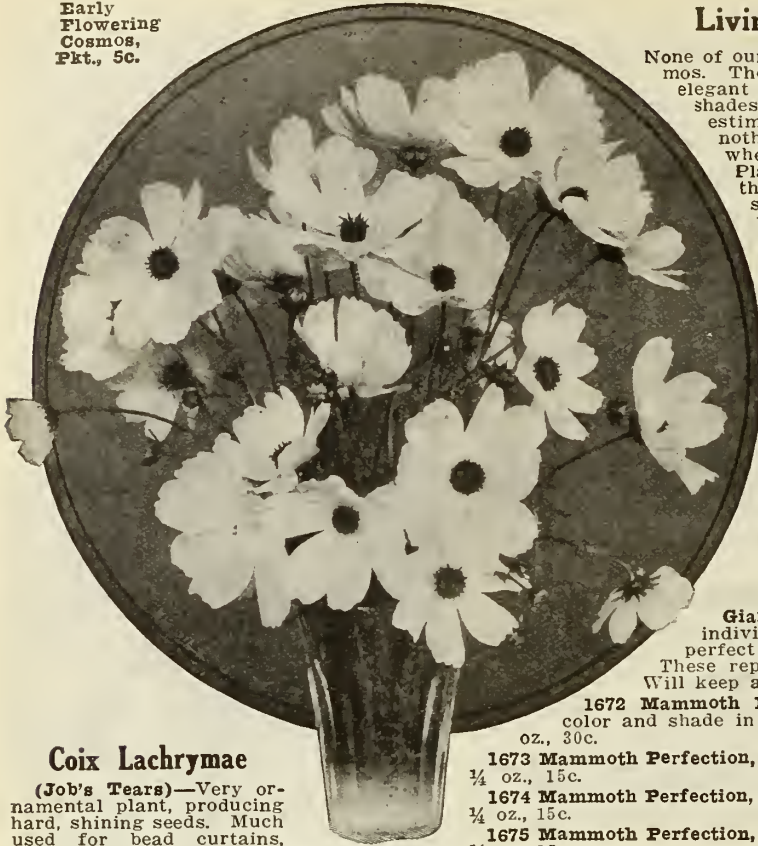
Miss May Miller, Fairfield Co., Ohio, writes: "The flowers from your mixed bedding Petunias and mixed Phlox seed last year were the most beautiful I ever saw."

E. L. Teal, Madison Co., Ind., writes, June 25, 1916: "I wish to acknowledge receipt of seeds with many thanks for promptness."



Livingston's Giant Cyclamen. Pkt., 25c.

Early
Flowering
Cosmos,
Pkt., 5c.



Coix Lachrymae

(Job's Tears)—Very ornamental plant, producing hard, shining seeds. Much used for bead curtains, raffia work, etc. 1660—Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Dahlias from Seed

Dahlias are easily grown from seed and bloom the first season. The earlier they are started the better, which can be done nicely in a box in a sunny window or the greenhouse. Some specimens grown from seed are fully equal to many of the named sorts, and there is always the chance of getting some entirely new varieties. The Single Dahlias are being planted more extensively every year; they are quick and profuse bloomers, and their colors are especially rich and brilliant.

Dahlia Bulbs. See page 105.

Seeds from Single Dahlias

1693 **Twentieth Century or Orchid-Flowered**—A truly exquisite single Dahlia. Has created a sensation everywhere. Individual flowers are 5 to 8 inches across. Innumerable colors, that have the sheen of velvet. We cannot describe their elegance. Pkt., 10c.

1695 **Large-Flowering Single Mixed**—Splendid assortment of single-flowering varieties. Pkt., 5c.

Seeds of Double Dahlias

1698 **Large-Flowering Choicest Double Mixed**—This elegant assortment of seed is saved from round, double flowers; many beautiful colors. Pkt., 10c.

1702 **Cactus Varieties, Choicest Mixed**—Most popular at the present time; distinct and elegant; petals pointed; blooms perfectly double. Pkt., 10c.

1705 **Livingston's Superb Dahlia Mixture**—This splendid assortment embraces every variety of Dahlias, both single and double, described on this page, as well as many other fine sorts. Will make an elegant bed at small cost. Pkt., 15c.

Mrs. H. C. Hartwell, Worcester Co., Mass., writes: "Your Foxgloves and Pinks got first prize at our flower contest, blossoms from seed sown last Spring, so there are several people very anxious for your catalogue, to buy perennial seeds for next Summer's show."

Livingston's Mammoth Cosmos

None of our Autumn flowers are more prized than the Cosmos. The thrifty plants produce thousands of the most elegant blossoms, in pure white, pink, and crimson shades. As a decorative garden plant its value is inestimable, while as cut flowers for home decoration nothing is finer, especially as Cosmos are in bloom when other outdoor flowers are getting scarce. Plant the seed directly in the garden as soon as the settled Spring weather comes, or you may start the plants early in a box in the house, and transplant them. In the garden set the plants 1 foot to 18 inches apart. One of our most desirable and easy-growing annuals. 5 to 6 feet.

Early Summer-Flowering Cosmos

1668 **Dwarf Early-Flowering "Dawn"**—Coming into flower in July, continuing until frost. Can be grown in the North where the seasons are too short for other strains. Dwarf, compact growth—4 feet. Flower beautiful and large; petals broad, pure white, flushed with a delicate tinge of rose; profuse bloomer. Pkt., 5c.; ¼ oz., 15c.; ½ oz., 25c.

Dwarf Early-Flowering Mixed

1669 **Mixed**—Identical with above, but contains all elegant colors known in Cosmos. Pkt., 5c.; ¼ oz., 15c.; ½ oz., 25c.

Mammoth Perfection Cosmos

Giants of California—A magnificent strain. The individual flowers are of enormous size and the most perfect form, while the colors are richly brilliant. These represent the highest developed types in Cosmos. Will keep a week in water after being cut.

1672 **Mammoth Perfection, Mixed**—A superb mixture of every color and shade in these splendid Cosmos. Pkt., 5c.; ¼ oz., 10c.; oz., 30c.

1673 **Mammoth Perfection, Pure White**—A splendid large flower. Pkt., 5c.; ¼ oz., 15c.

1674 **Mammoth Perfection, Light Pink**—Blooms are truly superb. Pkt., 5c.; ¼ oz., 15c.

1675 **Mammoth Perfection, Crimson**—A rich and brilliant shade. Pkt., 5c.; ¼ oz., 15c.

New Gigantic Orchid-Flowered Cosmos

1680 Lady Lenox

This gigantic Cosmos is the forerunner of an entirely new race of Cosmos. It is of extraordinary size and beauty. Visitors to the floral exhibitions last Autumn were enraptured with its size and magnificent color. Flower 4 to 5 inches in diameter. Color a delightful shell pink, lighting up beautifully at night. 6 to 7 feet high. Splendid variety. Pkt., 10c.; 3 for 25c.; ¼ oz., 40c.



Double Dahlia

Giant Double Daisies (Bellis Perennis)



Giant Double Daisies

A charming little plant for pots, edgings and borders. (See illustration.) Sow the seeds very early and plants will bloom the first season and continue to bloom each season if given some protection during Winter. They do best in a rich soil and quite cool situation. Especially desirable for cemetery decoration. Perennial.

Height about 6 inches.

1710 Giant Longfellow—A very desirable double sort; dark pink; flowers very large. Pkt., 10c.

1711 Giant Snowball—A large and very double pure white variety. The flowers make fine cut flowers, as the stems are long. Pkt., 10c.

1712 Giant Mixed Daisies—This assortment includes the Giant Longfellow, Giant Snowball and Giant Red, as well as many other finest sorts. Pkt., 10c.

1713 Double White—A very fine white variety. Pkt., 5c.

1714 Double Rose—Clear rose pink. Pkt., 5c.

1715 Fine Double Mixed—A very choice mixture. Pkt., 5c.



Foxglove (Digitalis)

Delphinium

Hardy Perennial Larkspur—One of our most brilliant and effective hardy garden plants. Of late years the size and colors of the flowers have been wonderfully improved. Persistent bloomers, even in the driest seasons, 2 to 4 feet.

1726 New Giant Flowering Hybrids—These magnificent hybrids, the grandest of Delphiniums in existence, produce splendid spikes of immense flowers, semi-double and double. Flower spikes are from 2 to 5 feet in length. The colors are very beautiful, ranging from pure white through all the shades of lavender and blue. Mixed colors. Pkt., 20c.

1732 Formosum—Elegant spikes of the richest dark-blue flowers, with a white center; especially fine for cutting. Four feet. Pkt., 5c.

1732 Formosum Coelestrinum—Light sky-blue flowers, with darker centers; a very fine variety. 4 feet. Pkt., 10c.

1735 Zali—The splendid spikes of bloom are a lovely shade of sulphur-yellow. 4 feet. Pkt., 10c.

Annual Delphiniums. See Larkspur, page

Mrs. Mary A. Love, Buchanan Co., Iowa, writes: "I have planted your seed ever since 1875. They are so reliable, I am afraid to use others. You sent me two catalogues. I gave them to my neighbors. I know they will send to you for seeds."

J. J. Anderson, of Lake Co., Ohio, writes: "It is a pleasure to me to state that during my several years' dealing with you I have had no cause to complain as to your stock or your prompt and courteous manner of doing business."



Delphinium

Digitalis (Foxglove, or Witches Fingers)

The Foxglove, in common with all the hardy perennials, is being planted more extensively each season. The large tube-like flowers, which are produced so freely in beautiful spikes, add much to our hardy beds and borders. Being of

the easiest growth, and doing finely in partially shaded situations, they fill in many gaps most advantageously. 3 feet.

1782 Gloxiniaeflora—A beautiful class, with spotted flowers. We offer a mixture of the finest varieties. Pkt., 5c.; ¼ oz., 20c.

1784 Grandiflora—A variety that grows about 2 feet in height. A very fine yellow in color. Pkt., 5c.; ¼ oz., 20c.

1786 Monstrosa (Mammoth Foxglove)—A grand strain. The top flowers of the spikes are of enormous size. Our assortment of colors is very fine. Splendid mixed. Pkt., 5c.; ¼ oz., 30c.

1788 Purpurea, Finest Mixed—This is the common Foxgloves so generally known. Contains many fine varieties. Pkt., 5c.; ¼ oz., 15c.

Datura (Trumpet Flower)

Very attractive, bushy plants of easy growth, that during the whole season are covered with elegant, fragrant, trumpet-shaped flowers. Hardy annual. 3 feet.

1720 Cornucopia (Horn of Plenty)—A magnificent variety. The blooms average 8 inches long by 5 inches across; the color is white inside, while the outside is most beautifully marbled with royal purple. Pkt., 5c.; ¼ oz., 20c.

1722 Finest Double Mixed—A very choice assortment of all the best colors and varieties of this effective annual. Pkt., 5c.



Double Annual Pinks

1740 New Giant Fringed and Ruffled Pinks, Double Marvellous or Japanese Fringed Pinks (Mirabilis Fl. Pl.)—This remarkable and perfectly distinct new strain produces large, perfectly double flowers on stiff, upright stems. The petals are deeply cut into fine strips of thread-like fringes for about half their length, and are twisted in all directions, presenting a novel aspect. In color, they vary greatly, having all shades from pure white to deep purplish-red. Pkt., 15c.; 2 pkts., 25c.

1744 Laciniatus (Double Fringed Pinks)—Magnificent flowers; very large; double. Mixed colors; striped and fringed edges. Pkt., 5c.; ¼ oz., 25c.

1746 Heddewigi (Double Japan Pink)—Flowers very large; perfectly double; many elegant colors and shades, from delicate rose to richest crimson. Pkt., 5c.; ¼ oz., 20c.

1752 Imperialis (Double Imperial Pink)—Charming varieties of these popular pinks. Our mixture includes a great number of colors. Pkt., 5c.

1754 Snowball—Double white, fringed flowers; fine variety. Pkt., 5c.

1756 Fireball—A brilliant dark scarlet; plants grow dwarf and bushy; is very fine for bedding or cut flowers. Pkt., 5c.; ¼ oz., 25c.

1758 Chinensis (China or India Pink)—Our mixture includes all best colors and shades. Pkt., 5c.; ¼ oz., 15c.; oz., 50c.

1760 Livingston's Mixture of Double Pinks—A splendid combination of all the best varieties. Pkt., 5c.; ¼ oz., 25c.

Dolichos

(Hyacinth Bean)

A splendid annual climber, with hyacinth-like clusters of purple and white flowers, which are followed by exceedingly ornamental seed pods. Is of most rapid growth and stands Summer heat well. Sow the seeds in the garden in May where the plants are to remain.

1796 New White Bush Dolichos—Strong, healthy plants, 18-30 inches tall, according to soil, carry an abundance of elegant flower spikes, 12 to 16 inches long, well above the foliage. Individual flowers measure about an inch across and resemble a pea flower. As the lowest flowers on stalks drop off, they are followed by ornamental creamy-white seed pods. Bush Dolichos succeed anywhere, are highly ornamental planted singly or in rows and bloom continuously from middle of July until frost. Pkt., 10c.

1790 "Daylight"—A splendid variety from Japan. Large snow-white Wistaria-like racemes, that are most fragrant, followed by attractive silver-white seed pods. A very showy and rapid-growing sort. Pkt., 5c.; ½ oz., 15c.

1792 Purple Soudan—A most decorative climber. The twining stems are of the most intense purple, while the beautiful spikes of bloom are of the richest shade of brilliant rose. Pkt., 5c.; ½ oz., 10c.

1794 Finest Mixed—Very choice mixture of all the best climbing varieties. Pkt., 5c.; ½ oz., 10c.; oz., 15c.; ¼ lb., 50c.

"True Blue" Flower Seeds

give uniformly best satisfaction. We test hundreds of varieties every year in our trial grounds, and know that you cannot buy better flower seeds, no matter where you buy or what you pay.

Dianthus or Pinks

(New and Choice Varieties)

This elegant family contains many of the most valuable and popular flowers in cultivation. All the sorts classed as annuals may be sown directly in the garden as soon as danger from frost is past, and will in a short time become a mass of bloom, and so remain all Summer. Elegant as cut flowers for bouquets, as the stems are good. Grow about 1 foot high, and are of easiest culture.

Hardy Garden or Clove Pinks

This splendid class of hardy perennial Pinks should be in all gardens. They have the delightful clove fragrance.

1778 New Double Large-Flowering Grass, or Spice Pinks (Plumarius semperflorens, Fl. Pl.)—One foot high. The flowers, which are beautifully fringed, are much larger and more double than the old varieties, while the colors are far richer, including a large variety of colors and markings not known to the old-fashioned Pinks. Many are exquisitely spotted and splashed. They emit a delightful, sweet-scented, spicy odor. Perfectly hardy, requiring only the ordinary culture of the Pinks. They increase in size and beauty every year. Bloom profusely during the Spring and early Summer. Pkt., 25c.

1772 New Single Large-Flowering Grass, or Spice Pink, Mixed—Same as above, only single. Pkt., 5c.

1773 Plumarius (Pheasant's Eye Pink)—A single hardy Pink; fringed edge, white flowers with dark centers. Pkt., 5c.

1774 Double Clove Pink (Plumarius flore pleno)—Double and semi-double varieties. Many colors; of strong clove fragrance. Pkt., 10c.

1776 Cyclops Hybrids—Superb, double-flowering red and scarlet varieties; very fragrant. Pkt., 5c.

1777 Livingston's Mixture of Hardy Garden Pinks—A magnificent strain of hardy garden pinks containing all the sorts described on this page and many new varieties not listed by us. Choicest single and double sorts of bright and brilliant colors make this mixture one of the most desirable for the hardy garden. Pkt., 10c.; 3 pkts., 25c.; ½ oz., 50c.

Dimorphotheca Aurentiaca

1718 Golden Orange Daisy—One of the newer annuals from South Africa. Grows 10-12 inches high, with pretty daisy-like flowers. Orange-yellow. Pkt., 10c.

Try our Rainbow Collection of Giant Nasturtiums, 7 large pkts. for 25c. See page 89.



African Golden-Orange Daisy



California Poppies

Eschscholtzia

(California Poppies)

Most attractive annuals of the easiest culture, their flowers being very bright and showy. They are splendid for bedding, massing or ribbon-work. The plants grow bushy and about one foot high. They are favorites everywhere. Bloom profusely from Spring sown seed. (See illustration.)

1804 "The Golden West"—Early and continuous bloomer. Magnificent flowers of gigantic size. Color intense shining yellow and orange. The state flower of California. Pkt., 5c.; $\frac{1}{4}$ oz., 15c.

1806 Finest Double Mixed—A splendid assortment of colors. Pkt., 5c.; $\frac{1}{4}$ oz., 15c.; oz., 50c.

1808 Finest Single Mixed—All the best varieties. Pkt., 5c.; oz., 25c.

1811 Bush Eschscholtzia (Hunnemannia)—A fine new perennial plant; forms a bushy shrub 2 feet high, producing large cup-shaped flowers on stems 12 inches long; of clear jonquil yellow and vivid bright orange stamens. Begins to bloom in July from Spring-sown seed. Pkt., 5c.



Fuchsias

Echeveria (Hen and Chickens)

These plants are easily grown from seeds. Our mixture contains a great variety, both in shapes and colorings.

1797 Mixed—Pkt., 10c.

Erigeron Speciosa

1770—Hardy perennial, bearing pretty blue flowers for a long period. Grows about two feet high. Useful in hardy border. Pkt., 10c.

Feverfew (Matricaria)

1824—Free-flowering annuals about one foot high; very compact and bushy. Splendid for beds and borders; also fine as cut flowers or for pots. The double, white blooms are very useful in bouquets. Pkt., 10c.

Fuchsias

(Lady's Eardrops)

These well-known plants will flower the first season from seed, if started early. As house plants for Winter they are always general favorites. The seed we offer is saved from a fine collection of double and single sorts.

1826 Best Sorts Mixed—Pkt., 15c.

Four O'Clock—Marvel of Peru. Page 86.

Forget-Me-Not—See Myosotis, page 89.

Gaillardia (Blanket Flower)

There are Annual and Perennial Gaillardias. The Annual sorts bloom all Summer and Autumn, and are noted for the profusion, size and brilliancy of their flowers; excellent for beds and borders. The Perennial varieties are grand and wonderfully effective in the hardy borders, their especial value being constant blooming from July until hard freezing weather. They require no Winter protection, although applications of manure increase their strength. If the seed is sown early they will begin flowering at mid-Summer. Both classes are splendid as cut flowers. They are of the easiest culture, doing finely anywhere. Height 2 feet.

1830 Finest Single Annual Mixed—A very fine assortment of many brilliant colors. Pkt., 5c.

1832 Finest Double Annual Mixed (Lorenziana)—All the best double-flowering varieties in richest mixture. They bloom freely all the season. Splendid for bouquets. Pkt., 5c.

1834 Grandiflora Hybrids, Finest Mixed—One of the most elegant perennials; is in continuous bloom from June until frost. The enormous flowers are a magnificent combination of red and yellow. Splendid to cut for vases. Pkt., 5c.

1836 Grandiflora Compacta—A compact growing variety similar in bloom to the Grandiflora Hybrids, but only grows about 15 inches high. Its flowers are of the richest colors, and the stems are long. A very fine variety. Pkt., 5c.



Gaillardia Grandiflora

"True Blue" Seeds



are steadily gaining in popular favor because: We fill the orders promptly! The seeds we send grow and please the customers. We treat our customers courteously and help with suggestions, leaflets, etc., to make their work a success. Our flower seeds are from the very best growers and we are sure will give you the very best results. Please do not overlook our Giant Nasturtium Collection on p. 89. Also our Sweet Pea Collections on pp. 97-98.





A Partial View of Our Flower Seed Trials

Gourds

- 1862 Bath-Sponge, or Dish Cloth**—A most admirable natural dish cloth is furnished by the peculiar sponge-like lining of this fruit. Pkt., 5c.; $\frac{1}{2}$ oz., 20c.; oz., 35c.
- 1865 Dipper**—Used for dippers; 9 to 12 inches long; hold from 1 to 4 pints; will last for years. Pkt., 5c.; oz., 20c.
- 1867 Hercules' Club**—Longest of all; white. Pkt., 5c.
- 1868 Japanese Nest Egg**—Exactly like a hen's egg in shape, color and size. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.
- 1871 Snake, or Serpent**—Has long fruits, sometimes 5 feet, and striped like a serpent. Pkt., 10c.; 3 pkts., 25c.
- 1872 Sugar Trough**—Holds 4 to 10 gallons; hard, thick shells; very light, strong and durable. Pkt., 5c.; oz., 15c.
- 1860 Gourd Mixture**—Contains all of the above mentioned sorts. Pkt., 5c.; oz., 20c.

Gypsophila Paniculata (Baby's Breath)

An elegant hardy perennial plant that should be in every garden. It is not only pretty in beds, but its delicate little flowers, produced in feathery white panicles, and branching foliage lend a daintiness to bouquets that is most elegant. Its sprays are much used in making up bouquets of Sweet Peas. **1878**—Pkt., 5c.

Godetia (Satin Flower)

An attractive and very beautiful hardy annual. In full bloom all Summer, so profuse that the foliage is almost hidden by the large wide-open flowers; of shining satiny texture and the most delicate and brilliant colors. Our mixture contains all the best varieties. **1854 Mixed**—Pkt., 5c.

Hibiscus (Marshmallow)

Tall growing; especially adapted to backgrounds and shrubby borders. Of easiest culture, and bloom the entire season. Plants grow 4 to 5 feet tall.

- 1890 Africanus**—A very choice annual variety. Flowers yellow, with maroon center. Pkt., 5c.
- 1892 Crimson Eye**—The beautiful white flowers, with deep crimson centers, are of immense size, often 6 to 7 inches in diameter. Perfectly hardy. Pkt., 5c.
- 1894 Mallow Marvels**—A robust type of upright habit, producing an abundance of flowers of enormous size in all the richest shades of crimson, pink and white. **Mixed** colors. Pkt., 10c.

Heliotrope

Easily raised from seeds. Spring planting giving fine Summer blooming plants. As a bouquet flower always a favorite.

- 1880 Lemoine's Giant Hybrids**—Grand flowers, double the size of the older sorts. Bushes compact, about 18 inches high; heads of mammoth blossoms often measure a foot across. Deliciously fragrant. Seed sown in the Spring will produce flowering plants by July, which continue in flower until frost. Mixed, including purple, white, lavender and blue. Pkt., 10c.
- 1882 Dark Varieties Mixed**—All best dark blue and lavender shades in mixture. Pkt., 5c.
- 1884 All Sorts Mixed**—In best assortment; all shades, both light and dark. A very desirable strain. Pkt., 5c.
- Hardy Garden Heliotrope**—See Valeriana.

Geraniums

These popular plants are most easily raised from seed, and if started early will produce flowering plants the first Summer. Start in the house and transplant to the garden as soon as the weather is warm. You will find that the varieties we offer are of very superior quality.

- 1842 Finest Mixed**—Pkt., 10c.
- 1843 Large-Flowering Double Varieties**—Splendid strain; seed is saved from the finest double sorts. Pkt., 25c.
- 1844 Variegated-Leaved Sorts**—Bronze, gold, silver and tri-colored foliated varieties. Elegant collection. Pkt., 15c.
- 1845 Lady Washington**—These are the well-known rich-colored showy Pelargoniums. Our mixture includes all the best varieties. Pkt., 20c.
- 1846 Apple-Scented**—The old-fashioned favorite apple-scented Geranium. Pkt., 10c.

Helichrysum (Straw Flower)

A hardy annual of the easiest culture; one of our best "Everlasting" flowers, the dried double blooms being very handsome in Winter bouquets. 2 feet. **1888 Mixed**—Pkt., 5c.; $\frac{1}{4}$ oz., 20c.

Mr. Charles Adams, Fayette Co., Ind., writes: "The package of Lawn Seed and Flower Seed you mailed us arrived all O. K., and we feel that we now have seed that will make us successful."



Heliotrope. Pkt., 10c.

Hollyhocks

Hollyhocks require a rich soil, but it must be well drained. We give especial attention to this flower, and you will find our strains of seed of the finest quality. Once thoroughly established, they bloom stronger and more brilliantly every year. Seeds sown early, and the young plants transplanted several times, will bloom the same season; July and August sown seed, following year. 5 to 8 feet.

Livingston's Prize Hollyhocks

These are the largest flowering and most perfectly double Hollyhocks we have been able to procure after many years of selection of only the best varieties. The colors are rich and brilliant, the plants free from disease, as well as very robust and strong growers; in fact, we believe our strain to be unsurpassed in every respect. We offer several separate colors and our best mixture.

1896 Double Black. Pkt., 10c.	1900 Double Rose Pink. Pkt., 10c.
1897 Double Lemon Yellow. Pkt., 10c.	1901 Double Crimson. Pkt., 10c.
1898 Double White. Pkt., 10c.	1904 Double Scarlet. Pkt., 10c.
	1905 Double Salmon. Pkt., 10c.

Livingston's Prize Mixture

This is our best mixture. It is composed exclusively of the finest double-flowering varieties. It contains not only the above elegant colors, but also innumerable other shades. 1908—Pkt., 10c.; ¼ oz., 25c.

Mammoth Allegheny

Attractive variety. Its lovely arranged, fringed and transparent petals look as if they were made from the finest China silk. The individual flowers are enormous in size, and in color they range from the palest pink to deepest red. In form the flowers are double, semi-double and single. Plants are in full bloom from July until frost. 1910—Pkt., 10c.; ¼ oz., 30c.

New Annual Everblooming Hollyhocks

These glorious new hybrids may be grown from seeds and will flower the same year as quickly as any garden annual. The plants can be treated as annuals. The seeds may be started in the house, or in hot-beds, frames, etc., in March or April. Plants transplanted by the beginning of May in the open ground will commence to flower about end of July, ten days after Hollyhocks that have been treated as biennials. 1913 Mixed Annual Hollyhocks—Pkt., 10c.; ½ oz., 40c.

Ice Plant

(Mesembryanthemum)

A very pretty trailing annual that has fleshy, wax-like leaves, which have the appearance of being covered with ice crystals. Splendid for rock-work, vases or hanging baskets. Flowers are white. Start seed in the house. 1925—Pkt., 5c.

Kenilworth Ivy

1932 *Linaria Cymbalaria*—A hardy perennial trailing plant suitable for vases, etc. Adapted to shady locations. Easily grown from seed. Lovely little lavender and purple flowers and an exquisite foliage. Pkt., 10c.



Livingston's Prize Hollyhocks. Pkt., 10c.

Humulus

(Japanese Hop)

Splendid climber. Has handsome foliage, which resembles that of the Common Hop Vine. Never suffers from heat or attack of insects; easiest culture.

1920 *Japonicus*—Has bright green foliage. Pkt., 5c.

1922 *Silver-Leaf Japanese Hop*—Unusually beautiful variety of rapid-growing Summer climbing vine. Leaves deep green, beautifully striped and blotched with silvery white and gray. Will reach a height of 20 to 30 feet in three or four weeks' time. Pkt., 5c.; ½ oz., 15c.

Impatiens

(Zanzibar Balsam)

A very pretty plant, for house culture, and the garden as well. Its flowers are very rich colored. They are borne in great abundance, and the plants are continuous bloomers. Tender perennial. 2 feet. 1928—Pkt., 10c.

Holstii Hybrids

Very handsome Zanzibar Balsam discovered in Africa. It forms bushes 1½ to 2 feet high and resembles above, but surpasses it in its quicker and more vigorous growth, and its larger and brighter colored flowers. Seed sown indoors in Spring will form plants ready to set out in May. 1930—Mixed—Pkt., 15c.

Kudzu Vine

1936 *Pueraria Thunbergiana*—This wonderful climber is of Japanese origin and is the most luxuriant and rapid-growing vine known in horticulture. It will grow 8 to 10 feet the first year from seed, and after becoming established will produce vines 50 feet high in a season, sometimes growing 12 inches in a single day. Produces a tuberous root which is perfectly hardy everywhere. Foliage is very luxuriant, quickly forming a dense shade. Unequaled for porches, arbors, trellises, etc. Pkt., 10c.; 3 pkts., 25c.

Kochia Tricophylla

1934 *Summer Cypress, or Burning Bush*—This splendid annual plant grows very quickly from seed sown in the open ground as soon as the weather permits in Spring. The plants always make attractive globe-shaped bushes, as large sometimes as 3 feet high and 2 feet across in one season. Leaves slender and of a light peagreen color until September, when they turn to carmine and blood-red; at the same time the ends of the shoots are thickly set with small bright scarlet flowers, and produce a very striking effect. Pkt., 10c.; ¼ oz., 25c.

Kochia Tricophylla in our trial grounds. It makes a beautiful and symmetrical hedge.



Lantana

Popular, free-blooming and very rapid-growing plants with flower heads of various colors, which are continually changing; emit a powerful aromatic perfume, plants are completely loaded with blossoms, succeeded by berries, which, when ripe, turn deep blue. Used largely for bedding out in Summer and are also fine Winter-blooming plants. Start seeds in the house or hot-bed. Tender perennial. 1½ feet. 1938 Mixed—Pkt., 5c.; ½ oz., 20c.

Linum

Everybody has admired the common Flax with its beautiful blue flowers, but it is of no value in the garden. In **Linum Grandiflorum** we have an annual variety of Flax with large, brilliant scarlet flowers about three times the size of the regular Flax. **Linum Perenne** is a hardy perennial, an evergreen plant with the fine soft foliage and beautiful sky blue blossoms of our common Flax. 1939 **Linum Grandiflorum**—Pkt., 5c.; 1940 **Linum Perenne**—Pkt., 5c.

Larkspurs (Annual Delphinium)

1945 **Azure Fairy**—An annual variety of Larkspur and a most beautiful shade of blue. It grows about 12 inches high and is covered with flowers for a long period. It is very hardy and satisfactory in every way. Pkt., 15c.



1944 **Stock-Flowered Larkspur**—These tall-growing and branching Larkspurs produce the most brilliantly beautiful spikes of double flowers; continuously in bloom all Summer. All colors mixed. Pkt., 5c.

1947 **Dwarf Hyacinth-Flowered**—Resembles a Dutch Hyacinth in style of bloom. Our mixture includes a very fine range of colors and shades. Pkt., 5c.; ¼ oz., 10c.

1949 **Giant Hyacinth Flowered**—Tall, a superb class. The splendid flowers are very large, very double and of various beautiful colors, shadings and markings; long spikes of bloom like immense Hyacinths. Pkt., 10c.; ½ oz., 25c.

Lantana. Pkt., 5c.

1951 **Double Dwarf Rocket**—A most choice mixture of varieties, that grow about 1 foot in height. Pkt., 5c.; ½ oz., 15c.

1953—**Double Tall Rocket**—This well-known mixture embraces the very choicest colors in the taller growing sorts. Pkt., 5c.; ½ oz., 15c.

Perennial Larkspur—See **Delphinium**.

Lavender

Lavendula vera) **True Lavender**—Popular sweet-scented hardy perennial, fine for mixed border. 3 feet.

1957—Pkt., 5c.; ¼ oz., 15c.

Lobelia

Exceedingly pretty, profuse blooming plants of great value both in the garden and for hanging-baskets, window boxes and vases, especially prized for edgings of beds and borders. Plants grow about 6 inches high. They are treated as annuals and are of the easiest culture.

1958 **Crystal Palace Compacta**—Best dark blue sort for edgings and carpet bedding. Pkt., 10c.; ¼ oz., 50c.

1960 **Emperor William**—A brilliant, compact-growing light blue; a very fine variety. Pkt., 5c.

1962 **Gracilis**—Fine for hanging-baskets, vases and window boxes. Light blue, A trailing variety. Pkt., 5c.

1964 **Mixed Compacta Sorts**—A very fine mixture of all the best varieties for edgings and bedding. Pkt., 5c.

Marvel of Peru (Four O'clock or Mirabilis)

This old-fashioned favorite is one of our easiest grown annuals. The plants are bushy, about 2 feet high, and completely covered all Summer with large, showy, very fragrant blooms.

1995 **Variegated**—The brilliant flowers, in many colors, contrast finely with the golden-hued foliage. Pkt., 5c.; oz., 15c.

1997 **Finest Mixed**—An elegant assortment of these old-fashioned favorites. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.

Maurandya

Elegant twining, climbing plants, with handsome foliage and flowers. They bloom profusely all summer in the garden, and are also particularly adapted for the house and conservatory. 1999 **Blue, White and Mauve, Mixed**—Pkt., 10c.

Mimulus (Monkey Flowers)

Very showy and free-blooming plants, having brilliant and greatly varied blooms. Fine for pots, or in the garden. They do best in rather shaded, moist situations. 1 foot.

2018 **Tigrinus**—Striped and spotted varieties; very fine. Pkt., 10c.

2020 **Moschatus (Musk Plant)**—Fine for hanging baskets, etc. Small yellow flowers. The foliage has a strong odor of musk. Pkt., 5c.

Lychnis

Few plants produce as bright flowers and bloom as continuously as Lychnis. A hardy perennial, but flowers the first season from seed if same is sown early. 2 feet.

1971 **Finest Mixed Hybrids**—Plants are compact and bushy; colors include all the most brilliant shades, from pure white to deepest red. Pkt., 5c.



Livingston's Superb Marigolds

These old-fashioned favorites are annuals of the very easiest cultivation. Both the French and African classes are very effective; the former have the small, velvety flowers, in pretty combinations of yellow, brown, maroon and striped effects; the African sorts are the enormous flowered ones, in very showy orange and lemon shades. (See illustration.) Both kinds are most popular for beds and borders, and planted in large blocks are very attractive. They bloom profusely all Summer. Start the seed early in a box in the house, or plant directly in the garden when the weather is warm. Fine as cut-flowers. French sorts make nice pot plants.

African Marigolds

1974 Mammoth Lemon Queen—Flowers very large; rich lemon color; double. 3 feet. Pkt., 5c.; ½ oz., 25c.

1976 Mammoth Orange Prince—Enormous double blooms, of an intense, very striking orange. 3 feet. Pkt., 5c.; ½ oz., 25c.

1978 Mammoth Tall Mixed—A splendid assortment of all the best shades in African Marigolds. 3 feet. Pkt., 5c.; ½ oz., 20c.; oz., 35c.

1980 Mammoth Dwarf Mixed—The flowers are enormous in size, but the plants grow dwarfer. 1½ feet. Pkt., 5c.; ½ oz., 20c.; oz., 35c.

French Marigolds

1984 Legion of Honor (Little Brownie)—Handsome single variety, covered with a multitude of flowers. In color it is a velvety golden yellow blotched with purple. 1 foot. Pkt., 5c.; ¼ oz., 20c.

1988 Tall Double Mixed—A splendid assortment of all the best colors in striking combinations. 2½ feet. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

1990 Dwarf Double Mixed—Similar mixture to No. 1980 in colors, but the plants grow much dwarfer. 1 foot. Pkt., 5c.; ½ oz., 15c.; oz., 25c.



Livingston's "True Blue" Flower Seeds

are grown for us by specialists who have had years of experience, and are situated where the climate is best suited to their perfect development. You will take little risk in using them.



Mammoth Red Goliath Mignonette. Pkt., 10c.

Livingston's Superb African Marigolds. Pkt., 5c.

Mignonette (Reseda)

Without Mignonette in our gardens, something indeed would be missing. Its large, deliciously fragrant spikes of bloom are everyone's admiration. Make successive sowings in the garden, from April to July, for continuous bloom until frost; and if the plants are thinned out to six inches apart, and the tops pinched off when about two inches high, stronger plants, with larger spikes of elegant bloom, will be the result. Height 1 to 2 feet, according to the variety.

2001 Mammoth Red Goliath (See illustration)—This is the ideal mignonette for garden or pot culture. Of strong stocky growth, luxuriant rich green foliage. Branching habit; dense in length and 2½ inches in diameter. Surpasses all others in brilliancy of color. Strong, delightful fragrance. Pkt., 10c.; ¼ oz., 50c.

2005 Machet—A very fine variety, especially for growing in pots; has large, fragrant spikes of reddish bloom. Pkt., 5c.; ¼ oz., 20c.; ½ oz., 35c.

2006 Golden Machet—A distinct variety of the above, having golden-yellow flower spikes. Very sweet and elegant. Pkt., 10c.; ¼ oz., 20c.

2007 Defiance—Has immense spikes of bloom. Keeps long time after being cut, and very fragrant. Pkt., 5c.; ¼ oz., 15c.

2008 Victoria Red—An elegant sort; fine flower-spikes of the most brilliant dark-red; very sweet. Pkt., 5c.; ¼ oz., 20c.; ½ oz., 35c.

2009 Golden Queen—A very compact-growing sort; flower spikes golden yellow. Fragrant and fine. Pkt., 5c.; ¼ oz., 15c.

2010 Parson's White—A robust grower, bearing large spikes of bloom; pure white and very fragrant. Pkt., 5c.; ¼ oz., 10c.

2011 Sweet Mignonette (Reseda Odorata)—The old fashioned, deliciously sweet scented variety. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.

2016 Finest Mixed Varieties—An elegant mixture of above fine varieties, and many other choice sorts. Pkt., 5c.; ½ oz., 15c.; oz., 25c.

Moonflowers

(*Ipomoea Noctiflora*—See Illustration Below)

Splendid annual climbers of most rapid growth, with beautiful and varied flowers; for covering old walls, trellises, arbors, or stumps of trees, they are valuable. The seed should be lightly cut at the end and soaked over night before planting.

2038 Northern Light—The earliest blooming of all the Moonflowers. Its lovely pink flowers are produced by the thousands, all Summer and Fall. Pkt., 10c.

2040 Moonflower, White-Seeded—The variety most generally grown, being large in flower, firm in texture, and very fragrant. It bears in greatest profusion its immense lovely white flowers, 5 to 6 inches in diameter, with a 5-pointed star in the center. Pkt., 10c.

2042 Moonflower, Cross-Bred or Hybrid—A variety of great value for the North, as it is in bloom a month earlier than the above. Flowers are pure white, large and fragrant. A very rapid grower; 20 to 40 feet. Pkt., 10c.

2046 Ipomoea Rubro-Coerulea (Heavenly Blue)—The popular climber; has immense blooms of bright sky-blue. Very fine sort. Pkt., 10c.

One pkt. of each of above 4 Moonflowers, 30c.

Mrs. C. F. Angels, Hamilton Co., O., writes, Jan. 20, 1916: "My husband always has, the best kind of a garden when he plants your seeds, and I always have beautiful flowers from your seed."

We receive hundreds of testimonials each season from customers who are more than satisfied with our "True Blue Quality Seeds. In appreciation of these words of praise we strive at all times to keep our stock up to the highest possible standard.



Cardinal Climber

New Cardinal Climber

(*Ipomoea Quamoclit Hybrida*)

A new annual climber of the Ipomoea or Morning Glory family. It is a wonderfully vigorous grower, climbing 20 feet in a season from seed sown in the Spring. The foliage is beautifully cut and is very graceful. The flowers are very brilliant, being a fiery scarlet, the individual blooms being about 1½ inches across and produced in clusters of 5 to 7. It flowers very profusely the entire Summer, and bids fair to take a place as one of our best annual climbers, having attracted much attention wherever grown. It should be planted in a warm, sunny location in good soil and will then give a good account of itself.

1598—Pkt., 15c.



MOONFLOWER

Dwarf, or Bedding Morning Glories

Beautiful and showy plants, producing an abundance of richly colored flowers, which, in fine weather, remain open all day. Hardy annual, 1 foot.

2036 Choice Mixed—A very large assortment of these richly colored favorites. Pkt., 5c.; oz., 15c.

Morning Glories

(*Convolvulus*)

..2024—Giant Imperial Japanese—One of the most valuable and popular annual climbers introduced in years. This strain of mammoth-flowering Morning Glories is most justly celebrated for the beauty of both flowers and foliage. Magnificent in size of bloom—4 to 6 inches across. The great variety of rich and delicate colors, tints and markings is wonderful. Our mixture of seed of these is superb. Pkt. 10c.; ½ oz. 15c.; oz. 25c.; 4 oz. 75c.

2026 Finest Mixed Japanese—Very choice strain; flowers large, and in greatest variety of colors and shades. Pkt., 5c.; ½ oz., 10c.; oz., 15c.

2028 Fancy Fringed Japanese—This is a splendid mixture, made up exclusively from the best fringed varieties. The range of color is very great and the fringed-edged blooms very beautiful. Pkt., 10c.; ½ oz., 25c.; oz., 35c.

2022 Morning Glories (Convolvulus Major)—These are the old-fashioned favorites that everybody loves. No climber is more useful, as they grow so quickly and cling to anything. Splendid mixed with other vines, especially Nasturtiums. Our mixture contains all the choicest and brightest colored sorts. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; 1b., 75c.

2030 Brazilian Morning Glories (Ipomoea Setosa)—This desirable climber makes a thick, dense growth of great lobed leaves, and is brilliant with an endless profusion of immense clusters of rosy-colored flowers, with a satiny-pink star in the center of each. Pkt., 10c.



GIANT JAPANESE MORNING GLORIES

Myosotis (Forget-Me-Nots)

The Forget-Me-Not is an old favorite, bearing clusters of star-shaped flowers. Succeeds best in a moist, shady situation, and blooms the first year from seed if sown early. Seed sown in Autumn flowers in early Spring. Hardy perennial.

- 2050 Palustris (True Forget-Me-Not)**—Beautiful blue; 6 inches. Pkt., 10c.; $\frac{1}{8}$ oz., 30c.
2051 Alpestris—Bright blue. Pkt., 5c.
2054 Semperflorens—Splendid dwarf Forget-Me-Not; will thrive in sun or shade; covered from early to late with beautiful blue flowers. Pkt., 5c.
2058 Finest Mixed Varieties—A Forget-Me-Not Mixture of all the finest sorts. Pkt., 5c.

Livingston's Giant-Flowering Tall Nasturtiums

Giant Golden Yellow—Mammoth flowers, frequently $3\frac{1}{2}$ inches in diameter; borne on long, strong stems well above the foliage; exquisitely formed with overlapping crinkled petals of a rich golden yellow. Strong, vigorous grower; large, bright green leaves. A grand and distinct variety. **2066**—Pkt., 5c.; oz., 20c.

Giant Cream Pink—The extremely large flowers are of full expanded form; the daintiest of all Nasturtiums. Its superb coloring is of blush cream, flushed with rose. Nothing we can say can convey an idea of its fairy-like beauty, mammoth size and splendid substance. **2068**—Pkt., 5c.; oz., 20c.

Giant Deep Crimson—The deepest and richest of all dark-red Nasturtiums. The foliage is dark green; the mammoth flowers, which are borne in great abundance, have a soft, velvety texture; slightly crumpled petals and wonderfully rich coloring. **2070**—Pkt., 5c.; oz., 20c.

Giant Striped Hybrids—A gorgeous strain of brilliantly striped beauties of various shades and tints; gigantic in size. Its wonderful variety of colors and markings show many unique combinations. **2071**—Pkt., 5c.; oz., 20c.

Giant Brilliant Scarlet—A glowing, flaming scarlet, intense and vivid; the largest of its color; of splendid substance and beautiful form. **2072**—Pkt., 5c.; oz., 20c.

Giant Lemon and Rose—Grand, extra large flowers of clear pale lemon, varying to bright yellow; beautifully blotched with bronzy crimson. **2069**—Pkt., 5c.; oz., 20c.

Giant Rose—A most desirable variety, with flowers of a soft rosy-pink color; foliage light green. The brightest rose-color Nasturtium we have ever seen. Abundant bloomer. **2067**—Pkt., 5c.; oz., 20c.

Rainbow Collection of Giant-Flowering Nasturtiums

7 LARGE PACKETS of these **25c**
 Wonderful Beautiful Kinds,
 postpaid, to any address, for

Livingston's Top-Notch Mixture

A wonderful diversity of rich colors and new and striking combinations are found in this unequaled mixture. A row in full bloom is beyond description, containing shades of yellow, rose, scarlet, orange, lemon, bronze, maroon, ruby, cream and pink, both in solid colors and mottled and striped in many showy and exquisite ways. For many years this mixture of Nasturtiums has been our special pride. Every year we have improved it, until now we unhesitatingly offer our new Giant-Flowering Nasturtiums as absolutely the finest. We strongly recommend our customers to plant liberally.

2100 Top Notch Mixture of New Giant-Flowering Nasturtiums—A large packet, 10c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.

2094 Mixed Tall Nasturtiums—There is no flower of which you need seed in larger quantities for liberal planting than Tall, or Climbing Nasturtiums. For the low price, this mixture is very choice. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.

Ivy-Leaved Trailing Nasturtium

This is a most distinct variety, both in flower and foliage. The plants are of very sturdy, running growth, and the leaves, which are of a deep green, veined with silvery-white and star-like, resemble the hardy English Ivy. The flowers are intense glowing scarlet and most distinct in form, the petals being finely feathered. Especially graceful in hanging baskets, window boxes and vases.

2101 Scarlet—Pkt., 10c.; $\frac{1}{2}$ oz., 20c.; oz., 30c.



Specimen Flowers from Livingston's Top-Noth Mixture



Madame
Gunther
Hybrid
Nasturtium

Madame Gunther Hybrid Climbing Nasturtiums

These are of French origin, and for rich and striking colors are not surpassed by any class of climbing Nasturtiums. Very fine.

2076 Tall French Chameleon—This variety produces blooms of many distinct colorings upon the same plant. Pkt., 5c.; oz., 15c.

2077 Dark Crimson—Splendid variety; fine foliage. Pkt., 5c.; oz., 10c.

2081 Jupiter—Giant-flowered. Color a deep, very clear, golden yellow, of the strongest growth; profuse bloomer. Pkt., 5c.; oz., 20c.

2082 Tall King Theodore—Deep crimson-maroon, so velvety that it is almost black; has dark foliage. One of the best sorts. Pkt., 5c.; oz., 15c.

2096 Mixed Colors—Pkt., 5c.; oz., 15c.; ¼ lb., 50c.

Lobb's Climbing Nasturtiums

(*Tropaeolum Lobbianum*)—Both foliage and flowers of this class are somewhat smaller than the Tall varieties, but the splendid profusion of bloom and the intensely brilliant colors of the flowers render them of the greatest value. 12 to 15 feet.

2083 Tall Pearl—Nearly white; for contrast. Pkt., 5c.; oz., 10c.

2084 Begelianum—Deep purplish violet. Pkt., 5c.; oz., 10c.

2086 Scarlet—Bright; good foliage. Pkt., 5c.; oz., 10c.

2095 Lobb's Finest Mixed—This elegant assortment of Lobb's Climbing Nasturtiums is composed of the most brilliant colors in this class. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.

New Fringed Nasturtiums

A decidedly novel and distinct new Nasturtium, with magnificent large flowers, deeply fringed. Climbing variety, reaching a height of 10 to 12 feet. Deep green foliage. A unique and beautiful variety.

2104 Mixed Colors—Pkt., 10c.

Marble-Leaved Queen

2110 Mixed—A beautiful variety and a new type, having leaves marbled, striped and blotched with white, yellow and green. Many colors mixed. Pkt., 5c.; oz., 25c.

Dwarf Nasturtiums

2135 Golden King—A rich orange-yellow. Foliage dark. Pkt., 5c.; oz., 15c.

2136 King of Tom Thumbs—Glowing, darkest scarlet flowers. Foliage very dark green. A most rich and brilliant variety. Pkt., 5c.; oz., 15c.

2137 Dwarf King Theodore—A velvety crimson-maroon, almost black. The leaves are the darkest in Nasturtiums. Pkt., 5c.; oz., 15c.

2133 Dwarf Chameleon—Of brilliant shades and diversified markings; some self-colored, others splashed and mottled. Pkt., 5c.; oz., 20c.

2134 Empress of India—A very compact-growing sort, having purplish-green leaves; the flowers are fiery crimson. Pkt., 5c.; oz., 15c.

Dwarf Liliput Nasturtiums

This charming and distinct new class has very small flowers and leaves. In growth it is very compact, bushy and dwarf, being more so in both respects than the Dwarf Nasturtiums. In colors they are most varied and rich.

2152 Mixed—Pkt., 5c.; oz., 20c.

Queen of Holland (New Liliput Hybrids)—A dainty type of very dwarf growth, making fine compact little bushes only about 6 inches high. The flowers, although smaller than the regular Nasturtiums, are very brilliant in color and are produced in a wonderful variety of shades and combinations, including cream, rose, scarlet, orange, crimson—all beautifully blotched.

2131 Mixed Colors—Pkt., 10c.

Livingston's Glory of the Garden Mixture

This is our best mixture of the dwarf varieties. It is composed exclusively of the most elegant, large-flowered sorts, and the brilliantly colored flowers range through every shade and tint known in this favorite annual. This seed will produce a bed or border gorgeous beyond description.

2130 Glory of the Garden Finest Mixed—Large pkt., 10c.; oz., 15c.; ¼ lb., 50c.

Mixed Dwarf Nasturtiums—We handle such large quantities of Dwarf Nasturtiums that we are able to offer this especially choice mixture at a very low price. You should plant this mixture very liberally.

2150 Choice Mixed—Pkt., 5c.; oz., 10c.; ¼ lb., 25c.

Dwarf Queen Nasturtiums

A gorgeous mixture of all the dwarf or Tom Thumb varieties of the Marble-Leaved Queen Nasturtiums. Containing a great number of named varieties as well as numerous other new hybrids not yet sufficiently "fixed" in color to offer separately. **2123 Mixed**—Pkt., 5c.; oz., 25c.

Mrs. J. H. Astle, Rich Co., Utah, writes: "Your Tall or Climbing Nasturtiums cannot be spoken of too highly, for they provided a gorgeous mass of bloom all Summer long, with little or no care. I am sending another order for Flower Seeds, for I believe your seeds are True Blue."



Glory of
the Garden
Nasturtium

Nicotiana

(Sweet-Scented Tobacco Plant)—Handsome and well-known hardy annuals that grow easily from seed, forming compact bushes about 3 feet high, which are in continuous bloom throughout the season. Their blooms are tube-shaped, very sweet-scented, and desirable as cut flowers; also fine for pots.

2158 Affinis—A very popular sort; its flowers are pure white and deliciously fragrant. Always in bloom. Pkt., 5c.

2160 Sanderae—This beautiful hybrid *Nicotiana* forms bushy, much-branched plants 2 feet high, the whole plant laden with flowers from base to summit—literally ablaze with handsome carmine-red fragrant blossoms, hundreds of which are produced on a single plant. Pkt., 10c.

Nigella (Love-in-a-Mist)

A very popular, old-fashioned flower; free-flowering, with finely cut foliage surrounding the curious looking flowers and seed pods. Easily grown from seed.

2163 Mixed—Pkt., 5c.

Ornamental Grasses

Effective and attractive for garden borders and ornamental groups. Also extensively used when dried for Winter bouquets.

1660 Coix Lachrymae (Job's Tears)—Beautiful variety. Has coin-like leaves, and hard, glossy gray colored seeds, which naturally have a hole in them like beads. 2 feet. Pkt., 5c.; oz., 10c.; 2 oz. (enough for a chain), 15c.; ¼ lb., 25c.; 1 lb., 75c.

2170 Eulalia Zebrina (Zebra Grass)—The long dark-green leaves are beautifully striped with yellowish white. Perennial. 5 feet high. Pkt., 10c.

2171 Purple Fountain Grass (Pennisetum)—Beautiful and graceful; is unequalled as an edging to tall-growing plants. Annual. 3 feet. Pkt., 5c.

2172 Mixed Annual Varieties Ornamental Grasses—Pkt., 5c.



Nigella—Love-in-a-Mist

Livingston's Mammoth Pansies

Our Pansy Seeds are grown exclusively for us by the best American and European Specialists. All our strains are from the most noted seed stocks in the world, and we know they cannot fail to give the most unbounded satisfaction to amateur and professional grower alike. Sow in the house, hot-bed, or green house; or as soon as the weather permits, the seed may be sown directly in the garden beds. Pansies thrive best in a rich soil, and cool, moist situation; they do splendidly in partially shaded places. They do not do well under trees, but in some locations where the sun strikes only part of each day the most satisfactory result can be obtained. Seed sown from July to September and the young plants transplanted into cold-frames for the Winter, will bloom grandly very early the following Spring. (Prices by ounce or larger quantities will be quoted upon application.) Free to our customers, leaflet on the culture of Pansies.

Giant Ruffled Masterpiece (Germania)

A remarkable type, the border of each petal being conspicuously curled and undulated, which gives the flower a double or globular appearance. The large blooms are beautifully blotched. **2181**—Pkt., 15c.; 2 pkts. for 25c.

Tufted Pansies

Especially adapted for shady places. While the flowers are not so large as in the other varieties of Pansies, their abundance is wonderful, and colors most varied. Hardy.

2231 White, 2233 Yellow, 2232 Blue, and 2230 Mixed, 10c. each per pkt.

Exquisite Orchid-Flowered Pansies

All the delicate shades and tints of the Orchids may be found in these charmingly pretty favorites. Rose, orange, pink, lilac, terra cotta, chamois and other exquisite shades are predominant and please all lovers of the delicate by their refined form and texture. Orchid-flowered Pansies are not as large as some of our Giant strains; but they will appeal by their exquisite coloring and the elegant shape of their flowers.

2179 All Shades Mixed—Pkt., 10c.

Mammoth Parisian Pansies

The French Pansies are large, and strongly marked and blotched; in a word they are very attractively "Frenchy."

The strain we offer is one of great excellence, the individual flowers being superb, and include many fine shades. **2183**—Pkt., 10c.; 3 pkts. for 25c.

Giant German Pansies

The German Pansies are noted for their almost endless variations, which include striped, blotched bordered, veined, and marbled combination, in every possible color and shade. The plants are of compact growth, and flower most profusely and continuously all Summer. **2185**—Pkt., 10c.; 3 pkts. for 25c.

Livingston's Giant Pansy Mixture

This splendid mixture is a blended combination of giant-flowering pansies. It contains all colors and will prove a delightful surprise in regard to their great size. **2177 Giant Mixture**—Pkt., 10c., 3 pkts. for 25c.; ¼ oz., 50c.; oz., \$2.50.

English Pansies—The old-fashioned "English Face" Pansies. **2191**—Pkt., 10c.; 3 pkts. for 25c.



Orchid-Flowered Pansy



From Our Giant Pansy Mixture



Specimen Flowers
Livingston's Fancy
Pansy Mixture

Madame Perret

A splendid giant-flowering strain, which is of French origin. The flowers are produced most freely, and are of the greatest diversity of colors, comprising all shades of red, from lightest rose to darkest purple. Many are striped. 2189—Pkt., 15c.

Bugnot's Superb Blotched

The flowers of this splendid strain are of the largest size, and produce the handsomest and richest blotched varieties known in Pansies. We recommend this mixture. 2187—Pkt., 20c.; 3 pkts. for 50c.

Bedding Pansies in Separate Colors

For liberal plantings in the garden beds these fine sorts are the most desirable. The plants grow compactly, bushy, and bloom continuously. The bloom is of many beautiful shades but average smaller than the Giant sorts.

2210 Azure Blue; 2211 Black; 2212 Bright Brown, 2213 Brilliant Red; 2214 Dark Purple; 2215 Dark Red; 2216 Light Blue; 2218 Pure White; 2220 Pure Yellow; 2221 Violet, white margin; 2222 White, black center; 2224 Rosy Lilac—Price, each pkt., 5c.; 6 pkts., 25c.

Bedding Pansies Mixed

We have taken much pains in composing this mixture and it will make a rich display. Contains all the fine Bedding Pansies named above. 2225 Mixed—Pkt., 5c.; ½ oz., 20c.; ¼ oz., 30c.; oz., \$1.00.

Our "Giant Six" Pansy Collection

This collection contains one packet (100 seeds) each of the following elegant varieties: Giant Red, Giant White, Giant Blue, Giant Purple, Giant Yellow and Giant Black. 6 packets in all for 25c.

Livingston' Fancy Pansy Mixture

In this magnificent mixture of mammoth-flowering pansies the blossoms are borne on long stems well above the foliage and are distinguished for their gorgeous and varied colorings and beautiful markings; of fine substance, velvety texture, perfect form, and giant size, frequently measuring three inches in diameter. The colorings are wonderfully rich and varied; every shade and tint of rose, canary-yellow, black, white, cream, lavender, garnet, sky-blue and orange are produced in endless variation. An unequalled collection of all the finest types. The best, handsomest and most perfect giant-flowering varieties. 2175 Fancy Mixture—Pkt., 25c.; 3 pkts., 60c.; ½ oz., \$1.25.

Giant Trimardeau Separate Colors

2194 Gt. Atropurpurea (Rex)—Velvety, royal purple... 10c.
2195 Gt. Emperor William—Indigo blue, blotched black 10c.
2196 Gt. Golden Queen—Pure golden-yellow; very fine. 10c.
2197 Gt. King of the Blacks—Lustrous, jet-black... 10c.
2198 Gt. Lord Beaconsfield—Lavender, heliotrope, purple 10c.
2199 Gt. Peacock (Gloriosa)—Garnet, cream and blue... 10c.
2200 Gt. President Carnot—White, large violet blotches 10c.
2201 Gt. Snowflake—Spotless, snow white... 10c.

Giant Trimardeau, Mixed—These are the largest flowered of all; a most showy class of robust and very compact growth. Flowers are carried well above the leaves. Mixture of finest colors. 2205—Pkt., 10c.; 3 pkts., 25c.; ½ oz., 40c.

Platycodon Grandiflora

(Chinese Bell-Flower)

A splendid hardy perennial, producing large bell-shaped, white and blue flowers; very showy. 2297 Mixed—Pkt., 5c.; ¼ oz., 25c.

Pyrethrum (Feverfew)

Most attractive hardy perennials, which have become very popular. Valuable border plants with many stems about two feet high, each surmounted with handsome flowers, in the brightest shades of rose, flesh pink, crimson, etc.; in bloom a long time, and are splendid as cut flowers. (See Feverfew.)

2362 Single Hybrids—This mixture contains the very largest flowering and choicest varieties. Pkt., 15c.

2364 Golden Feather (Aureum)—Dwarf growing variety, with bright yellow foliage; largely used for edgings and ribbon work. Usually treated as an annual. ¾ ft. Pkt., 5c.; ¼ oz., 20c.



Giant Trimardeau Pansy



Annual Phlox

Annual Phlox

For a splendid mass of color and a constant display, the Phlox Drummondii is not excelled by any other annual. It has every desirable quality for this purpose and for beds, edgings and massings nothing can surpass it. Seed may be sown in the open ground any time after danger from frost is past.

Large-Flowering Phlox

This is a magnificent class of these splendid annuals. Flowers are large and brilliant in colors.

2269 Bright Rose—Most pleasing color; a profuse bloomer. Pkt., 5c.; ¼ oz., 30c.

2270 Brilliant Scarlet—Is especially showy in large beds or borders. Pkt., 5c.; ¼ oz., 30c.

2271 Crimson—Popular sort; very brilliant and effective. Pkt., 5c.; ¼ oz., 30c.

2273 Pure White—Pkt., 5c.; ¼ oz., 30c.

2274 Yellow—Distinct. Pkt., 5c.; ¼ oz., 30c.

2267 Prize Mixture of Large Flowering Phlox—Large pkt., 10c.; ¼ oz., 25c.; ½ oz., 40c.; oz., 75c.

Phlox Drummondii—The old-fashioned favorite variety.

2265 Mixed—Pkt., 5c.; ¼ oz., 15c.; oz., 50c.

Star-Shaped Phlox—Long, pointed petals, which give the flowers a star-like appearance; plants grow compact and dwarf. **2278 Mixed**—Pkt., 5c.; ¼ oz., 20c.

Livingston's Superb Petunias

Petunias are one of the most popular annuals on account of their ease of cultivation and freedom of blooming, succeeding everywhere and giving a constant supply of flowers from June to October. They are also good house plants, flowering freely in a sunny window. Seed can be sown in the open ground early in the Spring or in a hot bed or cold frame, to be transplanted later to beds or borders. Height 1 to 1½ feet.

Large-Flowering Petunias

The blooms are enormous in size and of the richest colors and markings. Varieties listed below are unsurpassed.

2240 Livingston's Superb Single Mixed—A strain of incomparable beauty and luxuriance. Flowers most varied in colors and markings; beautifully ruffled, fringed and of enormous size. Pkt., 15c.; 2 pkts. for 25c.

2244 Ruffled Giants—The flowers of this strain are of extraordinary size and great substance; the edges of the blooms ruffled. Contains the greatest variety of rare colors and combinations. Pkt., 25c.

2246 Livingston's Superb Double Mixed—Our best mixture of all the large flowering double varieties, including striped, blotched and fringed sorts. Pkt., 25c.

Bedding Petunias

2250 Howard's Star-Shaped—Entirely distinct. The five-petaled blooms have star-shaped markings of blush-pink or white over maroon ground; very fine. Pkt., 5c.

2254 Snowball—A charming, compact-growing variety; grows about 8 inches high and yields in greatest profusion all season its pure satiny-white flowers. Pkt., 10c.

2256 Striped and Blotched—A most beautiful strain of Petunias for bedding and massing. Our mixture contains an endless variety of colors. Pkt., 5c.; ¼ oz., 20c.; ½ oz., 35c.

2258 Finest Mixed—A choice mixture of colors and shades; will make a fine display in your garden. Pkt., 5c.; ½ oz., 20c.; ¼ oz., 35c.

Large-Flowering Primulas

(Primroses)

The ease with which Primroses can be grown from seed makes them very popular window plants. For a succession of blooming plants sow the seed from March to May, and again in July or August; in planting, cover the seed lightly, and keep moist. Transplant when the second leaf appears, and keep re-potting the plants as they grow and increase in size. Height ½ to 1 foot.

2346 Chinese Primrose—Superb Single Mixed—An elegant mixture, embracing all the best large-flowering varieties, and including the finest fringed sorts. Pkt., 25c.

2348 Chinese Primrose—Superb Double Mixed—Splendid strain of the finest large flowering, fringed varieties. Our mixture includes all the most brilliant colors. Pkt., 25c.

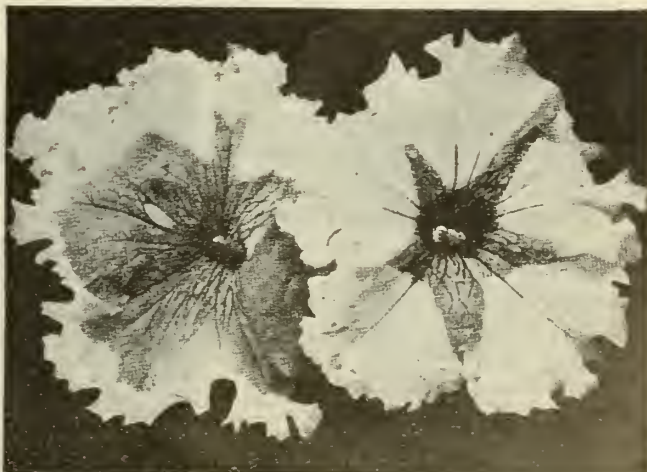
2350 Primrose—Choice Mixed—This is a very choice mixture, and for general purposes will be found most satisfactory. Pkt., 15c.

2352 Obconica Grandiflora—Large Flowering Hybrids—Lovely and profuse blooming Primrose, bearing on long stems large heads of beautiful flowers; white, tinged lilac and rose shades; ever-blooming variety with true Primrose fragrance. Pkt., 10c.

2354 Japonica (Japanese Primrose)—Very bright and showy flowers, borne in whorls on stems 6 to 9 inches long. Choicest colors. Pkt., 10c.

Phaseolus Multiflorus Papilio

2262 Butterfly Bean—A splendid climbing plant for arbors and trellises equal to the old Scarlet Runner sort as regards productiveness and quality of fruit, but quite distinct in the beauty of its flowers. The flowers are of large size with prettily waved snowy-white wings and salmon-rose standard, these two colors making a most agreeable and striking contrast. Pkt., 10c.; 3 pkts. for 25c.



Petunia—Giants of California. Pkt., 15c.

2242 Giants of California—These Petunias are of great beauty and luxuriance, including fringed and deep-throated sorts in endless variety of colors, veining and markings. Flowers of enormous size. Pkt., 15c.; 2 pkts. for 25c.



Oriental Poppy. Pkt., 10c.

Perennial Poppies

There are no flowers more ornamental and useful in our gardens than the various varieties of hardy Poppies. Once started they increase in size and beauty each succeeding season.

2334 New White Oriental—It is the most distinct "Break" that has yet been made in Oriental Poppies, it being a pure satiny white with a bold crimson blotch at the base of each petal, unquestionably the most important addition to the list of hardy perennial seeds. Like most hybrids the seedlings are liable to vary somewhat in color, but a good percentage can confidently be expected to come true. Pkt., 20c.

Large Oriental—Perhaps the most popular variety in cultivation, the sturdy plants growing about 3 feet high. Its color, a dazzling scarlet with coal-black blotches, is grand. For gorgeous effect, nothing can equal them in perfectly hardy plants. **2333**—Pkt., 10c.; $\frac{1}{2}$ oz., 20c.; $\frac{1}{4}$ oz., 35c.

2335 Oriental Hybrids—Splendid hybrids of Oriental Poppy. Enormous flowers, sometimes more than six inches in diameter. Colors include shades of cherry, salmon, darkest red, vivid crimson and innumerable others equally fine. Our mixture contains them all. Pkt., 10c.; $\frac{1}{2}$ oz., 25c.; $\frac{1}{4}$ oz., 45c.

2330 Iceland (Papaver Nudicaule)—These Poppies are perfectly hardy and in bloom from June until frost; beautiful satin-like flowers, of every shade of yellow, white and orange-scarlet. Plants grow about 12 inches high, forming tufts, from which the flower stems issue most profusely. Very useful for cut flowers. Easy to grow. Pkt., 10c.; $\frac{1}{2}$ oz., 15c.; oz., \$1.00.

2332 Double Mixed Iceland—This splendid mixture of double-flowering varieties you will find very superior. Pkt., 10c.; 3 pkts., 25c.

Portulaca (Sun Plant)

Should be sown in every garden. Scarcely any annual in cultivation makes such dazzling display of beauty as a bed of highly colored, many-hued Portulacas. Plant in dry sandy soil, soon as it becomes warm, with full exposure to the sun.

Large-Flowered Single Mixed—A most elegant mixture; flowers large and of every shade of color. **2340**—Pkt., 5c.; $\frac{1}{4}$ oz., 20c.; oz., 60c.

Rose-Flowered—From this assortment more than one-half of the plants will produce double flowers; these plants can be transplanted 8 inches apart as soon as they bloom, thus making an entire bed of double bloom. Our mixture contains all best double varieties. **2342**—Pkt., 10c.; $\frac{1}{2}$ oz., 75c.

Poppies

The recent development of these old-fashioned flowers has brought them into great and deserved popularity. No flower in our garden affords a more pleasing display of gorgeously brilliant coloring during the blooming season. Poppies of the various varieties grow about 2 feet in height, except as noted.

Double Annual Poppies

2300 Paeony Flowered—Large, showy double globular flowers; almost equal to Paeonies. Our mixture contains the finest colors. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.

2302 White Swan—Pure snow-white, double and large size. Beautifully fringed. Pkt., 5c.

2304 American Flag—Very beautiful variety. Flowers extra large and double. Snow-white, bordered with scarlet. Pkt., 5c.

2306 Fairy Blush—Immense flowers, perfectly double, 5 inches across; elegantly fringed; pure white, rose-tipped petals. Pkt., 5c.

2308 Carnation Flowered—Splendid large double flowers; showy and beautifully fringed. Mixture is unequalled for dazzling richness and great variety of colors. Pkt., 5c.; $\frac{1}{2}$ oz., 15c.; oz., 25c.

2310 "Mikado" (The Striped Japanese Poppy)—Very distinct and beautiful; the large blooms are brilliant scarlet and white, with elegantly curved and fringed petals. Pkt., 5c.; $\frac{1}{4}$ oz., 10c.

Livingston's Giant Double Mixed—A mixture of beautiful double Poppies, including only the improved double, giant-flowering kinds of the richest and brightest colors, as well as the daintiest and softest tints. When grown in masses it is brilliant beyond description. The plants are sturdy, thrifty growers, from 2 to 3 feet high, producing immense flowers, sometimes 4 inches in diameter. Sow the seeds in the early Spring in sandy soil where they are to remain.

2311 Mixed—Pkt., 5c.; oz., 35c.

Single Annual Poppies

2316 Livingston's Giant Shirley—These are considered by many the most charming Poppies in cultivation. The individual flowers are large and elegant, mostly single blooms, some semi-double and double ones, often measuring from 3 to 4 inches across. The petals are fluted and crinkled and in the sun appear like crumpled satin. The exquisite colors range from purest white to the deepest of blood-red, through all the shades and combinations of pink, rose, crimson and carmine. Pkt., 5c.; $\frac{1}{4}$ oz., 20c.; oz., 60c.

2321 Danebrog (Danish Cross)—A very showy single variety; brilliant scarlet, blotched with silvery gray. Pkt., 5c.

2323 Tulip Poppies—Large and splendid single flowers of the most dazzling scarlet. The two outer petals resemble a saucer, in which are set two erect petals of the same color. Pkt., 5c.; $\frac{1}{4}$ oz., 20c.

2325 New Admiral—Of surprising beauty. Large, round, smooth edged flowers of glistening pure white, with a broad band of brilliant scarlet around the top. Pkt., 10c.

2327 Livingston's Single Mixture—Every color ever seen in Poppies, and every conceivable combination of colors is found in this elegant mixture. Pkt., 5c.; $\frac{1}{2}$ oz., 20c.; oz., 35c.



Rose-Flowered Portulacas. Pkt., 10c.

Ricinus

(Castor Oil Bean)

One of our best ornamental-leaved annual plants, largely used for the center of beds, being splendidly effective grouped with Cannas, Caladiums, and other tall plants.

2370 Zanibariensis—A new and distinct class, surpassing in size and beauty all varieties hitherto known. Plants attain great dimensions—12 to 14 ft. **Pkt., 5c.; oz., 10c.; ¼ lb., 25c.**

2371 Borboniensis—Very large and most showy green foliage; a standard variety. 10 to 15 ft. **Pkt., 5c.; oz., 10c.**

2372 Cambodgensis—Main stem and leaf stalks shining ebony black; leaves large and brilliantly colored. Foliage assumes various shades. 5 feet. **Pkt., 5c.; oz., 15c.**

2373 Gibsoni—Compact growing variety of branching habit. The large leaves are a deep red. 5 ft. **Pkt., 5c.; oz., 10c.**

2377 Livingston's Ricinus Mixture—Appreciating fully the splendid effects that a fine array of these desirable foliage plants will make in your garden, we have composed a mixture that for elegant blending in unsurpassed. **Pkt., 5c.; oz., 10c.; ¼ lb., 25c.**



Ricinus. Pkt., 5c.

Salvia

(Flowering Sage)

Very ornamental plants, for Summer and Autumn flowering; bloom in spikes, and continuing to bloom in the open ground until hard frosts, forming compact bushes, which are literally ablaze with brilliant flowers. While tender perennials, they bloom like annuals the first season from seed. The plants may be started in a box in the house, or in the hotbed, and when the weather becomes warm transplant in the garden. Height 2 to 3 feet. (See illustration.) May be used as a hedge with striking effect.

2384 Splendens Grandiflora (Scarlet Sage)—Gorgeous plants, numerous spikes of intensely vivid scarlet flowers 10 to 12 inches in length. Continues to flower profusely all Summer and Fall. Of easy growth. The most popular Salvia in cultivation. **Pkt., 10c.; ½ oz., 25c.**



2386 Bonfire—Plants form healthy bushes about 2 feet high by 2 feet across. Spikes grow erect and stand clear above the foliage, completely covering the plant, and are of a most brilliant, dazzling scarlet. One of the finest sorts. **Pkt., 10c.; ½ oz., 50c.**

2388 Silverspot—Strikingly handsome spotted foliage. Leaves rich, soft, dark green, with light yellowish spots of various size sprinkled over them, and have a fresh, healthy appearance. Flowers are large, bright red; plants of neat, compact habit. Comes quite true from seed. **Pkt., 10c.**

2390 Scarlet Dragon—A magnificent free-growing new variety, forming dense, bushy plants, 3 feet high; with clean, light green foliage, and bearing innumerable mammoth spikes of vivid carmine scarlet flowers of extra large size. Splendid for borders, beds and masses, as it is always in bloom and vividly gay. **Pkt., 10c.**

2398 Zurich—Compact growing sort, forming handsome, symmetrical bushes, 15 to 18 inches tall, which are completely covered with scarlet flower spikes. A little beauty. **Pkt., 10c.**

Roses

(Bloom the First Year from Seed)

2380 Baby Roses, also called **Dwarf Midget**, or **Fairy Roses**—These beautiful little roses are borne in many flower clusters of double, semi-double and single flowers and are of all the tints of other roses. Seed should be soaked in warm water a day or two before planting; perfectly hardy, blooming year after year. **Pkt. (50 seeds), 10c.; 3 pkts., 25c.**

Salpiglossis

(Painted Tongue)

The Salpiglossis is one of the most popular and favorite annuals. It is of the easiest culture. Especially is it noted for its beautiful, almost orchid-like blooms. (See illustration.) Our mixture is unsurpassed, containing every desirable color and shade of the large-flowering varieties. 1½ feet. **2400 Mixed—Pkt., 5c.**

Mrs. M. G. Kethley, Hinds Co., Miss., writes, Sept. 14, 1916: "I have used your flower seeds for several years on Mississippi College Campus and found them par excellent. They cannot be surpassed."

Mrs. Chas. H. Parsons, Charleston Co., S. C., writes Jan. 11, 1916: "I am sending you my order again for flower seeds. I am more than pleased with them. I was so proud of my lovely Nasturtiums last spring. Please rush this order as I want to get the seeds in right away."

Mr. D. D. Archibald, Clermont County, Ohio, writes April 15th, 1916: "I received the seed in good condition at Loveland, Ohio, station, April 14th, 1916."



Salpiglossis, or Painted Tongue.



Ten-Week-Stock Snow White. Pkt., 10c.

Stokesia Cyanea

(Cornflower Aster)—A valuable hardy perennial bedding plant. Plants large, 18 to 20 inches high, with Bachelor Button-like, light lavender-blue flowers, which are several inches in diameter. Are produced from July until late in October. Very easily grown in almost any situation. 2436—Pkt., 10c.

Shasta Daisies

A hardy perennial plant; blooms more abundantly each season; multiplied by division of roots or sowing seed. They bloom for several months in great abundance. The flowers are large and graceful, with three or more rows of pure white petals.

2433 Selected Seed—Much superior to original strain. Pkt., 10c.

Schizanthus or Butterfly Flower

Popularly called the "Poor man's Orchid." It grows from a foot to eighteen inches tall, with fine fern-like foliage, begins to flower early and produces masses of oddly marked and queerly shaped blooms in various shades of blue, purple and pink and some pure white.

2427 Schizanthus Mixed—5c. per packet.

Scarlet Runner-Bean

Ornamental climber. Bright scarlet sprays of bloom, followed by edible beans. 2429—Pkt., 5c.; $\frac{1}{4}$ lb., 15c

Scabiosa

(Sweet Scabiosa, Mourning Bride, Pin-Cushion Flower, Egyptian Rose, etc.)—The seed can be sown any time in the Spring after danger from frost is past. The plants grow about 2½ feet high, and come into bloom early in June, continuing without interruption until the hard frosts of Autumn. The exquisite double flowers (see illustration) are borne on very long stems, and when cut keep in perfect condition for the best part of a week.

2404 Livingston's Improved Large-Flowering Scabiosas, Finest Mixed Colors—A very fine mixture, containing all the finest large-flowering double sorts. All colors. Pkt., 5c.

2406 Azure Fairy—Exquisite sky-blue. Pkt., 10c.

2408 Fiery Red—Very striking; double; fiery scarlet. Pkt., 5c.

2410 Violet—Very large; double; very dark. Pkt., 5c.

2412 Snowball—Double white flowers; fine for bouquets. Pkt., 5c.

2414 Golden Yellow—Very fine color. Pkt., 5c.

Collection Scabiosa, above 11 separate colors, 50c.

2426 Hardy Scabiosa Caucasica—Grand hardy perennial, 3 feet high; large lilac-blue flowers; splendid for cut flowers. Pkt., 10c.

2416 Pompadour—Claret-purple, edged white. Pkt., 5c.

2418 Flesh. Pkt., 5c.

2419 Carmine Pink. Pkt., 5c.

2420 Lilac. Pkt., 5c.

2421 Cherry Red and White—Pkt., 5c.

2422 White and Lilac. Pkt., 5c.

Stocks (Gilliflower)

Indispensable for bedding, borders, massing or pot culture.

Large-Flowering Double "Cut and Come Again" Varieties.

2446 Snow White—(See illustration.) Pkt., 10c.

2440 Finest Mixed—This is our very best mixture of large-flowering Stocks. The perfectly double flowers embrace every color and shade. Pkt., 10c.

2448 Giant Perfection Stocks—Long spikes of double flowers. Pkt., 10c.

2450 Fine Mixed Stocks—A choice mixture of various colors and shades. Pkt., 5c.

Sunflower (Helianthus)

A well known family of hardy annual, very showy plants, large flowers.

2454 New Miniature—Beautiful new hybrids; small single flowers in great abundance; colors, creamy white, lemon and orange; indispensable for cutting. Pkt., 5c.; $\frac{1}{4}$ oz., 20c.

2456 Globe of Gold—Globe-shaped, double yellow flowers. Pkt., 5c.

2460 Livingston's Mixed Sunflowers—A great variety of single and double varieties. Every shade of yellow is included. Pkt., 5c.; $\frac{1}{2}$ oz., 10c.; oz., 15c.

Sensitive Plant

A pretty and curious annual plant; the leaves and foot-stalks close and droop at the slightest touch, or in cloudy, damp weather. 1½ feet. 2430—Pkt., 5c.

Smilax

Charming tender perennial climber for house or greenhouse. 2435—Pkt., 5c.



LARGE
FLOWERING
SCABIOSA



Planting Sweet Peas in Our Trial Grounds to Determine Purity of Stock

Spencer Sweet Peas

How to Grow Fine Sweet Peas.—The general opinion is that Sweet Peas being common and hardy can be planted anywhere, which accounts for a lot of failures. There is no reason why everyone should not have fine flowers if they will observe a few simple rules. First of all, **plant early**, just as soon as the ground can be dug and is not sticky. **Dig deeply.** If you are growing sweet peas every year, try and prepare your ground in the Fall, and dig 18 inches deep, mixing manure thoroughly in the subsoil. The surface soil in which the seed is sown should not contain manure. If you start in the Fall you will find you can sow earlier in the Spring. If you can't secure manure, use bone meal or commercial fertilizers containing phosphate and potash. Cover the ground an eighth of an inch with these and then dig in and mix thoroughly with the soil. Sow the seed three inches deep if on sandy soil, or two if in clay. Sow thinly unless you have the courage to pull them out after they come up. You can't have fine flowers through the season when plants are very thick. Two or three inches apart, or better, four inches if you want big flowers. Cultivate as soon as they are up and keep cultivating. Stake them as soon as the rows show plainly. For the first month they scarcely make any growth above ground, but don't need water unless the season is very dry. Later on, when they are showing vigorous growth, a thorough watering twice a week will help wonderfully, if there is not sufficient rain. Don't plant them alongside a house, under trees or close to a board fence and expect much from them. They need an open space.

Margaret Atlee

2625—Margaret Atlee is a rosy salmon-pink on a creamy buff ground; a rich, soft color, and extremely attractive, both as individual flowers and in the bunch. The standard is large and wavy and inclined to double. It runs almost uniformly four blossoms to the stem; well poised and graceful. Pkt., 15c.; oz., 50c.

Wedgwood

2628—Wedgwood is a unique shade of lovely light blue. The flowers, of good size and substance, are well waved in both standard and wings; they are borne almost uniformly in four-flowered sprays upon long stout stems. Pkt., 15c.; oz., 50c.

King White

2626—Undoubtedly the best white now in cultivation. It is remarkable for the "glistening immaculate purity of the whiteness" and the perfect finish of the flower. While of truly gigantic proportions, the flowers are most exquisitely finished in every detail. The grand flowers are born almost invariably in "fours" upon stout stems of great length. Pkt., 15c.; oz., 50c.

Illuminator

2627—It might be described as a rich glowing cerise-salmon, with an indication of bright orange suffusion. The flowers are most perfectly formed, and well placed on long stout stems, frequently in "fours." Pkt., 15c.

This Great Collection of Superb Spencer Sweet Peas---Seven Liberal Packets for 25 Cents, postpaid

Astha Ohn Spencer

Finest lavender Spencer Sweet Pea grown. Comes remarkably true to type, producing the elegant, bold, wavy flowers in greatest profusion. **2584**—Pkt., 10c.

Captain of the Blues Spencer

Purplish maroon standard and bluish purple wings with veins of rosy purple make this exquisite sort one of the finest in our collection. The immense flowers are of true Spencer type, well waved and crinkled. **2620**—Pkt., 10c.

Othello Spencer

Deep velvety maroon. By far the finest of the dark-colored Spencers. Of very large size and beautiful form. **2623**—Pkt., 10c.

White Spencer

Without doubt the largest and most magnificent White Sweet Pea ever introduced. The vines are almost completely covered with mammoth flowers. The flowers are borne 3 to 4 on a stem and are of splendid substance. It is without a rival among White Sweet Peas. **2590**—Pkt., 10c.

King Edward Spencer

Undoubtedly the largest and best scarlet Sweet Pea to date. Each stem carries from 3 to 4 enormous flowers. Wings carmine-scarlet, reverse side rosy carmine. The beautiful blossoms are carried on long, stiff stems. **2583**—Pkt., 10c.

Countess Spencer

Of perfect form, remarkable size and exquisite color. The flowers are often 1½ to 2 inches in diameter, with both standard and wings charmingly waved and fluted. The coloring is an exquisite soft rose-pink, daintily tinted with silvery white. **2570**—Pkt., 10c.; oz., 25c.

Helen Lewis Spencer

This superb variety is a grand gigantic orchid-flowering seedling of Countess Spencer. The orange-rose wings roll and fold; the standard is reflexed and is of an intense rich crimson-orange. **2580**—Pkt., 10c.; oz., 25c.

Spencer Sweet Peas (Continued)

Blanche Ferry Spencer

The popular old "painted lady" pink and white Sweet Pea in magnificent new form. 2591—Pkt., 10c.; oz., 25c.

Mrs. Routzahn Spencer

May be described as buff or apricot, suffused with delicate pink which deepens to a rose near edges of wings and standard. Usually four to a stem. 2613—Pkt., 10c.; oz., 25c.

Senator Spencer

The combination of color in the flowers is charming—a deep claret or chocolate, striped and flaked on a ground of light heliotrope. Both standard and wings are extra large, wavy and drooping. Flowers are usually borne four to the stems. 2621—Pkt., 10c.; oz., 25c.

Dainty Spencer

White, with exquisite rose-pink edges. Of uniformly large size and elegant shape. 2615—Pkt., 10c.; oz., 25c.

Aurora Spencer

Very large and of true "Spencer" type. The ground color is creamy white, which is finely flaked and mottled with orange-salmon. 2622—Pkt., 10c.; oz., 25c.

Beatrice Spencer

White, tinted with soft pink and buff on standard, while the wings have prominent blotches, of a brighter pink near base. 2614—Pkt., 10c.; oz., 25c.

Primrose Spencer

Both standard and wings are of beautiful, soft Primrose or creamy yellow color. Flowers are very substantial and in a class of their own in both color and size. 2610—Pkt., 10c.; oz., 25c.

Spencer Seedlings Mixed

All of the best-named sorts, also many rare new hybrids in lavender, blue, striped, mottled, purple, maroon and many other shades are included in this superb mixture. All flowers are of extremely large size, typically frilled and waved, and very lovely. 2630—Pkt., 10c.; oz., 25c.

Eight Best Grandiflora or Large Flowering Varieties for Only 25 Cents Postpaid

The greatest bargain in "grandiflora" Sweet Peas on record. Full-sized packets, finest sorts, lowest price consistent with top-notch quality. Order to-day—before you forget where you saw this offer.

2467 Dorothy Eckford—An exceptionally fine white variety as popular as the new "Spencer" type on account of its beautiful hooded flowers, borne three and even four on very long stems, making it of exceptional value to the florist.

2530 Romolo Piazzani—A grand blue Sweet Pea. The color is almost a true violet-blue self; the standard is only slightly hooded; grand flowers.

2484 Blanche Ferry—The popular pink and white; always reliable.

2499 King Edward VII.—The largest and best bright crimson scarlet.

2474 Mrs. Collier—Flowers are extra large, coming in threes and fours on a long stiff stem and of a rich primrose tint, entirely free from any trace of pink. Richer in coloring than any other primrose variety. Can be described as a primrose Dorothy Eckford.

2488 Prima Donna—Lovely soft pink, hooded form, vigorous grower.

2505 America—Brightest blood-red striped, on white ground, superb.

2515 Lady Grisel Hamilton—Beautiful silvery lavender.

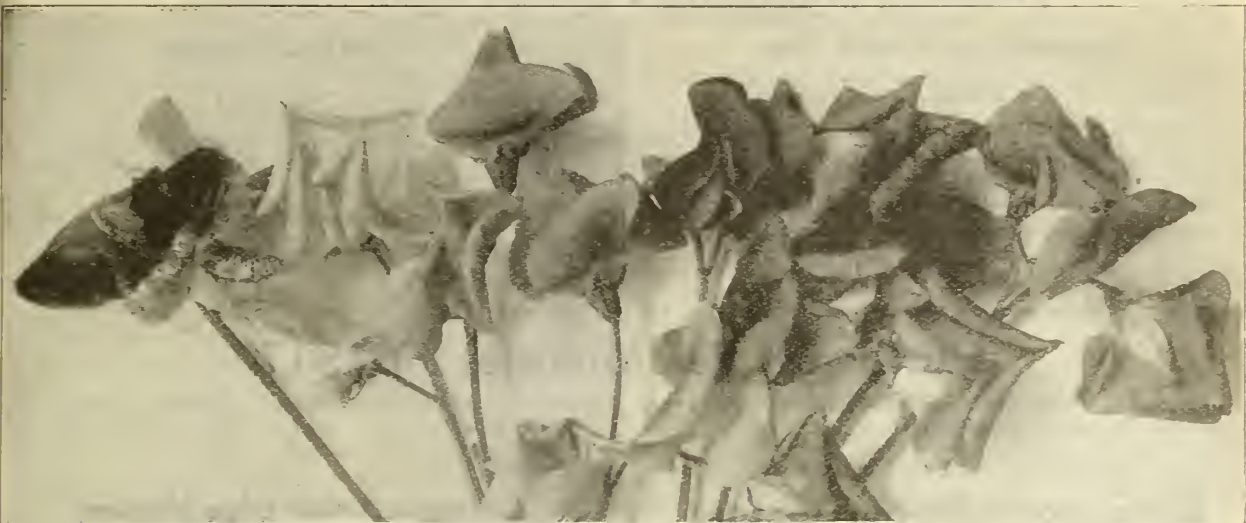
One packet each of the above Grand Sweet Peas, 25c.



King Edward Spencer



A Section of Our Sweet Pea Trials



Specimen Grandiflora Sweet Peas

All the Best Named Grandiflora Sweet Peas

The varieties listed below are the cream of all known sorts. Only those are included in our collection which produce flowers of the finest form and largest size. Every shade and color amongst Sweet Peas will be found. All inferior varieties have been discarded.

For the convenience of our customers we have arranged the varieties in tables according to color.

Prices for Any Sweet Peas Named Below

FREE—If requested with order, our pamphlet of cultural directions telling **How to Grow Perfect Sweet Peas**.

5c. per packet—enough for a single row 5 feet long.
Any six packets for 25c.

15c per oz.—enough for a single row 15 feet long.

40c. per 1/4 lb.—enough for a 60-foot row.

White

2466 **Blanche Burpee**—Large; pure white; fine form; grand flower.

2467 **Dorothy Eckford**—A grand white. The stems are extra long and stiff and usually carry three flowers of grand size, substance and form. (See illustration.)

2468 **Emily Henderson**—Large, pure white, profuse, early and continuous flowering.

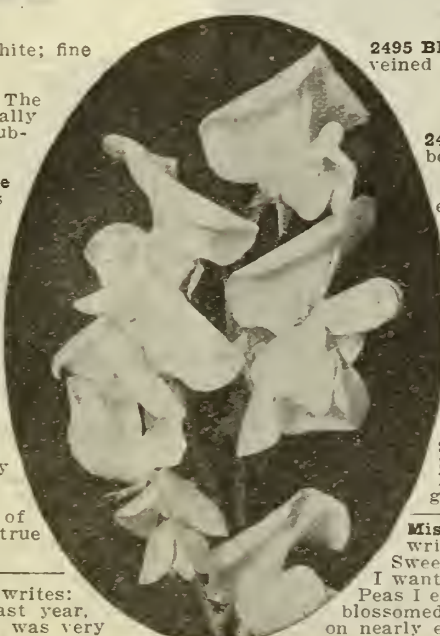
Creamy Yellow and Primrose

2473 **Hon Mrs. E. Kenyon**—The most desirable of all Primrose Sweet Peas. Grand, large flowers, splendid form.

2474 **Mrs. Collier**—Flowers are extra large, coming in threes and fours on a long, stiff stem and of a rich primrose tint, entirely free from any trace of pink. Richer in coloring than any other primrose variety. Can be described as a primrose. Dorothy Eckford.

2475 **Stella Morse**—Has a faint tinge of pink underlying the cream, producing a true apricot shade; beautiful for bunching.

Miss F. Holzhauser, Wood Co., Ohio, writes: "I had a most beautiful flower bed last year, the seeds coming from Livingston's. I was very much pleased."



Blush and Light Pink

2478 **Dainty**—Crystal-white, with pink flush, deepening to a pink edge.

2479 **Jennie Gordon**—Standard bright rose, shaded cream; wings creamy, suffused rose.

2480 **Lovely**—Soft shell pink; exquisite shade; large size.

Pink and White

2484 **Blanche Ferry**—The popular pink and white; always reliable.

Rose and Pink

2488 **Prima Donna**—Lovely soft pink; hooded form; vigorous grower.

2489 **Prince of Wales**—Very elegant rich carmine rose; a grand flower.

Maroon and Claret

2495 **Black Knight**—A very rich, dark maroon, veined black; the darkest of all.

Red and Scarlet

2499 **King Edward VII.**—The largest and best bright crimson-scarlet.

2501 **Salopian**—Rich, deep crimson-red; enormous flower; elegant sort.

2500 **Queen Alexandra**—An intense scarlet sort, with bold expanded flowers of finest form. It is very free flowering, with long, strong stems. The flowers do not burn in the sun.

Blue and Purple

2529 **David E. Williamson**—This new variety is brightly effective. The large standard is of a rich indigo-blue, the wings are lighter in shade.

2530 **Romolo Piazzani**—A grand blue Sweet Pea. Color is almost a true violet-blue; standard slightly hooded; grand flowers

Miss J. C. Burgen, Erie Co., N. Y., writes: "Regarding a small sample of Sweet Peas which you sent me this Spring, I want to say they are the handsomest Sweet Peas I ever saw. The red, white and pink ones blossomed nearly all double with three flowers on nearly every stem. No one has anything like them that I have ever seen."

Named Grandiflora Sweet Peas (Continued)

Lavender and Light Blue

2513 **Admiration**—A grand large flower of beautiful form, self-colored in a delicate shade of rosy lavender.

2514 **Flora Norton**—A very beautiful rich lavender, entirely free from any mauve or pinkish tinge. The flowers are large and of fine form; one of the most delicate and pleasing shades for florists' use as a cut flower.

2515 **Lady Grisel Hamilton**—Beautiful silvery lavender.

2516 **Mrs. Walter Wright**—This new giant-flowering variety is a beautiful shade of mauve, clear and bright, with wings of a bright coerulean blue, shaded slightly with mauve.

PRICE—Any of above-named Sweet Peas, pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.

Orange and Salmon

2522 **Henry Eckford**—The nearest approach to an orange-yellow in Sweet Peas; a beautiful color. Medium large and open form.

2523 **Miss Wilmott**—Enormous bold, upright flowers on stout stems. Wings and standard are of richest orange-pink, delicately shaded rose.

Striped and Variegated

2505 **America**—Brightest blood-red striped white.

2506 **Aurora**—Orange-salmon, flaked and striped white.

Our Sweet Pea Mixtures for 1917

Most people like as big a variety of Sweet Peas as they can get. To buy a dozen separate packets and mix them would be far more expensive than to buy an ounce of our Special Mixture, and even then the packets would not contain nearly the assortment of colors found in this mixture. We make up these mixtures ourselves, using the best and most popular sorts in pleasing proportion as to colors and shades.

Livingston's Special Mixture

This superb mixture is our special pride. During the several years we have sold it, it has been our constant aim to improve and perfect it. The different kinds and sorts contained in this mixture are grown separately, so that we have an opportunity to choose only the largest and most beautiful varieties. These we mix ourselves in proper proportions for the most brilliant effect. It embraces the finest American and Eckford varieties, as well as the latest novelties, and will produce a great abundance of giant flowers of beautiful colors. Some are edged, mottled, blended, flaked and striped. Without exception, this is the very finest mixture it is possible to make. We recommend that our customers buy these seeds by weight and plant liberally.

2540 **Special Mixture**—Large pkt., 10c.; oz., 25c.; $\frac{1}{4}$ lb., 60c.

Livingston's Gilt Edge Mixture

This is a very superior mixture, made up of over 50 of the finest named varieties; all bright colors.

2542 **Gilt Edge Mixture**—Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.

Fine Mixed

This mixture, for the price, will be found very satisfactory. It contains a great variety of choice colors and shades.

2543 **Fine Mixed**—Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 25c.

Sweet Pea "Nitroculture" adds to the size of the bloom and to the length of stem. In ordering be sure to mention Sweet Pea Nitroculture as there are other kinds. For full particulars, see Page 60.

Sweet William

(*Dianthus Barbatus*)

A very beautiful class of easily grown and very beautiful plants of extreme richness and diversity of colors, deliciously sweet scented. For cut flowers they are not surpassed. Hardy biennial. Height 1 to 1 $\frac{1}{2}$ feet.

Holborn Glory

This strain is a large-flowered selection of the Auricula-Eyed section, but most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, and the range of color, all showing a clear, white eye, is superb. 2640—Pkt., 10c.

Sutton's Scarlet

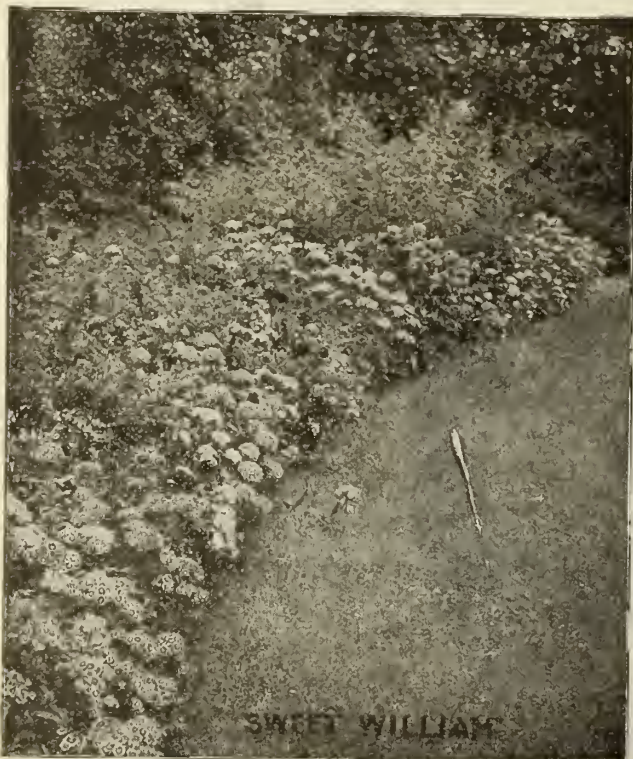
The color of this variety is an intense scarlet similar to a Grenadin Carnation. 2649—Pkt., 15c.

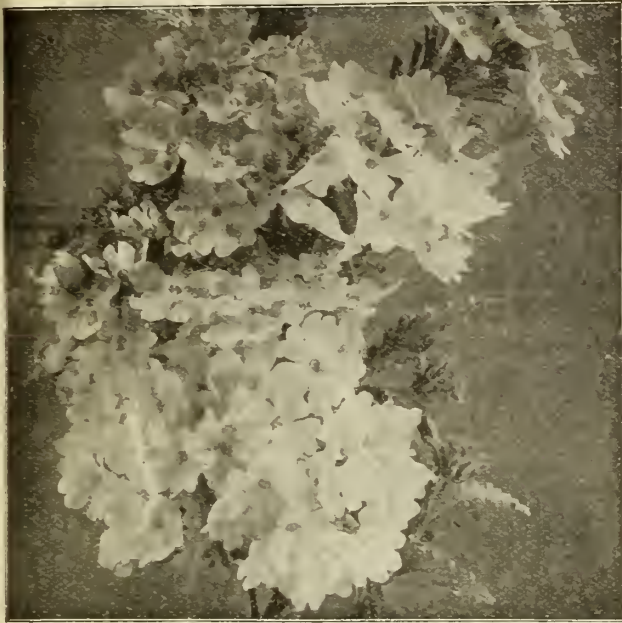
2643 **Double Mixed**—This mixture you will find of very superior quality; containing all colors and shades. Pkt., 5c.; $\frac{1}{4}$ oz., 20c.

2646 **Single Mixed**—A very choice assortment of all the best single-flowering varieties. Pkt., 5c.; $\frac{1}{4}$ oz., 15c.

2648 **Double and Single Mixed**—This mixture is made by blending the double and single-flowering varieties. Pkt., 5c.; $\frac{1}{4}$ oz., 15c.; oz., 50c.

Mrs. H. N. Chapman, Shelby Co., Ohio, writes: "I have used the Livingston seeds for four years and I would be afraid to use any other now. I used to have very poor gardens, but now I raise as fine stuff as any one for miles around, so I find it is in the seed, not in the person. I will try to get as many friends to send when I send as I can."





Livingston's Mammoth Verbena. Pkt., 10c.

Thunbergia

Rapid-growing Annual Climber, with pretty buff, white and orange flowers of various shades, with a dark center or eye. Adapted for vases, hanging baskets, trellises, etc. **2654 Mixed**—Pkt., 5c.

Valeriana

(Hardy Garden Heliotrope)—Showy plants; grow in any garden soil; do well in the shade. Hardy perennial; grows 2 feet high and blooms the first season from seed. Fine for bouquets. Bright rose, red and white varieties. **2658 Mixed**—Pkt., 5c.

Vinca

(Periwinkle)—Free-flowering, bushy plants, with glossy foliage and beautiful circular flowers. In sunny situations they bloom all Summer; if potted before frost, will bloom in Winter; very easily grown, blooming profusely the first season from seed. A very fine mixture of all colors. Half-hardy perennials. 1½ feet high. **2680 Mixed**—Pkt., 5c.

Wild Cucumber

(Echinocystis)—rapid-growing annual climber. Has beautiful leaf and pretty fragrant white flowers. **2695**—Pkt., 5c.; ½ oz., 10c.; oz., 15c.

Xeranthemum

(Everlasting Flowers)—Very desirable. Easy to grow. Leaves covered with silvery down. Hardy annual. 2 feet. A very fine mixture of colors. **2697 Mixed**—Pkt., 5c.

Mr. C. J. Riebe, Trumbull County, Ohio, writes, February 7th, 1916: "We have always had good success from your seeds. Could get cheaper seed nearer home, but found out last year that they are not as good. My Little Marvel Peas were several days earlier than any peas in the neighborhood. I bought one ounce of your Special Sweet Pea Mixture and they were grand. I supplied the neighborhood with bouquets. Some days we picked over 2,000 blossoms. Took first premium at the County Fair on Pompon Zinnias, and took first on several vegetables and Prize-taker Onions."

Livingston's Mammoth Verbenas

If it were possible, it would seem to us that Verbenas are becoming more popular every year. The plants thrive in any good garden soil, and if grown from seed are much more vigorous than if started from cuttings. Verbenas will flower perfectly from seeds. Height 1 to 1½ feet.

2675 Helen Willmott—This new variety is a distinct color in Verbenas, being a bright salmon rose with a white eye. Pkt., 15c.

2662 Mammoth Defiance—Bright, rich scarlet; small leaves. Pkt., 10c.

2663 Mammoth Blue Varieties—Showy, distinctive; fine for edgings. Pkt., 10c.

2665 Mammoth Pink Shades—Many very brilliant shades of pink. Pkt., 10c.

2664 Mammoth Striped Varieties—Beautiful; a rich collection. Pkt., 10c.

2666 Mammoth Pure White—Large trusses of purest white flowers. Pkt., 10c.

2668 Mammoth Purple—Deep royal purple. Pkt., 10c.

Collection, one each of above 7 Mammoth Verbenas, 50c.

2670 Livingston's Mammoth Mixed Verbenas—Our strain of these elegant mammoth-flowering Verbenas will make beds and borders in the garden of the greatest brilliancy. These are our best Verbenas, and for enormous flowers of rich and superb colors are unsurpassed. (See illustration.) They bloom most profusely. Our mixture contains every desirable color and shade. Pkt., 10c.; ¼ oz., 25c.; ½ oz., 40c.; oz., \$1.00.

2672 Fine Mixed—A very satisfactory assortment, containing many fine colors and shades. Pkt., 5c.; ¼ oz., 15c.; ½ oz., 25c.; oz., 75c.

Violet

(Viola Odorata)—Sweet-scented Violets are easily grown from seeds; and if you can plant them in a cool and moist situation, so much the better. All varieties are of great beauty.

2682 Sweet Scented—Old-fashioned Blue Violet. Pkt., 10c.

2684 The Czar—Largest flowering deep blue. Pkt., 10c.

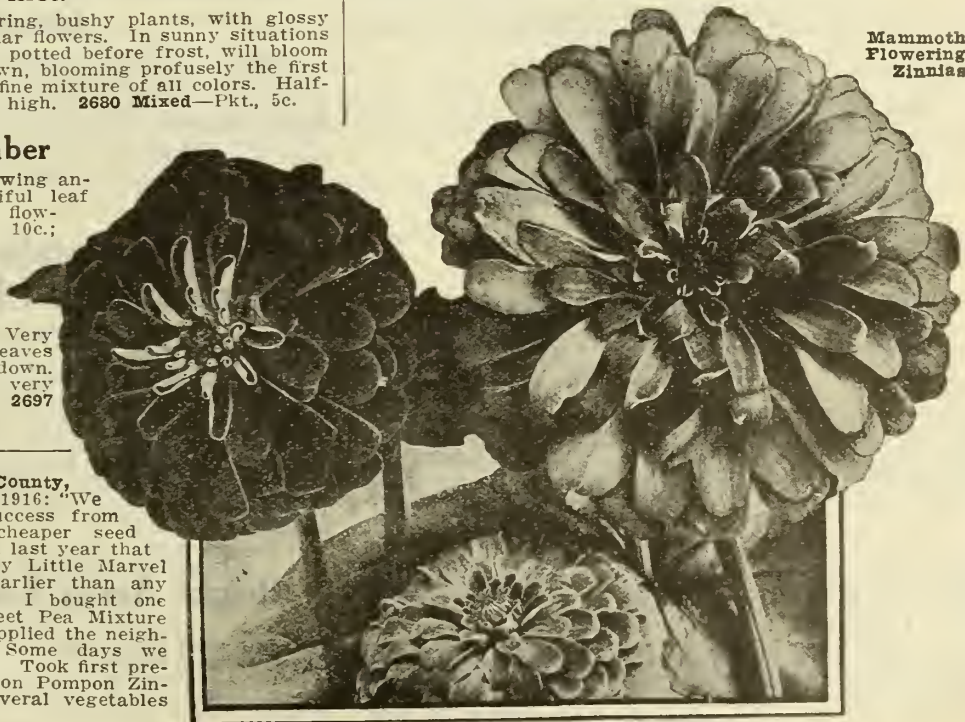
2686 Finest Mixed—Blue and white sorts. Pkt., 10c.

Wallflower

Well-known and deliciously fragrant half-hardy biennial; the large spikes of bloom are of most beautiful colors. Height 1½ feet.

2690 Large-Flowering Single Mixed—Pkt., 5c.

2692 Large-Flowering Double Mixed—Pkt., 10c.



Mammoth Flowering Zinnias



Double Pompon Zinnias. Pkt., 5c.

Striped, or Zebra

A very pretty strain with striped flowers. Colors vary on each plant; presents a beautiful and curious appearance. 2721—Pkt., 5c.

Curled or Crested

A fine strain, with large double flowers of perfect form; petals twisted, curled and crested into fantastic and graceful forms. 2723—Pkt., 5c.; ¼ oz., 25c.

Tom Thumb, or Double Miniature

Charming, perfectly double, small-flowering class; 10 inches high; bloom profusely. Fine for borders. 2725 Mixed Colors—Pkt., 5c.

Have You a Hardy Garden?

So much interest is being displayed in the hardy perennial flowers at the present time that a few words here regarding them may not be amiss. You will find throughout our List Seeds of many of the most popular sorts. Perennials are not difficult to grow, but most of the varieties are slower in starting than the annuals, so that care should be taken that the ground does not dry out. The ideal place to start them is in a cold frame, where the soil can be kept constantly moist, and when the young plants appear they can be protected from heavy rains. Some varieties bloom the first year from seed if they are sown early, but it is not until the second year that you get the best results, and from that on for several years these beautiful plants increase in value, affording color in the garden at a season when few, if any, annuals are blooming, and at the same time furnishing fine material for house decoration, as most of these varieties are excellent as cut flowers. Coreopsis Lanceolata, Gaillardia Grandiflora, Shasta Daisy, and a few others are not reliable unless they are divided and reset in the early Fall after flowering, but such varieties as Delphinium or English Larkspur, Pyrethrum Hybridum, Oriental Poppy, Columbine and Sweet William may be depended upon for years. It is so much cheaper to grow them than to buy the plants.

Livingston's Superior Zinnias

One of our most stately and showy border plants; a strong grower, and therefore succeeds well, even if the ground is not very rich. Excellent for cut flowers, and continuously in bloom. Height 1 to 3 feet.

Livingston's Mammoth Flowering Prize Zinnias

These splendid large-flowering Zinnias (see illustration on page 116) represent the very highest perfection in this flower, and for perfect doubleness, mammoth size, as well as the wonderful variety of colors and shades, are unsurpassed by any strain in cultivation. We offer the following splendid separate colors and our elegant mixture.

2700 Mammoth Crimson	2704 Mammoth Pure White
2701 Mammoth Dark Purple	2705 Mammoth Rose-Pink
2702 Mammoth Flesh-Pink	2706 Mammoth Golden Yellow
2703 Mammoth Lilac	2707 Mammoth Scarlet

Above 8 sorts, each 5c. per packet; ¼ oz., 25c.; oz., 75c.

2710 Livingston's Mammoth Flowering Prize Mixture—A gorgeous mixture containing many new and rich hues. Pkt., 5c.; ¼ oz., 20c.; oz., 60c.

Double Pompon

(See illustration.)—These Zinnias grow 2 feet high and are sturdy and bushy. They are also sometimes called "Lilliput," on account of their beautiful little flowers, which are very double and cone-shaped. 2727 All Colors Mixed—Pkt., 5c.

Improved Dwarf Zinnias

This strain, not growing quite so high as Livingston's Prize Zinnias, is especially desirable for borders, edgings and small beds. The individual flowers are equally large. 2714 Improved Dwarf Mixture—Pkt., 5c.; ¼ oz., 20c.; oz., 60c.

New Double Fringed

A very fine new type. The petals of the perfectly formed double flowers are more or less deeply cut or fringed, giving them a more graceful appearance than the usual form. The plants are of compact habit, about 30 inches high, and have all the free-flowering merits of the family. We offer three separate colors:

2717 White. 2718 Deep Carmine. 2719 Bright Rose.

Each, packet, 10c.

Collection—A packet of each of the 3 Double Fringed Zinnias, 25c.

Wild Flower Garden, or Children's Garden

Especially adapted for producing a display in large borders, or sowing along woodland walks, railroad embankments, for hiding an unsightly fence, stump, etc. Nothing in the way of flowers delights children more than this **WILD GARDEN**, chiefly because they can be allowed to pick their own bouquets without stint. Sow in drills 2 feet apart, or even broadcast. Cover lightly and keep the soil from drying out until started. 2740 Our Extra Choice Mixture—Large pkt., 10c.; ½ oz., 15c.; oz., 25c. Ask for Special Price by the Pound.

Livingston's Rainbow Collection of Choice Annual Flowers, 50c.

Consists of **One Full Sized Packet** Each of the following grand annuals, and is sent free by mail for **Fifty Cents**. At regular prices it would cost you \$1.00.

Asters, Semple's Giant Branching, Mixed; Bachelor's Buttons, Giant Flowering Imperialis; Candytuft, Mixed Colors; Cosmos, Mammoth Perfection Mixed; Dianthus Pinks; Margolds, French; Mignonette, Sweet; Nasturtium; Giant Pansy, Mixture; Petunia, Blotched and Striped; Phlox, Livingston's Special Mixed; Poppies, Livingston's Giant Double Mixture; Portulaca, Mixed; Scabiosa, Livingston's Large Flowering Mixed; Sweet Alyssum; Antirrhinum, New Giant Flowering; Sweet Peas, Gilt Edge Mixture; Zinnia, Livingston's Prize Mixture.

18 packets for only 50 cents.

Bright Array Collection, 25c.

A most brilliant flower garden for a very little money. **One full sized packet** each of the following 8 "Easy to Grow" Flowers for 25c.:

Sweet Alyssum; Asters, Peony-Flowered Perfection; Candytuft, Mixed Annual Sorts; Nasturtiums, Tall Climbing; Pansies, Giant Trimardeau; Phlox Drummondii; Sweet Peas, Gilt Edge Mixture; Zinnias, Prize Mixture.

Caladium

Plants attain a height of from 4 to 6 feet, the leaves being veined with different shades of green; when massed alone or with Cannas, they produce a striking and beautiful effect. They are of easy culture, and will grow in almost any garden soil, but if especially large plants are wanted they should be planted in a well-enriched soil and given water in abundance throughout the season. The bulbs may be kept over Winter by taking up in the Fall when frost kills the foliage; leave some soil on the roots, dry gradually in an airy, shady place for several days, then pack in a shallow box in a dry sand or soil, store in a dry cellar where it does not freeze.

CALADIUM PRICES

(By Mail, Postpaid)

Owing to the smaller sizes of Caladiums proving unsatisfactory, we have discontinued the stock.

9 to 11 inches in circumference. Each, 20c.; 5 for \$1.00.
10 to 12 inches in circumference. Each, 35c.; 5 for \$1.75.
12 to 14 inches in circumference. Each, 50c.; 5 for \$2.50.

(By Express, Not Prepaid)

9 to 11 inches in circumference, 10 for \$2.50; 25 for \$5.75.
10 to 12 inches in circumference, 10 for \$3.75; 25 for \$8.50.
12 to 14 inches in circumference, 10 for \$4.50; 25 for \$10.00.

Cinnamon Vine

Perfectly hardy. Attains a height of from 15 to 25 feet. Brilliant glossy foliage and an abundance of fragrant flowers. Each, 5c.; 6 for 25c.; doz., 40c., postpaid.

Madeira Vine (Climbing Mignonette)

Rapid-growing vine; easy to grow; light green leaves; bears small, white, feathery, fragrant flowers; free from insect pests of all kinds. Each, 5c.; 6 for 25c.; doz., 40c.; 100, \$2.25, postpaid.



Tube Roses

One of the most delightfully fragrant and beautiful Summer-flowering bulbs. Its waxy-white flowers are the sweetest-scented that grow. The growing plant is fond of light and heat and should not be planted outside before May 1.

Our Tuberoses are grown and cured with the greatest possible care, and all are flowering size. For large, perfect flowers we recommend the larger sizes.

Double Dwarf Pearl Tuberoses—Flowers, large size and very double. Extra size bulbs, by mail, postpaid, each, 7c.; 4 for 25c.; doz., 65c. By express, not prepaid, doz., 50c.; 100 for \$3.00. First size bulbs, by mail, postpaid, 3 for 10c.; 6 for 15c.; doz., 25c. By express, not prepaid, doz., 20c.; 25 for 35c.; 50 for 60c.; 100 for \$1.00.

Livingston's Superb Cannas

The Canna is one of the most beautiful of all Bedding Plants

No other plant is better adapted to this country, and nothing which costs so little excels them for masses and beautiful foliage, as well as abundance of dazzling bloom in many shades.

Plant outdoors about the middle of May, if the weather is warm and settled, eighteen inches apart. We send out plants only, as we find they give better satisfaction than the dormant roots. We send free on application an illustrated leaflet on the cultivation and care of Cannas.

At the single and dozen prices we forward Cannas postpaid. If you need large quantities of Cannas, ask for special quotations.

New Canna Firebird

The Best Red-Flowered, Green-Leaved Canna

Claimed by many to be the very best red-flowered, green-leaved Canna today. The flowers are borne in immense trusses, on tall stalks well above the leaves. They are of splendid form, round and shapely. The petals measure 2½ inches and over across, and the color is a clear, glistening scarlet without any streaks, spots or blotches. We have tested many varieties during the past 30 years and have never seen one that surpassed it. Each, 35c.; doz., \$3.50.

Gustave Gompper Canna

Finest Golden Yellow

A splendid variety having golden-yellow flowers of large size and great substance. The lower petals are splashed with carmine. Grows to a height of 3¼ to 4 feet; with stiff, erect stems and immense flower spikes. Each, 20c.; doz., \$2.00.

Ehrenfels

This new Canna is of German introduction and is noted for its healthy, vigorous growth. The flowers are of good size, of splendid, rich orange color, formed into large trusses which are held well above the metallic bronze foliage; 4½ feet. Each, 35c.; doz., \$3.50.

Kate F. Deemer

Very peculiar sort in that the flowers, when opening, are of a rich shade of yellow; changing, as they unfold, to a beautiful red at the throat, while the rest of the flower becomes almost white. Very interesting and attractive. 5 feet. Each, 20c.; doz., \$2.00.

King Humbert

This is certainly the King of all bronze-leaved Cannas. It produces giant flowers of a brilliant orange-scarlet and these combined with its beautiful bronze foliage have made this variety the sensation of the past few years. It is a hybrid of the Orchid-flowering and French or Crozy type, and has all the merits of both. Either as specimen plants or in beds this beautiful variety shows its superiority over all other kinds, and we hope all our customers will order some plants of King Humbert, knowing that in so doing they will be getting the best bronze-leaved variety on the market today. Each, 15c.; doz., \$1.50.



Giant Flowering Canna, Burbank

Burbank

Green foliage. The flowers are gigantic in size. Toward the inner part the petals show fine crimson spots; all the rest of the flower is of a rich canary-yellow. 5 feet.

Souvenir d'Antoine Crozy

Large full spikes; rich crimson flowers, bordered with golden yellow. The colors are intense, giving a very striking and ornamental effect. 3 to 4 feet.

Dr. Budingen

One of the most brilliant scarlets, both the individual flowers and the trusses being of large size; bronze foliage. 4 feet.

Madame Crozy

Bright scarlet, gold border to each petal. Foliage green. A well known and popular variety. 3½ feet.

Florence Vaughan

Large yellow flowers, dotted with bright red. Very broad, bright green leaves. It still remains one of the most popular as well as one of the best types of yellow Cannas. 5 feet.

Cannas---Continued

Mlle. Berat

This is a very free-flowering variety, and perhaps represents the nearest approach to a true pink. On account of its luxuriant growth, this Canna lends itself most effectively to massing and to background work. Height about 5 feet.

Wintzer's Meteor

The almost solid mass of deep, dazzling crimson bloom produced is spectacular. One of the best red Canna on the market and a magnificent bedding variety. Five feet. Each, 25c.; doz., \$2.50.

Mont Blanc

This variety is almost pure white. Has large, handsome green foliage. Blooms on strong stems well above the foliage. 3½ feet.

Charles Henderson

A fine crimson bedding variety growing to about four feet in height. Each, 15c.; doz., \$1.50.

President Myers

Fine large flowers of a rich shade of cherry-carmine; foliage distinctly bronze in color. The plant is of a sturdy, robust growth, attaining a height of about 5 feet.

Professor Romberg

A brilliant rich, fiery red, flowers of medium size in large trusses held well above the bronzy foliage; 3½ to 4 feet. 20c. each; \$2.00 per doz.

Queen Charlotte

Rich crimson-scarlet with wide gold border on every petal; a profuse bloomer; broad green leaves. 3½ feet.

Richard Wallace

A pleasing canary yellow with exceptionally large flowers, which are carried well above the foliage; one of the best yellow bedders. 4½ feet.

Rubin

Flowers ruby carmine; very rich and glowing; foliage dark bronzy green; great bedding sort. While the flowers of this variety are not large, they are produced in profusion and are intensely rich and glowing, and, combined with the dark foliage, make it one of the best bedding varieties. 3 feet.

Loveliness

A bright, ruby-red bloom, with large, erect heads on strong stems. Flowers of perfect form and substance. 3 feet. Each, 20c.; doz., \$2.00.

Duke of Marlborough

One of the finest of the very deep crimsons; fine individual blooms in large trusses, and exceptionally free-flowering and attractive. 4 feet.

Venus

Vigorous growing sort with erect stems and magnificent trusses of large size and perfect form. Petals are oval, exquisitely colored and variegated; warm rose pink, mottled near center with creamy white edges. A superb variety.

Wyoming

Purple foliage, giant orchid-flowered orange colored, large round petals. This is a particularly useful and attractive bedding variety, its richly colored foliage serving to admirably set off the striking shades of its massive spikes of flowers. It is a very free bloomer and we can not too strongly recommend it. 6 feet.

PRICE—Any of the above, except as noted, 15c each; \$1.50 per doz.

Dahlias

The Dahlia is one of the easiest of all flowers to cultivate. Deep and thorough stirring of the soil during the early growth of the plant is indispensable, but later in the season frequent surface cultivation only should be given. Plant in an open, sunny situation, at least where the sun reaches them the greater portion of the day. It is a rank feeder and should have well enriched soil; keep free from grass and weeds. Water regularly in dry weather. Plant the bulbs five inches below the surface of the ground, laying the bulb on its side. Don't stand on end with the crown out. Do not plant until the ground has become warm.

Three New Peony Flowered Dahlias

This is the newest type of Dahlias and is remarkable for the large size of its flowers and its vigorous growth. It is fine in the garden or for cut flowers.

Chantenay. In color it resembles the Chantenay rose. Its blooms are held erect on good stiff stems. Greatly admired because of its beautiful shade of golden yellow in the center. Of Holland introduction and was awarded First-Class Certificate at Amsterdam. Price, 75c. each.

Geisha. One of the showiest and most attractive of the Peony flowered type yet introduced. The rich scarlet and gold flowers consist of peculiarly twisted and curled petals, combining in the most effective way their gorgeous pigments. Price, 50c. each.

Hortulanus Fiet. A variety supporting blooms over eight inches in diameter of the most delicate shade of shrimp pink, the tip of each petal barely touched with gold. The entire flower is suffused with soft tints of red and yellow. Price, \$1.00 each.

Collection, one each of the above three varieties, \$2.00.

Standard Peony Flowered Dahlias

Germania. Glowing crimson.

Glorie of Baarn. Soft pink.

Mrs. Jacques Furelle. An exquisite lemon yellow heavily splashed scarlet.

Queen Wilhelmina. Immense fluffy flowers; pure white. A remarkably chaste and beautiful flower.

Souv. Franz Liszt. A dark purple maroon, veined with white. The blooms are very large and stems long.

Any of the above, 25c. each. Collection, one of each, \$1.00.

Century or Single Dahlias

Strong growers and produce immense flowers on long stems, making them of exceptional value for house decoration.

Twentieth Century. Early in the season it is an intense rosy crimson shading to white at the tips of the petals.

Aubright Beauty. A pure waxy white variety. 25c. each.

Blanche. The flowers are large and very attractive, being a pale yellow at the base, faintly tipped pink, with a cast of pure white over the whole flower, making it one of the most delicate varieties to date.

Glowing Gem. A splendid flower, with perfectly gorgeous coloring, being rich, deep crimson. 25c. each.

Lysander. Crimson, striped maroon. Large.

Mildred. One of the most charming of the Single type. The color is a bright, clear yellow and exceptionally showy. 25c. each.

Rose Pink Century. A great improvement over Pink Century. A wonderfully vigorous grower, producing immense flowers on 3-foot stems, making them fine for cutting.

20c. each, \$2.00 per doz. except where noted. Collection, one of each, \$1.00.

Dahlias in Separate Colors

These are named varieties of a very high grade, many of which we have too few of to catalog them separately. We offer them in shades of crimson, pink, yellow, variegated and white. 15c. each postpaid. 10c. each; \$1.00 per doz.; \$7.50 per 100, by express, purchaser paying charges.



Peony Flowered Dahlia—Souv. Franz Liszt

Pompon Dahlias

These are a miniature form of the Show Dahlias, having the same round, ball-like form, but being much smaller. The plants are also much smaller, but no type produces as many flowers. We offer several of the most distinct.

Fairy Queen. Sulphur, edged pink. Free flowering.

May Cliff. Bright purple.

Prince Charming. Cream, heavily tipped purple.

Raphael. Dark maroon with quilled petals.

Snowclad. A snowy white and remarkably free bloomer.

Sunbeam. Crimson scarlet; extra fine form.

Any of above, 15c. each; \$1.50 per doz.

Collection, one of each, 75c.

Mrs. Thomas Taylor, Clermont County, Ohio, writes, March 27th, 1916: "I must compliment you on the Dahlia I got from you last season."

Decorative Dahlias

The blossoms of the Decorative Dahlias are large, flat but beautiful in shape, and full to the center; the petals are somewhat irregularly situated, long, broad, flat, and nearly straight.

The Choicest New Decoratives and Selected Old Favorites

Beaute Lyonnaise. A novel Fancy Decorative of French origin. White, tinted and edged scarlet, tipped white. Occasionally a solid red flower on same plant. Dwarf growing plants. 20c. each.

Delice. The brightest pink decorative Dahlia in existence. Flowers are of good size, standing well above the foliage. A charming bright pink, suffused lavender-pink. One of the best-known cut-flower varieties. 25c. each.

Grand Duke Alexis. White edged with lavender; very pretty and a satisfactory grower. 20c. each.

J. M. Goodrich. Gigantic new Decorative seedling. It has size and beauty, exceptionally long stems, and is free-flowering. The coloring is entirely new, and wins instant favor. A beautiful salmon-pink, each petal effectively tipped primrose yellow. 75c. each.

Le Grand Manitou. The flowers are renowned for their excellent qualities, being beautiful in color, perfect in form, grand in appearance, and of immense size. The color of this superb variety is pure white artistically striped, splashed and blotched deep violet-purple. The plants occasionally bear a solid purple-colored flower. 35c. each.

Mme. V. Dael. An immense flower which is proving a favorite with all and is entitled to first place among the lighter colors, being a shell pink. Very large, and the stems are long and wiry. A choice variety. 25c. each.

Mme. Victor Vassier. The grandest, clear, sulphur-yellow Decorative to date. 35c. each.

Mina Burgle. This new introduction is one of the finest varieties to date; flowers of gigantic size, and remarkable beauty. In color, a glowing and most brilliant scarlet. The flowers are borne upon long, wiry stems, well above the foliage. See Specialty pages. 50c. each.

Minos. The flowers are very large, and exceedingly beautiful, borne on long, graceful, wiry stems. The color is intense velvety maroon, almost black. An ideal cut-flower variety. Fine for all uses. 20c. each.

Pearl de Lyon. A pure white exhibition variety of great value. The petals are fringed or niched, giving a unique appearance. 25c. each.

Peerless. A very odd fancy Decorative variety; golden yellow, striped, splashed and dotted bright crimson. 25c. each.

Zeppelin (New Holland Decorative Dahlia). The incomparable delicacy and richness of this most interesting variety has excited great comment. The coloring is the most beautiful a lovely shade of mauve; a very fascinating color. The perfection in form of this variety is one of its greatest features. Award of Merit. 50c. each.

Collection, one each of above 12 sorts, \$3.00

Three Select Decorative Dahlias

Elsie Davidson. A giant-flowering deep golden-yellow, producing its blossoms upon strong stems. 20c. each, \$2 per doz.

Jeanne Charnet. One of the most beautiful Dahlias ever produced. A seedling from "Mme. Van den Deal." In color it is a most exquisite shade of lilac-pink, daintily shading to pure white towards the center, with a tinge of light yellow at the margins. At first sight this beautiful flower appears to be a charming lavender-pink. A model of perfection. 25c. each.

Souvenir de Gustave Doazon. The color is a pleasing shade of orange-red. The flowers are full to the center, and often measure 9 inches and over in diameter, and they can be forced to measure over 12 inches. The plant is a very tall, vigorous grower, with heavy, dark, glossy green foliage, and a remarkable constitution. Very long stems, of pleasing, stiff, upright type. "Souv. de Gustave Doazon" should be in every Dahlia lover's garden. 25c. each.

Collection, one of each, 50c.

Best Standard Decorative Varieties

Blue Oban. A soft lavender, nearest to blue in Dahlias.

Catherine Duer. A bright crimson scarlet; very fine and wonderfully popular in the East.

Clifford W. Bruton. A standard yellow variety; large and perfect.

Frederick Spittel. Vermilion-scarlet, often tipped white.

John B. Baldwin. A splendid variety. Color, a beautiful salmon-red.

Oban. Delicate and attractive shade of mauve. Extra fine form.

Prince of Orange. A novel combination of orange and yellow shades.

Sylvia. Deep pink, of large, perfect form on long, stiff stems. One of the best for the garden or for cutting.

Wilhelm Miller. Very brilliant purple. This is a fine variety of the Decorative type.

15c. each, \$1.50 per doz. Collection, one of each, \$1.00

Giant-Flowering or Colossal Dahlias

Colossal fully portrays the idea—gigantic flowers of great depth, massive in proportions, and globular in shape; petals are cup-shaped, and placed in exact regularity. Plants are strong, sturdy and robust.

American Beauty. The flowers are of gigantic size and produced on long, heavy stems, well above the foliage. The color of this acquisition is a gorgeous wine-crimson. "American Beauty" is the best of its color in existence, and can be highly recommended. 25c. each.

Dreer's White. An excellent Dahlia for garden effect and hedges; plants are very strong and vigorous, making ideal bushy specimens, averaging 3 feet in height. In color, a pure, glistening white, and in form resembling the popular "Grand Duke Alexis." 25c. each.

Beggie. A Colossal Dahlia, of beautiful cherry-red color. A variety that will give the very best of satisfaction, producing flowers upon long stems. 25c. each.

Rose. A remarkable Dahlia of decided formation. Color, an exceptionally deep rose shade. Flowers carried erect upon extra long stems. Exceedingly free-flowering. 25c. ea.

Yellow Colosse. An ideal Dahlia that appeals to everyone on account of its distinct color, gigantic size and beautiful appearance. Large, showy flowers of pure primrose-yellow are produced very freely on long, graceful stems. 25c. each.

Collection, one of each, \$1.00. Five of the finest Dahlias Grown.



Show Dahlia

Show Dahlias

The "Show" Dahlias are of ball shape with full, round, regular form and cupped or quilled petals.

A. D. Livoni. A standard variety and a beautiful rose-pink; great bloomer and fine in every way.

Alice Emily. Orange-yellow. Large and fine.

Florence Trenter. Blush white, edged rose-purple.

Geo. Barnes. A Fancy Dahlia of refined form; lilac, striped crimson.

Mariner. Yellow ground, with rich, crimson edges and dark center.

Mrs. Dexter. Salmon.

Purple Gem. Deep purple, distinct.

Queen Victoria, or Mary D. Hallock. Canary-yellow.

Robert Bloomfield. Pure white. Tall grower.

Thelma. Purplish-maroon. Large, full flower.

Wm. Neats. Soft, reddish-fawn.

Above sorts, 15c. each; \$1.50 per dozen, postpaid.

Show Dahlias of Special Merit

Mme. Alfred Mareau. This is the finest pink Show Dahlia in existence. Large.

Merlin. A beautiful orange-scarlet. One of the very finest Dahlias ever offered. Free-flowering and good for cut-flower purposes.

Monsieur Burrel. Beautiful pure violet. 35c. each.

Muriel. A very satisfactory cut-flower variety. The flowers are of good size, and produced upon stems of remarkable length, and in color a most charming shade of orange.

Norma. A Dahlia that should be grown by all flower-lovers. Large, perfectly quilled, and of a most

20c. each, \$2 per doz., except as noted. Collection, one of each, \$1.50.

exquisite shade of live, bright orange. The blossoms are produced in remarkable profusion.

Rosebud. The flowers are of perfect form and large size. Plants dwarf and bushy, producing their flowers in great profusion. The color being white, effectively edged rose-pink. Flowers unusually full and round. 25c. each.

Storm King. The most reliable white Show Dahlia to date. In color, a pure white. Flowers produced on good stems, well above the foliage.

Stradella. Beautiful deep purple-crimson. Exceptionally free-flowering. Stems long and wiry. One of the finest to date.

Cactus Dahlias

This type has become wonderfully popular of late years. We have endeavored to list some of the most meritorious of the new varieties and the best of the Standard kinds.

Brightness. Bright, fiery scarlet, with a blending of golden yellow at the center. A variety of extra fine shape, petals being very long, and perfectly star-shaped. 25c.

Bornemann's Liebling. Very delicate, soft rose-pink. Extra fine.

Clara G. Stedwick. Clear, bright salmon, shaded yellow at base of petals. Large flowers, with long, slim, twisted petals.

Charles Clayton. The color is a most intense red, so vivid as to dazzle the eye. Flowers are large in size and are produced freely.

Columbia. Vermilion, tipped and striped with white. Long, narrow, star-like petals. "Columbia" blossoms profusely, and the exquisite combination of red and white makes a most striking appearance. 25c. each.

Kriemhilde. Deep, rosy pink. Good keeper.

Lyric. Fiery red, shading yellow.

Mrs. H. L. Brouson. A clear, delicate salmon, or pale orange-yellow, with long petals. Fine.

Mrs. Winstanley. A wonderfully large early flowering, pure deep scarlet. One of the most satisfactory.

Reliable. A novel but very pleasing combination of yellow, brick-red and salmon. Exceptionally free-flowering.

Standard Bearer. Bright, clear scarlet; very free-bloomer.

Stern. Bright primrose-yellow. The flowers are large, petals long and pointed. One of the most satisfactory varieties.

Stella. Rich, vivid scarlet; good, large flower. 25c. each.

W. B. Childs. A very reliable variety, of a beautiful dark purplish maroon color. Flowers extra large. 25c. each.

Any of the above, except as noted, 20c each; \$2.00 per doz., postpaid.

Genista. A beautiful deep orange, quickly changing to gold. An exquisite blending of colors not common in Dahlias. Free-flowering, fine shaped flowers, borne well above the foliage, upon stiff, wiry stems. Plants strong and sturdy, of an upright pleasing growth.

H. F. Robinson. Magnificent clear golden yellow. Petals narrow, straight and tightly quilled. One of the best yellow Dahlias in existence.

Ianthe. A lively shade of buff, edged salmon-rose; very large, fine flower.

Iceburg. Ivory white, with pale yellow cast at center. Petals long, quilled and narrow. Extra fine form.

J. H. Jackson. The finest black Cactus Dahlia in existence. An exceptionally satisfactory all-round Dahlia; one of the most prominent for garden decoration, superb as a cut-flower variety, and equally good as an exhibition flower. In color, a perfectly gorgeous, deep, velvety blackish-maroon. Gigantic in size. Every Dahlia lover should grow this variety.

Crepuscule. A gigantic flower, pale orange-yellow at center, exquisitely deepening to beautiful deep amber buff, at outer petals. Blossoms early and in remarkable quantities. 25c each. able quantities. 25c. each.

Countess of Lonsdale. One of the best cactus Dahlias. A very free bloomer, fine stems and good color—a blending of amber and salmon pink.

Dainty. Most fittingly described by its name. The dainty coloring baffles description, but may be partly described as a lemon base, shading to an exquisite rosy pink at the tips.

Forbes Robertson. Beautiful reddish-orange. A very satisfactory variety, flowers having long, straight, star-shaped petals, and in addition to the long petals common to all Cactus, there is a profusion of smaller narrow, threadlike petals, or secondary florets, which intermingle with the main florets, making it one of the most novel. 25c. each.

General Buller. A rich, velvety crimson-maroon, tipped white. Occasionally a solid crimson flower on same stalk.

Collection, one of each, \$4.00. Any six for \$1.00.

Gladioli

Probably, on account of the hardiness, wide range of brilliant colors and peculiar adaptability as cut flowers, these are the most popular of all the Summer flowering bulbs.

By taking care to make plantings at ten-day intervals through April, May and June, they will bear a succession of bloom from July to October. For best results they should have a sunny position. A good sandy loam is most suitable, but they will do equally well in heavier soil, provided there is good drainage.

Plant from 4 to 6 inches deep, depending on size of bulb, the larger ones to be given the deeper planting.

America

This flower is grown by the thousands and conceded to be one of the finest varieties for cut flowers, since the soft lavender pink tint of its blossoms and its lasting qualities never fail to recommend it to any flower lover. It is a flower that cannot fail to prove profitable. Each, 4c.; doz., 30c., postpaid. By express, not prepaid, 100, \$1.50; 1,000, \$14.00.

Augusta

Flowers pure white with blue anthers. The first really successful white to be introduced. Very satisfactory. Each, 4c.; doz., 35c.; postpaid. By express, not prepaid, 100, \$2.00.

Baron Hulot

A rich, royal, violet, blue with wide open flowers well placed. It is very effective when cut and used with yellow varieties. Each, 6c.; doz., 50c., postpaid. By express, not prepaid, 100, \$3.50.

Brenchleyensis

An old type, but a very popular variety. Color, intense, fiery scarlet. The best and most effective vermilion scarlet for massing in beds and borders. Each, 5c.; doz., 40c.; by express, not prepaid, 100, \$2.00; 1,000, \$18.

Chicago White

A pure white of comparatively recent introduction with lavender markings in the throat. Each, 5c.; doz., 45c.; postpaid. By express, not prepaid, 100, \$3.00.

Halley

A variety of excellent merit, and very early, bulbs planted in late April often coming into bloom in June. A beautiful salmon-pink with a creamy white blotch in the throat characterizes the color of the blossoms, which are very large. For cut-flowers and for garden massing we know of no variety which will give greater satisfaction. Each, 7c.; doz., 60c.; postpaid. By express, not prepaid, 100, \$4.00.

Mrs. Frank Pendleton

One of the finest varieties yet introduced. Exquisitely colored. See Specialty Pages for fuller description. Each, 20c.; doz., \$2.00, postpaid. By express, not prepaid, 100, \$12.00.

Mrs. Francis King

A magnificent and very effective variety for window, store or home decoration, as well as in massed plantings in the garden. The strong sturdy stalk stands very erect bearing long showy and broad spikes of flame colored flowerets. These flowerets are unusually large, 6 to 8 being open at one time and are supported by a strong reserve line of buds, thus creating a very lasting cut-flower. Each, 4c.; doz., 35c.; postpaid. By express, not prepaid, 100, \$2.00.

Niagra

A delicate, charming cream shade, with the two lower inside petals blending into a canary yellow. The throat is splashed with carmine and the lower ends of the outside petals are also blushed with carmine. The stamens are purple and the stigmas pale carmine, this little addition in the coloring bringing out the creamy effect in strong relief. The flower spike is very erect and symmetrically filled with flowerets. Broad dark-green foliage. Price, each, 10c.; doz., 80c., postpaid. By express, not prepaid, 100, \$6.00.

Panama

A variety of sterling merit and a favorite ever since its introduction. It is a new seedling of America and it resembles the parent variety in every way except that it is a much deeper pink. The spike is long with flowers well arranged. Price each, 10c.; doz., \$6.00.

Princeps

Scarlet crimson with deeper shading toward the throat; lower petals marked with large white blotches. Flowers are immense and wide open, resembling an amaryllis in size and shape. Very rich in color, but never bears many open blooms at one time. Each, 6c.; doz., 50c., postpaid. By express, not prepaid, 100, \$3.50.

Primulinus Hybrids

The original of the species has been introduced from South Africa but it has been greatly improved by crossing with the garden sorts. The colors range from the purest and lightest yellows to deepest orange and apricot and from the softest shade of salmon-pink to rich reds. Dainty blotches in the throat add materially to their beauty. The flowers have splendid constitutions and will thrive under any ordinary garden conditions. We suggest that our customers plant them liberally. Each, 7c.; doz., 60c., postpaid. By express, not prepaid, 100, \$4.00.

Livingston's "True Blue" Mixed Gladioli

This splendid mixture is a blending of high-grade named varieties and embraces a great and pleasing range of colors. We heartily recommend it. Each, 5c.; 6 for 25c.; doz., 40c., postpaid. By express, not prepaid, 100, \$1.50; 1,000, \$12.00.



Mrs. Francis King

Bulbs By Parcel Post

Gladioli Bulbs weigh about 7 pounds per 100, and if wanted by mail, include enough to cover postage in your remittance.

Farm, Garden, Fruit, Flowers, BOOKS Vegetables, Poultry, Etc.

Books are sent at purchaser's expense, except those marked postpaid. Shipping weight will be found noted in each instance where the book weighs over 8 ounces and your remittance should be sufficient to cover the postage.

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Asparagus: How to Grow for Market or Home Use. 174 pages, 5x7 inches, handsomely illustrated. Cloth, 50c. Weight 1 lb.

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Smith's Corn Book. Tells how to raise a hundred bushels per acre on worn soil. Price, \$1.25. 1 lb.

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How to Make a Flower Garden. Very practical and suggestive, having been written from actual experience. Many lists of flowers and shrubs for special purposes and seasons are given, with directions how to grow each. 8x11; 370 pages; 200 fine half-tone illustrations. Price, \$1.75. 3 lbs.

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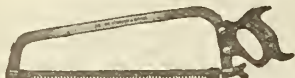
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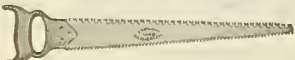
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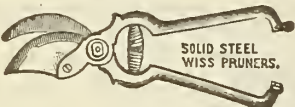
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The blade can be set at any angle. Weight 2 lbs. Searight, 14-inch blade, 90c. Disston, 16-inch blade, \$1.25.



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One coarse and one fine. Weight 2 lbs. 19-inch blade, 75c. 26-inch blade, \$1.25



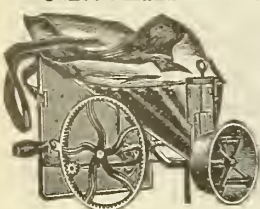
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Keen Cutter Pole Pruner—10 ft., \$1.00; 12 ft., \$1.25.

Send for Special Pruning Tool Catalog.

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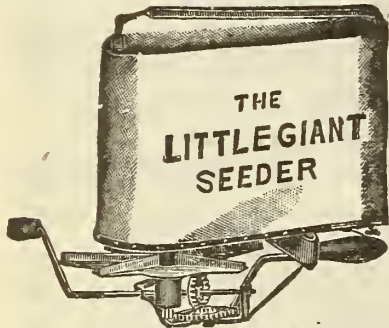


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Little Giant Seeder

Strongest, Lightest and Easiest Running

Best and cheapest crank Seeder made in the quality of work done and durability. Will not get out of order nor be affected by dampness of the

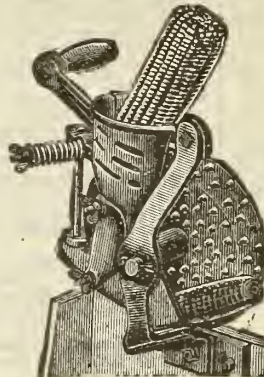


weather. Distributes all kinds of fertilizer, land plaster, ashes and seeds. We have sold it for years with good satisfaction. No. 1 (Fiddle-bow), \$1.25; weight, 5 lbs.; No. 3, (Crank), \$1.50; weight, 6 lbs.

Hot-Bed Sashes

Best Cypress—3½x6 ft., unglazed for 4 rows 8x10 glass. Each, \$1.25; 10 for \$12.00.

Our sales of Hot-bed Sashes are increasing each season, so satisfactory do our customers find them.



Columbus Corn Sheller

Shells any size ear from popcorn to large field corn. May be fastened to a board or on top of the fence. Always ready. (See illustration.) By freight or express, \$1.00



The New Christy Garden Weeder has the famous scalloped cutting edge of the Christy Bread Knife. Each, 20c.; weight, 1 lb.



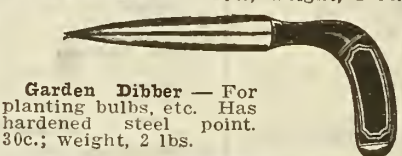
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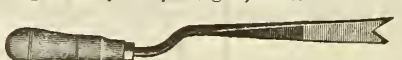
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Trowels, Ordinary—5-inch, weight 1 lb., 10c.; 6-inch, weight 1 lb., 15c.

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Per box of 1000, 60c.; weight, 1 lb. Lots of 500 and over, per box, 55c.

Pinchers for driving, 60c.; weight, 1 lb.
Siebert's Glazing Points
⅝-inch size, 1200 to lb., per lb., 40c.;
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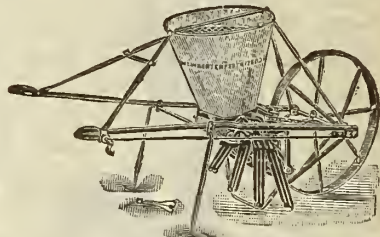
Wood Pot Labels

Painted Pot Labels—Best made. Put up in packages of 1000 each.

4 x ⅝ inch	per 1000	\$0 70
4½ x ⅝ inch	"	80
5 x ⅝ inch	"	95
6 x ⅝ inch	"	1 20
10 x ⅝ inch	"	2 50
12 x ⅝ inch	"	3 00

Wood Garden Stakes

8x ⅞ inch, per 100	45c	Painted Per 1000	\$3 70
10x ⅞ inch, "	60c	"	4 80
12x 1 ⅞ inch, "	75c	"	6 00



McWhorter Fertilizer Distributer—For the practical and superior distribution of all commercial fertilizer. It distributes the fertilizer in a furrow, beside the growing crop, as a top dresser or as a broadcaster to any extent up to a uniform spread of over 2 feet, without removing or adding any part or loosening a bolt, and in any quantity from a few pounds to 40 or more pounds to the 100 yards of row. (See illustration.) Price, \$12.00.



Out O' Sight Mole Trap Best Mole Trap ever offered, and only has to be appreciated. Can be used in hot-bed under sash. The secret of mole catching is a good trap and to know their habits. Full directions with each trap. (See cut.) Each \$1.00; weight, 2 lbs.

Plant Bed Cloth

A protecting Cloth of Waterproof Fiber; excellent substitute for glass, late in season. All pieces are a yard wide and contain from 40 to 60 yards each. Heavy grade, per yard, 17½c.; weight, 7 oz., by the piece, 40 to 60 yds., per yd., 16c. Medium grade, per yd., 12½c.; weight, 3¾ oz.; by the piece, 40 to 60 yds., per yd., 11c. Light grade, per yd., 6½c.; weight, 1½ oz.; by the piece, 40 to 60 yds., per yd., 6c.

Clipper Grain and Seed Cleaner No. 1, for general use, has 8 sieves (7 zinc), cleans grain and seeds of all kinds. Each, \$23.50. Send for Special Catalog of Clipper Mills.

Neponset Paper Pots

Are made of tough waterproof fiber paper unbreakable and the best pot made for starting plants in hot-beds or greenhouses and for shipping and marketing. For lightness and cheapness they have no equal.

	Per 100	Per 1000	No. in Crate
2¼ inches	\$0 25	\$2 42	1000
2½ inches	30	2 78	1000
3 inches	45	3 82	1000
3½ inches	60	5 24	1000
4 inches	80	6 60	500
5 inches	1 20	10 96	500
6 inches	1 65	14 68	500

Poultry Supplies

Incubators, Brooders, Bone Cutters, Grit, Shell, Bone, Medicines, Lice Killers, Fountains, Leg Bands, Etc. Send for Special Catalog.

All prices on this page are for the goods f. o. b. Columbus, O., and subject to market change.

Fertilizers

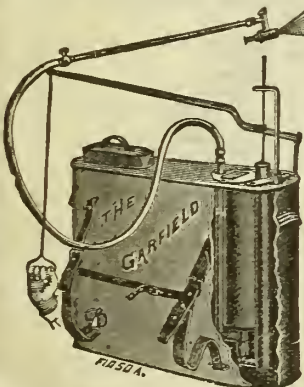
- Ask for special quotations on ton lots.
- BONE MEAL**—10 lbs., 40c.; 25 lbs., 80c.; 50 lbs., \$1.50; 125 lbs., \$2.70.
 - ARMOUR'S 2-8-1**—10 lbs., 40c.; 25 lbs., 75c.; 50 lbs., \$1.00; 125 lbs., \$2.40.
 - ARMOUR'S 2-8-2**—10 lbs., 40c.; 25 lbs., 80c.; 50 lbs., \$1.50; 100 lbs., \$2.65.
 - NITRATE OF SODA**—10 lbs., 80c.; 25 lbs., \$1.75; 50 lbs., \$3.00; 100 lbs., \$5.50.
 - SHEEP MANURE (Pulverized)**—10 lbs., 40c.; 25 lbs., 75c.; 50 lbs., \$1.25; 100 lbs., \$2.00.
 - BARWELL'S PLANT GROWER**—Odorless, highly concentrated soluble food for house plants: ½ lb., box, 20c.; 1½ lbs., 35c.

Insecticides, Fungicides, Etc.

- ARSENATE OF LEAD (Powdered)**—Mixes with water almost instantly—one pound goes as far as two to three of paste—remains in suspension much longer. We have given a four-year test to the brand we carry and consider it unequalled. ½ lb., 25c.; lb., 40c.; 5 lbs., \$1.85; 10 lbs., \$3.50. Ask for price on larger quantities.
- APHINE**—For destroying aphid (plant lice) on roses, sweet peas, nasturtiums, etc. A fine article. ¼ pt., 25c.; ½ pt., 40c.; 1 pt., 65c.; 1 qt., \$1.00; 1 gal., \$2.50.
- BLACK LEAF 40**—A concentrated solution of Nicotine Sulphate. For black aphid and sucking insects of this class. 1 oz., 25c.; ½ lb., 75c.; 2 lbs., \$2.50; 10 lbs., \$10.75.
- BORDEAUX MIXTURE**—1 gallon makes 50. 1 qt., 50c.; 1 gal., \$1.25; 5 gal., \$5.00.
- FISE OIL SOAP**—1 lb., 20c.; 2 lbs., 35c.
- FUNGINE**—Excellent for fungous diseases of all kinds. ½ pt., 40c.; 1 pt., 65c.; 1 qt., \$1.00; 1 gal., \$3.50.
- HAMMOND'S SLUG SHOT**—Non-poisonous; the best powder insect destroyer for potato bugs and all insects that chew. 1 lb., 10c.; 5 lbs., 35c.; 10 lbs., 60c.; 25 lbs., \$1.40; 50 lbs., \$2.65.
- TOBACCO DUST**—Valuable in combating the striped cucumber beetle when used with Slug Shot. 2 lbs., 15c.; 10 lbs., 50c.; 100 lbs., \$4.50.
- TOBACCO STEMS**—For fumigating and mulching. 100 lbs., \$1.40; 500 lbs., \$6.00; 1 ton, \$17.00.
- VERMINE**—For destroying ant, worms, maggots, etc., in the soil. Dilute 1 part to 400 parts water and soak soil. ¼ pt., 25c.; ½ pt., 40c.; 1 pt., 65c.
- WEED KILLER (Target Brand)**—Keeps paths and roads free from weeds and grass. 1 qt., 50c.; ½ gal., 85c.; 1 gal., \$1.25.

Garfield Knapsack Sprayer

(See illustration)



Made entirely of brass and copper. Tank holds 4 gallons, has 4 feet best rubber hose, brass pipe 15 inches long and Combination Vermorel Nozzle attached. Without Agitator, price, \$15.00; with Agitator, \$16.00.

Garfield Knapsack Sprayer

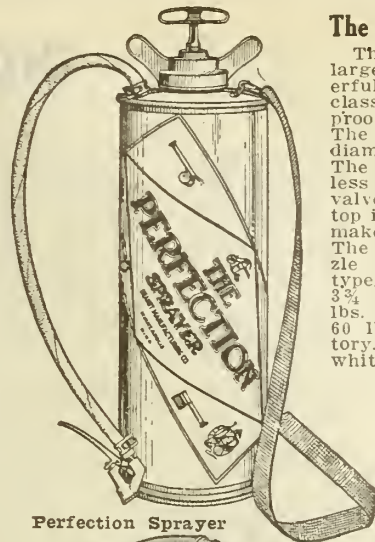
Myer's Little Giant Bucket Spray Pumps

(See illustration)

Constructed entirely of brass, which is not affected by the poisons used in spraying fruit trees, vines and shrubbery. Is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up, which has the effect of holding the pump down. The foot-rest steadies the pump. Will throw a solid stream 50 feet, and are very useful for washing windows and buggies, sprinkling lawns, flowers, etc. Price, with Rubber Hose, \$3.25. With 8-foot Extension Rod, \$3.75.



Myer's Little Giant Bucket Spray Pump

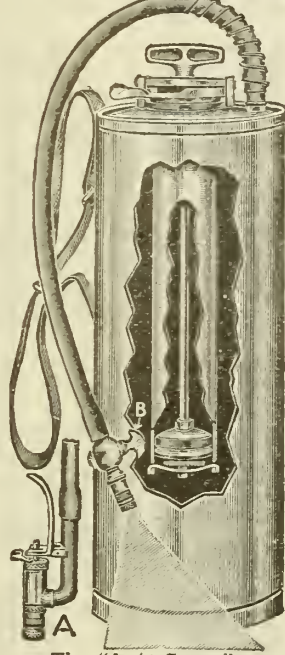


Perfection Sprayer

The "Perfection" Sprayer

This high pressure type is larger and much more powerful than anything in its class, and is as near burst-proof as it can be made. The barrel is 7½ inches in diameter, 20 inches high. The pump is 1¾-inch seamless brass tubing. The valves are METAL. The top is fastened like the best makes of fire extinguishers. The hose is 5-ply. The nozzle is of the Automatic type. Capacity of Sprayer, 3¾ gallons. Weight, 9½ lbs. All Sprayers tested to 60 lbs. before leaving factory. This Sprayer handles whitewash, water, paints, Bordeaux mixtures, etc., perfectly. For whitewash and all heavy mixtures it is necessary to use a No. 2 Cap in nozzle, which is furnished with Sprayers.

Price: All Brass, \$8.00; Galvanized, \$5.25.



The "Auto-Spray"

The "Auto-Spray"

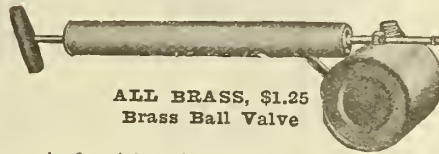
Works automatically for 6 to 15 minutes, according to the nozzle opening. It may be started in 15 seconds by a few strokes of the plunger.

The "Auto-Spray" has a capacity of four gallons, and when properly charged contains three gallons of solution and one gallon compressed air. Eight to twelve strokes of the plunger will compress the air, and two pumpings will discharge the entire contents. Three gallons of solution or one charge will easily cover one-half acre of potatoes or other similar crop. Galvanized Iron Tank, with Auto-Pop Nozzle, \$5.25; Solid Brass Tank, with Auto-Pop Nozzle, \$8.00.

Auto-Pop Spray Nozzle—In operation a lever is moved by simply closing the hand, thus opening the valve and allowing an instantaneous discharge of spray. By releasing the lever it closes itself automatically, hence the spray is in perfect control. Each, \$1.25.

Extension Rods for Auto-Spray, 2 ft. long. Each, 50c.

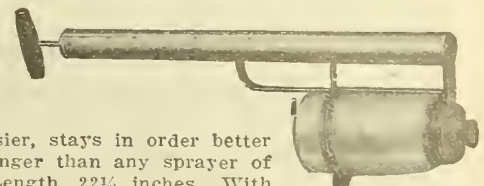
Continuous Sprayer



ALL BRASS, \$1.25
Brass Ball Valve

Will handle fly oils and disinfectants, as well as the regular spraying materials, giving a fine and effective spray. An extra nozzle cap is furnished for spraying the under side of the foliage.

Lowell Liquid Sprayer



Works easier, stays in order better and lasts longer than any sprayer of its class. Length, 22½ inches. With Copper Tubes and Zinc jar top, 75c.; all Brass, \$1.25.

BRASS TUBES
Zinc Can Screw
75 Cents

Other Liquid Atomizer Sprayers from 25c. to 50c. each.

S, Indicates Seeds.
B, Bulbs.

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R, Roots.
P, Plants or Shrubs.

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Special Notice with Reference to Nursery Stock

Our customers will notice that, with few exceptions, all plants, shrubs, and trees have been eliminated from this Catalog. We found it increasingly difficult to satisfy the exacting requirements made in many states by laws regulating the sale of live plants. The cost of the licenses required for selling nursery stock in many states makes it impossible to do business there. Considering the wide distribution which this Catalog receives, the long distances plants often have to travel and the exorbitant transportation charges arising for the customer, we thought best to discontinue the handling of nursery stock in connection with our mail-order business. Order heavy plants, shrubs and trees from reliable nurseries in your immediate neighborhood is the sincere advice of



THE LAWN PROBLEM SOLVED

By the Use of
Livingston's Capitol Lawn Grass Seed
 SOWN IN SPRING OR FALL

It contains only the highest grade of grasses suitable for the purpose of making a beautiful, durable, lasting lawn. It germinates quickly and roots deeply. This enables it to withstand the intense heat of summer and the hard cold of winter, showing a beautiful, rich green from snow to snow. It contains no annual grasses for making a quick show, to the detriment of a permanent lawn, but has only those which are lasting and hardy. When a lawn is once established from our seed, it lasts for years. From six to eight weeks' time is all that is required to form a close, thick turf of rich, velvety green. We have made the formation of lawns a careful study, and many of the finest lawns and grass plots all over the United States were made from Livingston's Capitol Lawn Grass Seed. For a perfect and enduring lawn of rich green growth throughout the year, plant Livingston's Capitol Lawn Grass Seed.

Quantities to Use—One lb. for 400 sq. ft.; 5 lbs. for 2000 sq. ft.; 10 lbs. for 4000 sq. ft.; 25 lbs. for 10,000 sq. ft. (¼ acre); 34 lbs. for 14,550 sq. ft. (½ acre); 50 lbs. for 21,780 sq. ft. (¾ acre); 100 lbs. for 43,560 sq. ft. (1 acre).

For Renewing Old Lawns—Use about one-half the quantity given in above directions. **Capitol Lawn Grass Seed** is the cheapest as well as the best lawn grass seed offered. While 14 lbs. of lawn grass seed is usually considered a bushel, this will weigh 20 lbs. and over to the bushel. We sell by the pound instead of quart. This method is very much to the advantage of the purchaser, as a pound of grass seed measures over 1½ quarts. **Price**—35c. per lb.; 3 lbs., \$1.00; 5 lbs., \$1.50; 10 lbs., \$2.75; \$5.00 per bushel (20 lbs.).

Shady Place Mixture

On nearly all lawns there are shaded, bare and unsightly spots on which the owners have difficulty in getting a stand of grass. For such places this mixture is adapted. It is composed of grasses which naturally grow in shaded places. They are the finest and most costly of all grasses. If the soil is covered with moss or seems "sour" and out of condition, rake off the surface and apply hydrated lime at the rate of 100 lbs. to 1000 square feet; this will sweeten the soil. To keep it sweet also scatter on 100 lbs. carbonate of lime to 500 square feet. Then dig and prepare the lawn as directed below. **Price**—Lb., 45c.; 3 lb., \$1.20; bu., \$7.00.

Kentucky Blue Grass

Many prefer plain Blue Grass to a mixture, and it cannot be denied that it produces a beautiful and lasting lawn. It takes longer, however, to get established. **Price** (fancy clean seed)—Lb., 25c.; 5 lbs., \$1.00; bu. (14 lbs.), \$2.25.

Special Quotations—We are always pleased to quote special prices to parks, institutions, golf clubs and others who require lawn Grass Seeds in large quantities.

Directions for Making a Lawn

As early as possible in the Spring and again in September in the latitude of Columbus spade or plow the ground 10 or 12 inches deep. If the soil is poor apply Bone Meal, Wood Ashes, Pulverized Sheep Manure or Peat Humus, separately or in combination immediately after it is spaded—before it is raked. Well-rotted stable manure is good but it often contains weed seeds. Should the soil be acid or sour (moss is a sure sign), scatter carbonate of lime on at the rate of 1 lb. to 5 sq. ft. Now rake the soil until completely pulverized; then roll.

Sow the Best Seed—It is always cheapest in the end. Use quantity according to directions. Distribute by hand as evenly as possible, going both ways across the plot. After sowing cover the seed by raking lightly; then roll.

When the grass has become well rooted use a good sharp mower set to cut about 1½ inches high. Never allow the grass to become so high that the mower will take off the first joint. Mow at least once a week during good growing weather. Rake the clippings off when they are long. When dry and hot avoid cutting too close. During dry spells thoroughly soak once a week in the evening after the sun is off the lawn.

In the early Spring every lawn should be carefully rolled so as to press back to its place any turf that has been heaved by the freezing and thawing.

Old lawns out of condition will be greatly benefited by applying the proper quantity and kind of seed and fertilizer thoroughly raked in before this rolling.

We are at your service in helping you to work out the best procedure—starting a new lawn; fixing up an old one. If you have not gotten desired results, we will take pride in helping you if you will let us know the conditions.

"Quick Grower" Lawn Seed

We prepare a special mixture that will give quicker results than our Capitol Lawn Seed, yet it makes a good lasting lawn. If you have tried others and failed, give this a fair trial, and we feel sure you will be pleased with the results. 1 lb. to 300 sq. ft. 1 lb., 35c.; 3 lbs., \$1.00; 5 lbs., \$1.50; 10 lbs., \$2.75; 20 lbs., \$5.00.

Tennis Court Mixture

A mixture composed of low-growing hardy grasses suitable for grounds of this kind. **Price**—Lb., 45c.; bu., \$7.00.

Golf Link Mixture

We make a mixture of grasses suitable for the purposes of the golf links, so it will stand rough usage. We can also prescribe for links located on poor or rich, dry or wet soils, telling which grass will best suit each location.

LIVINGSTON'S
SNOWHITE
CELERY

*The
Finest Celery
in Purity of
Color*

BEST FOR MARKET
AND SHIPPING

THE
*Livingston
Seed Co.*

114 NORTH HIGH STREET
COLUMBUS, OHIO.

