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ROSS BROS. Co

WORCESTER, MASS.

YEAR~BOOK

~1923~

Ross Bros. Co.

New England's Greatest Agricultural Department Store. Established in 1845 by John D. Lovell; in 1880 by Wm. H. Earle; in 1888 by Ross Bros.; in 1906 incorporated under the name of Ross Bros. Co.

U. S. Food License
No. G. 12956

Members of the
American Seed Trade
Association

U. S. Fertilizer License
No. J. 2163

GENERAL INSTRUCTIONS FOR CUSTOMERS PLEASE READ CAREFULLY

ROSS BROTHERS COMPANY gives no warranty, express or implied, as to description, purity, productiveness or any other matter, of any Seeds, Bulbs or Plants it sends out, and it will not be in any way responsible for the crop.

ORDER EARLY—We endeavor to fill all orders as soon as received, but during the rush season of April and May, delays are sometimes unavoidable. This, however, can be partly overcome if our patrons will send us their orders early.

IMPORTANT—When sending money to cover cost of postage, allow for weight of box or packing material. For example, allow for three pounds postage on two pounds of Beans or other seed, as the package when ready for mailing will weigh over two pounds.

PACKING—We make no charge for boxes, bags or packing, nor for delivery to Freight Depot or Express Offices in Worcester, Mass. This applies to retail trade only.

All orders are acknowledged as soon as received and notice of freight or express shipments will be sent as soon as orders are shipped. After an order has been received and acknowledged by us it must not be cancelled; we may have an order ready for shipment or may have shipped it the day before the cancellation order arrives at our office. This means an expense to us for labor or for freight charges and in some cases the seeds are not returned to us until too late for the seed to be used. Therefore, it will be necessary for us to make a charge of 20 per cent on all cancelled orders.

FREE DELIVERY—We deliver postpaid to any Post Office in the United States, Vegetable and Flower Seeds in packets, ounces, quarter pounds and pounds at prices quoted in this catalogue for such quantities. If larger quantities are wanted by Parcel Post, postage **MUST BE SENT**. See Parcel Post rates.

GRASS AND FIELD SEEDS—All Grass and Field Seeds, Onion Sets and Potatoes are shipped only at purchaser's expense by express or freight, as ordered. Prices quoted in this catalogue are F. O. B. Worcester. Small quantities of Grass or Field Seeds sent by Parcel Post if postage is added at parcel post rates.

DO NOT ORDER LARGE, HEAVY LOTS OF SEEDS SENT BY EXPRESS unless you are certain that you are willing to pay the express charges, which even with the reduction now made on such shipments by the express companies, are much more than freight charges.

But do not order a few pounds of seeds sent by freight which could be sent as cheaply, more safely, and which would reach you much sooner if sent by express.

NOTICE—While it is not our custom to substitute we feel that in the event of our being sold out of any variety it would be to the advantage of our patrons to allow us this privilege, for if on receipt of any substitute it is not perfectly satisfactory the same may be returned and money paid will be refunded.

IF GOODS ARE WANTED BY PARCEL POST, POSTAGE MUST BE ADDED AS PER TABLE, EXCEPT FOR THOSE QUANTITIES OF SEEDS WE OFFER TO DELIVER FREE.

REMITTANCES for small orders may be made in postage stamps, but if stamps are used, care should be taken that they are not moistened by handling. Enclosing in oiled paper is much the safer way to send them.

FOR LARGE ORDERS, remittances should be made by Express Money Order, P. O. Money Order, Bank Draft, or Registered Letter, all of which are inexpensive and absolutely safe.

C. O. D. ORDERS. Do not ask us to send goods C. O. D. If it is not possible to remit with the order, give your order to the Express Company's Agent; the goods will then be delivered to you without the C. O. D. charges, as by this method they make no charge for collecting and returning the money.

Parcel Post Rate Table

Wt. Lbs.	ZONES							
	Local	1st-2nd	3rd	4th	5th	6th	7th	8th
1	\$.05	\$.06	\$.06	\$.07	\$.08	\$.09	\$.11	\$.12
2	.06	.06	.08	.11	.14	.17	.21	.24
3	.06	.07	.10	.15	.20	.25	.31	.36
4	.07	.08	.12	.19	.26	.33	.41	.48
5	.07	.09	.14	.23	.32	.41	.51	.60
6	.08	.10	.16	.27	.38	.49	.61	.72
7	.08	.11	.18	.31	.44	.57	.71	.84
8	.09	.12	.20	.35	.50	.65	.81	.96
9	.09	.13	.22	.39	.56	.73	.91	1.08
10	.10	.14	.24	.43	.62	.81	1.01	1.20
11	.10	.15	.26	.47	.68	.89	1.11	1.32
12	.11	.16	.28	.51	.74	.97	1.21	1.44
13	.11	.17	.30	.55	.80	1.05	1.31	1.56
14	.12	.18	.32	.59	.86	1.13	1.41	1.68
15	.12	.19	.34	.63	.92	1.21	1.51	1.80
16	.13	.20	.36	.67	.98	1.29	1.61	1.92
17	.13	.21	.38	.71	1.04	1.37	1.71	2.04
18	.14	.22	.40	.75	1.10	1.45	1.81	2.16
19	.14	.23	.42	.79	1.16	1.53	1.91	2.28
20	.15	.24	.44	.83	1.22	1.61	2.01	2.40
21	.15	.25	.46	.87	1.28	1.69	2.11	2.52
22	.16	.26	.48	.91	1.34	1.77	2.21	2.64
23	.16	.27	.50	.95	1.40	1.85	2.31	2.76
24	.17	.28	.52	.99	1.46	1.93	2.41	2.88
25	.17	.29	.54	1.03	1.52	2.01	2.51	3.00
26	.18	.30	.56	1.07	1.58	2.09	2.61	3.12
27	.18	.31	.58	1.11	1.64	2.17	2.71	3.24
28	.19	.32	.60	1.15	1.70	2.25	2.81	3.36
29	.19	.33	.62	1.19	1.76	2.33	2.91	3.48
30	.20	.34	.64	1.23	1.82	2.41	3.01	3.60
31	.20	.35	.66	1.27	1.88	2.49	3.11	3.72
32	.21	.36	.68	1.31	1.94	2.57	3.21	3.84
33	.21	.37	.70	1.35	2.00	2.65	3.31	3.96
34	.22	.38	.72	1.39	2.06	2.73	3.41	4.08
35	.22	.39	.74	1.43	2.12	2.81	3.51	4.20
36	.23	.40	.76	1.47	2.18	2.89	3.61	4.32
37	.23	.41	.78	1.51	2.24	2.97	3.71	4.44
38	.24	.42	.80	1.55	2.30	3.05	3.81	4.56
39	.24	.43	.82	1.59	2.36	3.13	3.91	4.68
40	.25	.44	.84	1.63	2.42	3.21	4.01	4.80
41	.25	.45	.86	1.67	2.48	3.29	4.11	4.92
42	.26	.46	.88	1.71	2.54	3.37	4.21	5.04
43	.26	.47	.90	1.75	2.60	3.45	4.31	5.16
44	.27	.48	.92	1.79	2.66	3.53	4.41	5.28
45	.27	.49	.94	1.83	2.72	3.61	4.51	5.40
46	.28	.50	.96	1.87	2.78	3.69	4.61	5.52
47	.28	.51	.98	1.91	2.84	3.77	4.71	5.64
48	.29	.52	1.00	1.95	2.90	3.85	4.81	5.76
49	.29	.53	1.02	1.99	2.96	3.93	4.91	5.88
50	.30	.54	1.04	2.03	3.02	4.01	5.01	6.00
51	.30	.55	1.06					
52	.31	.56	1.08					
53	.31	.57	1.10					
54	.32	.58	1.12					
55	.32	.59	1.14					
56	.33	.60	1.16					
57	.33	.61	1.18					
58	.34	.62	1.20					
59	.34	.63	1.22					
60	.35	.64	1.24					
61	.35	.65	1.26					
62	.36	.66	1.28					
63	.36	.67	1.30					
64	.37	.68	1.32					
65	.37	.69	1.34					
66	.38	.70	1.36					
67	.38	.71	1.38					
68	.39	.72	1.40					
69	.39	.73	1.42					
70	.40	.74	1.44					

IMPORTANT

In remitting postage always add it to foot of the Order as a separate item—this will help to avoid mistakes.

Your local Postmaster will inform you what Zone you are in from Worcester, if you are in doubt, and you can add postage accordingly.

FRUIT TREES

Plant your fruit trees now for the years to come. The cost of planting an orchard is very small when you consider the value of this same orchard in a few years from the time of planting. The last few years have proven that there is no better investment for the property owner than orchard planting. Good fruit always commands a good price and always finds a ready market. The poorest and cheapest land will be made valuable in a few years by orchard planting or the planting of small fruit.

All orders for trees will be shipped direct from the nursery by express or freight as ordered.

CASH MUST BE SENT WITH THE ORDER

APPLES (Standard)

5 to 7 feet high. Each, \$1.25; per ten, \$11.00

BALDWIN. A great market apple, very productive; fruit large, deep red, crisp, juicy and rich. December to March.

DELICIOUS. Flourishes well in every state of the Union. Bears annually; great yielder; hangs well on trees. Trees very thrifty, long lived and extremely hardy. Fruit very large, nearly covered with brilliant, dark red; flesh fine grained, crisp, juicy, melting and delicious; splendid keeper and shipper; should be in every orchard.

DUCHESS. A large beautiful apple, roundish. Streaked red and yellow. Tender, juicy and pleasant. Tree a vigorous, fine grower and abundant bearer. Very hardy, September.

McINTOSH (McIntosh Red). Medium large, polished, smooth, yellow, nearly covered with brilliant crimson; beautiful; flesh snow white, crisp, very tender, aromatic; sub-acid; very good quality. Resembles Fameuse type, but is larger and more hardy. Tree vigorous, with spreading head; a good annual bearer; popular in northwest. November to February.

RED ASTRACHAN. Tree vigorous, upright, hardy and productive. Fruit medium to large; surface smooth, marbled and striped on greenish yellow; flavor acid.

RHODE ISLAND GREENING. Large greenish yellow, tender, juicy and rich, with rather an acid flavor; growing strong and spreading, and an abundant bearer, but drops prematurely in the West, and should be gathered early if planted at all. November and December.

WEALTHY. Origin, Minnesota. Large, round; red; very handsome; fine quality; good grower. Perfectly hardy and most reliable. Very popular throughout the north. Long keeper in cold storage. October to January.

YELLOW TRANSPARENT. A Russian apple. Tree is a hardy, upright grower; regular and early bearer, medium size. Color a rich, transparent yellow with a faint blush on sunny side; flesh melting, juicy, sub-acid.

PEARS (Standard)

5 to 7 feet. Each, \$2.00; per ten, \$17.50

BARTLETT. One of the most popular sorts, both for home and market. It is large, handsome, waxy yellow with red blush, flesh buttery, rich, juicy and highly flavored. August and September.

CLAPP'S FAVORITE. Large obovate; skin thin, pale yellow marked with pale crimson and lawn colored dots; flesh white, fine grained, juicy, buttery, rich, melting and sweet. Very vigorous, upright grower. August and early September.

SECKEL. Small, skin rich, yellowish brown; flesh very fine grained; sweet, juicy and pleasant. Best for its size. September and October.

PEACHES

4 to 5 feet. Each, 75c; per dozen, \$7.50

BELLE OF GEORGIA. The fruit is very large; rich, creamy white flesh, with a bright red blush, and is delicious in quality. It ships well and always goes on the market in good condition. Its planting is not confined to any one section but it is a money-maker wherever peaches grow. Ripens 8 days ahead of Elberta.

CHAMPION. One of the finest freestone peaches. Large, creamy-white with slight blush. Fresh white, rich, sweet, juicy and of excellent flavor. August.

ELBERTA. The fruit is large with golden-yellow skin covered largely with crimson; flesh is yellow, firm, juicy and of high quality, very prolific. Freestone. September.

CROSBY. Rich orange yellow with blush, freestone, pit small. Flesh yellow, juicy and sweet. Tree low, spreading; willow habit of growth. Ripens before Crawford's Late.

GRAPES

Strong selected 2 year roots. Each, 50c; per ten, \$4.00

CONCORD. One of the most popular and reliable varieties; bunch large, compact and shouldered; berry large, round, almost black with blue bloom, juicy, buttery and very sweet.

NIAGARA. Occupies the same position among the white varieties as Concord among the black. Bunch and berries large, greenish white, changing to pale yellow when fully ripe. Skin thin but tough, quality much like the Concord.

SUITABLE DISTANCES FOR PLANTING FRUIT TREES

Apples, standard, 30 to 40 feet. Pears, standard, 18 to 20 feet. Peaches, 16 to 18 feet. Cherries, sweet, 18 to 20 feet. Cherries, sour, 15 to 18 feet. Plums, 16 to 20 feet. Quinces, 10 to 12 feet.

EVERYBODY KNOWS ROSS' SEED GROWS

The above photograph was taken at the Holy Cross College grounds, Worcester, Mass., six weeks after seeding with our Worcester and Shady Spot lawn seed.

The Worcester Lawn Grass Seed

PRODUCES QUICKLY AFTER SOWING

a luxuriant velvety growth of rich verdure. Eventually a firm, durable sward which, with proper care, will last for years

It is beyond question that a thicker and more prolonged growth is very generally produced by a combination of several grasses than by only one or two. The Worcester Lawn Grass Seed is a mixture of all of the species which are, because of their fine, even growth, adapted for the lawn. Most of these grasses have also some feature or features peculiar to the species which make it a component, like especially early growth, rapid development, hardness, remarkable tenacity, remaining green late in the fall, permanency, etc. Combined in well-balanced proportions, the result of years of study and observation, the Worcester Lawn Grass Seed will produce in a few weeks a fine, velvety growth, and each succeeding season a continuous thick growth from early in the spring until the ground freezes, forming a close, firm turf which will bear frequent cutting and constant trampling without injury. And with reasonable care this desirable condition of the lawn may be maintained permanently.

Worcester Lawn Grass Seed is a mixture of the highest grade seeds of foreign and native grasses. The mixture is heavier than those generally offered, weighing about twenty-five pounds to the bushel, and is as free from weed seeds as it is possible to make it with the most improved machinery. In all desirable features we claim for the Worcester Lawn Grass Seed, at least, an equality with the best that is offered by others; that it is superior to much that is offered we are certain.

We advise a minimum sowing of 120 pounds to the acre, but often a larger quantity would probably be preferable; 150 pounds would not be too much when the quickest possible effect is desired. A pound will sow about 300 square feet. Price, lb. 45 cts., 5 lbs. \$2.10, 10 lbs. \$4.00, 100 lbs. \$38.00.

THE PARK LAWN GRASS SEED

This mixture is prepared, as far as price will permit, on the same lines as our Worcester mixture. It is designed chiefly to meet a demand for a mixture somewhat lower in price for sowing various large areas and the less important places about the home, but is entirely adequate for all purposes. It comprises nearly all the varieties which form our Worcester mixture, though necessarily in slightly different proportions, and does not contain any coarse-growing varieties. Price, lb. 35 cts., 5 lbs. \$1.60, 10 lbs. \$3.00, 100 lbs. \$28.00.

Golf Course Grass Seed Mixtures

FOR PUTTING GREENS AND FAIR GREENS

We have made a close study of the grasses used on Golf Courses and Pleasure Grounds, as there is no purpose for which turf is grown that is so exacting. No other grass is required to stand so much trampling and rough usage and it is very necessary that the correct proportions of the proper varieties be used to produce a firm, thick and lasting sod. The mixtures listed below are composed of native and European grasses which have proven of great value for this purpose. They are all of dwarf spreading growth, forming a close smooth surface which improves from year to year if given the proper care.

For Putting Green, lb. 75 cts., 24 lbs.
(1 bu.) \$15.00.

For Fair Greens, lb. 50 cts., 20 lbs.
(1 bu.) \$9.50.

The Shady Spot Lawn Grass Seed

PRODUCES IN SHADED PLACES A FINE VELVETY GROWTH

Bare spots seriously affect the otherwise attractive appearance of many lawns, and while for renovating or filling such spots our Worcester or Park Mixtures are entirely sufficient, where such spots are caused by the shade of trees, a renovation can be better accomplished by the use of the **Shady Spot Mixture**. This is composed of varieties which thrive in shade. It includes all known varieties of this class otherwise adapted to the lawn, all of which are of dwarf habit and fine, even growth. To secure a good growth, however, the soil should be properly prepared before sowing seed. Soil that is naturally moist, which has been densely shaded, often becomes sour, which is indicated by a growth of moss and sometimes by hog grass. In such cases, the moss or grass should be removed, the soil thoroughly worked over, and an application of lime be given at the rate of one hushel to each thousand feet. If the soil is dry, and there has been no growth on it for some time, it is usually very hard and it is useless to sow seed without working it deeply and thoroughly pulverizing it. What would be preferable would be to remove some of the soil and add new soil and rotted turf, and thereby furnish humus, which soils on which nothing has grown for some time usually lack. While, if soil is well prepared, the growth will continue for some time, we do not claim the permanency for this that we do for the Worcester when used in the open exposure to the sun, as there are no grasses which, if cut often, will be as permanent in the shade as others in the open. This is especially true if the shade is very dense. We, therefore, advise yearly attention and applications of a small quantity of seed if growth is thin. Those who have hitherto been unable to secure a growth under trees because they have not used a special mixture, will find this of great value, and will be well repaid for any slight expense and trouble incurred in following our suggestions by the greatly improved appearance of the lawn.

Price, lb. 55 cts., 5 lbs. \$2.50, 10 lbs. \$4.80, 100 lbs. \$46.00.

The Worcester Mixtures of Grass Seed

For Meadows and Pastures

Productive, Permanent, Profitable

While on heavy natural grass soils there are perhaps no grasses which will produce larger yields for a short period than timothy and red top. It is a fact acknowledged by many of our best farmers that a combination of several varieties are much superior for a continual large production of hay, especially on lighter soils.

The long lasting drouth that practically all countries have experienced in Europe during the spring and summer of 1921 has very seriously affected all growing crops, but it is safe to say that the grasses, especially the finer varieties, have suffered most and it will naturally make all mixtures containing these varieties somewhat higher in price than for the past two years.

Mixture for Permanent Pasture for Medium Soil

Though many farmers so rotate their crops that the permanency of their mowing fields is not of great consideration, such as regularly pasture their herds, invariably desire that the pasture shall be permanently productive when once seeded. Aside from permanency, an important requisite is that of continual growth from early spring until fall, and as many varieties as possible should be used which bear constant trampling and continued close grazing. This mixture is prepared with these ends in view. 40 to 50 pounds to the acre. Lb. 35 cts.; 10 lbs. \$3.00; 100 lbs. \$28.00.

Permanent Pasture Mixture for Dry, Hilly Lands

In no situation are timothy and red top so unsuitable for seeding, as in a dry, hilly pasture, for both require strong, rather moist land to thrive for any length of time. This mixture is composed of grasses which thrive on light soil, endure long drought and bear, without injury, constant cropping. Lb. 35 cts.; 10 lbs. \$3.00; 100 lbs. \$28.00.

Mixture for Permanent Mowing for Dry Soil

While dry land is not the ideal soil for a grass crop, much larger crops can be obtained with this mixture than with timothy and red top, because it contains, in large proportions, varieties which thrive on dry soil and of which some succeed on soil where both the former would utterly fail. 40 to 50 pounds to the acre. Lb. 35 cts.; 10 lbs. \$3.00; 100 lbs. \$28.00.

Mixture for Mowing for Medium Soil

On soil which is of average natural fertility and neither unusually dry nor wet, well enriched before sowing and regularly top-dressed, in short, on soil which will produce good timothy hay, this mixture

Cutting more than three tons per acre of Mowing Mixture on farm of A. B. Harwood, Baldwinsville, Mass.

will produce at first cutting a larger crop and a much heavier aftermath of hay, which, though not like timothy, salable in cities for feeding horses, is, nevertheless superior for feeding to both cattle and horses, because richer in nutriment, and more readily eaten because more tender; that is, if seed is used in sufficient quantity and crop is harvested at proper time. Not only will the product be greater at first, but, if properly treated, the land will continue in productive condition, for many years. Forty pounds to the acre. Lb. 35 cts.; 10 lbs. \$3.00; 100 lbs. \$28.00.

GRASS SEEDS OF THE HIGHEST GRADE For Mowings, Pastures and Lawn

Prices of all Grass Seeds subject to market changes. Prices include bags or sacks. Unless otherwise noted, 25 lbs. at 100-lb. rate.

With the exception of when more than one grade of a species is offered the seeds of all grasses are of the grade known in the trade as "fancy." This is the highest grade obtainable and is as nearly pure as the greatest care and most improved machinery can make it. This should be considered when comparing our prices with those of other dealers. All the seeds offered have been tested by expert analysts either in this country or abroad and the purity and growth will be given, if desired on application.

Red Top

AWNLESS BROME GRASS (*Bromus inermis*). A very hardy perennial of great value on poor and dry soils. Especially recommended for pastures, as it starts early in the Spring and stands trampling well, forming as it does a very tough sod. The hay is nearly equal to Timothy in palatability, and is relished by all kind of stock, if cut just before flowering. If sown alone use 20 to 30 lbs. per acre. Market price.

CANADIAN BLUE GRASS (*Poa compressa*). A hardy perennial with creeping root-stalks which form a strong turf. It withstands drought better than most cultivated grasses and is especially valuable in Lawn Grass mixtures. It succeeds best on clay soils but does well on sandy soils, being better adapted for use on sterile knolls and barren fields than probably any other cultivated grass. For hay or pasture it is best sown with other grasses. Height six to twenty inches. Lb. 35 cts.; 10 lbs. \$3.00.

CREEPING BENT GRASS (*Agrostis stolonifera*). This is particularly valuable for lawns that are to be used for croquet grounds or for tennis courts, because it is benefited more than hurt by tramping and by its bright color adds to the beauty of the lawn. Market price.

Timothy

EVERYBODY KNOWS ROSS' SEED GROWS

Grass Seeds

A field of Worcester Timothy (99½ per cent pure)

RHODE ISLAND BENT (*Agrostis canina*). Of fine growth, forming a close and permanent sod. One of the best lawn grasses and desirable for pasture mixtures. Market Price. Crop very short.

ROUGH-STALKED MEADOW GRASS (*Poa trivialis*). Thrives on moist, rich land. Valuable for both meadows and pastures, but should be used only in mixture. Especially desirable for shaded lawns. Market price.

TALL MEADOW OAT GRASS (*Avena elatior*). A very hardy species, making an early and luxuriant growth and continuing to grow until late in the fall and is, therefore, especially desirable for pastures. It makes good hay and when used for soiling, can be cut several times in the season. Lb. 40 cts.; 10 lbs. \$3.50.

TIMOTHY (*Phleum pratense*). Timothy is the standard hay of commerce. The cheapness of the seed, the ease of culture, and excellent quality of the hay make it a favorite. It is adapted to all soils, but succeeds best on moist loams and clays. The life of a Timothy field varies according to soil and climate. It produces the most profitable yields the first and second years.

Orchard Grass

WORCESTER GRADE. There are many grades of Timothy in the market and many of these are of a high purity test; but there is a vast difference in the quality of pure seed. Much of this is light seed, cleaned and recleaned until the purity is of a high percentage, almost 100 per cent pure, but still remains light seed which under the best conditions is of only fair germination. Our Worcester Grade is a seed which is of the highest quality at the start. Taken from the best fields of full ripe seed, we can assure you, that after going through the cleaning process we can guarantee a purity of 99.5 per cent. In the Worcester brand we are offering the best seed it is possible to obtain. Lb. 15 cts.; 25 lbs., \$3.25; 100 lbs., \$12.00.

WACHUSETT GRADE. This grade is of fine quality, better than most seed offered as prime. We guarantee this 97.5 per cent pure. Lb. 14 cts.; 25 lbs. \$3.00; 100 lbs. \$11.00.

CRESTED DOG'S-TAIL (*Cynosurus Cristatus*). A stoloniferous perennial forming a smooth, compact lasting turf. Thrives best on rich moist land but it can adapt itself to almost any soil. Its roots penetrate deeply thus enabling it to stand severe drouths. The color is the same as that of Kentucky Blue Grass and it is therefore excellent in mixture with that sort for lawns. If sown alone 30 pounds to the acre is none too much but it is recommended only in mixtures with other sorts. Lb. 55 cts.; 10 lbs. \$5.00.

ENGLISH or PERENNIAL RYE GRASS (*Lolium perenne*). Of rapid growth and productive; produces a strong growth in four or five weeks. Made into hay it is rather hard, but is very nutritious and is much relished by cattle and horses. Lb. 25 cts.; 10 lbs. \$2.00.

ITALIAN RYE GRASS (*Lolium Italicum*). Thrives on a variety of soils, producing early and large crops. Though a perennial, it is short-lived and generally treated as an annual. Valuable for soiling. Sown in the fall, will produce a large crop of hay the following season. Lb. 25 cts.; 10 lbs. \$2.00.

KENTUCKY BLUE GRASS (*Poa pratensis*). One of the most valuable grasses for pasture and lawn, requires some time to become established but lasts indefinitely on congenial soils. Sown with White Clover it forms a splendid lawn; for this purpose use not less than fifty-four pounds of Blue Grass and six pounds of White Clover per acre. If sown by itself for meadow or pasture use about twenty-eight pounds per acre. Lb. 50 cts.; 10 lbs. \$4.50.

MEADOW FESCUE (*Festuca pratensis*). Largely used for permanent mowing mixtures. Though at once productive, it does not reach its full production for two or three years, when it surpasses most other grasses. Succeeds best on cool, moist soil rich in organic matter. Lb. 25 cts.; 10 lbs. \$2.00.

MEADOW FOXTAIL (*Alopecurus pratensis*). One of the best pasture grasses; makes an earlier growth than any other variety, thrives best in low, moist land, but grows well on high, light soil and bears extreme summer heat without burning. Market Price.

ORCHARD GRASS (*Dactylis glomerata*). One of the most nutritious and valuable grasses, early, hardy, and permanent, and thrives in all soils and situations. Bears frequent mowing and constant cropping, and is very productive. Should be included in liberal proportions in most mixtures for both mowing and pasture. Lb. 25 cts.; 10 lbs. \$2.00.

FANCY RED TOP. WORCESTER GRADE (*Agrostis vulgaris*). Next to Timothy this is the most largely used grass; it is highly recommended both as a permanent pasture and as a meadow grass for hay, throughout New England and the Southern States. It will not do well in sandy or leachy soils, but it is said to be adapted to a wider range of soil and climatic conditions than any cultivated grass grown in America. Used extensively in lawn mixtures. Lb. 35 cts.; 10 lbs. \$3.20; 100 lbs. \$30.00.

RED, or CREEPING FESCUE (*Festuca rubra*). A creeping-rooted grass thriving in dry, poor soils. Forms a close, firm turf and is valuable for shaded lawns. Also valuable for gravelly banks and exposed hillside. Lb. 70 cts.; 10 lbs. \$6.50.

Kentucky Blue Grass

CLOVERS

Build Your Land with Clovers

It has been demonstrated many times that crops following a growth of Clover are larger and of better quality than when grown on land which has produced the same crop year after year. Clover should be rotated with grain crops every three to five years. The small nodules or bacteria which cling to the roots possess the power to draw nitrogen from the air and store it in the soil where it can be drawn upon by subsequent crops. We advise always sowing clover with grass seed as it restores fertility and can be pastured in the fall to good advantage or may be plowed under for green manure.

Inoculate your clover with MULFORD CULTURE, SEE PAGE 8.

ALSIKE OR SWEDISH CLOVER

(*Trifolium Hybridum*). One of the best for mixing with timothy; it is perfectly hardy in every climate or soil condition and seldom has to be reseeded. Under ordinary conditions it grows from 1 to 2 feet high; is sown early in the spring or late summer and early autumn. It is as nutritious as red clover and is rapidly coming to the front as a valuable farm crop. Flower resembles white clover except head is larger and has a red tinge on the edge. Sow 10 to 15 lbs. per acre alone, or 8 lbs. per acre with timothy. **Lb. 30 cts., 10 lbs., \$2.80, 100 lbs. \$28.00.**

CRIMSON CLOVER (*Trifolium Incarnatum*). This is used principally for soiling or green manuring, for which purposes it is highly valuable. If desired for feed, cut it just before it flowers. When desired for green manure, it should be allowed to mature; its height is from 1 to 2 feet. Sow any time from April to October, the earlier the better, 20 lbs. to the acre. If sown in early spring it can be plowed down the first year. Late summer or fall seeding is usually practiced. It is not hardy and must be sown each year. **Lb. 30 cts., 10 lbs. \$2.80, 100 lbs., \$26.00.**

MAMMOTH RED CLOVER (*Trifolium Pratense Perenne*). Sometimes called Sapling or Pea Vine Clover and English Cow Grass. This differs from the "Medium," being of a ranker growth and yielding more fodder per acre. It ripens somewhat later and is more hardy, lasting several seasons longer than the medium red clover. It also does well on poorer soils. The seed cannot be

Medium Red Clover

distinguished from the Medium Red. Our supply, however, is strictly reliable. Sow in early spring or in July and August, using 20 lbs. per acre alone, or with other crops 10 lbs. per acre; flowers pink. It can be cut several times in a season. **Lb. 36 cts., 10 lbs. \$3.40, 100 lbs. \$33.00.**

MEDIUM RED CLOVER (*Trifolium Pratense*). More widely known and used than any other; used principally for hay purposes. Height from 18 inches to 2½ feet. Sow early in the spring or in late summer—July and August; if alone, 20 lbs. per acre; if with other crops, 10 lbs. per acre. A red clover field can be cut twice a season. It is usually resown every third season; flowers pink. **Lb. 35 cts., 10 lbs. \$3.30, 100 lbs. \$32.00.**

WHITE DUTCH OR LAWN CLOVER (*Trifolium Repens*). This is valuable for pasturage as well as for lawns; it succeeds where other clovers and grasses fail, and it seldom dies out. It can be sown at all seasons, although early spring is best; flowers greenish white. Sow 10 to 12 lbs. per acre if alone, or 5 lbs. if sown on old turf or with other crops. **Lb. 85 cts., 10 lbs. or over 80 cts. per lb.**

SWEET CLOVER

BOKHARA OR SWEET CLOVER (*Melilotus Alba*). This is a native of all parts of the United States and Canada and is a valuable addition to farm crops. It is an erect branching biennial plant with woody stems growing the first season two to three feet high and developing a large root. The second year's growth usually reaches a height of four to seven feet. It bears seed the second season and then the plant dies, so it is easily controlled by cutting before the plant goes to seed which will prevent any seed being self sown. Sweet Clover grows in a variety of soils, in fact will thrive in any but an acid soil and is a splendid crop for plowing under as it supplies so much humus and nitrogen to the soil. Sow 15 to 20 pounds per acre. **Lb. 25 cts., 10 lbs. or over 22 cts. per lb.**

HUBAM-ANNUAL SWEET CLOVER. When first compared with other Clovers, Hubam made as much growth in four months as the biennial did in fifteen months. It grew 4½ feet high while Red Clover was growing 14 inches. It is the quickest growing Clover that any one can grow. It makes as much growth in four months as any of the other Clovers under cultivation will make in a year. It will produce pasture in a little over 30 days and a hay crop in three months. See page 12. **Lb. \$1.25, 10 lbs. or over \$1.10 per lb.**

Hungarian Millet

Crimson Clover

EVERYBODY KNOWS ROSS' SEED GROWS

MILLETS

The varieties of Millet are among the oldest of cultivated grains. A large part of the world's inhabitants subsist upon the different Millets, especially in Africa, Turkey, Persia, India and Japan. However, in our country we are chiefly interested in the use of Millet as a stock food.

Millets are especially adapted to regions of light rainfall and hot weather. They are used principally for forage, being very valuable where Timothy is an uncertain crop. The hay is fed most satisfactorily to dairy cows and sheep. In feeding value it ranks well above Timothy.

HUNGARIAN MILLET

An excellent food for horses when cured.

This is commonly known as "Hungarian Grass." Each root sends up several slender stems which often branch. The leaves grow upright, rather narrow. Heads are borne erect or nearly so, about four inches long, dark purple in color, bristly and very compact. The seeds are brownish black mixed with yellow. This variety withstands drought remarkably well. If its growth is checked by dry weather the least rain will restore its vigor. It flourishes in light, dry soils, but does best in good soils, well manured. This gives a very fine quality of hay on account of its slender, leafy growth. Price, lb. 12 cts.; 100 lbs. \$10.00.

GOLDEN MILLET

The stems are single or few in number from each root, they grow large and stout, unbranching. The leaves are rather short, broad and stiff, the heads are often an inch in diameter, and 6 to 8 inches long. The seeds are small, of a golden or yellow color. This will give a very heavy tonnage of first class feed. With thin seeding the stems become coarse and reed-like, therefore we recommend using a liberal quantity of seed. Price, lb. 10 cts.; 100 lbs. \$8.00.

JAPANESE MILLET

(*Panicum frumentacea*)

The seed from which so far as known, all of the Japanese Barnyard Millet now cultivated in the United States has descended, was brought to Amherst from Northern Japan by William P. Brooks, Director of the Massachusetts Agricultural Experiment Station, in 1889. Prof. Brooks, who had become impressed with the great value of the crop for forage, began distributing seed in small quantities to private farmers in various parts of the State. The success of the crop was immediate.

It is entirely distinct from all other millets. It grows from 6 to 9 feet high, stands up well and yields enormous crops. When cured it makes good hay and in quality is superior to corn fodder. It is relished by all kinds of stock and is rich in milk producing qualities.

Japanese Millet stools freely, it is very leafy and the heads are compact. It will thrive best on moist, rich soil, as it does not endure drouth well. Like all coarse growing plants it needs abundant plant food and when given this on good soil the yield is immense.

The seed of Japanese Millet never has long awns and is a dark brown color while the Barnyard Grass is usually long awned and dark gray color by which it is easily distinguished. Lb. 10 cts.; 100 lbs. \$8.00.

Japanese Millet

Sudan Grass

WHAT SUDAN GRASS IS

It is the most prolific and dependable hay crop in the area of limited rainfall in the North and West. Introduced into the United States by Professor C. V. Piper, of the Department of Agriculture, in 1909, it has surpassed the fondest expectations and undoubtedly will replace the millets over a large area where the latter are hay producers at the present time.

If planted in drills, cultivate often and shallow. The roots grow near the surface, and deep cultivation after the plants get well started will cut off a large proportion of the roots and reduce the yield. The cultivation may be done with the ordinary corn cultivator. Keep the soil well worked until the plants cover the ground so that weeds will not grow.

Sudan, growing as it does, frequently as high as 9 feet, when planted in rows and cultivated, and 4 to 5 feet when sown broadcast, exceeds any other grass in yield. For a grass its yields are nothing short of miraculous, often reaching seven tons per acre, seldom running less than four tons.

In the Southern States three crops are becoming the rule, while in Minnesota, Dakota and the Northwest, only two cuttings are secured, or a total yield of about four tons. On irrigated land it should yield six to nine tons easily. As a catch crop Sudan is fully equal to Millet.

The quality of the hay is exceptionally high, chemical analysis showing it to be of equal value with Timothy and Johnson Grass. It is equal to Millets in feeding value and gives much heavier yield. The hay is nutritious, palatable and highly relished by stock. Lb. 30 cts.; 100 lbs. \$25.00.

"The Sudan Grass did fine, grew as high as 6 feet."—L. A. Lanahan, Magog, Que., Can. Dec. 5, 1922.

Sudan Grass grown by Mr. D. L. Brooks, Worcester, Mass

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS. ALFALFA

Growing Alfalfa is dependent on the grower himself. It's an easy crop to grow if proper precautions are taken, but it's absolutely necessary to buy fresh new crop seed the very best quality. It is necessary to have a good seed bed. It is necessary to inoculate the seed. It cannot be sown on sour or acid soil without liming. An Alfalfa stand can only be secured by careful attention to above. Any of the above reasons will keep you from success.

Alfalfa can be readily grown on nearly any farm. It is worth double to you any forage crop you have grown. Because some neighbor has failed is no reason you cannot succeed.

As a soil builder the Experiment Stations tell us that it adds twice as much nitrogen to the soil as the average acre of Red Clover.

Just bear in mind that the Alfalfa plant produces an enormous root growth, these roots penetrate the subsoil to a great depth, loosening the potash stored below, making it available as plant food in such a manner as is impossible to duplicate with a plow.

NORTHERN GROWN SEED. Very hardy. We guarantee this to be 99 per cent pure—and absolutely free from dodder and tree-foil. Price, lb., 35 cts.; 25 lbs. or more, 32 cts. per lb.

GRIMM ALFALFA

GRIMM ALFALFA. So called from the fact that it was introduced in Minnesota by a Mr. Grimm from Europe, who called it Norwegian Alfalfa. This strain of Alfalfa has proven superior to all others, coming through our most severe winters without being injured, where the ordinary strains sometimes suffer severely. The most important feature connected with the introduction of the Grimm Alfalfa is its spreading root and crown. Its spreading root allows it to be grown on land which has a subsoil that is impossible for roots to penetrate; while its crown being broad allows closer cropping or cutting without injury. We are able to supply True Grimm Seed. Price: Lb. 75 cts.

Inoculate Your Alfalfa, Clovers, Cow Peas, Soy Beans, Vetches and all other legume crops with

Specimen plants characteristic of uninoculated and inoculated field of Alfalfa, on farm near Bynum, Hartford County, Maryland. The uninoculated plants turning yellow, though sown on ground richer and better than the inoculated field. Gain from inoculation nearly 500 per cent, by weight.

Mulford Cultures

FOR LEGUMES

Small Cost—Large Returns—Easy to Use—No Labor Expense

Mulford Cultures contain pure, tested strains of active vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil.

Mulford Cultures are scientifically prepared and tested with the utmost care and skill. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture and may readily be applied to your seed. The sealed bottle insures purity.

Legumes offer the best-known means of maintaining soil fertility and rejuvenating over-cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of wheat, cotton and corn and other non-legume crops.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria to induce a prompt "catch" and increase your yield.

Mulford Cultures are prepared for Alfalfa, Crimson Clover, Sweet Clover, Red Clover, Alsike Clover, Burr Clover, Cow Peas, Soy Beans, Peanuts, Vetch, Velvet Beans, Sweet Peas, Garden Peas, Garden Beans, Lima Beans Lespedeza, Beggar Weed and others.

Always specify on your order what crop you want to inoculate, as there is a different strain of bacteria for each legume.

Prices: 5-Acre Size, \$5.00 (A Dollar per Acre), Mailing Weight 5 lbs.; 1-Acre Size, \$1.50, Mailing Weight 1 lb.; 1/4-Acre Size, 75 cts., Mailing Weight 1 lb.; Small Size (Supplied only in four varieties, for Garden Peas, Garden Beans, Lima Beans and Sweet Peas), 35 cts., Mailing Weight 1 lb.

FREE DESCRIPTION FOLDER SENT UPON REQUEST

EVERYBODY KNOWS ROSS' SEED GROWS

Swedish Select Oats

ROSS' "SWEDISH SELECT" OATS

Extra Heavy Re-cleaned Seed

Introduced a few years ago by the U. S. Department of Agriculture and today the most largely planted of all varieties in the Northern Central States. Briefly described the oat is pure white in color; the hull is thin and the kernel large and plump; straw is stiff and strong enough not to lodge. A remarkable root development makes the Swedish Oat a good drought resister—a special feature on light soils. Season medium early and the earliest of the heavy yielding sorts. Especially suited to high land. Pk. 40 cts., bu. (32 lbs.) \$1.30, 10 bu. or more \$1.25 per bu.

After repeated tests, the following is said of this popular variety of oats:

At the Wisconsin Experimental Station: "It has stood at the head of the list for several years."

Professor Moore of Wisconsin says: "The most satisfactory Oat of all."

GROW NEW POTATOES

from Hybridized "Seed Ball" Seeds.

Order now. This may be your last chance. Packet, with directions 15 cts., 4 for 50 cts., 10 for \$1.00.

Selected Seed Oats

Sow 3 bushels per acre

Prices Include Bags

All Prices Subject to Market Changes

Reasons why you should sow Our Selected Seed Oats.

1. Maximum yield per acre.
2. Highest Standard of Quality.
3. Hardy and disease-resisting constitutions.

It costs almost as much to raise a poor crop as it does a good one. If you get only the ordinary yield you get very little for your time and labor. It is the extra 10, 15 or 20 bushels per acre that makes the profit. If your oats are light, have small kernels and are affected with smut DON'T SOW THEM. Get some that are better and will yield a profit. Oats should be sown in April and early May to secure best results, and a good heavy seed should be used. Good seed oats weigh from 36 to 46 pounds per measured bushel and a lighter oat is not fit for seeding purposes. You cannot afford to buy a common feeding oats for seed, the extra cost per acre for good clean oats free from all dirt and weed seed is very small when you consider the increase in yield.

LONG'S WHITE TARTAR

An Ideal Oat for All Uses

The earliest, heaviest and most prolific domestic-grown Side Oat in cultivation. It is suitable for all soils; of robust and vigorous constitution, is remarkably early and an immense cropper; the straw is long and stout, stands up well and does not readily lodge or twist. The heads measure from 8 to 10½ inches, and the kernels are of immense size, thick, plump and heavy; it is undoubtedly the heaviest cropping domestic white Oat ever offered.

Its extreme earliness, great length and strength of straw, thick, plump grains and the heavy yields it is capable of producing give Long's White Tartar all the necessary qualifications which go to make an ideal Oat. Pk. 50 cts., bu. (32 lbs.) \$1.60, 10 bu. or more \$1.50 per bu.

STORM KING OATS

The seed of this variety was originally imported, but has been grown in this country for several years and is now thoroughly acclimated. It makes a very strong growth of straw which will withstand severe weather without lodging. The grain, which is borne somewhat on one side of the head, is short, plump, thin-skinned and of the highest feeding value. It is heavy, weighing 44 to 46 pounds per measured bushel. The Storm King has made a yield of 60 bushels per acre. Pk. 50 cts., bu. (32 lbs.) \$1.60, 10 bu. or more \$1.50 per bu.

A Field of White Tartar Oats

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Dwarf Essex Rape

in favorable seasons nearly white. On account of its attractive appearance the variety is extensively grown for green forage. **Pk. 70 cts., bu. \$2.50.**

MANSURY. In our section this six-rowed variety is largely grown for forage. It yields abundantly. It is early and very vigorous in growth. The straw is strong and stiff and seldom lodges. The heads are long and well filled. No other Barley excels it for feeding or malting purposes. **Pk. 70 cts., bu. \$2.50.**

BEARDLESS. Earlier than any of the bearded varieties and is generally considered more hardy. The straw is heavy and stands up well under a large crop. Very popular for forage and especially valuable for hay as the heads are entirely free from beards which when dry are thought to often be injurious to cattle. The grain, while it germinates well, is always light in weight and of rather inferior appearance and, though a productive variety, the chief value of the Beardless is for forage or hay. **Pk. 75 cts., bu. \$2.75.**

BUCKWHEAT

For grain, 1 bushel to the acre; for soiling, $1\frac{1}{2}$ bushels.
48 lbs. to the bushel.

JAPANESE. This is entirely distinct from all other varieties. It has the advantage of remaining some time in bloom and produces seed earlier. On this account it can be grown farther north. It resists drought and blight better than most varieties. The seed is larger than the Silver Hull and is a rich brown color. **Pk. 70 cts., bu. \$2.50.**

PEAS, CANADA FIELD

Oats and Canada field peas make the best green crop to follow clover. Generally it is advisable to make three sowings; the first as early as possible in the spring, April 20 to 25, and the second and third fifteen and thirty days later. One and one-half bushels each of the oats and peas is the usual quantity to the acre.

The first sowing will be ready about June 25 and cutting should begin as soon as the oats show the head. The average yield from the first sowing is 10 tons to the acre. The yield from the second and third sowings is not likely to be as heavy, as the crop matures quickly during the warm weather. Oats and peas will remain in condition to be cut for 10 or 12 days.

CANADA PEAS may also be sown with other grains as well as with oats, and are sometimes sown in August with Barley. They are also sometimes sown alone. Choice stock for seed. **Lb. 12 cts., 25 lbs. or over 10 cts. per lb.**

COW PEAS

Mulford Culture for Cow Peas, See Page 8

In drills 1 bushel to acre. Broadcast, 2 bus. 60 lbs. to the bu.

Cow Peas produce enormous bulk and for this reason the plant is a favorite with some as a forage plant and also as a humus maker when plowed into the soil. It is, of course, like all the legumes, a soil enricher as well. The Cow Peas will grow on all kinds of soils from stiff clay to sand, barren uplands, and used either as green fodder, hay or as silage, the product is of high feeding value. While for plowing under on stiff clay soils the growth should be turned under while green, it is generally considered that on light sandy land the vines should be allowed to partially decay on the surface before they are plowed into the soil. All crops seem to do well after Cow Peas.

NEW ERA. An old stand-by which makes splendid hay. Matures in 60 to 75 days and does splendidly as far north as Minnesota. Vines are smaller than other varieties and are more easily cured. **Pk. \$1.00, bu. \$3.75.**

WHIP-POOR-WILL. A medium-early variety, very desirable for a forage crop and for rebuilding worn out land. A very prolific yielder and the most commonly used variety for planting broadcast. **Pk. \$1.00, bu. \$3.75.**

DWARF ESSEX RAPE

It is an annual bearing a close resemblance in leaf and stalk to the Rutabaga, but both leaves and stalks are more numerous in the Rape plant which may be eaten off by any kind of live stock, but it is pre-eminently fitted to furnish pasture for sheep, cattle and swine.

It should be from eight to twelve inches high when stock is first turned in and it ought to make growth enough to support at least ten sheep per acre during the growing period of the Rape crop. Rape makes a second growth from the standing roots when the livestock is removed, and may be repastured later. Successive sowings, made three or four weeks apart until July 1, will give a very satisfactory feeding crop throughout the entire Summer.

Culture. Rape is best adapted to moist, rich soil in which there is plenty of humus. Slough lands are especially good. It grows best in cool, moist weather and the time for sowing depends upon when the crop is to be used. When wanted for pasture, allow 8 to 10 weeks for it to attain maximum growth. Sow 1 to 2 pounds of seed per acre in drills and cultivate, for a weed-cleaning crop. For broad-casting, use 5 pounds per acre on rich, weed-free soil, so that the Rape will not be choked by weeds.

For continued hog pasture, sow Rape early and at successive intervals. It may well follow any grain crop and is always splendid to plow under for green manure. **Lb. 15 cts., 100 lbs. \$12.00.**

BARLEY

For grain, 2 bushels to the acre; for forage, 3 bushels, 48 lbs. to the bushel **CHEVALIER.** A two-rowed variety. Head is a little longer than the six-rowed varieties and the grain is larger, plump, extra-heavy and fine quality, the grain brings the highest price, while

Buckwheat in Bloom

EVERYBODY KNOWS ROSS' SEED GROWS

Rye

For grain, 1 bu. to the acre, for forage or soiling $1\frac{1}{2}$ bu., 56 lbs. to the bu

SPRING RYE

True Stock, Spring Rye makes an excellent crop where winter grain has been killed out, or for sowing where a fall crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Sow seed same time as other spring grain. Does not grow quite so large straw as Winter Rye, but usually yields well and grain is of fine quality.

We wish to emphasize the fact that we sell the genuine Spring Rye, sown in the Spring and harvested the same season. **Pk. 80 cts., bu. \$3.00.**

ROSEN WINTER RYE

To Prof. Spragg, of Michigan Agricultural College, is due the credit for developing this most remarkable grain, which we believe is destined to add many thousands of dollars annually to the value of farm crops in the United States.

A Russian student of the Michigan Agricultural College brought with him from Russia a handful of rye which he gave to Prof. Spragg, who planted it, and from the crop selected a single plant which showed exceptional characteristics. The grain from the plant was saved and planted the next season and from this crop he again selected plants of the most promising type, repeating this process from year to year until he had sufficient seed to parcel out among a few expert farmers in different sections, at the same time continuing it as a crop at the State Experimental Farm in Michigan, where for three years the average yield has been 41.3 bushels per acre, of an exceptionally high quality of grain.

The development of Rosen Rye has been of such a character and the present supply has been so carefully handled, that it is safe to say it is the purest pedigree seed in existence, as the growers have taken particular pains to prevent cross fertilization and mixing with other grains.

Rosen Rye produces a strong vigorous straw and stools to a remarkable degree. The grain is large, plump, heavy and of a beautiful color, commanding a premium on the market over other grains. Owing to its vigorous stooling property less seed is required, the practice being about one and one-half bushels per acre. We believe that Rosen Rye is cheaper to sow even at double the price of common rye, for the excess yield will more than pay for the seed, not to mention the better quality and higher price to be obtained for the crop. **Market price.**

Rosen Winter Rye

All prices in this catalogue are based on the lowest market prices at the time catalogue goes to press but they are subject to market changes. This applies to both advance and decline.

Soy Beans

Soy or Soja Beans

Mulford Culture for Soy Beans, See Page 8

$\frac{1}{2}$ to $\frac{3}{4}$ bushel to the acre in drills $2\frac{1}{2}$ to 3 feet apart

This is another valuable legume, growing in favor for forage and ensilage, often succeeding well on land too light for clover. While it has not been so generally grown in this country as the Cow Pea, it is considered by some preferable for the North, as it does not require so long a season.

BLACK EYEBROW. Beans are black and yellow, are easily identified. They are very prolific, grow rapidly and ripen early, producing a wonderfully heavy crop. In our section they have proven better than other varieties. **Pk. \$1.35, bu. \$5.00.**

ITO SAN. Ito San Soy should ripen anywhere in the North—it is Northern Grown seed. Northern Grown Seed sown in the south produces larger yields, stronger vines, higher nutritive value. Matures in 90 days, grows $2\frac{1}{2}$ to 3 feet high. Immensely productive. **Pk. \$1.25, bu. \$4.50.**

MEDIUM EARLY YELLOW. The largest growing and most popular Soja Bean for forage purposes, although a little later in maturing than the other varieties. **Pk. \$1.10, bu. \$4.00.**

Mammoth Russian Sunflower

For the Silo

We believe every farmer, stockman and dairyman who must grow feed crops should plant a small area with sunflower. Start now to become familiar with this crop, which is destined to be a prominent feed in economical stock feeding.

Sunflower experiments have demonstrated it to be peculiarly suited to dry seasons, and producing immense tonnage even under unfavorable conditions. In feeding value, sunflower cut in bloom is fully equal to corn cut green for silage. Cattle, sheep, swine and horses find it very palatable. Sunflower silage will keep for several years. Best results are secured by planting in rows 30 to 36 inches apart, drilled four to six inches apart, in the rows. Sunflower can safely be planted at corn planting time, or a trifle earlier, using an ordinary grain drill. When planted in 36-inch rows, 4 or 5 inches apart in the row, it requires 5 pounds of seed.

Harvest similar to corn. A corn harvester can successfully be used. Best time to cut is when from fifty to eighty per cent in bloom. The great value in sunflower for ensilage lies in its ability to produce big crops in dry hot weather and the small acreage necessary to produce large tonnage any season.

Particularly suited to the high altitudes, as it seems to grow right along during cool weather when corn growth seems to have stopped. Withstands wind better than corn. **Lb. 20 cts., 100 lbs. \$15.00.**

A field of Hubam Clover

HUBAM—Annual Sweet Clover

Something new—Does in one year what it took two to do before.

Farmers everywhere are paying unusual attention to Hubam, the Annual White Blossom Sweet Clover discovered by Prof. Hughes of the Iowa Agricultural College. Though new, it is not an untried crop as it has been grown successfully in every state in the Union, in nearly every province in Canada, in Europe, and in England. There are in fact very few crops of any description that can be grown over as great an area successfully. Under ordinary conditions Hubam will make a satisfactory yield on any type of soil of average fertility that is not sour.

On account of its rapid and luxuriant growth, it excels other crops in producing a large volume of organic matter to be turned under. It will no doubt revolutionize farming in some sections by bringing back fertility to worn out farms in a few years where many years are required ordinarily.

Wherever grown, it is reported as the greatest bee pasture, that one acre of Hubam furnishes more nectar than an acre of any other Clover as it blooms from June till frost. The resulting honey is of superior flavor and quality. Hubam furnishes pasture, not only for bees, but for every class of stock on the farm. The plants whether used for pasture or for hay are nutritious.

It will grow most anywhere as long as the soil is not distinctly acid. There has been a scarcity of seed from the start and it is not likely that there will be an ample supply for a great many years to come. There is a good opportunity for the farmer to grow it for seed and build up his farm at the same time.

Every farmer should have a field of Hubam. It will make more money than any other Clover one can grow. Lb. \$1.25; 10 lbs. or over \$1.10 per lb.

Wheat

1½ bu. to the acre, 60 lbs. to the bu.

MARQUIS SPRING WHEAT was originated by Chas. and William Saunders of Ottawa, Canada, by crossing Red Fife and Hard Calcutta, a native Wheat of India which had become acclimated to northern conditions. The first experiments were conducted in 1886, and it was not until 1903 that it was fully developed. By scientific cross breeding, a variety was produced that inherited the remarkable earliness of the Calcutta, and the frost-resistant and yielding qualities of the Red Fife. The original stock of seed was very small, but by careful husbandry the amount was gradually increased so that it might be disseminated throughout America. It has outyielded all other Spring Wheats grown under the same conditions of soil and climate; the increased yield being up to 10 bushels per acre. Marquis Wheat is flinty and dark in color, being almost dark red. It is a beardless variety having a smooth yellow chaff. Price, pk. \$1.00, bu. \$3.75.

WINTER WHEAT. The yield on Winter Wheat per acre is on the average very much larger than any of the spring wheats. It should be sown early in the fall to secure a good firm root to survive our New England winters. Winter Wheat makes an excellent green feed coming very early in the spring and staying in condition for feed much longer than Spring or Winter Rye.

RED WAVE (Beardless). Considered the best and most productive variety in cultivation. Heads very long and broad, filled with medium long, large, bard, dark kernels. Straw, golden, medium height, stocky and strong. Bu. (60 lbs.) Market Price.

WINTER—KLONDIKE. A remarkably productive bald white variety, large and plump. Excellent for green feed. Bu. (60 lbs.) Market Price.

Vetches

One bushel to the acre; with oats or rye, ½ bu. 60 lbs. to bushel

Use Mulford Culture for Vetch, See Page 8

SPRING VETCH, or SPRING TARE. This, like Field Peas, is used for both green fodder and for plowing into the soil. In this latitude it can be sown only in the spring and is more largely used in this season than the Haired Vetch which may be sown either in the spring or fall. Thriving on rather poorer soil than Canada Peas, its use is rapidly increasing as a green folder. Lb. 15 cts., 10 lbs. or over 12 cts. per lb.

WINTER SAND, or HAIRY VETCH (Vicia villosa). While this will be of much larger growth on good soil and should be grown on such soil when the crop is designed for green fodder or hay, it thrives remarkably well on light, poor soil. Though it produces on good land an enormous crop and whether used green or as hay is more nutritious than Clover and readily eaten by all kinds of stock and is therefore a profitable crop to grow for feeding, it is perhaps, of greater value for other purposes. No other legume surpasses it as a nitrogen gatherer and no other equals it as a cover crop. It is perfectly hardy, remaining green all winter and is therefore much superior to Crimson Clover in the Northern States as a cover crop. It also produces a much larger bulk than the Crimson Clover and is therefore superior to it as a humus maker. In this respect as well as a cover crop it is fully equal to Winter Rye and is superior otherwise as, in common with other legumes, it adds nitrogen to the soil. Though rather slow in starting in the spring, when once started it grows rapidly and will generally by May 1st, have made a growth of 18 inches or more. As the stems are rather weak, it is generally sown with grain which serves as a support. Seed is usually sown in August or September at which time either Rye or Wheat may be sown with it. If sown in the Spring, Oats are generally sown with it but sometimes Barley is used. When sown at this time the crop is generally used for feeding. Lb. 30 cts., 10 lbs. or over 28 cts. per lb.

Winter Vetch

EVERYBODY KNOWS ROSS' SEED GROWS

The Sheffield World Prize Flint and Smoky Dent Corn

SHEFFIELD WORLD'S PRIZE FLINT CORN which we introduced in 1911 is an early eight-row variety which has been grown in Vermont since 1867. The seed was brought to Sheffield, Mass., and has been grown in that town ever since. The ear of this corn has a very compact form, usually well capped at the tip, similar to the Improved Canada. The average length of the ear is 8 to 8½ inches. The kernels are very broad, and of dark color. This corn exceeds in proportion of corn to cob any other variety.

Sheffield corn is a safe variety to plant where early frosts are expected or in states where the season is generally short. While it may be possible under favorable conditions and high fertilization to produce more bushels of corn of some of the longer varieties, in our opinion the Sheffield is the safest and surest kind to plant for a general crop.

Owing to the fact that Sheffield Corn will mature in a short season and also give a minimum quantity of forage, it is being used quite generally for silage in the states of New Hampshire and Vermont.

½ pk. 50 cts., pk. 90 cts., bu. \$3.25.

"Some months ago you shipped me a few bushels of Sheffield Prize Flint Corn and I find that it ripens nearly ten days earlier than a strain that some of the farmers obtained through the Farmers' Exchange, which is a good selling point with me. Can you furnish me with this same strain next season and can you give me an idea as to price? Thanking you for an early reply, I remain,"

Yours truly,

W. E. Jones.

A NEW CORN "EARLY SMOKY DENT"

This new variety of dent corn, we believe to be the heaviest yielder of any extreme early variety of corn yet introduced.

It is a very hardy grower, and prolific yielder for so early a corn. This corn has nice leafy stalks, averaging 8 feet in height, which very often yields two nice ears, measuring 8 to 10 inches in length, well filled with a good sound kernel, of a dark red shade, tipped with pure white, making it a very handsome corn in appearance.

It has matured in 75 days from date of planting and yields on an average of 100 bushels good sound corn per acre. This corn can be grown with success anywhere that Early Canada Flint Corn matures, as it is some ten days earlier than Early Canada.

It has been grown for the past five years, and we cannot recommend it too strongly as it has surpassed any early dent variety known to us, as to early maturity, size, quality and yield. We strongly endorse it for use in the northern climate where a good early growing variety of corn is wanted.

It is the earliest dent corn in cultivation, is a good yielder and entirely free from disease. It is the most beautiful colored-up corn in cultivation and has been named Early Smoky Dent because of its color. It grows strong, quick and has splendid seven to eight foot fodder. It will mature in Canada, New York State, Vermont, Maine, Massachusetts, or any state where Early Canada Flint corn will.

We are confident that this new dent corn will fill many corn cribs here in New England where it has been almost impossible to mature a dent corn except in an unusual season.

½ pk. 70 cts.; pk. \$1.25, bu. \$4.50.

Read a few of the many letters we have received from our customers who have planted Early Smoky Dent Corn the past season.

Dear Sirs:—I planted your Early Smoky Dent Corn May 18th on land too wet for quick ripening and harvested good ripe corn from it in season to win two first premiums at the New England Fair held Sept. 2-3-5-6. I think it is one of the earliest ripening corns I ever raised and a great yielder.

Nov. 10, 1922.

Elliott Moore, Worcester, Mass.

Dear Sirs:—Regarding the results obtained from the Smoky Dent Corn, I am pleased to say that it gave a very good yield for this year considering the unfavorable weather in the early part of the season with its very cold nights. With only ordinary care it husked a little over one hundred bushels per acre. Under favorable conditions I am sure it will do a great deal better. Is sure a great corn for our short season.

Yours truly,

Chas. Silleman, Orchard Park, N. Y.

Nov. 13, 1922.

Ross Bros. Co.:—In reference to the Smoky Dent seed corn would say that the results were very satisfactory. I did not plant it until some time in June owing to delay in fitting the ground, but it matured its crop long before the first frost and I can say that it is the surest maturing corn that I ever grew. Every stock producing an ear and very frequently two fine ears to the stock and no soft ears were found in the Smoky Dent even to the smallest nubbin.

Nov. 10, 1922.

Very respectfully, J. A. Fox, Kent City, Mich.

Ross Bros. Co.:—Concerning the Early Smoky Dent Corn I did not keep any record of dates or yield per acre. I snapped off the best ears and put the rest into silage. I liked it so well I have saved the best ears for seed next year.

I picked out the best ten ears and took first prize at the East Haven Fair Sept. 8 and 9, as your books will show it was planted late and we had a wet, cool season but it did well under all of those conditions.

Respectfully,

H. Wilson Carey, Branford, Conn.

Oct. 30, 1922.

Sheffield Prize Flint
about ¾ size

ROSS' EUREKA ENSILAGE CORN

will produce more tons per acre than any other ensilage variety

Harvesting Eureka Corn in Durham, Connecticut

Ross' Eureka Corn

1911 Record 70 tons 800 pounds

This corn was originated in Virginia thirty-seven years ago, and has been grown there for us ever since. It is the result of careful selection for many years. It has been grown entirely away from other kinds, and while several seed dealers have offered corn under the name of Eureka, at harvest time it has shown that it was an entirely different variety.

Ross' Eureka Ensilage Corn is a very tall and leafy variety of Southern corn, the result of years of careful selection.

The Eureka not only grows the tallest and is the most leafy but is as well very productive of ears. In its home in the South it is one of the greatest grain-producing varieties, yielding often 100 bushels of shelled corn to the acre and sometimes considerably more.

We never have, nor do we now claim that the Eureka will in this latitude reach the stage of maturity of some of the smaller-growing and less productive varieties. Its value for ensilage is due to its enormous growth and great production of leaves and ears rather than to its ability, considered by some so desirable or necessary, to produce a matured grain crop.

We sell other varieties of corn used for ensilage—several of them—good varieties, too. If it is considered that for the silo some variety is necessary that will produce ears nearly ripe, and the much smaller amount of foliage is a secondary matter, then evidently some of the other varieties which we offer would be of more value than the Eureka. While Eureka corn will not mature the ears in any of the northern states where frosts are expected early in September, we have seen ears far enough advanced so that it will no doubt germinate grown right here in the State of Massachusetts. If ears are wanted they can be had on Eureka; by planting it thin and where frosts hold off until the first of October you will have plenty of ears and more leaf than you will get from any other variety of corn grown. But if the main purpose of the silo is to preserve in as nearly a natural condition as possible the largest possible amount of fresh green foliage and large fresh green ears which can be grown on the smallest possible area, then the Eureka is better—in our opinion it's the best in cultivation. And this is in accord with the opinions of hundreds of practical farmers who, having tried it to their satisfaction, now plant nothing but the Eureka.

Price, bags included, $\frac{1}{2}$ pk. 50 cts., pk. 90 cts., bu. (56 lbs.) \$3.00, 10 bushels or over \$2.75 per bushel in our trade-marked bags.

In addition to our regular grade of Eureka Corn, we are offering this season a "Hand-picked Grade."

This corn is selected, tips and butts are taken off and after it is shelled the corn is picked by hand and cracked or discolored kernels are taken out. This makes a grade of corn which we feel sure will satisfy the most critical planter and will germinate under favorable conditions 100 per cent.

Price, Handpicked Grade, $\frac{1}{2}$ pk. 70 cts., pk. \$1.25, bu. \$4.50, 10 bushels or over \$4.25 per bushel.

EVERYBODY KNOWS ROSS' SEED GROWS

Don't buy a bushel of Eureka Corn unless it has our trade mark printed on the bag. There is nothing just as good, and you are sure to lose as many dollars as you save cents in the beginning.

Price, bags included, $\frac{1}{2}$ pk. 50 cts., pk. 90 cts., bu. (56 lbs.) \$3.00, 10 bushels or over \$2.75 per bushel in our trade-marked bags.

Price, Handpicked Grade, $\frac{1}{2}$ pk. 70 cts., pk. \$1.25, bu. \$4.50, 10 bushels or over \$4.25 per bushel.

Read What Some of Our Customers Say about Eureka Corn

I have used your Eureka Corn for over fourteen years and could not be without it.—Albert H. Williams, Redding, Conn. Nov. 28, 1922.

We measured some of the stalks at silo filling time and they were from 18 $\frac{1}{2}$ to 21 ft. tall. Please send me your catalogue for 1923 as I want some more of the Best Ensilage Corn Grown, Eureka.—Burr Armon, Ogdensburg, Wis. Nov. 28, 1922.

I have had the very best of success with your Eureka seed corn. You can book me for ten bushels and ship it in February.—C. W. Wieting, Cobleskill, N. Y. Nov., 1922.

Dear Sirs: Your Eureka Corn is the only kind I care to raise for ensilage. It's O. K. Sincerely, James C. Wolfe, Elizabethtown, N. Y. Dec. 2, 1922.

I have used your Eureka seed corn for five years and it has proved satisfactory in every way.—A. H. Sloane, Adamant, Vt. Nov. 27, 1922.

Gentlemen: We have used your Ensilage corn for quite a number of years. We have filled our 16x38 silo with 7 acres while ordinary field corn we have often used 12 acres. We much prefer the hand-picked Eureka as it plants much more evenly. Very truly yours, Elisha B. Taylor, Embreeville, Pa. Dec. 5, 1922.

The finest corn I ever had, and was 17 to 18 ft. high and having 2 and 3 ears on each stalk. Several neighbors have it and are all pleased with it.—Jos. Brodzeller, Allenton, Wis., R. F. D. Nov. 27, 1922.

Sirs: I had such a crop of Eureka Ensilage Corn this past year I thought you might like to know about it. Averaged 16 feet high, eared out good and ripened. This may be of interest to you and others.—Sincerely yours, Jas. A. D. S. Findlay, Salisbury Mills, N. Y., Nov. 25, 1922.

"Of all silo corn I have ever tried the Eureka surpasses it all."—L. C. Alderson, Bowling Green, Ky. Nov. 28, 1922.

Dear Sirs: Regarding Eureka Corn, we like it fine. We have planted it for thirteen years and it has never failed yet. It has been the talk of the county. We have had it fourteen to eighteen feet high; also we weighed six stalks and they weighed fifty-six pounds and had nine ears on them. Would say in closing it has no equal. Will send an order as usual.—A. Hughes & Son, Sarnia, Ont., Can. Dec. 4, 1922.

Dear Sirs: We have grown Eureka Corn for ensilage several years, testing it out with other varieties, and as a result cannot say enough in its praise.

We planted 20 acres this year, filled three silos with a capacity aggregating 490 tons and had four acres left which we husked. It was an excellent stand 16 $\frac{1}{2}$ to 18 feet high and splendidly eared. Half of the acreage planted was along our Main Road, and was greatly admired by the neighbors, and passing autoists; many of the latter, on telling their friends at home of the wonderful corn, had to bring them to the field and have the corn measured to save themselves from being elected members of the Ananias Club. We consider Eureka Corn has no equal for ensilage and shall continue to grow it.—Very truly yours, G. M. Eckert, Saddle River, N. J. Nov. 28, 1922.

Dear Sirs: In regards to the Eureka ensilage seed corn we have received from your seed department for the last 12 years, will say we have always found it true to name, and have always had excellent crops with it growing 18 feet high with two ears on most of the stalks, we have had it grow over 20 feet in height some seasons.

I like it fine for feeding stock, and expect to continue growing it each year. Please send me your catalogue for 1923.—Yours truly, Ferry Cliffe Farm, James Edge, Supt., Bristol, R. I. Nov. 29, 1922.

Eureka Corn at the Silo

I certainly had a wonderful growth of ensilage from the seed I obtained of you. It produced, as near as I could estimate, about a third more ensilage to the acre than the ordinary corn. I expect to order more seed of you for the coming season.—H. J. Edison, Kasson, Minn. Nov. 28, 1922.

Dear Sirs: I have used your Ross' Eureka Ensilage seed corn for the past two seasons and am more than satisfied with the results. The season of 1921 was a good corn year and I planted 6 acres of your corn and got enough corn to fill my silo of 16 ft. by 36 ft. and also sold my neighbor enough to fill his silo and shocked the rest of it. The corn averaged about 18 ft. high and was estimated by a reliable farmer to cut 50 tons per acre. The season of 1922 was very unfavorable, but the Eureka corn made the best growth of any in this town, an average of about 16 ft. high. I shall always use Eureka corn as long as I raise corn and always recommend it to my neighbors.—Yours truly, W. L. Blodgett, Barnet, Vt., R. F. D. No. 1. Nov. 2, 1922.

Gentlemen: Regarding the outcome of the use of Eureka Ensilage Corn, beg to state that the corn has proven highly satisfactory. The seed germinated practically 100 per cent, the yield was far heavier than any other variety, and the quality of ensilage excellent. I shall raise this variety almost exclusively this next season.—Yours truly, F. B. Road, Marshfield, Ore. Nov. 30, 1922.

A good crop of Eureka Corn

This illustration shows the shape and type of corn that you get when you buy the genuine Eureka. If anyone should ship you corn with a long slim kernel, send it back, for it is not Eureka.

Flint and Dent Corn for the Crib and Silo

EARLY CANADA FLINT

Improved strain. This strain is in most respects identical with the original, but the ears are longer and stalks are of slightly larger growth. Ears of the original are about six inches in length, while of this strain they are about two inches longer, and of similar or nearly identical strains known as Early Greenfield, Deerfield and Connecticut Valley, ears are often nine inches or longer. While in the hands of different growers the type has been largely maintained, the tendency to select larger ears has been followed by an increased growth or size of stalks making such strains later in maturing. We prefer and endeavor to procure a strain of which the ears are about eight inches long with as small stalks as possible because earlier and more distinct from other varieties, and also more desirable for light soils of only average fertility and for late planting. On stronger and richer soils there are other varieties which would probably be preferable, though because of its earliness, the more nearly certain maturity in unfavorable seasons, its great production of ears and more easily handled dry fodder it is preferred by some for planting on their best and richest land.

Price: $\frac{1}{2}$ pk. 50 cts., pk. 90 cts., bu. (56 lbs.) \$3.25.

LONGFELLOW FLINT

This, for a long time, has been very popular in southern New England. Ears are eight-rowed and of remarkable length—12 to 14 inches, with occasionally one 15 inches. Stalks are considerably taller than the Improved Canada, but not so large but that they make excellent and easily handled dry stover. When well-grown, owing to the long ear and occasional twin ears, the Longfellow is a very productive variety. Though two ears to the stalk are, of course, desirable, we prefer to give more attention to securing a well-formed and well-ripened ear of typical length rather than to select for breeding stock from stalks bearing two ears if at the sacrifice of any of the above mentioned qualities. The Longfellow is safe for planting in the latitude of Massachusetts, and favorable seasons has yielded large crops farther north.

Price: $\frac{1}{2}$ pk. 50 cts., pk. 90 cts., bu. (56 lbs.) \$3.25.

SANFORD WHITE FLINT

We offer this season an exceptionally fine lot of White Flint, well grown and carefully selected for seed.

It is an eight-rowed white flint variety, the popular type in Rhode Island, being cultivated there almost to the exclusion of the yellow flint. The ear of the strain which is more generally grown there and which we offer as the Rhode Island strain, is of about the same size as the Improved Canada, resembles it very closely, except in color, having the same broad kernel and well-filled tip, and ripens with or very close to it. The variety is rather more leafy than other flint varieties, which is doubtless the reason for its popularity for ensilage in the northern part of New England. The strain, however, which is more largely grown for ensilage, is seed which is grown in the West, and distinctly different. The stalks grow much taller and are more leafy and the ear is much longer and later in maturing. While there are three distinct types of White Flint Corn grown in Rhode Island, we know that the strain which we offer is the most productive, yielding more bushels of corn per acre and also shelling more pounds of corn per bushel.

Price: $\frac{1}{2}$ pk. 50 cts., pk. 90 cts., bu. (56 lbs.) \$3.25.

GOLDEN NUGGET FLINT

This is one of the most prolific varieties of flint corn. The ears will average about 10 inches in length and are well filled with 8 rows of exceptionally large, broad kernels of a light golden yellow color. These kernels are about twice as large as other flint corns.

The stalks grow from 7 to 8 feet high; are well covered with leaves and often produce 2 large ears each. It matures in eighty-five to ninety days, making it a safe variety to plant except in the very northern latitude. Golden Nugget produces a large amount of fodder and it is of excellent quality.

Price: $\frac{1}{2}$ pk. 50 cts., pk. 90 cts., bu. \$3.25.

LUCE'S FAVORITE

This is a large, late, semi-dent corn; 8 to 10 rowed ears, 10 to 14 inches long. The fodder is large and abundant, and is used for ensilage purposes in large quantities in New York State. This variety is a much heavier yielder and better for ensilage than Longfellow Yellow Flint or any other flint varieties. We can supply true stock of this variety.

Price: $\frac{1}{2}$ pk. 50 cts., pk. 90 cts., bu. \$3.25.

MINNESOTA No. 13

This dent corn has been a surprise to its users on account of its extreme earliness. The ears are not as large as some other varieties, but its large production of ears makes it a heavier yielder than most others.

The ears are of handsome appearance bearing 16 to 20 rows of bright, rich yellow, smooth wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No corn excels in quality the Minnesota No. 13; the cobs are well filled and the individual kernels, plump and of good color.

Minnesota No. 13 thoroughly matures in ninety days when planted on favorable soil and in a good location, but ninety-five to one hundred days places it out of danger under average conditions. It may be planted as late as the second week in June and yet safely mature a crop.

Price: Pk. 75 cts., bu. \$2.75, 10 bu. or over \$2.50 per bu.

Longfellow

Sanford White Flint

Dent Corn—Continued

West Branch Sweepstakes

LYCOMING COUNTY GROWN

This corn originated on the Susquehanna River bottoms of Lycoming County, Pennsylvania. It is a big corn. The stalks are very large, $1\frac{1}{2}$ to 2 inches in diameter, and grows 12 to 15 feet high. The foliage is long, broad and heavy, starting well down to the ground with an abundance of silage per acre. The ears are large, averaging 12 inches long and 10 inches in circumference, containing 14 to 20 rows of red and golden grains, white capped with a decided reddish cast.

This seed produces in 90 to 100 days farther North, a corn in the glazed state which most dairymen concede to be the ideal stage for good silage, a silage of big feeding value that helps keep up the winter flow of milk.

West Branch Sweepstakes purchased from us is the genuine true stock grown in Lycoming County, Pennsylvania, by the biggest growers and shippers of this variety in Pennsylvania. $\frac{1}{2}$ pk. 60 cts., pk. \$1.00, bu. \$3.75, 10 bu. or over \$3.50 per bu.

Dear Sirs: West Branch Sweepstakes Corn matured best for silage of any we have ever tried. Large leafy stalks and carrying 1 to 3 ears each. Will use again in 1923.—Killingly Farm, Barre, Mass.; R. L. Faux, Mgr. November, 1922.

IMPROVED LEAMING

The Leaming corn was originated in Ohio in 1826 by Mr. J. S. Leaming. This corn was taken to Illinois by the Late Hon. E. E. Chester of Champaign County, Illinois, over fifty years ago and since then many strains and varieties have been started from this, one of the oldest known varieties of dent corn.

The True Improved Leaming which we offer is a pure, fixed, and distinct variety, having been bred for earliness of maturity, size, shape and color, also for the amount of grain that each ear will produce, and in doing this the fact is brought out that the True Leaming is second to none (save our Eureka) in the amount of silage that can be grown per acre.

While Leaming corn is not grown extensively in our New England States to maturity, it is perhaps grown for silage to a greater extent than any other dent variety except our Eureka. It ranks as one of the early dent corns, has a very heavy stalk growing twelve or thirteen feet high and very leafy. The ears are eight to ten inches long, filled with medium sized but deep kernels which when dry perhaps approach more closely in hardness the flint type than any other dent corn.

Price: Pk. 75 cts., bu. (56 lbs.) \$2.75, 10 busbels or over \$2.50 per bu.

WHITE CAP YELLOW DENT

Nearly as early as the Pride of the North with larger ears. The introducer says he will guarantee this corn to mature in ninety to ninety-five days from planting and to produce a larger crop on poor soil than any other variety. Stalks eight to nine feet high, with an abundance of foliage. Ears about eight inches long, sixteen or eighteen rowed, and well filled with deep kernels, the outside ends white, the balance light yellow, which gave it the name, "White Cap." The early and great production of ears and abundant foliage should make this a popular variety with those who desire ears well advanced toward maturity at the season for cutting for the silo.

Price: Pk. 75 cts., bu. \$2.75, 10 bu. or over \$2.50 per bu.

KING OF THE EARLIEST

This dent variety, a selection from the Pride of the North, made by the originator of that variety, is from ten days to two weeks earlier, which we think makes it safe for planting in this latitude for the purpose of maturing grain. The cob is small and although the ears are not long the kernels are very deep and the yield is large. We may say here that more attention is being given in the East to the dent varieties for growing for grain than formerly and they are in a few localities grown almost to the exclusion of the flint type, the growers claiming a much larger yield from the dent.

Price: Pk. 75 cts., bu. (56 lbs.) \$2.75.

PRIDE OF THE NORTH

An early dent variety, which has been grown in the East to some extent for grain and to a greater for ensilage. Although not of as rank growth as other varieties of this type, it is on account of its early production of ears popular with some for the latter purpose, especially with those having cold clayey soil. Pk. 75 cts., bu. (56 lbs.) \$2.75.

SWEET FODDER

Unexcelled for cutting green and feeding to stock. It should be included in all soiling schedules. Pk. 75 cts., bu. \$2.75.

King of the Earliest

All Prices on Corn Include Bags

NOTE—Prices of Farm Seeds are subject to change without notice.

Sweet Corn

GOLDEN BANTAM

A Favorite With All Who Have Grown It

The most famous sweet corn in the world today; it has been gaining in popularity ever since its introduction about 20 years ago. It is the richest and sweetest of all varieties of sweet corn.

Golden Bantam is dwarf, the stalks are usually 4 to 5 feet high and the foliage is short, allowing it to stand closer together in the small garden and thus produce a large crop on a small area. We recommend planting Golden Bantam every ten days during the planting season and you will be assured of a continuous supply of the best sweet corn. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

Golden Bantam

GOLDEN GIANT

Awarded the Silver Medal for novelty and excellence at Massachusetts Horticultural Show. Ears twice the size of Bantam and being from 14 to 16 rowed gives nearly four times the yield per acre; richer in color, more delicious, equally early. The husks are striped with red and very heavy. Golden Giant can be highly recommended to the market gardener because of the large ears and good shipping qualities of the corn.

Golden Giant is the result of eleven years' selection by Dr. F. S. De Lue of Boston, Mass., from a product of "Howling Mob crossed with Golden Bantam." Pkt. 15 cts., lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 35 cts. per lb.

GOLDEN CREAM

This sweet corn is of California origin and the result of crossing the Golden Bantam on the Country Gentleman. The Golden Cream resembles the Country Gentleman in appearance, having the same irregular rows, and has also the deep-pointed kernel and slender cob of that variety, otherwise it is entirely distinct, being of dwarf habit in growth, having an ear about the length of the Golden Bantam, and differs from the Country Gentleman in time of maturity, being very early.

The Golden Cream is of unsurpassed quality, having the peculiarly rich flavor of the Golden Bantam and the tenderness of the Country Gentleman. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

GOLDEN ROD

Golden Rod is the result of a cross between Stowell's Evergreen and Golden Bantam, and proves to be a happy and complete blending of each sort. The ear is none too small, nor is it large and bulky, but just large enough for ordinary consumption. The plants are 6 to 7 feet high, strong, profusely leaved, and bear on each stalk, at a convenient height, two ears lavishly packed with delicious golden grains of appetizing flavor. Exceptionally fine to follow Golden Bantam on account of its large size, color and sweetness. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

BANTAM EVERGREEN

A yellow variety maturing about 10 days after the Golden Bantam and a week earlier than the Stowell's Evergreen white. It has an ear three times the size of Golden Bantam and runs 12, 14 and 16 rows to the ear. The stalk is about 6 feet tall and is perhaps 1 foot dwarfer than Stowell's Evergreen and 2 feet taller than Golden Bantam. The Bantam Evergreen has the tender and sweet qualities of the Golden Bantam and combines the quality of the Golden Bantam with the productiveness of Stowell's Evergreen. As a table variety it is unexcelled. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

BLACK MEXICAN

A popular variety; until the introduction of the Golden Bantam, the sweetest of all. Ears of medium size; kernels large, when ripe bluish black, but at proper stage for cooking, the color shows but little if at all. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

De Lue's Golden Giant

EVERYBODY KNOWS ROSS' SEED GROWS

Sweet Corn

1 Pound will plant about 100 hills, 10 to 12 pounds to the acre.

We pay postage on one pound or less; for larger quantities by parcel post remit postage. See inside front cover.

Sweet Corn should not be planted until ground is warm, and can not usually be safely planted in this latitude much before the middle of May. The small, early varieties may be planted in the garden as close as $2\frac{1}{2}$ by 2 feet, but in the field, are generally planted 3 by 3 or $2\frac{1}{2}$ feet. In the small garden, however, a more economical use of space can be made and the product secured a little earlier by making rows several feet apart, planting in the intervening space any early, low-growing crop like radish, spinach, or lettuce, and following this with a second crop of cucumbers for pickles, winter squash, celery or turnips, the corn ripening in time for removal of the stalks before they greatly interfere with the growth of the second crop. The later and larger varieties require more room. Corn thrives best on warm, rich soil and succeeds only when given frequent but shallow cultivation. But three stalks should be allowed to grow to a hill.

To have the finest Sweet Corn it must be picked in just the right condition, that is, when the skin of the grain breaks at the slightest puncture. It will be of inferior quality if it is either a few days too old or too young.

COUNTRY GENTLEMAN. Medium size, with irregular rows of very deep and slender kernels and small cob. Sweet and tender, not surpassed in quality by any other variety with white kernels. Plant very productive, often yielding three and sometimes four good ears. Plant liberally, as the kernels being much shriveled, seldom germinate so well as those of the regular type. Ready for use a little before the Stowell's Evergreen. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

EARLY CROSBY. New England Strain. This has been for years the most popular second-early strain in New England, and is largely grown elsewhere. Ears are intermediate in size between those of the first-early

sorts and the Kendel's Early Giant, especially attractive and distinct, having rather small, almost square kernels packed so closely on the cob, that there is no space between the rows, as with other varieties; has always twelve or more rows and tip is completely covered. Not only an unusually attractive ear, but of a size preferred by many, and corn is superior quality. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

EARLY EVERGREEN. Ears large, with sixteen to twenty rows. Equal in quality to the Stowell's Evergreen; one to two weeks earlier. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

EARLY MAYFLOWER. One of the whitest and sweetest of the early varieties; an exceptionally good yielder and one that deserves to be planted to come in ahead of Golden Bantam; ears average 8 inches with deep kernel. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

HOWLING MOB. This corn originated in Ohio and it became so popular it was given the above name. The endeavor of the originator of this corn was to get as large an ear as possible, early in the season and of sweet flavor. This corn is of strong and vigorous growth, from $4\frac{1}{2}$ to 5 ft. high and has abundant foliage and generally produces two ears to each stalk. Ears measure 7 to 9 inches in length with 12 to 14 rows. The corn is nearly white, usually covered with a heavy husk which extends well over the tip of ears which affords a good protection from worms and birds. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

KENDEL'S EARLY GIANT. A second-early variety, following closely the small-eared, early kinds, but having ears of sufficient size to warrant its use for main-crop, usually twelve-rowed. Of good quality; productive. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

MARBLEHEAD MAMMOTH. Ears of the largest size, having twelve to sixteen rows of kernels of more than average size, sweet and tender. Preferred by some to Evergreen for fodder and matures its crop earlier. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

MAMMOTH WHITE CORY. Differs from the White Cory in having considerably larger ears, and in that they are twelve-rowed. Ripens nearly as early and is thought by some to be of better quality. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

POCAHONTAS. One of the earliest varieties, similar to White Cob Cory; ears are large, evenly and compactly filled with tender white kernels of very fine quality for a first early variety and runs very uniform as to type and productiveness. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

POTTER'S EXCELSIOR, or SQUANTUM. First named Potter's in Boston market, later named Squantum in Rhode Island. Ears of medium size. Matures soon after the second-early sorts. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

STOWELL'S EVERGREEN. The best known and most largely planted of all the varieties. The Stowell's Evergreen is hard to beat and for a long time to come many will have it in preference to any other sort. This corn is distinguished by the large ear, the long, deep kernels, its rich, sugary flavor and its long keeping qualities. It is the standard late sort. Pkt. 15 cts., lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 20 cts. per lb.

Country Gentleman

Early Evergreen

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Pop Corn for Planting

WHITE RICE. This variety of pop corn is an old and tried corn. It is the heaviest yielder of all and of very good quality. The stalks grow from 5 to 6 feet tall and produce two to three ears each. The ears are about 6 inches long and covered from butt to tip with long, hard, flinty kernels. When popped the kernels are very large and tender. We recommend this variety especially for its large yielding ability and its popping qualities. **Pkt. 15 cts., lb. 25 cts., 10 lbs. or over 20 cts per lb.**

TOM THUMB

This is the dwarf variety of pop corn used so extensively by pop corn venders all over the United States. The kernels are similar in color and shape to the older types of white rice, except they are more slender and longer. Is of dwarf growing habit. Ear about two to three inches long. The kernels on an average cob, however, will produce nearly twice as much popped corn as the average larger sized white rice cob, with practically no wastage. Matures in about 65 days. **Pkt. 15 cts., lb. 35 cts., 10 lbs. or over 30 cts. per lb.**

Shelled Corn FOR POPPING TANAGER BRAND

The best pure white pop corn, in fine condition for popping. Shelled corn in one-pound packages. **Price, lb. 10 cts., 10 lbs. or over 8 cts. per lb.**

WHITE RICE POP CORN on the cob. **Price, lb. 10 cts., 10 lbs. or over 8 cts. per lb.**

SEEDS USED FOR FLAVORING AND PICKLING

	OZ.		OZ.
Caraway	.20	Dill	.10
Celery	.10	Fennel	.20
Coriander	.20	Mustard	.10

RHUBARB ROOTS

Victoria, small roots, 25 cts.
Victoria, clumps, 50 cts.

HERBS

	OZ.	PKT.
Anise		.10
Caraway	.30	.10
Catnip		.10
Coriander		.10
Dill	.15	.10
Fennel		.10
Lavender	.50	.10
Marjoram, Sweet	.35	.10
Sage	.40	.10
Savory, Summer	.35	.10
Thyme	.35	.10

BIRD SEEDS

Best recleaned; for feeding only

	LB.	100 LBS.
Canary	.12	\$10.00
Hemp	.12	10.00
Kaffir Corn	.10	5.00
Lettuce	.30	28.00
Millet, Mixed	.10	7.50
Peas for Pigeons	.12	9.00
Rape	.12	10.00
Sunflower, Striped	.12	10.00
Flax	.18	15.00

VEGETABLE PLANTS AND ROOTS

By express only. Write for prices.
CABBAGE PLANTS. Best varieties.
CELERY PLANTS. Leading varieties.
CAULIFLOWER PLANTS. Snowball.
PEPPER PLANTS.
TOMATO PLANTS. All the leading varieties.

ASTER PLANTS

American Branching. Pink.
American Branching. Mixed.
American Branching. White.
American Branching. Lavender.

SALVIA PLANTS. Bonfire and Splendens.

Rice Pop Corn

Betsy Ross Victory Garden

17 large packages of *highest quality* vegetables, enough for the home garden, postpaid, for **\$1.00**

1 pkt. Beans, Sure Crop Black Wax	1 pkt. Spinach, Thick Leaf
1 pkt. Beet, Crosby's Egyptian	1 pkt. Sweet Corn, Golden Bantam
1 pkt. Carrot, Danvers Half Long	1 pkt. Oni n, Yellow Globe Danvers
1 pkt. Cabbage, Copenhagen Market	1 pkt. Turnip, P. T. White Globe
1 pkt. Cucumber, Early White Spine	1 pkt. Swiss Chard
1 pkt. Lettuce, May King	1 pkt. Beans, Green Pod Stringless
1 pkt. Pea, Sutton's Excelsior	1 pkt. Squash, Summer Crookneck
1 pkt. Radish, Scarlet Globe	1 pkt. Melon, Rocky Ford
1 pkt. Squash, Blue Hubbard (6 Collections \$5.00)	

Each variety the best of its kind. All should be planted in every garden. Address, enclosing \$1.00,

ROSS BROS. CO., Front Street, Worcester, Mass.

RAFFIA FOR TYING

Raffia is the straw colored inner skin of a palm found in Madagascar. It is very strong and tough, but soft and flexible, which makes it the very best material for tying vegetables, plants, vines, etc. It is better than twine as it does not cut the plants and is much stronger. It is also used for making baskets. Raffia comes in hanks from 1 to 5 lbs. We offer the best grade. **Price per pound 25 cts.**

EVERYBODY KNOWS ROSS' SEED GROWS

General List of Vegetable Seeds

**Palmetto
Asparagus**

We can furnish strong two-year old roots of the three varieties listed, 50 in a bunch, at the following prices.

WASHINGTON. Selected 2-year roots. Doz. 40 cts., 50 \$1.50, 100 \$2.75 postpaid. By express, 100 \$2.50, 1,000 \$22.50.

PALMETTO. Per 50, 75 cts., postpaid. By express, per 100, \$1.30; per 1,000, \$12.00.

GIANT ARGENTEUIL. Per 50, 75 cts. postpaid. By express, per 100, \$1.30; per 1,000, \$12.00.

ARTICHOKE

GREEN GLOBE. Perennial, large-flowering heads, cooked like Asparagus. Matures second year; not hardy in the North. Pkt. 20 cts., ½ oz. 55 cts., oz. \$1.00.

BRUSSELS SPROUTS

A very hardy plant of the cabbage family, growing from 2 to 3 feet high, producing from the sides of the stalk numerous small heads about 2 inches in diameter. Sow about the middle of May, and treat generally as directed for cabbage.

IMPROVED HALF-DWARF. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts.

BROCCOLI

ST. VALENTINE BROCCOLI has a clear white head like a cauliflower, surrounded by heavy leaves which may be tied to further blanch the heads. It stands cold and wet well, and heat better than any cauliflower. Be sure that the plants have plenty of water. Seed started in June will make heads which will be in good condition all winter. Seed started earlier will bring heads in for summer. Remember that Broccoli takes longer to mature than Cauliflower and so allow two or three weeks more. Pkt. 15 cts., ½ oz. 55 cts., oz. \$1.00.

All prices in this catalogue are based on the lowest market price at time catalogue goes to press but they are subject to market changes. This applies to both advance and decline.

Asparagus

An ounce will sow about 60 feet of drill, and produces 200 or more plants.

To grow asparagus from seed, sow as early as ground can be worked. Make the soil rich and sow in drills one foot apart and an inch or more deep. If the bed has good care, the roots may as well be transplanted to the permanent bed early the following spring as to wait another year, as is generally done. The soil should be thoroughly and as deeply worked as possible and can hardly be made too rich. In the field, the rows should be from four to six feet apart, but in the garden where the cultivation is to be done by hand the rows may be as close as two feet apart. Make broad trenches 8 inches deep, and if the roots are well spread, the crown will be 6 inches below the level. Cover with but an inch of soil at time of setting, filling the trench gradually as the plants grow. The plants should have frequent cultivation and yearly heavy applications of manure or fertilizer. The third year from setting, two or three cuttings may be made; after that, all that are possible until time for early peas.

WASHINGTON ASPARAGUS. This is a strain which has been under the direction of the Bureau of Plant Industry of the United States Department of Agriculture. The Bureau began this work at Concord, Massachusetts, in 1906, rust-resistance being one of the principal features desired. From a single plant discovered at Concord in 1910, a commercial strain has been developed.

Washington Asparagus is a rust-resistant, vigorous, high yielding strain of giant asparagus. The plants represented in its pedigree of the last three generations are the best found in a ten year's search among millions of plants tested. By best, we mean the ones that have produced offspring, uniform, rust-resistant, high yielding, of large size and rapid growth, all of which qualities indicate tenderness.

Our supply of both seed and roots is limited.

Pkt. 20 cts., oz. 40 cts., ¼ lb. \$1.50.

GIANT ARGENTEUIL. Popular in France on account of its large, thick, green stalks, being a special favorite in the Paris markets. Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts.

PALMETTO. Early and productive. Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts.

ASPARAGUS ROOTS

The easiest way to obtain an Asparagus bed, is to set out the roots. It takes 3 years to establish one from seed, but with our large, two year roots a bearing bed may be had in 2 years.

Brussels Sprouts

Improved Golden Wax Beans

We send one pound or less postpaid; for larger quantities by parcel post postage must be sent. See inside front cover.

DAVIS WHITE WAX. Vines of vigorous habit, fairly productive, not especially subject to blight or rust. Pods longer than those of most other varieties, always straight, flat, white, wax-like and attractive. If picked while young, the pods are tender and stringless, but later, are hardly equal in quality to those of some less hardy sorts. Seeds white, kidney-shaped, excellent for baking. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

GOLDEN-EYED WAX. Next to Horticultural Wax in its freedom from rust, and superior to that in quality though not equal to most others in the list. Pods of good length, flat, straight, waxy yellow and attractive. Popular with market gardeners. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

HODSON WAX. A new and distinct variety, about two weeks later than others, but surpassing most others in its combination of large, handsome pods, good quality and immunity from rust. It is also above the average in productiveness. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

IMPROVED GOLDEN WAX. An old, well-known and popular variety of excellent quality. Pods flat, long, golden yellow. One of the earliest and best dwarf wax varieties for the private garden. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

NEW KIDNEY WAX. An improvement on that excellent variety, Wardwell's Kidney Wax; more productive, less liable to rust or blight, while equal in quality. Pods are flat but very thick, 6 to 7 inches long, entirely free from strings and tough fiber. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

ROUND-POD KIDNEY WAX. Of unsurpassed quality. One of the best for the home garden and very desirable for market, where round-podded varieties are popular. Pods are long, very white and wax-like; uniformly perfect in shape and vine is very productive. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

SURE-CROP STRINGLESS WAX. An absolutely stringless, rust-proof, wax-pod, bush bean. Pods seven to seven and one-half inches long, about half an inch in diameter, and a beautiful rich yellow color. Plant hardy, extremely prolific, in fact, bears more freely than any other variety of recent introduction. Just the bean for the family garden. On account of its size it is always a ready seller on the market. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

WARDWELL'S KIDNEY WAX. A very popular variety, especially in some localities, because of the large size, handsome appearance and excellent quality of the pods. The pods are flat, broad, and usually five to six inches long, of delicate, waxy yellow color, stringless and brittle. Very widely used by market gardeners. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

WEBBER WAX. A distinct type that shows plenty of breeding and selection. Early, resistant, and a very heavy yielder of large, oval pods which snap, without strings. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

BEANS

2 lbs. will plant 100 feet of drill. 60 to 90 lbs. will plant an acre

Beans succeed best in warm, light soil of at least average fertility. In this latitude it is not usually safe to plant much earlier than the middle of May. If planting is made earlier and is followed by especially wet or cold weather, the planter should not blame the seedsman if beans fail to germinate. Plant the dwarf varieties in drills 2 to 3 feet apart, about 2 inches deep, and thin plants 4 to 6 inches apart. Give frequent, shallow cultivation until time of blossoming.

DWARF WAX OR BUTTER BEANS

BLACK WAX, PROLIFIC. One of the best for a home garden, perfectly stringless and of excellent flavor. Pods are medium size, round and of a clear waxy white color. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

BRITTLE WAX. One of the best early varieties. The pods are round and long, often six inches in length, and a rich, golden yellow; stringless and tender. When ripe, makes good shell bean. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

CURRIE'S RUST-PROOF WAX. It has been claimed that this medium early bean is absolutely rust-proof and we have found it as nearly rust-proof as any wax-podded bean. The plants are very vigorous, hardy and productive. The pods are five to six inches long, nearly straight, broad and flat; color, golden yellow. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

Sure Crop Black Wax

EVERYBODY KNOWS ROSS' SEED GROWS

We send one pound or less postpaid; for larger quantities by parcel post, postage must be sent. See inside front cover.

Prolific Black Wax Beans

GIANT STRINGLESS GREEN POD. Makes an excellent succession to Burpee's Stringless Green Pod when planted at the same time. The plants are of strong growth; pods lightly curved, quite meaty, being broadly rounded and saddle-backed; brittle and stringless at all stages. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

GODDARD, or BOSTON FAVORITE. Vine very large, vigorous and productive. Pods long, larger than the Dwarf Horticultural, similar in color and marking. Beans large, kidney-shaped, of excellent quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

IMPROVED YELLOW EYE. One of the best sorts for baking; extremely productive and of superior quality. Pkt. 10 cts., 1 lb. 20 cts., 2 lbs. 35 cts., 10 lbs. or over 16 cts. per lb.

LOW'S CHAMPION. Vine of rank vigorous habit, seldom affected by blight or mildew; productive; pods large and well filled. Beans large, oval, red, of finest quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

RED KIDNEY. Large red kidney-shaped beans of excellent quality. The old-fashioned baking bean. Pkt. 10 cts., 1 lb. 20 cts., 2 lbs. 35 cts., 10 lbs. or over 16 cts. per lb.

ENGLISH BROAD BEAN

BROAD WINDSOR. An old-fashioned English shell bean. This bean is very hardy; it should be planted as early as the ground will permit, three or four inches deep in rows three feet apart, and plants four feet apart in row. Dry beans very large and yellowish green. Pkt. 25 cts., 1 lb. 60 cts., 2 lbs. \$1.00.

Dear Sirs:—Received our corn which we have ordered from you on March 28, and it reached us in splendid condition and such nice, healthy seeds and best of all a good Standard weight.

Every one, that is from those, which we took orders for your Eureka Ensilage Corn admired it with pleasure and am pleased to say they are all satisfied; some even said that we could have the honor again to take up their orders for next year.

I wish to thank you for your promptness in sending my order.

Yours truly,

T. M.,

April 9, 1922.

Allentown, Wis., R. F. D. No. 1.

Gentlemen:—My shipment of seeds arrived in first class condition and are fine specimens of their respective kinds.

I wish to thank you for the prompt attention and careful packing you gave my order and will say that I know where to go for first-class goods and attention.

Yours truly,

EDWARD T. FORD,

March 31, 1922.

984 Westminster Hill Road, West Fitchburg, Mass.

GROW NEW POTATOES

from Hybridized "Seed Ball" Seeds. Order now. This may be your last chance. Packet, with directions 15 cts., 4 for 50 cts., 10 for \$1.00.

Beans Dwarf or Bush Green Podded Sorts

Don't Forget—Mulford Culture for Beans

BOUNTIFUL. Vine unusually thrifty, rarely affected by blight, bears early, profusely and for a long time. Pods large, flat but thick and meaty, stringless and tender. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

BOSTON SMALL PEA. More largely used than any other variety for baking. Choice selected. Pkt. 10 cts., 1 lb. 20 cts., 2 lbs. 35 cts., 10 lbs. or over 16c per lb.

BURPEE'S GREEN POD STRINGLESS. A very desirable dwarf podded snap sort for the home garden and largely grown for the market. The plants are large, spreading and productive. The pods are medium green, five to six inches long, cylindrical, larger than those of Red Valentine, but are quite as fleshy, of equally high quality and remain crisp and tender longer. They mature a little later. Seed of medium size and length, yellowish brown. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

DWARF HORTICULTURAL. Pods thick, broad, of medium length, yellowish green splashed with red when at the stage of fitness for green shell beans and are then very attractive. Beans are large, oval, easily shelled and of fine quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

FRENCH'S HORTICULTURAL. This is a bean of the horticultural type which has been grown quite extensively in some localities by the Market Gardeners for a number of years. The vines are compact and of upright growth; almost always sending out runners to a height of one and one-half to two feet, but do not climb a pole and are not of sufficient length to affect the bean in any way. The pods when ready to use are a yellowish green splashed with a bright crimson. Very prolific. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

EARLY RED VALENTINE. An old favorite. Vine hardy and productive; pods round of medium length, thick, tender and of fine flavor. Pkt. 10 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

EARLY LONG YELLOW SIX WEEKS. The vines of this variety, known also as Long Yellow Six Weeks, are large, vigorous, erect and very productive. The leaves are large. The pods are long, about six inches, straight, flat, handsome, rather light green and when young are of good quality for snaps. This sort is early maturing and a fine shipper. Seed medium sized, long, kidney shaped, light yellow with small brownish circle about the eye. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 50 cts., 10 lbs. or over 22 cts. per lb.

Bountiful Beans

Dwarf Lima Beans

1 lb. will plant about 50 hills

The dwarf lima class cannot be recommended too highly. The beans can be grown and gathered much more easily than the pole limas, as the vines require no support. They can also be grown closer together than those, are equal in quality to pole limas and as a rule are earlier maturing.

Limas require a longer season for maturing than other garden beans. Do not plant till the ground is dry, weather warm and danger of frost is over. If possible, select rich, light soil. Plant in drills two or three feet apart, dropping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two or three feet apart one way and two to two and one-half the other and plant four to six beans in a hill. Hoe often but only when the leaves are dry.

HENDERSON'S BUSH LIMA. A bush of the Sieva Lima; beans small but vine is productive and bears early. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

BURPEE'S BUSH LIMA. A bush form of the Large Lima which it closely resembles and approaches in size. Very popular. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

BURPEE'S IMPROVED BUSH LIMA. A distinct strain. The earliest, largest and the best of all large limas. This new strain differs from the popular Burpee's Bush Lima in bearing uniformly much larger pods, producing more beans, while both pods and beans are much larger and thicker. While the beans are as large as those of the Large Lima, the crop of the Improved is ready for gathering from eight to ten days earlier. In quality, the beans are equal to any, being thin-skinned, juicy and of fine flavor. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

FORDHOOK BUSH LIMA. The Fordhook Bush Lima Bean is not a selection made by man from the Dreer's Bush Lima, but created by nature, a single sport found in the field of Dreer's or Challenge Pole Lima and has now become one of the leading varieties of Bush Lima Beans. The plant is of stiffly erect habit, the beans are much larger and of superior quality and even when full size are juicy and of fine flavor. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

Pole or Running Lima Beans

2 lbs. will plant about 100 hills

These, like the Dwarf Lima, are tender and should not be planted in this latitude much before the first of June, and even then a liberal quantity of seed should be used to be more nearly certain of a uniform stand. Three plants, however, are all that should be allowed to grow in a hill.

CARPENTERIA. This is just the lima for the market gardener to grow for main crop. It is early and large, and enormously prolific, without much vine. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

Fordhook Bush Lima Beans

KING OF THE GARDEN LIMA. Earlier than the Large Lima, and pods are longer and often contain five beans of the largest size. The vine is large and of remarkably vigorous growth and will produce larger pods and bear earlier if only two are allowed to grow to the pole. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

LARGE LIMA. The old standard variety. Pods are broad, thin and borne in clusters. The vine grows tall, is vigorous but slender. Later in bearing than the preceding varieties. The beans are large and of a greenish tinge, which is considered an indication of superior quality. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

SEIBERT'S EARLY LIMA. The earliest variety; vine vigorous and very productive and continues so from the first to the last of the season. While the pods are short and rarely contain more than four beans, the total yield compares very favorably with other varieties. A desirable feature of this variety is the ease with which the pods are opened owing to the fact that they are very thin. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

Beans—Pole or Running—Wax Podded Sorts

2 lbs. will plant 100 to 150 hills

Although pole beans require considerable care and labor, they are, when properly grown, usually of longer bearing period. Pole beans are more sensitive to wet and extremes of temperature than the dwarf varieties and should not be planted as early. Poles should be set in rows about 4 feet apart, preferably running north and south, allowing about 3 feet between the poles in the row. The safer way is to plant six to eight beans around each pole and thin to three or four plants. Beans should be about two inches below the surface and are more generally pressed into the soil, eye down, instead of dropped and covered, as they come up a little sooner planted in this way. Like the dwarf beans, they require frequent shallow cultivation.

GOLDEN CLUSTER WAX. Pods long, broad, thick and fleshy; borne in clusters, creamy white in golden yellow; of best quality. Pkt. 20 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 35 cts. per lb.

"KENTUCKY WONDER WAX." This pole bean is quite similar to the very popular green podded Kentucky Wonder, except that the very long pods are a little broader, and of a waxy golden yellow. These are very attractive, fleshy, stringless and not surpassed in quality. The vine is remarkably vigorous and its earliness and hardness commend the variety as one well adapted for even northern latitudes. The seed even from the most matured crop is usually somewhat shriveled. Like the green podded Kentucky Wonder, this is very productive, and we believe it to be generally superior to any other wax podded pole bean. Pkt. 20 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 10 lbs. or over 35 cts. per lb.

Harlequin Bean

EVERYBODY KNOWS ROSS' SEED GROWS

Pole Beans—Kentucky Wonder

Beans—Pole or Running— Green Podded

DON'T FORGET MULFORD CULTURE FOR BEANS

DUTCH CASEKNIFE. A favorite with those who prefer white shell beans; beans of medium size, but pods are very long, the yield therefore large. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

HARLEQUIN. Earlier, more productive, and with much longer and attractive pods than the well known London Horticultural or Speckled Cranberry, also hardier and a more reliable cropper. The large oval beans are of the highest quality, either shelled or dry. The vines are vigorous, bearing pods that are six to seven inches long, striped or splashed with a deeper and more brilliant red than the London Horticultural. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

KENTUCKY WONDER, or OLD HOMESTEAD. Pods are borne in large clusters, are of unusual length, nearly round, silvery green; when young, crisp, entirely stringless, of fine texture and flavor. Vine bears early and is very productive. Used only as a string bean. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

LONDON HORTICULTURAL, or SPECKLED CRANBERRY. Pods short, broad, yellowish, streaked with bright red. Beans in general appearance identical with Dwarf Horticultural, of about the same size, more nearly round; of the best quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

SCARLET RUNNER. Largely grown as an ornamental climber; its rapid growth and early production of dazzling flowers make it a favorite for covering screens, walls, etc. It is also of excellent edible qualities, but rarely grown for that purpose. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

WORCESTER MAMMOTH HORTICULTURAL. This variety, while similar in general character to the Horticultural Pole, is much superior in several ways. The beans though closely resembling those of the common strain are much larger. Its strikingly handsome pod combined with its great size are both features of excellence which recommend it. Added to these excellent qualities, are those of thrifty, vigorous growth of vine and great productiveness, all making it a variety especially desirable to the market gardener. It easily brings a higher price in the market than any other, and is not excelled by any other sort for the home garden. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 30 cts. per lb.

BEET An ounce will sow about 100 feet of drill, 5 or 6 pounds required for an acre.

The beet thrives best in deep, rich, but rather light soil. Sow in drills about 15 inches apart and one inch deep. Make the soil firm over the seed. For early use, sow soon as the ground can be worked; for fall use, in May; for winter, from the 20th of June to the middle of July, according to the variety. Thin plants to 4 or 5 inches apart. Give frequent shallow cultivation.

EARLY MODEL BEET. A fine selection of blood-red Beet, extremely smooth, fine rich color and desirable shape, and makes a rapid growth, maturing very early. It is globe-shape, the color of flesh a rich blood-red and of most excellent quality, being sweet, tender and free from coarseness. The tops are quite small, making it a fine variety for forcing in hotbed, and it retains all the good qualities either when grown under glass or outside. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40.

EARLY WONDER. One of the earliest and most perfectly shaped Beets. Its beautiful, deep blood-red color, globular-shaped roots, make it valuable for the home garden. The attractive appearance, uniform size, shape, and color, have created a very heavy demand for this variety. It is grown very extensively for late sowing. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40.

CROSBY'S EARLY EGYPTIAN. An improved form of the Early Egyptian; roots much thicker and more regular. Nearly as early and of better quality. The most popular early variety for market throughout New England, if not elsewhere, and is now being considerably used for last sowing. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

CROSBY'S EARLY EGYPTIAN EXTRA-SELECTED STRAIN. For several years we have given this especial attention and have largely succeeded in eliminating the light-colored, coarse fleshed specimens peculiar to the Egyptian. Roots are more uniform in shape and tops are more even in growth and a little smaller. We confidently recommend it to market gardeners as an unsurpassed strain. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40.

ROSS PERFECTION. A strain selected by us as the best early beet for the market gardener. Nearly as early as the Early Egyptian but the roots are much thicker and more regular in shape. By careful selection the coarse-fleshed and light-colored specimens have been practically eliminated. The tops are even in growth and a little smaller than the Egyptian, making it an ideal beet for all uses. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40.

ARLINGTON FAVORITE. An excellent variety of globular form and deep color, especially desirable to follow the first earlies. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

CRIMSON GLOBE. Roots perfectly globular, one of the earliest of this shape, flesh dark; skin a shade lighter. Seldom grows over large and is a favorite with some for late as well as early planting. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

Ross Perfection

Detroit Dark Red

DETROIT DARK RED. A superior second-early and main-crop variety rapidly growing in favor for late planting. Tops uniformly small and grow upright so that the rows may be close together. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

SWISS CHARD, or SILVER SEA KALE BEET. Used for greens only. Until recently but little used in this country, but for the last few years has rapidly increased in favor. Much superior to other beets for greens. Of very rank growth, plants should be thinned to about one foot apart. When the plants have attained full size, the stems and mid-ribs are sometimes cooked and served like asparagus. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

SWISS CHARD, GIANT LUCULLUS. The Swiss Chard, or Spinach Beet, is prepared for the table in the same manner as Spinach; sometimes, however, the mid-rib is prepared like asparagus. Seed planted early in the spring will quickly produce plants from which cuttings may be made all summer as you can cut right down to the ground, and new shoots will soon spring up and make a fast growth, while those plants which are allowed to grow on without any cutting will make large curly leaves, with thick, light-colored mid-ribs, which are delicious when cooked and served like asparagus. You should not fail to plant at least one long row in your garden. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40.

SUGAR BEETS and MANGEL-WURZELS FOR STOCK FEEDING

1 oz. to 100 feet of drill; 5 pounds per acre

Roots of all kinds are highly valuable for stock feeding and are worth more general cultivation than they have had in the past. A liberal feeding of Mangels insures a large flow of milk and healthy condition of the animals. Fifteen or twenty tons per acre is not an unusual yield for any of the large growing varieties. They are easy to cultivate and can be raised almost wholly with horse culture and will respond readily to any kind of fertilizer. A yield of 20 tons per acre is equal to 2 tons of the best Timothy Hay or 65 bushels of corn, but they will produce more milk, and in addition to the feeding value found in protein and fat, you also get a large amount of water, which, to our mind, has a feeding value in any of our field crops.

GOLDENT TANKARD. It is one of the best stock beets grown. It has yellow flesh, a very distinct variety, being short with very little tap root and very easy to harvest. Top and neck very small; root ovoid, flesh yellow, zoned with white; an excellent sort. Price: Oz. pkt. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

MAMMOTH LONG RED. This is truly a mammoth, a single root often weighing twenty to thirty pounds. The extra large, long roots are blood-red in color and very nutritious. Enormously productive, yielding, under favorable conditions, thirty to forty tons of roots per acre. Price: Oz. pkt. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

BEET

Continued

EARLY EGYPTIAN. The earliest variety; roots flat; deep crimson; top small. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

BASTIAN'S EARLY. Roots too light-colored to be popular for market, but of finest flavor. Very tender and sweet. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

EARLY ECLIPSE. An early globe-shaped variety of good quality and deep color. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

EDMAND'S BLOOD TURNIP. A standard variety used for both second-early and main crop. Of good quality and keeps well. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

DEWING'S BLOOD TURNIP. One of the leading main-crop varieties. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.25.

Selected Crosby's Egyptian

Swiss Chard

The ground for root crops, such as beets, carrots, parsnips, salsify, etc., should be dug deeply and well pulverized to insure straight and well-formed roots

EVERYBODY KNOWS ROSS' SEED GROWS

MANGEL-WURZELS—

Continued

NORBITON GIANT LONG RED. Similar to the preceding; has smaller top and neck; flesh scarlet. Price: Oz. pkt. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

ORANGE GLOBE. Top small, root medium-sized; skin deep orange-yellow, flesh white. Grows almost out of the ground; good for shallow ground; easy to harvest. Price: Oz. pkt. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

RIVENHALL GIANT. This is one of the finest types of the yellow globe mangel in cultivation. The roots are immense size and exceptionally even in shape. The skin is an orange-yellow with a reddish-yellow base. The flesh is white, being firm and fine grain which renders it an excellent keeping variety. It grows fully three-fourths above ground with a very small tap root which makes it well adapted to light soil. Price: Oz. pkt. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

SUGAR BEETS

LANE'S SUGAR BEET. A standard variety for stock-feeding. Price: Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.00.

KLEIN WANZLEBEN. This variety is cultivated on a larger scale than any other Sugar Beet. Root is conical, straight and even, large at top and rapidly tapering. Not as large as some of the other sorts but contains the largest percentage of saccharine matter. Price: Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.00.

REDUCE YOUR SUGAR BILL. Sow a row of sugar beet for syrup. Cut beets into thin slices and soak in hot water to extract the sugar. The liquid is then boiled down. Very easily grown. One ounce will plant a 50-foot row.

CABBAGE An ounce will produce about 2,000 plants

Cabbage will thrive on any good garden soil but is more successfully grown on deep, strong loam, and new soil is much preferable, as on old land the roots are more liable to be affected by the disease called club-root. Especially should land be avoided upon which, within two years, cabbage, cauliflower, turnips or radishes have been grown.

For the earliest crop seed is usually sown in February or March in hotbeds with only moderate bottom heat, and the plants hardened by gradually exposing them to the night air and transplanted as early as the ground is in suitable condition.

Seed of the second-early, autumn and winter varieties, may be sown in the open ground. If a second crop is desired to follow closely the early crop, seed of some second-early sort should be sown as soon as ground can be worked. For later crops, successive sowings may be made, in this latitude, until about the middle of June, possibly some later, the time depending somewhat on the

Mammoth Long Red Mangel

nature and condition of the soil, the season, and more on the variety.

**Golden
Tankard
Mangel**

COPENHAGEN MARKET

THE BEST EARLY CABBAGE

As early as the Charleston Wakefield it fully meets the requirements of earliness expected of an Extra Early variety, while the heads are as large or larger than the Danish Ballhead, averaging in weight about ten pounds. The type is remarkably well-fixed, the heads perfectly ball-shaped, all maturing at the same time and so uniform in size that, as the representative of the Danish grower said, they appear as though they were all cast in one mold. The plant is short-stemmed, the heads being produced only a little above the ground. The light green, rather small leaves are saucer-shaped and always tightly folded, permitting of closer planting than usual with other varieties, having a head of equal size. No other early variety will produce so great a weight per acre and we doubt if any of the later varieties will much surpass it in this respect. The Copenhagen Market has proven itself a valuable addition to the market-garden varieties. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

ALL SEASONS. For reliability in heading, not surpassed by any other variety, and few equal it in ability to stand the hot sun and dry weather and when mature to remain in the field so long without bursting. Heads as large as most of the later sorts, nearly round or somewhat flattened, solid and of finest quality. Extensively used for both second early and main crop. Pkt. 10 cts., $\frac{1}{4}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Copenhagen Market Cabbage

CABBAGE—Continued

Danish Ballhead

AMERICAN IMPROVED SAVOY. The best of the Savoy type, which should be more largely grown. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

CHARLESTON EARLY WAKEFIELD. A favorite with the market gardeners. Resembles the Early Jersey Wakefield in form but is much larger. Matures equally as early. Very uniform in shape and very desirable for the market gardener. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., 1 oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

EARLY JERSEY WAKEFIELD. Although this variety is not as early as the preceding one, it will be found the very best conical heading sort to come in immediately after. It is very compact, medium size, conical and a sure header. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., 1 oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

DANISH BALLHEAD. This is now the most popular main crop variety for market, due to its remarkable solidity, weight, uniformity in size, fine keeping qualities and attractive round head. It is especially valuable for shipping to distant markets and for late spring use. Though the heads are but of medium size, owing to their great weight the product of an acre exceeds in weight that of any other variety. We offer a strain of seed which has been proved by repeated trials to be unsurpassed. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., 1 oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

Enkhuizen Glory

DANISH ROUNDHEAD. Matures a little earlier than the Danish Ballhead. The heads are nearly round and have a short stalk and are very hard. The inside leaves are white and sweet. It is a healthy variety and able to stand heat and resist disease. The heads, although making quicker growth, are fully as large as Ballhead and equally as good in every way; keeping well during the winter and of excellent quality. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., 1 oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

ENKHUIZEN GLORY. This comparatively new cabbage has proved to be the best second-early variety yet introduced. Earlier than All Seasons, it is more solid than either that or Henderson's Early Summer, and is of better shape than either, being nearly round, approaching closely in this respect the Copenhagen Market. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

EARLY SPRING. The earliest flat-headed variety, maturing soon after the Jersey Wakefield, but much larger. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

EARLY WINNIGSTADT. Head large, conical, hard, and keeps well. Plant very hardy and sure to head. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

HENDERSON'S EARLY SUMMER. An early large-heading sort. Head flat or slightly conical, remains on stump longer without bursting than most early kinds. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

FOTTLER'S BRUNSWICK. An early, large drumhead which has been in New England one of the most popular second early varieties.

Head flat, solid, keeps well and of good quality. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

PREMIUM FLAT DUTCH. An old standard late variety. Head large, flat and solid. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

MAMMOTH ROCK RED. Head larger and more solid than Red Drumhead; reliable in heading. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

SUREHEAD. The heads are uniform in size and very hard and firm. They weight from ten to fifteen pounds each. Is of the flat Dutch type. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

WARREN STONE MASON. An improved strain of the old Stone Mason. Previous to the introduction of the Danish Ballhead, the most popular variety in New England for main crop. Earlier and more nearly round than the old strain, of medium size, hard, solid and of excellent quality. Reliable and keeps well. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

CHINESE CABBAGE. This is often called Celery Cabbage on the market, and when well grown resembles Cos Lettuce. It grows very rapidly and matures heads in less time than other varieties. The leaves, when young, are crimped and of a light green color. The plant, as it becomes older, grows more upright and forms heads much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white with very white mid-ribs. It is of distinctive flavor, very mild and pleasant. It can be served as a salad, like Lettuce, or cooked like other Cabbage. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Charleston Early Wakefield

EVERYBODY KNOWS ROSS' SEED GROWS

Long Orange

Root crops of all kinds should be grown by the home gardener, because by storing them in cellars, or in pits outside, a bountiful supply of vegetable food for the winter may be provided.

1 lb. of Carrot Seed, Danvers Half Long, \$1.25, will produce if sown on good soil, 12 tons of carrots equal in feeding value for horses and cattle, to 150 bushels of oats.

Hutchinson

will have better flavor and keeping qualities.

The carrot is one of the most wholesome of our garden vegetables, and is deserving of more general cultivation for table use. Whether used in soups, or stews, for garnishing, as a side dish alone, or in combination with peas or other vegetables, it is always attractive. Carrots should be merely washed and scraped (not peeled) before cooking, as the best flavor and brightest color are near the skin.

Danvers

Long or Long Orange. For early bunching and the home garden, use Chantenay or Ox Heart. For general crop, plant our Danvers Half-

Plant carrots for winter use as late as July 10th; on good soil planted late, carrots

Chantenay

Ox Heart

Scarlet Horn

CARROT

An ounce will sow about 150 ft. of drill; 3 lbs. to the acre

Modern cooking methods furnish numerous recipes in which Carrots are a most delicious dish. Creamed, alone, or in combination with Peas or other vegetables, they meet the approval of the most epicurean taste. They are used extensively in the best restaurants. For home use they are deservedly increasing in popular favor, not only as a table delicacy, but because of their high food value. For stock feeding the nutritive value of Carrots surpasses most other vegetables. Every stock owner should plant at least a small acreage of Carrots to supplement his fodder ration next winter to take the place of grain. In proportion to other costs they furnish very cheap food.

The Carrot thrives best in a light, sandy soil, free from stones, well enriched, and deeply and thoroughly worked. Make the top surface fine and smooth by raking. Sow in drills 14 inches apart and half an inch deep and thin plants to 3 or 4 inches apart. Sow from the middle of April to the middle of June.

CHANTENAY. A most excellent medium early, half long variety.

It is one of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it desirable as a field sort. The tops are medium sized with small neck. The mature roots are thick, five and one-half to six inches in length, uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. The flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. The variety is extensively used for bunching. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.25.

DANVERS HALF LONG. A well known rich orange red variety, very smooth and handsome, producing extra heavy crops. An excellent market variety; crisp, sweet and tender. Although the roots are short, they produce as large a bulk as the longer field sorts and are more easily harvested. This variety has yielded 25 tons per acre. We have given this our special attention and offer at this time as good strain of seed as is possible to obtain. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.25.

EARLY SCARLET HORN. (Stump Root.) One of the best early forcing varieties, this being used mostly for forcing and extra early planting. It is very fine grained and of excellent flavor as

a table Carrot. Grows well in shallow soil, being a short variety with small top. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.25.

GUERANDE, or OXHEART. Roots very thick, four and one-half to five inches long, tapering but little and ending abruptly in a small tap root, tender and sweet while young. Flesh, bright orange. Used considerably for bunching earlier in the season. A desirable variety for growing on hard, clayey soils. Easily harvested. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.25.

HUTCHINSON. Crop failed.

LONG ORANGE IMPROVED. The roots of the improved strain of this variety we offer are very deep orange, long and comparatively thick, often twelve inches in length and three inches in diameter at the crown, tapering regularly to a point. The tops are rather large. This intermediate to late maturing sort is suitable for table use as well as stock feeding, combining great productiveness with uniform shape where grown in light, deep rich soil. When of size suitable for the table, the roots are tender and of good quality. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.25.

LARGE WHITE BELGIAN. Grows one-third out of ground. The portion above ground is green, that below white, large and rather coarse. Used only for stock. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.00.

Cauliflower

An ounce will produce 2000 plants

In general, the Cauliflower requires about the same treatment as the cabbage; moist land is, however, more essential and heavier manuring and more frequent cultivation aid to a greater extent the full development of the plant. In this climate the plant heads well only in the cool fall months. Seed should therefore be sown as for late cabbage, from the middle of May to middle of June, the late varieties, however, requiring a little more time than most late cabbage.

EARLY SNOWBALL. The earliest and surest to head. Probably more largely used than all others combined. We offer an unsurpassed strain from one of the leading growers in Denmark. Pkt. 20 cts., $\frac{1}{4}$ oz. \$1.00, $\frac{1}{2}$ oz. \$1.85, oz. \$3.50.

EARLIEST DWARF ERFURT. One of the earliest varieties; very dwarf, with large, white, compact heads of finest quality. Excellent for forcing. Pkt. 20 cts., $\frac{1}{4}$ oz. \$1.00, $\frac{1}{2}$ oz. \$1.85, oz. \$3.50.

DANISH GIANT, or DRY WEATHER. About ten days to two weeks later than Snowball. Of dwarf growth, producing large, hard and snow white heads, fully protected by foliage. As indicated by the name, especially adapted for dry and hot climates. Pkt. 20 cts., $\frac{1}{4}$ oz. \$1.00, $\frac{1}{2}$ oz. \$1.85, oz. \$3.50.

EARLY LONDON. A well-known variety, maturing its heads soon after the extra-early sorts. Pkt. 10 cts., $\frac{1}{2}$ oz. 75 cts., oz. \$1.35, $\frac{1}{4}$ lb. \$5.00.

Snowball Cauliflower (Selected Stock)

Celery

An ounce will produce from 3000 to 4000 plants

It requires about three months from sowing until the seedlings are ready to set in permanent place. For early setting, seed may be sown indoors in shallow boxes or in a cold frame, for later setting early in the open ground. Sow in fine soil, cover lightly and firm soil well with hoe or board. Keep soil moist, until seed germinates, nearly wet. When two or three inches high transplant so plants will be three inches apart each way. Shearing off the tops when plants are four inches high will make them more stocky. As soon as well rooted transplant to permanent location. In the field, plants are set in rows four to six feet apart with plant eight to 12 inches apart in the row. In the garden they are often set much closer. To blanch, draw earth about the plant from time to time, taking care that the tops of the center shoots are not covered.

BOSTON MARKET. An old variety of superior quality; at one time the most popular variety in New England. Of low, spreading habit, forms a number of secondary heads instead of a single large one. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

EASY BLANCHING. A distinct sort. Very quick and easy to blanch, has exceptional keeping quality. The plant is of medium height, of great vigor, having thick rather than broad stalks, with shallow ribs. The stalks are very brittle and the flavor extremely spicy. Price: Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., 1 oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

GIANT PASCAL. A green-leaved variety which developed from the Golden Self-Blanching. Very solid and crisp, of the finest quality, stringless, tender and of a peculiarly sweet, nutty flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

GOLDEN SELF-BLANCHING. The most popular variety for market, easily blanched, very attractive, of good quality, though not equal to some of the green celeries.

TRUE FRENCH-GROWN SEED. Pkt. 20 cts., $\frac{1}{2}$ oz. 65 cts., oz. \$1.25, $\frac{1}{4}$ lb. \$4.00.

AMERICAN-GROWN SEED. Seed plants grown direct from French seed. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

WHITE PLUME. The earliest and most easily blanched of all varieties, very showy, of good quality. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

WINTER QUEEN. Of medium height, but stout, thick, and heavy, with a larger amount of heart than most other sorts. Of fine quality, more easily blanched than the Giant Pascal, and an excellent keeper. One of the best for late winter use. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

CELERIAC, Turnip Rooted Celery

Sow seed and treat in first stage of growth as directed for celery. Set in rows 2 feet apart and 6 inches apart in the row. As the roots only are used, no banking is necessary. When roots have reached a size of 2 inches in diameter they are ready for use. These are boiled, sliced and eaten with vinegar. To keep through winter, roots should be packed in moist sand or earth.

LARGE SMOOTH PRAGUE. An improved sort with nearly round roots which have but few side roots. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., $\frac{1}{4}$ lb. 80 cts.

CHEVRIL CURLED

A hardy annual, used for flavoring and garnishing. It is thought by some to exceed even parsley in beauty. Seed should be sown early in the spring and when plants are well-rooted, transplant to one foot apart. The leaves will be ready for use in seven to ten weeks from planting. Pkt. 10 cts., oz. 25 cts., 2 ozs. 45 cts., $\frac{1}{4}$ lb. 80 cts.

Giant Pascal Celery

EVERYBODY KNOWS ROSS' SEED GROWS

Cucumber

An ounce will plant about 50 hills. $1\frac{1}{2}$ to 2 pounds to the acre

The Cucumber requires well-enriched soil, and should not be planted until settled warm weather, in this latitude, seldom before the middle of May. Plant the early, small kinds in hills $3\frac{1}{2}$ to 4 feet apart, the larger varieties 5 to 6 feet. Make the hills broad, use 15 to 20 seeds to the hill, dropping them well apart. Cover with not over an inch of earth, and firm this well with the hoe. If the young plants are attacked by the striped hogs or other insects, dust frequently with air-slacked lime, soot or ashes mixed with road dust, taking care that too much is not used at one time. When all danger from bugs is past, thin to three plants to the hill. Give frequent shallow cultivation as long as vines will permit.

BOSTON PICKLING. For pickling this variety is superior to all others. Its fruit is short, pointed at each end, bright green, uniform in size, very productive and of superior quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

CUMBERLAND. A distinct variety of the White Spine type. Vine vigorous, very productive and continuous in bearing, much longer than most sorts. Fruit large, symmetrical, dark green, thickly set with small white spines; of best quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

DAVIS PERFECT. Fruit long, slim, symmetrical, rich dark green, holds color until nearly ripe. Very attractive and of finest quality. One of the best for shipping. Vine especially vigorous and large. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

Improved White Spine

JAPANESE CLIMBING. Vine very vigorous, with especially strong grasping tendrils. Fruit of good size and quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

LONG GREEN. An old standard variety, very popular for home gardens but little used for market. Fruit very long, slender, very firm and crisp, uniformly dark green; makes fine pickles and is the best of all when ripe for making sweet pickles. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

NICHOL'S MEDIUM GREEN. Fruit thicker than White Spine and full at both ends; light green, attractive and of fine quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

ENGLISH FRAME CUCUMBER—TELEGRAPH. The English forcing cucumbers are seldom grown out-of-doors, but possess special merit for forcing in the greenhouse. The plants grow thrifty and are exceedingly prolific. The fruits of this special strain of "Rollison's Telegraph" measure from eighteen to twenty-four inches in length and individual specimens have been grown which weighed over ten pounds. The long green cylindrical fruits contain only very few seeds. English Frame can be highly recommended to all who wish to grow cucumbers in the greenhouse. Seed very costly and sold only in small packets Pkt. 25 cts., 5 pkts. for \$1.00.

Early Fortune

EARLY FORTUNE

The most uniform and best colored Cucumber of recent introduction.

The plant is early, very vigorous, with an exceptionally heavy, thick foliage and is almost disease resistant and very productive. Fruits are uniformly nine inches long, slightly tapering toward each end, perfectly round and of a very rich, dark green color which does not fade in shipping; flesh very thick, firm and crisp, and with an exceedingly small seed cavity. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

EARLY CLUSTER. Early and productive. Fruit small, dark green, borne in pairs or clusters, largely near the root. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

EARLY RUSSIAN. The earliest and hardest variety. Fruit 3 to 4 inches long. Vine vigorous and productive. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

EMERALD. Fruit straight, symmetrical and entirely spineless. Color very dark green, which it retains until ripe; of excellent quality, attractive and popular for shipping because it holds color so long. Vine productive; season medium to late. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

EARLY FRAME, or SHORT GREEN. Fruit straight, smaller at the ends, bright green, a little later than the Early Cluster. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

EXTRA LONG, or EVERGREEN WHITE SPINE. A distinct and superior strain of this popular type. Fruit long, cylindrical, dark green, crisp and tender. Vine productive and comes into bearing soon after the Early White Spine. Popular with market gardeners. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

IMPROVED WHITE SPINE. Deservedly the most popular type. Fruit uniformly large, straight and attractive; dark green, lighter at blossom end with a few white spines; flesh tender and of fine flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.35.

Davis Perfect

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Endive Batavian Broad Leaf

CULTIVATED, or FRENCH COMMON. A greatly improved strain of the common Dandelion. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75.

CORN SALAD, FETTICUS, or LAMB'S LETTUCE

A hardy, rapid-growing plant, often used in winter as a substitute for lettuce and is sometimes cooked and used like spinach. It does not thrive in hot weather and if sown in the spring it should be very early and on extremely rich soil. It will then be ready for use in four to six weeks. It, however, succeeds best when sown in August or September. If sown in the former, it will be ready for use in the late fall. If left in the ground during winter, it should, on the approach of cold weather, be protected with straw or litter. Pkt. 10 cts., oz. 30 cts., 2 ozs. 55 cts., $\frac{1}{4}$ lb. \$1.00.

CHICORY

WHITLOOF, or FRENCH ENDIVE. Esteemed as a salad plant. Spring-sown seeds produce parsnip-like roots by November. Cut the leaves off $1\frac{1}{2}$ in. from neck, trench $1\frac{1}{2}$ in. apart, cover with soil 8 in. over crown; then place a 2 or 3 ft. layer of fresh manure which induces new growth of blanched leaves folded like Cos Lettuce, which are eaten raw as salad. Pkt. 10 cts., oz. 30 cts., $\frac{1}{2}$ lb. 85 cts.

CHIVES

CHIVES. Are a small, hardy perennial plant resembling onion in appearance and grow in clusters. They are grown for the leaves, which are produced freely from early spring and give a mild onion flavor to sausages, salads and soups. They can be easily grown in pots at a sunny window during the winter. Pkt. 15 cts., $\frac{1}{2}$ oz. 40 cts., 1 oz. 75 cts.

COLLARDS

(One oz. for about 3,000 plants)

Collards are very largely used as "greens" in some parts of the country, especially in the South. They are a form of loose-headed cabbage.

GEORGIA. The most satisfactory variety for general use. Pkt. 10 cts., 1 oz. 25 cts.

DANDELION

An ounce will sow 200 feet of drill. Two pounds to the acre.

Sow early in the spring in rich soil in drills 15 to 18 inches apart, cover lightly but make the earth firm. Thin to 5 inches apart in row. Cultivate frequently through the summer. Plants ready for cutting the following spring.

IMPROVED THICK-LEAVED, or CABBAGING. A distinct variety unsurpassed in thickness of leaf and deep green color. It grows compactly, forming a regular upright tuft. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts., 1 oz. 60 cts., $\frac{1}{4}$ lb. \$2.00.

DILL

An annual of aromatic odor and warm pungent taste. Its seeds are used for seasoning. It possesses medicinal properties but its largest use is for making Dill pickles. Plant branching, two or three feet high; leaves very much cut into thread-like segments. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40.

ENDIVE

An ounce will sow 150 feet of drill, producing from 2000 to 2500 plants

Endive, like lettuce, may be grown at any season, but is more generally used in the fall. For early use, sow in April, for later, until July, in drills 18 inches apart, or in beds for transplanting, plants should stand 10 to 12 in. apart in the row. When nearly full grown, tie outer leaves over center to blanch the heart, or blanch with boards as with celery.

MOSS CURLED. Of dense growth and finely curled. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50.

LARGE GREEN CURLED. Of larger growth, not so much curled as preceding. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50.

BATAVIAN BROAD LEAVED (Escarole). A variety having broad, more or less twisted and waved bright green leaves with thick, nearly white mid-ribs. The inner leaves form a fairly solid, clustering head which blanches a beautiful deep creamy white and is crisp, tender, and of fine flavor. Unsurpassed for salads. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50.

CRESS, CURLED OR PEPPER GRASS

A small pungent salad plant, much liked by some with lettuce. Like all salad plants, it should be grown on rich ground. Seed may be sown early in the spring, but if desired through the summer, repeated sowing will be necessary. Pkt. 10 cts., oz. 20 cts., 2 oz. 35 cts., $\frac{1}{4}$ lb. 60 cts.

WATER CRESS

WATER CRESS. Hardy plant which can be grown in a pond or along the banks of a running stream. Largely used as a garnish during the winter and early spring months. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$2.00.

EGG PLANT

An ounce will produce about 1000 plants

The Egg-plant, like all sub-tropical plants, requires, for both germination of seed and vigorous growth of plant, a high temperature. The seed is slow in germinating, and should be sown about the first of April. When the young plants show two rough leaves, transplant 3 to 4 inches apart, and when settled warm weather comes, set in rich, warm soil, $2\frac{1}{2}$ to 3 feet apart each way.

BLACK PEKIN. An early variety, nearly round, large, smooth, black and glossy. Plants prolific, leaves purplish black. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 55 cts.

NEW YORK IMPROVED (Spineless). The favorite variety. Fruit of largest size, rich purple and finest quality. Plant large, spreading and very productive; foliage light green. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts.

BLACK BEAUTY. A valuable variety, ready for use two weeks earlier than any other sort. The fruit is thick and of a rich purplish-black color. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts.

New York Improved Egg Plant

EVERYBODY KNOWS ROSS' SEED GROWS

KOHL RABI

An ounce will sow about 200 feet of drill

The edible part is the turnip-shaped bulb formed above ground. It is tender and excellent when used before fully grown, combining somewhat the flavors of cabbage and turnip. Seed should be sown in light rich soil as early in spring as possible in rows one and one-half feet apart and when well established thin to six inches apart in the row. Plantings at intervals of ten days will give a succession until hot weather, when they fail to grow well. Plantings may be made the latter part of July for fall use.

EARLY WHITE VIENNA (Extra for forcing). This variety is extremely early with distinctly small tops. The bulbs are of medium size, very light green or nearly white, and are of best quality for the table if used when about two inches in diameter. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

EARLY PURPLE VIENNA. Very early, with small top, the leaf stems being tinged with purple. Bulbs of medium size, purple; flesh white. Desirable for forcing and early outdoor planting. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

LEEK

Leeks require rich soil. Sow early in spring in deep drills, eighteen inches apart, but cover with but one-half inch of soil, thin plants to about eight inches apart and as they grow gradually fill the drill and draw the earth around them as with celery. Or if very tender and white leeks are desired, sow in bed an transplant when plants are six inches high into trenches six or eight inches deep and as they grow gradually fill the trench and later draw the earth around them so that it will be two or three inches above the level.

AMERICAN BROAD FLAG. A desirable strong growing, broad leaved leek, hardy and productive. It is

a favorite with many market gardeners and is also extensively used for the home garden. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

GIANT MUSSELBURGH. A very hardy variety of extra-large size; the leaves are fan-shaped, of a dark green color, the edible stem is 6 to 8 inches long and 3 inches in diameter. Pkt. 10 cts., ½ oz. 20 cts., oz. 35 cts., ¼ lb. \$1.00.

Kale, Dwarf Green Curled Scotch

Kale or Borecole An Ounce will produce 2000 Plants

For early use, sow in May and transplant in June, and treat generally as for cabbage.

DWARF GREEN CURLED SCOTCH. One of the best plants grown for greens. This is a finely curled, low-growing variety, the leaves of which when properly cooked make very palatable greens. The plant is very hardy, the leaves are long and of an attractive bright green color. This sort is also very often used for garnishing. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts.

Lettuce An ounce will produce from 3000 to 4000 plants

May King

Lettuce thrives on nearly all soils, but because the growth should at all times be rapid to insure crispness and best flavor, the soil should be heavily enriched and well worked before planting. Lettuce being quite hardy, seed may generally be sown as soon as ground can be fitted, as while prolonged or continued freezing will kill the plants, they are but little injured by an ordinary frost. Seed may also be sown in the hotbed in gentle heat, and the plants, if well hardened by having been often exposed to the air, may usually be set in the open ground very soon after the time suggested for sowing seed outdoors.

GENERAL CROP, HEADING AND LOOSE LEAVED VARIETIES

BELMONT FORCING. This is a plain-leaved variety. It forms a compact head and is, like the Tennisball, almost certain to head, making it a desirable and profitable variety for forcing. Pkt. 10 cts., ½ oz. 40 cts., oz. 75 cts., ¼ lb. \$2.50.

BIG BOSTON. Resembles the White-seeded Tennisball, but is much larger. Though the head is larger, having but few outer leaves, the variety is used to some extent for forcing. It heads very well in early spring outdoors, but does not head well in midsummer. It is, however, especially valuable for last planting, enduring cold weather-conditions better than any other variety. Grown extensively in the south for shipping north in the winter. Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.

BLACK-SEEDED TENNISBALL. More extensively grown in New England than any other variety, both for first outdoor crop and for main crop, the medium sized heads being the size most liked by gardeners, while its compact form allows it to be grown more closely together than others. Leaves plain, thick, dark green; blanches to a rich creamy white inside. Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.

BLACK-SEEDED SIMPSON. Much larger than the preceding, but not so much curled. Forms a large, loose cluster, of leaves rather than a head; leaves light yellowish green. Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.

Lettuce—Continued

BOSTON FINE CURLED. Beautifully curled, excellent for garnishing. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

CRISP AS ICE. A midsummer variety, surpassing all of this class in crispness, tenderness and fine flavor. Forms large solid heads, with leaves crimped and curled, those outside being variegated dark green and bronze, the inner portion blanching to a rich creamy yellow. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

DEACON. One of the most popular summer varieties. Large solid heads of excellent quality and fine flavor and which remain in condition for use for a long time. Plant very compact with few outer leaves which are usually very smooth, thick and light green, the inner portion blanching a beautiful cream-yellow. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

DRUMHEAD, or MALTA. Sometimes called "Chinese" lettuce. A very large, tight-heading variety. Leaves are rather coarse, but very brittle and tender. Is dark green and slightly curled. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

EARLY CURLED SIMPSON. (White-seeded.) An old variety, with broad, often frilled, very curly light green leaves; sweet, tender, of fine flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

EARLY CURLED SILESIA. An old, standard variety, very popular for home gardens. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

GRAND RAPIDS. Without doubt this is one of the easiest varieties of lettuce to grow. It forms no head but produces an abundant crop of pale green leaves, slightly but closely crumpled which have an excellent flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

HANSON. An old variety of great merit. Forms a large, flat, cabbage-like head, very slow to run to seed. The outer leaves are bright green, with veins of lighter shade, inner leaves white, usually curved and twisted at the base. A very attractive variety of excellent quality and extensively grown for home use. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

Black-Seeded Tennisball

ICEBERG. The unusual solidity of the heads is insured by the large white main ribs of the leaves, each of which, curving strongly into the center, acts like a truss, making it impossible for the leaves to open outward and expose the center, which is consequently thoroughly blanched. The leaves are always crisp and tender. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

MAY KING. A new, very hardy variety of foreign origin, which owing to its hardiness, earliness and large size for a variety of this class, is coming rapidly into favor here, both for outdoor planting and for forcing. Forms compact heads, nearly, if not quite, as early as White seeded Tennisball. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

NEW YORK MARKET. One of the largest varieties in cultivation. The heads are very solid with but little tendency to run to seed. It blanches itself naturally, is crisp, tender, and of excellent flavor, and always free from bitterness. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

PRIZE HEAD. A large, loose-leaved variety, which has been very popular for home use. Leaves very thin, crimped, bright green tinged with brownish red; sweet, tender and of good flavor, but not equal to Crisp as Ice. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

SALAMANDER. A large, compact head of good quality. Leaves light green, broad, thick, somewhat crumpled, closely overlapping so that inside they blanch to a creamy white. Withstands heat remarkably. One of the best varieties for midsummer. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

WHITE-SEEDED TENNISBALL, or BOSTON MARKET. An old and popular variety for forcing; heads small and compact. Not suitable for outdoor planting. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

ROMAINE OR COS VARIETIES

These are distinct from the ordinary lettuce, and much liked on account of their tender, crisp leaves and delicious flavor. The leaves are long and narrow and need to be tied up when they soon form solid heads and bleach snow white.

EXPRESS COS. A fine dwarf early sort requiring no tying up. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 30 cts., $\frac{1}{4}$ lb. 60 cts.

PARIS WHITE COS. One of the finest varieties for summer use. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., 1 oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

TRIANON COS. Similar to above but grows whiter and matures earlier. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., 1 oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

MUSTARD

Used mainly for salads but is sometimes boiled for greens. Sow as early as ground can be worked in drills eighteen inches apart and one-half inch deep. If desired throughout the season, successive sowings should be made about every three weeks.

WHITE, or YELLOW. The common variety. The seeds are often used to flavor pickles. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.

SOUTHERN GIANT CURLED. Large, light green leaves, much crumpled at the edge. The best for salads. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.

Paris White Cos Lettuce

EVERYBODY KNOWS ROSS' SEED GROWS

Muskmelon

An ounce will plant about 50 hills. $1\frac{1}{2}$ to 2 pounds are required for an acre.

The Muskmelon succeeds best in warm, rich soil. Plant when all danger of frost is past, in broad hills 4 to 5 feet apart, 10 or more seeds to each hill. Cover with one inch of soil and firm well with the hoe. If young plants are attacked by insects, dust them with air-slacked lime or ashes mixed with twice as much road dust. Use this frequently but sparingly, as a large quantity at one time is liable to injure the plants. When all danger from insects is past, thin to three plants to the hill.

ADMIRAL TOGO. A new variety, similar in appearance to the Rocky Ford, having the same dense netting and of the same shape and size, but with orange flesh. The flesh is unusually thick and rich flavor, and the variety combines to a remarkable degree superior quality with the desired firmness for shipping. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

BURREL'S GEM. The melons are six to seven inches long by four and a half to five inches in diameter, rather sharply sloping at the ends. They are quite well ribbed and covered with a fine grayish netting. The skin is a rich dark green, contrasting finely with the deep orange-salmon-colored flesh; sweet and tender. The flesh is thick and firm, ripening close to the skin, leaving only a thin rind. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

EMERALD GEM. Small to medium size; skin deep green, generally smooth; flesh thick, rich salmon, not surpassed in richness and flavor. But few varieties are so nearly certain to produce uniformly good melons. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

EXTRA-EARLY HACKENSACK. Above medium size, nearly round; flesh green, a little coarse but juicy, sweet and of good flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

HONEY DEW. The average size of the melon is six inches in diameter and seven to eight inches in length. The flesh is an emerald green, very thick, melting, and fine grained; can be eaten to the extreme rind. The seed cavity is very small, the rind impervious to water. The melon does not shrink in weight, is not easily bruised, and is a splendid shipper. It is later than Rocky Ford strains and is very prolific. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., 1 lb. \$2.50.

IMPROVED GREEN NUTMEG. Large, round, flattened at both ends. Ribbed and covered with coarse netting, flesh thick and of fine flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

MONTREAL NUTMEG. The fruits are of the largest size, often attaining a weight of 15 pounds. Shape nearly round, flattened at the ends. The flesh is about two inches thick, light green, and of a delicious flavor. This variety commands high prices in the Eastern markets during the Fall months. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

OSAGE, or IMPROVED MILLER'S CREAM. Of medium size, oval, dark green, shallow netting; flesh deep salmon, thick, very firm, sweet and of rich flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

PAUL ROSE, or PETOSKY. The product of crossing the Osage and the Netted Gem. Resembles the latter, but is a little larger, and flesh is rich orange. Very sweet and high flavored. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

ROCKY FORD. More largely grown than any other of the small or basket melons. Oval, slightly ribbed, densely covered with fine netting; flesh green, thick and of rich flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

SURPRISE. Of medium size, oval, lightly ribbed, netted in patches; skin yellowish white; flesh, deep salmon, of good quality; vine hardy, productive and bears early. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

Rocky Ford

Watermelon

An ounce will plant about 30 hills—4 pounds to the acre

The culture of the Watermelon is mainly the same as recommended for the Muskmelon; hills should, however, be about 10 feet apart.

COLE'S EARLY. Small but very early; of fine quality and sure to mature in any latitude where melons can be grown. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

HARRIS' EARLIEST. A new extra-early variety, large and of exceptionally fine quality. Slightly oval, mottled in stripes of light and dark green. Flesh bright red. One of the most desirable for planting in the North. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

PHINNEY'S EARLY. A standard early variety of medium size, oval marbled light and dark green; flesh pink, sweet and crisp. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

PEERLESS, or ICE CREAM. Of medium size, oval, dark green; flesh scarlet, very sweet. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

MOUNTAIN SWEET. An old favorite, early, productive and of good quality. Fruit long, dark green; flesh scarlet. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

SWEETHEART. Large, oval, very heavy; rind thin but firm, mottled light and very light green; flesh bright red, tender, melting and sweet. Retains its good qualities for a long time after ripening. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

KLECKLEY'S SWEET, or MONTE CRISTO. One of the sweetest, above medium size; dark green; rind thin; flesh bright red. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

HALBERT HONEY. A variety which rivals the Kleckley's Sweet in quality, while the vine is more productive. Fruit of medium size, blunt at both ends, deep glossy green; rind very thin; flesh crimson, entirely free from fiber, rich, sweet and melting. Unsurpassed for home use. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

TOM WATSON. Produces melons 18 to 24 inches long by 10 or 12 inches in diameter and weighing from 50 to 60 pounds; the dark green rind is tough but thin and easily withstands shipment. The deep red flesh extends to within three-quarters of an inch of the rind, is crisp, melting and of the finest flavor. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

CITRON. For preserving only. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., $\frac{1}{4}$ lb. 50 cts.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Yellow Onion Sets

ONION SETS

We do not deliver Onion Sets free; purchaser pays transportation. Onion Sets weigh 1 lb. per quart. For Parcel Post zone rates see inside front cover.

Onion Sets require rich soil and, with the exception of the Egyptian, early planting. Rows should be the same distance apart as suggested for onions grown from seed, and sets should be planted from 2 to 4 inches apart, and only lightly covered with earth, the top of set just below the surface with any growth it may have made above. Culture same as of onions from seed.

WHITE GLOBE. Lb. 30 cts., 4 lbs. \$1.00, 8 lbs. \$1.75.

YELLOW GLOBE. Lb. 30 cts., 4 lbs. \$1.00, 8 lbs. \$1.75.

EGYPTIAN, or PERENNIAL. (Ready in September.) Lb. 30 cts., 4 lbs. \$1.00, 8 lbs. \$1.75.

ONION

An ounce will sow about 100 feet of drill,
4 to 5 pounds to the acre

The Onion usually thrives best on old, rich land, but can be profitably grown only on such as has been kept free from weeds. If stable manure is used it should be either well rotted or plowed into the soil the previous fall. As manure always contains more or less weeds, many large growers use nothing but commercial fertilizer. The soil should be worked until manure or fertilizer is thoroughly mixed with it and the surface made fine and even by raking. Sow as early as ground can be prepared, in rows 12 to 14 inches apart, one-half inch deep and make soil firm. Keep free from weeds, especially at first, for if the weeds once get ahead of the young plants it is almost useless to continue cultivation—the land would better be plowed and replanted with some other crop.

AILS CRAIG. Of mammoth size, larger than the Prize-taker, oval-shaped, pale straw-colored skin; of very mild flavor. One of the best for exhibition on account of its enormous size. In England the most popular large onion. Bulbs have been grown that weighed 2½ pounds. Extra large onions can, however, be obtained only by sowing seed early in the spring in the hotbed and transplanting to the open ground when plants are of sufficient size. Seed from English Prize-winning stock. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

SOUTHPORT YELLOW GLOBE. Bulbs nearly spherical, slightly elongated; does not mature quite so early as our selected strain of Yellow Globe Danvers; a little more inclined to grow stiff-necked on some soils or in unfavorable seasons, but when well-grown brings the highest price, especially in New York markets. Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.

SOUTHPORT RED GLOBE. Identical in form with the preceding; rich deep red, above medium size; an excellent keeper and one of the most attractive of all. Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.

SOUTHPORT WHITE GLOBE. Of true globe shape. Later than White Portugal; keeps better and, like all globular varieties, a greater weight can be obtained on the same area. Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.

MUSHROOMS

Cultural directions, to be of any value, would be too lengthy to give here, but we offer the very helpful little book, "Mushroom Culture and Pure Culture Spawn," which not only gives the latest methods of culture of Mushrooms but also how best to prepare them for market, and several recipes for cooking them. 25 cts., postpaid.

LAMBERT'S PURE CULTURE SPAWN.

This will produce Mushrooms of a specific variety, selected with reference to size, color and yield, and eliminates absolutely any danger of poisonous specimens. Standard bricks, weighing from 1¼ to 1½ pounds, of the variety most largely cultivated. 30 cts. each. Postpaid, 40 cts. each; 4 bricks, by express, \$1.00.

Mushrooms

OKRA OR GUMBO

The young seed pods are used in soups or stewed and served like asparagus. Much esteemed in the South. In the North requires an especially warm location and probably best results would be obtained by sowing seed in the hotbed. Set plants in rows two feet or more apart and about a foot apart in the row. The seeds are a long time in germinating.

DWARF GREEN. Early and productive; best for northern cultivation. Pkt. 10 cts., oz. 20 cts., ¼ lb. 50 cts.

PERKIN'S MAMMOTH LONG POD. A dwarf but enormously productive variety. Pods long, slender, deep green and remain tender much longer than most sorts. Pkt. 10 cts., oz. 20 cts., ¼ lb. 50 cts.

Ailsa Craig

EVERYBODY KNOWS ROSS' SEED GROWS

Onion—Continued

YELLOW GLOBE DANVERS. This is an old favorite—the standard variety for winter use in the eastern markets. It produces well-ripened bulbs, averaging two inches in diameter and nearly globe shaped. The skin is a light golden brown or pale yellow, and the flesh is pure white, crisp, and mild in flavor. The plants have very slender necks, and consequently the bulbs keep well over winter. They ripen up uniformly, which characteristic recommends the variety to market growers. Although not quite so truly globe shaped as the Southport Yellow Globe Onion, they are somewhat earlier. On account of their attractive shape and color and their excellent keeping qualities they always bring a good price in the markets. **Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.**

YELLOW GLOBE DANVERS. Extra Selected. Eastern grown seed. A superior strain grown from carefully selected bulbs; of perfect form, unusually small neck, skin of rich, deep color; firm and heavy, and unsurpassed for shipping or storing. **Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.10.**

WHITE PORTUGAL, or SILVERSKIN. An early white, flat variety, of medium size and mild flavor. **Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.**

EXTRA EARLY RED FLAT. The earliest red variety; of medium size. **Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.**

LARGE RED WETHERSFIELD. The standard red variety. Bulb large, flattened but thick; skin deep purplish red. The best of all for light soils. **Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.**

Yellow Globe Danvers

PRIZETAKER. Of the largest size, form nearly globular; skin thin, light straw-color. Quite certain to bottom, but is later in maturing than any of the preceding, and though fine bulbs are often obtained from seed sown in the open ground in favorable locations, the largest and finest bulbs are grown from seed sown in a hotbed and the plants set in the open ground when about six inches high. **Pkt. 10 cts., ½ oz. 20 cts., oz. 30 cts., ¼ lb. 75 cts.**

Parsley

One ounce will sow 100 feet of drill

CULTURE—Parsley thrives in rich, mellow soil and, owing to the very slow germination of seed, succeeds best when seed is sown as early in the spring as ground can be worked. Sow in drills, one-half inch deep, 14 to 16 inches apart, and when well up, thin plants to 8 inches. It may be cut when 3 or 4 inches high, and if soil is of the required richness, will afford several cuttings during the season. The Moss Curled is perhaps slightly more curled, while the Double Curled is claimed by some to be the more productive of leaves and to better withstand dry weather.

CHAMPION MOSS CURLED. This is a prize winning English variety, very distinct. It makes remarkably handsome, compact plants and its leaves have the appearance of finely curled moss. The plant is quite hardy and very slow to run to seed. **Pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., ¼ lb. 75 cts.**

DOUBLE CURLED. Plants compact, very curly and finely cut; bright green color. **Pkt. 10 cts., oz. 25 cts., 2 ozs. 40 cts., ¼ lb. 75 cts.**

PLAIN LEAF. The leaves of this variety are flat, deeply cut but not curled. Very desirable for flavoring soups and stews and for drying. It is a favorite on account of its very dark green leaves as well as its hardness of plant. The curled sorts are more extensively used for garnishing. **Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., ¼ lb. 65 cts.**

PARSNIP

One ounce will sow 150 feet of drill, 6 pounds are required for an acre

CULTURE—The Parsnip thrives on any soil which is deep, mellow and moderately rich, but best on that which is rather light or sandy. Avoid the use of fresh manure, as, when used, roots are more inclined to be coarse, spongy and ill-shaped. Seed germinates slowly, should be sown fairly early and immediately after ground is prepared—that is, before the soil has become dry. Sow in rows 18 inches apart, cover with one-half inch of soil and make latter firm by rolling or with back of hoe. Thin plants to three inches apart.

Of each variety we offer a choice selected strain. Each, **pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts.**

ARLINGTON LONG SMOOTH. Roots very long and smooth, with full crown; desirable for deep soils and, owing to the full crown, is less liable to rot if left in the ground through the winter than the Hollow Crown.

HOLLOW CROWN. Roots of medium length, thicker at the top or shoulder than the preceding; succeeds better on shallow or stiff soil; crown slightly depressed; does not, on this account, keep so well in the ground through the winter as the Arlington Long Smooth, but is more easily harvested and more extensively grown.

PEANUTS

SPANISH. For a long time this has been the best variety. An early, heavy harer; hushes growing close so very easily cultivated. Grains or nuts are smaller, but much sweeter and finer flavored than the larger sorts. Best re-cleaned seed stock. **Pkt. 10 cts., lb. 40 cts., postpaid. By express, 10 lbs. or more, 35 cts. per lb.**

Hollow Crown Parsnip

Extra-Early Blue Bantam

are tightly packed with eight to ten large, deep bluish-green peas. These peas are not only large in size, but of most luscious flavor. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 28 cts. per lb.

LAXTONIAN. A grand early dwarf Pea. The pods of Laxtonian are very large, and are produced on a low-growing, sturdy vine, without support of any kind. Unlike many of its class, Laxtonian fills to the full its ample pods with large, luscious Peas. The flavor is just as rich and good as any of the later varieties, which entitles it to a permanent place in every garden. It is ready for use just about a week later than the very early sorts, and is incomparably good in quality. It is admirable for private gardens, where its abundant crop, produced so early in the season, is extremely welcome. The plant is only 1½ feet high, branching in habit. Pods and plant are rich, dark green in color, revealing a constitutional strength which enables it to resist the extreme conditions to which Peas are subjected in many sections of the United States. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 28 cts. per lb.

LITTLE MARVEL. The Little Marvel Pea in size and shape all podded is very similar to the Nott's Excelsior but far more prolific. It is of exceptionally fine quality and enormously productive. The pods of this pea are about 3 to 4 inches long. It should be planted in every garden. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 28 cts. per lb.

EXTRA EARLY VARIETIES OF TALLER GROWTH

ALASKA. Very early, smooth, blue pea. Popular with canners and market gardeners for a first early sort. Height 2½ feet. Foliage and pods light green; pods 2½ inches long, round, straight and square ended, containing 6 light green peas. Very uniform in maturity. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

GRADUS. A remarkable variety, combining earliness with peas of largest size and best quality. Matures soon after Nott's Excelsior. Vine resembles the Telephone, but is only 3 to 3½ feet high on rich land; productive. Pods 4 inches long, straight, slightly curved at end, light green, well filled. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

MARKET SURPRISE. This is a smooth seeded sort and, like all of this class, may be planted very early. It is the earliest maturing variety to date, vines growing to a height of about 30 inches, bearing abundantly pods 3 to 3½ inches long, well filled with peas of the finest quality. Every garden, large or small, should give this new sort a trial. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

GARDEN PEAS

Of the early smooth varieties, 2 pounds will plant 150 feet of drill. Of the wrinkled sorts, 2 pounds will plant about 100 feet, 70 to 85 pounds an acre.

Peas of the extra early, smooth class are the very first thing to be planted in the garden in the spring. The wrinkled sorts follow a little later, as they are not quite so hardy. The tall, late varieties need brush, wire or some other support. Though light, warm soil is desirable for the extra early varieties, peas generally produce a much larger crop on soil which is moderately heavy. By making the proper selection of varieties and planting frequently for succession one may have a full supply of the choicest green peas during the entire season.

Plant the early and dwarf varieties in drills 2½ feet apart and 3 or 4 inches deep, but cover with but one inch of soil and fill trench gradually as plants grow. Plant the taller and later varieties in rows 3 to 4 feet apart and 5 to 6 inches deep, covering as already suggested. The tall, late varieties may be planted in double rows, thus using the supports which may be set between for both rows.

PEAS BY PARCEL POST. The prices here are for Peas at our counter or by express or freight, at customer's expense. If these are wanted in quantities over 1 pound by Parcel Post, remit extra for postage at zone rates. See inside front cover.

EXTRA EARLY DWARF VARIETIES

SUTTON'S EXCELSIOR. The best of the dwarf varieties. The vine is of more vigorous growth than the Nott's Excelsior, a little taller, fully as productive and matures its crop nearly as early, while both pods and peas are decidedly larger. In quality, equal to any of the dwarf varieties, all of which compare favorably with the larger and later sorts. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 28 cts. per lb.

NOTT'S EXCELSIOR. This is one of the standard high-grade Early Peas that have established themselves with gardeners so firmly that many will take no other variety for its season. Its quality is fine, and for a wrinkled Pea, it is hardy and thoroughly reliable. It does not require staking and the pods ripen evenly, making it extremely valuable for home and market use. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 28 cts. per lb.

EXTRA EARLY BLUE BANTAM. The best first early dwarf, wrinkled pea. It is unequalled for combination of extreme earliness, superb quality and unusual productiveness. The dwarf, vigorous vines average fifteen inches in height and carry really enormous crops of large, deep bluish-green pods. The pods measure four to four and one-half inches long and

Thomas Laxton

EVERYBODY KNOWS ROSS' SEED GROWS

Peas—Continued

PREMIUM GEM. One of the most popular peas of this class in America. Hardy, prolific, and uniform in habit of growth and productiveness, bearing pods single on both sides of the stalk, beginning near the ground. Peas of fine flavor and about a week later than Nott's Excelsior. Pods $2\frac{1}{2}$ inches long, nearly straight, round, well filled to the end. Seed green, wrinkled. Height of the vine 18 inches. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

THOMAS LAXTON. Vine of about the same height as the Gradus, of similar habits but much darker, hardier and more productive. More attractive and better filled with peas as large and equal in quality. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

ROSS' WORLD'S RECORD. A large, early, wrinkled pea with pods $3\frac{1}{2}$ to 4 inches long. The pods are well filled with peas of excellent quality. The vines are vigorous, growing about 36 to 40 inches high. Peas are ready to pick 4 or 5 days before Gradus. A variety which should be in every garden. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 28 cts. per lb.

SECOND-EARLY MEDIUM AND LATE VARIETIES

ADVANCER. An old popular second-early sort. Vine about $2\frac{1}{2}$ feet high, vigorous and productive. Pods of medium size, broad, well filled. Peas rather under medium size, but of finest quality. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

ADMIRAL DEWEY. A productive variety growing 4 to 6 feet high, pods dark green, larger than those of any other variety and well filled with large peas of unsurpassed quality. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 28 cts. per lb.

ALDERMAN. This mid-season pea is tall growing, of English origin, and a few days later than the "Improved Telephone." The pods are very large, straight and dark green color. The vines are exceedingly vigorous and immensely prolific; of the best quality. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 28 cts. per lb.

BLACK-EYED MARROWFAT. An old variety. Peas large, but like all smooth peas much inferior in quality to the wrinkled sorts. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

CHAMPION OF ENGLAND. Vine $4\frac{1}{2}$ to 5 ft. high, productive. Pods $2\frac{3}{4}$ to 3 inches long, broad, well filled. Peas of medium size, much shriveled, of unsurpassed quality. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

DWARF CHAMPION. A variety, claimed to be equal in quality to Champion of England. Both peas and pod are considerably larger and vine is only about 2 feet high. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

EVERBEARING. An excellent variety of branching habit. Pods about 3 inches long and well filled. Sweet and of fine flavor. Height 3 feet. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

IMPROVED STRATAGEM. Vine 24 to 28 inches of vigorous habit, with good culture, productive. Pods, $3\frac{1}{4}$ to 4 inches, broad, attractive, well-filled. Peas extra large and of finest quality. The tendency to sport has in a great measure been overcome in the improved strain which we offer. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

Improved Telephone

TELEPHONE. Extensively grown. Vine $3\frac{1}{2}$ to 4 feet. On good soil productive. Pods large. Peas above medium size, of best quality. Pkt. 20 cts., 1 lb. 35 cts., 2 lbs. 60 cts., 10 lbs. or over 28 cts. per lb.

YORKSHIRE HERO. Vine 26 to 30 inches, stout and branching, hardy and productive. Pods 3 to $3\frac{3}{4}$ inches long, broad, well-filled, with peas of largest size, mealy, and of the richest flavor. Pkt. 20 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

Peppers

An ounce will produce from 1500 to 2000 plants

Sow in hotbed in March or April; transplant in open ground when all danger from frost is over, in rows three feet apart and two feet apart in a row. Seed can be sown outside late in May. Cover seed one-half inch and thin as above.

BELL, or BULL NOSE. Large bell-shaped, thick-fleshed and less pungent than some other sorts. Good for filling. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75.

CHINESE GIANT. Mammoth fruits measuring 12 to 15 inches in circumference, also early and prolific. The flesh is thick, tender, mild and sweet. Unexcelled for use as salads. Pkt. 10 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts.

GIANT CRIMSON. The first to mature of the extra-large varieties and surpassed by none in evenness of size and shape. The fruit averages heavier than any other large peppers, as the flesh is unusually thick. When matured the color is deep crimson, flavor very mild. The plant grows upright, is vigorous, larger than the Chinese Giant, and more productive. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

LONG RED CAYENNE. Fruit very slim, pointed, about 4 inches long, and when ripe, bright red. Extremely pungent. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

NEAPOLITAN. A great market variety on account of its earliness and productiveness. Grows about $3\frac{1}{2}$ inches long and is remarkably sweet. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

RED CHILL. Used for making pepper-sauce. Pods bright red, slender, about 2 inches long and very pungent. Requires a long season; seed should be sown early in hotbed. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

RUBY GIANT. A hybrid of Ruby King and Chinese Giant. It combines the large size of the Chinese Giant and the productiveness, shape and color of the Ruby King. The flesh is thick, mild and sweet. Fruit often 5 inches long. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75.

RUBY KING. Large. Four to six inches long, symmetrical, very mild and sweet. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

SQUASH, or TOMATO SHAPED. Fruit flat or tomato-shaped, and somewhat ribbed, flesh thick and slightly more pungent than other large sorts, early and sure to mature. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

SWEET MOUNTAIN. Fruit very large, often 8 inches long by 2 in diameter. Flesh thick, sweet and mild. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

WORLD BEATER. New. Large, smooth, beautiful Peppers. Mild flavor, very early to ripen. Very prolific. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Prices of Seed Potatoes are subject to market fluctuations and change without notice.

This applies to both advance and decline.
Quantities under 25 lbs. 10 cts. per lb., 50 lbs. at the 100 lb. rate.

Seed Potatoes

Eight to ten bushels will plant one acre.
One peck will plant 75 hills.

The seed stock which we offer is grown for us by the most reliable growers in Aroostook County, Me.

The stock is all carefully selected, free from rot and scab, and carefully packed in burlap bags holding 100 lbs. and the price we quote includes sacks.

Potatoes will be shipped as soon in the Spring as the weather will permit of their being sent in ordinary cars without danger of freezing. Full carloads can be shipped at any time in heater cars.

There is no one thing that we will sell in the line of seeds that is more important to change each season than seed potatoes. As it is impossible to grow just the right quantity of each variety to supply the demand, we urgently request our customers to give us a first and possibly a second choice in case we should be out of varieties ordered, for after the season is well advanced it often happens we are sold out of a great many varieties.

IRISH COBBLER

An early, white-skinned variety, very short, thick, inclining to round. This is yearly increasing in popularity for the early market. But few varieties, if any, combine earliness, size and production in as great a degree. The crop is ready for market about ten days earlier than the Early Rose; tubers are uniformly larger and in average production of large crops it is not equalled by any of the extra early varieties nor greatly surpassed in yield by any of the main crop varieties. The vine is very stocky and vigorous, not as liable to be affected with blight or to suffer by drought as most others. No other of the early varieties is as dependable as this, and is so certain to produce a crop. 25 lbs. \$1.10, 100 lbs. \$4.00, 1,000 lbs. or more \$3.75 per 100 lbs.

EARLY FAIRMOUNT An Improved Irish Cobbler

It is an early variety which in shape, color, size and time of ripening is very much like the Irish Cobbler; but the Early Fairmount has outyielded the Cobbler in every case where we have made an inquiry. One market gardener has said of the Early Fairmount: "The extra yield of potatoes would pay for my seed and fertilizer." This is certainly in favor of the new potato.

It is generally known that many of the large Cobbler potatoes have a cavity in the center, but in the Fairmount we have failed to find one with this defect; also the eyes are more shallow which means less waste in cooking. 25 lbs. \$1.25, 100 lbs. \$4.25, 1,000 lbs. or more \$4.00 per 100 lbs.

GOLD COIN. Productive and of unsurpassed quality. Very uniform in size, never over large, but few small tubers. Form oblong, rather broad and thick. Skin almost white with just enough of a light golden tinge to make it distinct from the white-skinned varieties, and having that rich russet appearance generally considered an indication of good quality. Vine of strong, vigorous growth, not easily affected with blight. 25 lbs. \$1.10, 100 lbs. \$4.00, 1,000 lbs. or more \$3.75 per 100 lbs.

Early Fairmount

BURPEE'S EXTRA EARLY. Of the finest quality and good size. Tuber, oblong, white or very pale brownish skin; few and shallow eyes. 25 lbs. \$1.25, 100 lbs. \$4.25, 1,000 lbs. or more \$4.00 per 100 lbs.

EARLY SIX WEEKS. An extra early variety, of good quality, cooking well as soon as it attains marketable size. In size, medium to large; color, light red or rose; form, round oblong, resembling the Ohio, and having the speck peculiar to the Ohio type. Keeps well. A good yielder. 25 lbs. \$1.25, 100 lbs. \$4.25, 1,000 lbs. or more \$4.00 per 100 lbs.

EARLY ROSE. The standard early variety; color red; medium size, not inclined to grow large but a good seller in any market. 25 lbs. \$1.25, 100 lbs. \$4.25, 1,000 lbs. or more \$4.00 per 100 lbs.

SPAULDING (ROSE) NUMBER FOUR. The potato is medium early, and practically free from blight and rot. It yields well in all climates and is in one section of Florida being planted almost exclusively. In color it resembles the Early Rose, perhaps a trifle lighter. In shape it is somewhat similar, but inclines to the oblong and is thicker. It is an attractive variety and of good quality. 25 lbs. \$1.10, 100 lbs. \$4.00, 1,000 lbs. or more \$3.75 per 100 lbs.

NEW QUEEN. Similar to the Beauty of Hebron but considered by many as being a better cooker. Next to Cobbler, this is the best early kind for general crop. 25 lbs. \$1.25, 100 lbs. \$4.25, 1,000 lbs. or more \$4.00 per 100 lbs.

NORCROSS. A white-skinned variety which through the result of crossing two early varieties—Early Rose and Beauty of Hebron—matures at about the same time as the Green Mountain and is a worthy rival of that popular variety in productiveness. 25 lbs. \$1.10, 100 lbs. \$4.00, 1,000 lbs. or more \$3.75 per 100 lbs.

CARMEN NO. 3. A handsome, round, white variety of the best quality; large, almost no small tubers. Claimed by the introducer to outyield any potato of its class. Vines large and vigorous, not troubled by bugs or blight as much as those of other sorts. 25 lbs. \$1.10, 100 lbs. \$4.00, 1,000 lbs. or more \$3.75 per 100 lbs.

GREEN MOUNTAIN. A white skinned variety of flat, oval form, smooth and attractive. Ripens slowly and is a good keeper. Quality excellent when well grown. This variety has been growing in popularity and is now the leader of all varieties for general crop. 25 lbs. \$1.10, 100 lbs. \$4.00, 1,000 lbs. or more \$3.75 per 100 lbs.

CERTIFIED POTATOES

We offer this season certified stock of the following varieties of potatoes, Green Mountain and Irish Cobbler. These have been inspected during the growing season, also at the time of harvest and will be again inspected at time of shipment and the blue tag of the Department of Agriculture of the State of Maine will be placed on every sack.

Certified Green Mountain,

Certified Irish Cobbler,

25 lbs. \$1.40, 100 lbs. \$4.60, 1,000 lbs. or more \$4.35 per 100 lbs.

Irish Cobbler

EVERYBODY KNOWS ROSS' SEED GROWS

SEED POTATOES—Continued

ROYAL RUSSET. This is a handsome white variety; the tubers are oval shaped, with a light russet skin, very even in outline and with shallow eyes. The blossom shows a distinct purple tinge. 25 lbs. \$1.10, 100 lbs. \$4.00, 1,000 lbs. or more \$3.75 per 100 lbs.

DELAWARE. (Late.) Vines are strong and vigorous; tubers are large, smooth, white and excellent quality. 25 lbs. \$1.10, 100 lbs. \$4.00, 1,000 lbs. or more, \$3.75 per 100 lbs.

UNCLE SAM. We believe it to be the heaviest yielding variety grown. On a loam or sandy soil it is a wonder in yield and quality. The crop averages remarkably regular in size and shape. The tubers are oval shaped, with light russet skin, very even in outline and with shallow eyes. Its handsome appearance and perfect form always ensure a fancy price on the market. 25 lbs. \$1.10, 100 lbs., \$4.00, 1,000 lbs. or more \$3.75 per 100 lbs.

Photo of Potato Seed Balls— $\frac{1}{2}$ Natural Size

HYBRIDIZED POTATO SEED

From the Seed Balls—Headquarters Stock

Millions never saw a Potato Seed Ball. Thousands have tried in vain to get the seed. Now is your opportunity. This unrivaled seed will produce an endless variety of new kinds. Your fortune may be in one of them. They are as easy to grow as tomatoes.

It is from these that ALL valuable new varieties of Potatoes are produced.

Growing new and distinct Seedling Potatoes from the Seed-Ball is intensely interesting. They will be the greatest curiosity of your garden. This seed will positively produce innumerable new kinds, colors, shapes, sizes, and qualities. The product will astonish you. Some may be of immense value and bring you a golden harvest. Packet with full directions for growing 15 cts., 4 for 50 cts., 10 for \$1.00.

PUMPKIN An ounce will plant 12 to 18 hills

SMALL SUGAR. The popular variety in New England for pies; fine-grained and sweet. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.00.
LARGE CHEESE, or KENTUCKY FIELD. Shape flat, skin of rich cream color when ripe, flesh tender and of fine quality Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.

MAMMOTH TOURS. One of the largest in cultivation, good for feeding stock. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.

CONNECTICUT FIELD. The standard variety for feeding stock. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.00.

JUMBO, or KING OF THE MAMMOTHS. The largest of all Pumpkins. Skin, orange-salmon; flesh, bright yellow, very thick, fine grained and of excellent quality for pies. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.

WINTER LUXURY. Medium size, productive and an excellent keeper. Color of skin russet; fine netted. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.00.

GOLDEN OBLONG. Pumpkin from 15 to 20 inches long and 8 to 10 inches in diameter, skin rich golden yellow, thin, but tough. Flesh light golden yellow, of fine quality. Keeps nearly as well as the hard-shell squashes. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.00.

QUAKER PIE. Fruits broad, pear-shaped to slightly oval; skin rich cream-buff; flesh fine grained and of rich flavor. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.00.

RADISH

An ounce will sow 100 feet of drill

Radishes are now grown the entire year, and may be sown when desired in hotbeds with moderate heat, either in rows 6 inches apart or broadcast. Soil should be light and rich, preferably new soil and fine rotted turf and commercial fertilizer. Seed may be sown outside very early, as soon as ground can be worked, in rows, 6 to 12 inches apart, as desired, and one-half inch deep. For our own use, we prefer that plants shall be thick, commencing to use roots when twice the size of a large pea and only thinning when plants are so crowded as to prevent the formation of roots of a size suitable for use. Grown in this way and used from the size noted to that of a small marble, roots are tender and crisp and never have the thick skin, so generally a feature of those found in our markets.

EARLY SCARLET GLOBE. A very early globe-shaped radish suitable for forcing or open ground. The radishes are of handsome shape, attractive bright red, and are crisp, solid and of the finest quality. They grow so rapidly that under favorable circumstances they may be pulled 20 days from sowing the seed. This is the most popular variety for forcing. Our seed is of the very finest strain grown from transplanted roots, and will be found unsurpassed. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

CRIMSON GIANT. An early but large, round or slightly globular radish adapted for either forcing or out-door cultivation. While it grows much larger than other forcing varieties it does not become pithy under glass, nor outdoors even when it is twice as large and older. Beautiful crimson-carmine, attractive and of fine quality. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

EARLY SCARLET TURNIP. A small round variety, with small tops; quick grower. Popular for forcing and outdoors. Deep scarlet. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

EARLY SCARLET TURNIP, WHITE-TIPPED. Root nearly round, slightly flattened at bottom, bright scarlet with tip of clear white, early and attractive; suitable for forcing and outside planting. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

EARLY LONG SCARLET, SHORT-TOP. Once the most popular radish, but has been largely displaced by the round varieties. 6 to 8 inches long, ready to pull in twenty-five to thirty days from sowing. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Small Sugar Pumpkin

Radish, Scarlet Globe

Radish—Continued

EARLY WHITE GIANT STUTTGART. Root large, clear white, often 4 inches in diameter, does not become pithy until very late. Those not used for summer radish can be stored for winter use. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.00.

FRENCH BREAKFAST. A stump-rooted radish about 3 inches long. Bright scarlet, tipped white. An old favorite for home garden. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

LONG BLACK SPANISH WINTER. One of the hardiest and best for winter use. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

ROUND BLACK SPANISH. White flesh with black skin. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

WHITE ICICLE. The earliest pure white, long, summer radish of most excellent quality. Roots when matured are 5 to 6 inches long by about $\frac{1}{2}$ inch in diameter. One of the best outdoor summer radishes. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

WHITE STRASSBURG. A fine summer variety, growing about 4 inches long and 2 inches thick. Pure white. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Rhubarb or Pie Plant

An ounce should produce 100 plants

The roots can be raised from seed sown in the spring, and are ready to transplant to the permanent bed the next spring. The seed must be sown in fine, rich soil, and the seedlings must have good care.

VICTORIA. The most popular variety, fine for family use and market. Comes quite true from seed. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.35.

RHUBARB ROOTS. Sent by express at buyer's expense. 25 cts and 50 cts. each, according to size of clump.

Salisfy or Vegetable Oyster

An ounce will sow 50 feet of drill

Sow early and deeper than parsnip, otherwise culture is the same, and like that, roots, if desired, may be left in the ground through the winter, but should be dug very early in the spring, as they deteriorate after growth commences.

MAMMOTH SANDWICH-ISLAND. Larger, of stronger growth, and less liable to grow spongy than the old Long White. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 90 cts.

SPINACH An ounce will sow 50 feet of drill, 14 to 16 pounds to the acre

Culture.—For spring and summer use sow in drills 1 foot apart and 1 inch deep, as early as the ground can be worked, and every two weeks for a succession. For winter and early spring use, sow in September in well-manured ground; cover with straw on the approach of severe cold weather. The ground cannot be too rich.

EARLY GIANT THICK-LEAVED. Leaves very large and thick, deep green, attaining a size suitable for use early and plant grows to a large size before running to seed. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

KING OF DENMARK. Also known as "Antvorskov." This new variety is undoubtedly the most valuable introduction of spinach in recent years. Although the plants are ready for use almost as soon as the medium early sorts they remain in good condition for a week to two weeks after all other varieties have gone to seed. The plants are of rapid growth, resemble the Long Season in type but leaves are more crumpled or blistered and are of darker green color. The leaves are thick, stand well after cutting and are of good quality. We believe this variety will in a few years be one of the leading sorts as its distinctive qualities are sure to win favor for it from both the home and market gardener. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

LONG SEASON. A new variety claimed to surpass all others in its ability to withstand hot weather without running to seed. Leaves very dark green, much crumpled, thick, tender and succulent. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

LONG STANDING. A variety which matures early and remains in condition for use longer than most others. Leaves smooth, rich, dark green. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

SAVOY-LEAVED, or BLOOMSDALE. The earliest variety and used almost entirely for fall sowing, as it runs quickly to seed in warm weather. Leaves of medium size, dark green, pointed and crimped. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

VICTORIA. Leaves large, thick, very dark green, slightly curled in the center. A little later than Long Standing, but surpasses it in the desirable feature of remaining in condition for use for a long time. Especially desirable for spring sowing. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

Early Giant Thick-Leaved Spinach

NEW ZEALAND.

Thrives during the hottest summer weather in any soil, rich or poor, a single plant covering a space about 4 feet square. The tender tips may be cut every few days; after cutting the plant puts out new growth and continues till frost. Soak for 24 hours and plant 4 seeds in hills 2 feet apart each way. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

If larger quantities, other than listed are wanted, write for prices.

French Breakfast Radish

EVERYBODY KNOWS ROSS' SEED GROWS

Squash

An ounce will plant from 20 to 40 hills.

Squash seed should be planted at about the same time and in the same manner as cucumbers and melons. The hills should be 9 feet apart each way, slightly elevated and highly manured. Bush varieties may be planted closer together. Use plenty of seed, as the bugs will destroy some plants.

BLUE HUBBARD. The Symmes Blue Hubbard is an entirely distinct variety resembling the Warted Hubbard in shape. It is a pale light-blue color, very thick meated, dry and very sweet, its eating qualities cannot be surpassed. The Blue Hubbard is an exceptional heavy cropper, producing an extraordinary number of squashes, which, though not of the largest, are of even size, thus making it very easy to handle and market. It has excellent qualities, keeping with proper storage much longer than the Delicious. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

GOLDEN HUBBARD. A distinct sort of the shape and general character of the Hubbard but a little smaller, earlier to mature, and a rich orange-red instead of the dark olive-green of the old Hubbard, while the flesh, which is thick, is a little deeper colored, of fully as good quality, fine grained and dry. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

Blue Hubbard

ESSEX HYBRID. A cross of the Hubbard and Old Turban, partaking somewhat of the features of both. Like the Hubbard, it is hard-shelled. In color it is like the Turban, but greatly improved in form. Flesh thick, solid and of good quality. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40.

FAXON. A very desirable variety for the home garden, very productive, of medium size (five or six pounds), fine grained, dry, sweet, a good keeper, uniform in shape, but varied in color. This variation in color is a distinct feature of the squash. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40.

BOSTON MARROW. This grows larger than either the Prolific or Orange Marrow, but is not of so deep color. Skin thin, yellow, with pinkish tint. Desirable for pies, not so dry as the Hubbard. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.40.

CHICAGO, or WARTED HUBBARD. A selection of the Hubbard, with thickly warted shell. Equal in quality to that and generally considered to be of more attractive appearance. Of this also we offer a carefully selected strain unsurpassed by any we have ever seen. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

DELICIOUS. A fall and winter variety. Color, usually dark green but sometimes lighter in color and mottled; shell, moderately hard but very thin; flesh, thick, very fine grained, sweet and of finest flavor. Even when not quite mature is in condition for use and of good flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.00.

ITALIAN VEGETABLE MARROW. Vines of bush habit, producing large, much elongated fruits. Dark green at first but becoming marbled with yellow as they mature. The young fruits when fried in oil constitute a vegetable delicacy very popular. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

EARLY SUMMER CROOKNECK. For early planting the Crookneck type is used in New England to almost the exclusion of any other. This, while much smaller than the Mammoth Crookneck, is yet largely grown, many considering it of better flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

Three Green Hubbards grown by Frederick Midgley & Sons

HUBBARD. A well-known and favorite winter variety, more largely grown than any other. We offer a choice strain, considered by some of our customers to be superior to the popular Chicago Hubbard. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

MAMMOTH CHILI. The largest variety, attaining under high cultivation an enormous size. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

MAMMOTH SUMMER CROOKNECK. Vine larger and of more vigorous growth than the Summer Crookneck and fruit is twice as large, and deeper colored. Its large size and attractive appearance have made it popular with market-gardeners. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

Orange Marrow

MAMMOTH WHITE BUSH SCALLOP. An improvement on the old variety; larger, pure white and superior in quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.

ORANGE MARROW. An early variety, much like the Prolific Marrow in color and pitting, but is more nearly round, later, much thicker meated, and of better quality. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

PROLIFIC MARROW. The earliest fall variety; from a week to ten days earlier than any other Marrow. Color, deep orange; skin considerably pitted. Not so thick-meated as the Orange Marrow, not quite equal in quality, but especially desirable on account of its earliness and also because it is very prolific. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

THE WARREN. Has a shell generally harder and thicker than the Essex Hybrid and the color is a deeper and richer orange while the quality is decidedly better. The Warren is now grown very extensively by market-gardeners. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

Delicious

Tomato

An ounce will produce
about 2,000 plants

Tomatoes do best on light, warm, not over-rich soil. Sow in hotbed or window-box (where 60 degrees Fahr. is the minimum night temperature) in March in rows 3 inches apart and ½ inch deep. Cover firmly. Later sowings may be made to the end of April. When seedlings are 3 inches high, transplant 4 inches apart each way in hotbeds, coldframes, or singly in 3-inch pots. Harden plants by exposing to the air occasionally. After warm weather is settled set out plants 3 to 4 feet apart each way in hills, into each of which fertilizer has been previously mixed. Water freely at time of transplanting and shelter from sun until plants are well established.

ACME. Vine hardy and productive. Fruit in clusters of four or five, round, smooth and of good size; flesh solid and of excellent flavor. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

BEAUTY. Vines large, vigorous and heavy bearers; fruit large, uniform in size, very smooth, and excellent flavor; color, purplish pink. The best purple sort. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

COMET. Fruit medium size, scarlet. The heaviest yielder of the green-house sorts. Pkt. 15 cts., ½ oz. 60 cts., oz. \$1.00.

DWARF CHAMPION. Sometimes sold as the "Tree Tomato." A second early, purplish pink variety, especially desirable where garden space is limited. Vine about two feet high, vigorous, upright and compact. Fruits, medium sized, exceptionally smooth and of very good quality. Our stock is a very superior strain with more even, smoother fruit than the original. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

DWARF STONE. Vine dwarf but vigorous and productive. While maturing with the later sorts the bright red fruits are of good color, exceedingly smooth and very solid. We consider this the best of the large fruited, dwarf tomatoes. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

EARLY DETROIT. This is considered the largest and best of the purple varieties. Vine is vigorous and very productive; fruits are purplish pink, smooth, uniform in size and are nearly globe shape. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

GOLDEN QUEEN. A very attractive yellow variety. Fruit large, smooth, solid and we think of richer flavor than any of the standard varieties. Should be more largely grown for home use. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

IMPERIAL. Fruit large and very attractive, resembling the Beauty; is not quite so large, but ripens a little earlier, is always smooth and not surpassed in quality. Vine vigorous and remarkably productive. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

JUNE PINK. An extra early, purplish pink tomato similar to the popular scarlet fruited Earliana in growth of vine, shape and size of fruits and time of maturing. This is a variety of exceptional value to market gardeners who want an early purplish pink tomato, either for home market or to ship; also desirable for planting under glass. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

JOHN BAER. An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early and are also most attractive in color. They are nearly round, smooth, firm and of excellent quality. It is one of the earliest to ripen and it continues to furnish marketable fruits much longer than the other very early varieties. It is a very valuable sort for market gardeners use. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

LIVINGSTON'S GLOBE. A large, purplish pink, globe-shaped or very nearly round tomato of excellent quality. Vine very vigorous and productive. Fruit rather uneven in size but very smooth and matures a little earlier than most main crop varieties. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

MATCHLESS. A large, smooth, bright red variety of excellent flavor, ripening well to the stem. Used in the east to quite an extent for main crop. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

PERFECTION. A smooth, blood red tomato. Ripens with Acme, and a week or ten days earlier than the Stone. A desirable sort for gardeners and canners who require a red tomato. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

PONDEROSA. This is one of the largest smooth tomatoes. Color, deep purple. The fruit is exceptionally solid, having but few seeds and is quite free from acid. It is also an ideal variety for shipping. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts., ¼ lb. \$1.50.

RED PEAR. Fruit bright red, rather small, distinctly pear-shaped; of rich flavor and used largely for preserving. The stock we offer is the true pear-shaped, not the large red plum often sold for it. Pkt. 10 cts.

SPARK'S EARLIANA. A deep red tomato. The vines are compact in growth, with short, close-jointed branches. This is an extra early tomato and the best so far produced. Very productive. Fruit fair size and firm. In test it ripened fruit in 108 days from date of sowing seed. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

STONE. Vines vigorous and productive; fruit large, smooth, deep red in color, and heavy. The best all around variety, where earliness is not important. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

YELLOW PEAR. Identical with Red Pear, except in color. Clear rich yellow. Pkt. 10 cts.

YELLOW PLUM. Small, plum-shaped fruit of rich flavor. Desirable for preserving and pickling. Pkt. 10 cts.

YELLOW HUSK, or STRAWBERRY. Fruit about the size of a small cherry, borne in husks; of very rich flavor, used only for preserves. Plant also distinct. Pkt. 10 cts.

Beauty Tomato

BONNY BEST. This tomato has been tested and found eight to ten days earlier than the Chalk's Early Jewel and ripens about with the Earliana. Very strong grower and the fruit is uniform and smooth; ripens evenly all over, excellent shipper. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

CHALK'S EARLY JEWEL. A second or medium early sort. Later than Earliana. Vines vigorous and productive. Fruit solid and without hard core. Color, bright scarlet. A sort having great merit. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

If larger quantities, other than listed are wanted, write for prices.

EVERYBODY KNOWS ROSS' SEED GROWS

Turnip

An ounce will sow 150 feet of drill. If sown in drills one pound is required for an acre; if sown broadcast less seed is sufficient if sown evenly.

Turnips thrive in well-enriched, medium to light soil, succeeding best on land that was shortly before in grass, enriched at time of sowing with a liberal application of commercial fertilizer. They should not be grown on the same land two years in succession, nor should they follow a crop of cabbage or radish. For early use seed should be sown as soon as ground can be prepared, so that the roots will be of sufficient size before hot weather, which makes them tough and stringy. The main need for early varieties is for especially late planting, while for a long time it was held that July 25 was the latest date at which Turnips could profitably be sown, more seed is now sown as late as September 1. The roots are much sweeter if they do not attain their size until after several hard frosts. The above regarding the time of sowing applies only to the English or common Turnips; the Swedes or Rutabagas, requiring a longer season, should be sown not later than July 15. The rows of the English varieties should be from 1½ to 2 feet apart and plants thinned to 4 to 7 inches, according to variety and its top-growth. These varieties are often sown broadcast and too often too much seed is used; a half pound is sufficient for an acre if sown evenly. The Swedish varieties require more space, rows should be at least 2½ feet apart and plants should not be nearer than 10 inches. Seed of this class should never be sown broadcast.

EARLY SNOWBALL. Pure white, round, of medium size. Ready for the table six weeks after planting. Of fine quality. Pkt. 10 cts., oz. 15 cts., ¼ lb. 25 cts., lb. 75 cts.

EARLY WHITE MILAN. Roots flat, smooth and symmetrical, pure white. Top very small, upright, and compact, permitting close planting. The earliest and much the best of any extra early white variety. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

EARLY PURPLE MILAN. Differs from the preceding in that the roots are not quite so thick and are purple on top. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

EARLY PURPLE-TOP FLAT. A well-known variety and very extensively grown. Roots smooth, white, with the upper portion purplish red. Pkt. 10 cts., oz. 15 cts., ¼ lb. 25 cts., lb. 75c.

Early Purple Top Flat

EARLY PURPLE-TOP WHITE GLOBE. One of the handsomest varieties, the upper portions of the root being a purplish red, the lower pure white. A rapid grower, attaining a marketable size sooner than other large globular varieties. Of the best quality and an excellent keeper. Pkt. 10 cts., oz. 15 cts., ¼ lb. 25 cts., lb. 75 cts.

WHITE EGG. More extensively grown than any other variety. White, egg-shaped, smooth and symmetrical, of medium size; flesh firm, sweet and mild. Pkt. 10 cts., oz. 15 cts., ¼ lb. 25 cts., lb. 75 cts.

GOLDEN BALL, or ORANGE JELLY. Of globular form, medium size, skin rich orange; flesh, pale amber, very fine-grained, mild and sweet. One of the most attractive, of the best quality and keeps well. Pkt. 10 cts., oz. 15 cts., ¼ lb. 25 cts., lb. 75 cts.

YELLOW GLOBE. The standard yellow variety. The form is round, slightly flattened. Largely grown for stock, and to some extent for market. An excellent keeper. Pkt. 10 cts., oz. 15 cts., ¼ lb. 25 cts., lb. 75 cts.

COW HORN, or LONG WHITE. Root long, slightly crooked and grows nearly half above ground. Clear white, except a little green at top. Though more largely used for feeding stock, it is a fine table variety, being tender, and of mild flavor. Of very rapid growth. Pkt. 10 cts., oz. 15 cts., ¼ lb. 25 cts., lb. 75 cts.

SWEDISH, RUSSIAN or RUTABAGA

SWEET RUSSIAN. An old variety, yet largely grown, mainly for table use. Sweet and mild. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.00.

WHITE FRENCH, or ROCK. Also an old and popular sort. Roots a little longer than Sweet Russian, but does not otherwise differ. Valuable for table or feeding. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.00.

BUDLONG. Originated in Rhode Island by Mr. Budlong, a very extensive grower of Rutabagas. Earlier and more nearly round than other white varieties of this class. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.00.

BREADSTONE. An early variety, white, faintly colored at top; medium size, tender, mild and sweet. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.00.

SHAMROCK. A popular English Yellow Swede. A decided favorite with our local trade. Has short neck, shape oblong. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.00.

LONG ISLAND IMPROVED. This is undoubtedly the finest variety of Purple-Top Rutabaga. It grows much larger than other American varieties, is, therefore, desirable for stock, but equally desirable for the table and market, as it is tender and sweet, and of very attractive appearance. Pkt. 10 cts., oz. 15 cts., ¼ lb. 35 cts., lb. \$1.00.

TOBACCO

CONNECTICUT SEED LEAF. A hardy cigar variety, well adapted to growing in the Middle and Northern States. Pkt. 10 cts., oz. 40 cts.

HAVANA. Leaf very thin, fine texture. Much used for cigar wrappers. Pkt. 10 cts., oz. 40 cts.

Ross Bros. Co., Worcester, Mass.

West Brookfield, Mass.

Dear Sirs:—You probably would be interested in the attached photo of some turnips grown from your seeds; the crop is almost perfect in shape and taste. I expect 2,000 bushels of Yellow Globe and 600 bushels of White Egg.

Yours truly,

C. D. BRIGGS.

White Egg and Yellow Globe

Selected List of Flower Seeds

Though some seeds need special treatment, the following general directions for outdoor culture apply to all. Make the soil fine and even by digging and raking. Though seeds should not be sown nor ground worked when it is wet and soggy, moisture is essential to the successful germination of seeds; therefore sow only on freshly worked soil. Sow in rows that the young plants can be easily seen, and each lot of seeds at a uniform depth, which should generally be four to six times the diameter of the seed. Make the soil over the seeds firm. This is very important, as it prevents, to a great degree, the escape of moisture. If weather following is hot and dry, it may be necessary to water. Water thoroughly; and, once commenced, regularly or not at all.

Some plants do not bear transplanting well, so seeds should be sown where plants are to remain. Seeds of most plants may, however, be sown in beds and the young plants transplanted, if desired. Transplanting is, of course, more easily done in rainy weather, but, if necessary, can be safely done in hot, dry weather by giving the soil a good soaking, and then shading the plants for a few days. Give frequent but shallow cultivation. Shallow cultivation conserves moisture by converting the top soil into a fine mulch.

HOW TO ORDER

When ordering, always give catalogue variety number; and while it is not necessary to give name it often serves to indicate more fully what the customer desires, as in the event of the number and name differing, we always send the variety indicated by the name as probably the one desired. All flower seeds mailed free on receipt of price quoted.

Plants are usually divided into three classes, Annuals, Biennials and Perennials. Annuals are plants which normally live but a single season. Biennials are plants living two years; particularly those which do not bear flowers and fruit until the second season. Perennials tend to live from year to year. Half-hardy Biennials and Perennials require winter protection of plants. Sow part of your seed early and make frequent sowings, so that when the soil becomes warm and mellow you will be ready to set out strong, well-developed plants, neither too young nor too old.

Asters One of the very best Annuals for cut-flowers

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

PEERLESS YELLOW

Without doubt the most satisfactory yellow yet produced. While not as striking as its more brilliantly colored cousins, its delicate hue of pure sulphur yellow endears it at once to every true lover of beauty. The flowers are large and remarkably full and ball shaped, with centers deeply covered with curled and twisted florets.

The plants are of branching type and very vigorous. It is not unusual to find a plant with from twenty to thirty good flowering stems sufficiently long and with flowers of ample size for extra fancy cut flower purposes. So numerous and large are the flowers that the plants are completely covered like a golden dome. In a bed the plants will easily fill two foot rows. In a border a single row is ample. It is certainly a winner in its class and color. Pkt. 15 cts., 1/16 oz. 50 cts., 1/8 oz. 90 cts.

Aster, Heart of France
HEART OF FRANCE

The best pure red Aster ever introduced. All others have sombre shades of blue or too much yellow in the color pigments. Heart of France opens red as the purest ruby, deepens with age and retains its remarkable beauty to the very end. The petals appear strikingly changeable, showing now a glow and sheen quite unique, now a soft warm velvety texture. In any light, natural or artificial, Heart of France is startlingly beautiful and will command instant admiration. Pkt. 15 cts., 1/16 oz. 50 cts., 1/8 oz. 90 cts.

PINK ENCHANTRESS

This splendid Aster, introduced recently, is highly commended, and large quantities are grown annually by commercial florists. The immense flowers of a soft, delicate pink, are borne on strong, upright plants. The color is that of the popular "Pink Enchantress" Carnation. In Asters, the color is between that of Daybreak and the Semple's Pink Branching and although very delicate, does not fade. In size the flowers are equal to those of the largest Branching Asters. Pkt. 10 cts., 1/8 oz. 60 cts., 1/4 oz. \$1.10.

ROYAL ASTERS

This is considered by many to be the very best general purpose Aster ever introduced. It is very much like our American Branching variety, having all its good qualities, but coming into bloom in July or early August and lasting in perfect condition for a long time. The habit of the plants and their free flowering make them very desirable for beds or borders and the long stemmed flowers are ideal for cutting. 28 Shell Pink, 28 White, 29 Lavender, 31 Mixed Colors. Pkt. 10 cts., 1/8 oz. 60 cts.

Aster, Peerless Yellow

EVERYBODY KNOWS ROSS' SEED GROWS

ASTERS—CONTINUED

QUEEN OF THE MARKET. A very early-blooming strain, which, though plant is only 1½ feet high, bears from ten to fifteen well-formed, medium-sized flowers on long stems. Much used by florists.

4 White. 5 Rose. 6 Light Blue. 7 Pink. 8 Crimson. 9 Mixed Colors. Each, Pkt. 10 cts., ½ oz. 40 cts.

- 15 **EARLY SNOWDRIFT.** An extra-early variety. Plant of slender growth, having but few and narrow leaves, bearing in profusion on long, upright stems, large pure white flowers of very feathery and graceful appearance, and always full and double. Of American origin. Originator's stock. Pkt. 15 cts.

- 20 **DAYBREAK.** Flowers very large and full, and borne on long stems, color a beautiful shell-pink. The plant blooms early and profusely, and is of a strong and compact habit. Very popular. 2 feet. Pkt. 10 cts., ½ oz. 50 cts.

- 21 **PURITY.** Pure white. A desirable companion to Daybreak. Identical in form of flower and general habit. Blooms at the same time. Pkt. 10 cts., ½ oz. 50 cts.

- 23 **LAVENDER DAYBREAK.** Soft, clear lavender. Of same type as Purity and Daybreak. Pkt. 10 cts., ½ oz. 50 cts.

ROYAL. Very much like our American Branching, but earlier, blooming in July or early August.

- 26 Shell Pink, 28 White, 29 Lavender, 31 Mixed Colors. Pkt. 10 cts., ½ oz. 60 cts.

VICTORIA. Considered for a long time one of the finest types, and improved in recent years. The flowers are large, double, imbricated, having petals which curve outward like those of the show dahlias. Bears freely, beautiful long-stemmed flowers.

- 62 Mixed Colors. A superb mixture. Pkt. 10 cts., ½ oz. 40 cts.

GIANT BRANCHING COMET. Distinct and valuable; flowers resemble the Japanese chrysanthemum. Not only larger, but petals are longer and somewhat broader than the old Comet section. The plant is of vigorous, luxuriant growth and produces freely its long-stemmed, graceful flowers. 1½ to 2 feet.

- 70 White. 71 Light Yellow. 73 Rose. 74 Lavender. 75 Crimson. Each, pkt. 10 cts., ½ oz. 40 cts. 80 Mixed Colors. Many colors and shades. Pkt. 10 cts., ½ oz. 40 cts.

Pink Enchantress

Giant Branching Aster

- 81 **MIKADO PINK.** In type, Mikado Pink belongs to the Comet class. Petals are narrow, very long and gracefully reflexed. In color it is a most exquisite shade of shell-pink. Strong-growing, free-branching, long-stemmed plants. In growth these plants are unusually vigorous for their type. It is not uncommon to find plants with a dozen long, strong, graceful stems, each crowned with flowers from 4½ to 6 inches in diameter. Pkt. 15 cts., ½ oz. 50 cts.

- 82 **MIKADO WHITE.** Similar in every respect to Mikado Pink, except color, the flowers having the same deep, fluffy form and the plant the branching habit ascribed to the above. Blooms at the same season. Each is the best of its color in the Comet class. Pkt. 15 cts., ½ oz. 50 cts.

- 83 **MIKADO ROSE.** Pkt. 15 cts., ½ oz. 50 cts.

CREGO. This splendid strain of Asters have large flowers, with long, narrow loose petals of the Comet type and grow in a variety of beautiful colors. The plants are of the branching family and are very vigorous and productive. They bloom in mid-season or just before the Late Branching and present a most pleasing spectacle in the garden.

- 95 Shell Pink. 96 White. 97 Purple. Pkt. 10 cts., ½ oz. 50 cts.

- 104 **LAVENDER GEM.** Of the Ostrich Feather type. Flowers large and remarkably free from single and semi-double specimens. The feathery effect is increased in a large proportion of the flowers by long, partly tubular florets, irregularly cut and slashed. The color is an exquisite shade of lavender, which deepens with age. The plant branches close to the ground and blooms profusely and very early. 2 feet. Pkt. 10 cts., ½ oz. 60 cts.

AMERICAN BRANCHING. A superior late-blooming strain of American origin. The flowers are of the largest size, borne on long, graceful stems, often 15 or more inches in length, are exceedingly beautiful and unsurpassed for cutting. The plants are of extra large and strong growth, and bloom profusely. 2½ feet.

- 108 White. 109 Pink. 110 Lavender. 111 Crimson. 112 Purple. Each, pkt. 10 cts., ½ oz. 40 cts., ¼ oz. 75 cts., oz. \$2.75.

- 116 Mixed Colors. Pkt. 10 cts., ½ oz. 40 cts., ¼ oz. 75 cts., oz. \$2.75.

- 117 **VIOLET KING.** In habit similar to the American Branching. The flowers are entirely distinct from any other, petals somewhat resemble those of the quilled sorts, but are much larger, those in the center being curiously twisted, curled and incurved, completely covering the crown. In shape and size, round, full, and very large, often 4 and 5 inches in diameter; color, soft violet lilac. Pkt. 10 cts., ½ oz. 50 cts.

SEMPLE'S BRANCHING. The plants of this Early Branching Aster attain the size and vigor of the famous American Branching, but bloom from 10 days to 2 weeks earlier. Extra large, perfectly formed flowers on long, stiff stems make them especially desirable for cutting, for exhibitions or for sale.

- 118 Lavender. 119 White. 120 Shell Pink. 121 Crimson. 122 Mixed. Each, pkt. 10 cts., ½ oz. 40 cts., ¼ oz. 75 cts.

- 124 **WORCESTER MIXTURE.** Our own mixture of the leading choice varieties, includes every color and shade known among Asters, and will afford, especially if purchased in bulk, the greatest discovery of both colors and types. Purchaser of a single packet may be certain of securing a choice collection of desirable varieties. Pkt. 10 cts., ½ oz. 40 cts., ¼ oz. 75 cts., oz. \$2.75.

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ASTERS—Continued

- 125 **GOOD MIXED.** Our own mixture of many varieties; a wide range of colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.75.
ASTERMUM. A strain of Giant Comet Asters which, on account of their immense size and Chrysanthemum-like appearance, have appropriately been named Astermums. The plants grow about 2 feet high with long, strong stems and should come into bloom about the middle of August.

126. White. 127 Pink. 128 Lavender, Pkt. 15 cts.

ABRONIA

A beautiful little trailing plant, bearing freely in the autumn months verbenalike fragrant flowers. Sow in the house and transplant, or very early in the open ground. Hardy annual.

- 131 **UMBELLATA.** Rose, white eye. Pkt. 5 cts.

ACHILLEA

- 135 **PTARMICA, The Pearl.** One of the best white, hardy perennials, bearing profusely and continuously from June until frost, beautiful small, white, double flowers; useful for cutting. Easily grown from seed, desirable and often used in cemeteries. 2 feet. Pkt. 15 cts.

ACROCLINUM EVERLASTING FLOWER

A half-hardy annual, bearing attractive white and rose-colored single and double flowers chiefly used when dried for winter bouquets and wreaths; for this purpose, flowers should be cut before fully expanded. $\frac{1}{4}$ feet.

- 139 Light Rose and Pure White, Mixed. Pkt. 5 cts.

ADLUMIA

- 140 **CIRRHOSA.** (Mountain Fringe; Allegheny Vine.) A beautiful hardy, climbing biennial, which usually self-sows. The feathery foliage resembles that of the maiden-hair fern. Of rapid growth and produces, in great profusion, small, tube-shaped pink blossoms. Of the easiest culture. Desirable for covering trellises, stumps, etc. 10 to 15 feet. Pkt. 10 cts.

ADONIS

Hardy, free-flowering plants, bearing showy, attractive flowers, and requiring little care. Seed should be sown in the open ground in the Autumn, or started early in March.

- 144 **AESTIVALIS.** (Flos Adonis; Pheasant's Eye.) Hardy annual bearing intense, blood-red flowers, which, in contrast with the finely cut, dark, green foliage, give the plant a very striking appearance. 1 foot. July and August. Pkt. 5 cts.

- 145 **VERNALIS (Ox-Eye.)** Hardy perennial, blooming early in spring; when once established, may be easily increased by division. Flowers large, yellow. 18 inches. May and June. Pkt. 5 cts.

AGERATUM

One of the best hardy annuals for summer bedding flowers. Easily grown from seed, which should be sown in the house, as it lengthens the time of blooming which continues until frost. Its season, however, compares favorably in length with other annuals when seed is sown in the open ground. Set the dwarf kind 10 inches apart, and they soon make a mass of color.

- 148 **MEXICANUM.** Blue, $\frac{1}{4}$ feet. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

- 149 **MEXICAN ALBUM.** White, $\frac{1}{4}$ feet. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

- 150 **IMPERIAL DWARF WHITE.** 8 inches. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

- 151 **LITTLE DORRIT.** Azure-blue. 8 inches. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

- 152 **IMPERIAL DWARF BLUE.** 8 inches. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

- 153 **LITTLE BLUE STAR.** A miniature variety with beautiful mauve flowers. 5 inches. Pkt. 10 cts.

Sweet Alyssum, Fine for Edging

- 154 **BLUE PERFECTION.** Large heads of Amethyst-blue flowers; plant of very even growth, about 8 inches high. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

- 158 **MIXED COLORS.** All varieties mixed. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts., oz. 45 cts.

AGROSTEMMA

Pretty, free-blooming plants of easy culture, especially desirable for dry situations. Excellent for cutting.

- 160 **COELI-ROSA.** (Rose of Heaven.) Rose, white center. Hardy annual. $\frac{1}{2}$ feet. Pkt. 5 cts.

- 161 **CORONARIA.** (Rose Champion.) One of the earliest hardy perennials. $\frac{1}{2}$ feet. Mixed colors. Pkt. 5 cts.

ALYSSUM

A well-known favorite, hardy annual, blooming profusely the entire season. Excellent for edging. No other white flower is so well adapted for a dense, low carpet, or as borders and ribbons in garden work. Extremely fragrant and frequently used for bouquets. Of easy culture. Sure to make a good display. Sow seed early in April.

- 166 **SWEET ALYSSUM.** Fragrant, white, 1 foot. Pkt. 5 cts., $\frac{1}{4}$ oz. 20 cts., oz. 60 cts.

- 167 **LITTLE GEM.** Of spreading habit, forming compact masses of bloom often a foot or more in diameter. White, fragrant, 6 inches. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

- 168 **CARPET OF SNOW.** Of very dwarf habit; white, fragrant, 4 inches. Pkt. 5 cts., $\frac{1}{4}$ oz. 30 cts., $\frac{1}{2}$ oz. 50 cts.

- 170 **SAXATILE COMPACTUM.** Hardy perennial, bearing in great profusion in early spring golden yellow flowers. Desirable for rock work or for massing. 1 foot. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

- 171 **LITTLE DORRIT.** Little bushes fairly smothered with miniature white flowers. A gem for edging and beds. 4 inches high. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.25.

AMARANTHUS

Brilliantly colored foliage, and bearing peculiarly formed flowers. While in rich soil the plants and leaves are much larger, the colors are seldom as brilliant as when grown on rather poor soil. Of easiest culture. Give plenty of room to develop.

- 175 **CAUDATUS.** (Love-Lies-Bleeding.) Long, drooping, flower, blood red. Half-hardy annual. 2 feet. Pkt. 5 cts.

- 176 **CRUENTUS.** (Prince's Feather.) Spikes of dark red flowers, half-hardy annual. 3 feet. Pkt. 5 cts.

- 177 **SALICIFOLIUS.** (Fountain Plant.) Long, gracefully undulated foliage, beautifully variegated, varying from green to bronze, banded and tipped with carmine. Tender annual. 3 feet. Pkt. 5 cts.

- 178 **TRICOLOR SPLENDENS.** (Joseph's Coat.) Red, yellow and green foliage. One of the most beautiful of ornamental-leaved plants. Hardy annual. 2 feet. Pkt. 5 cts.

AMPELOPSIS

- 182 **VEITCHII.** (Boston Ivy; Japan Ivy.) The well-known popular climbing vine, so often seen on walls of churches, school-houses, etc. Grows rapidly and clings to the smoothest surface. Ornamental the entire season, the dark green glossy leaves changing in the autumn to beautiful shades of scarlet, crimson and orange. Easily grown from seed. Entirely hardy except in the far North. Stands the dust and smoke of cities exceedingly well. Pkt. 10 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.

ANCHUSA

H. P. Flowers borne on spikes of a variety of blue shades. Useful in shrubbery and perennial gardens.

- 185 **CAPENSIS.** (Cape Forget-me-not.) Attractive annual with azure blue flowers. $\frac{1}{2}$ feet. Pkt. 10 cts.

- 186 **DROPMORE VARIETY.** The bright blue Forget-Me-Not-like flowers are borne on graceful stems during the entire season and way late into the Fall. It is a great improvement over the existing varieties. Hardy perennial. 4 to 5 feet. Pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts.

ANEMONE

A very popular hardy garden perennial.

- 188 **CORONARIA.** Single, mixed colors. The well-known Poppy-flowered Anemone 1 foot. Pkt. 5 cts.

- 189 **CORNARIA, ST. BRIGID.** An improved strain, bearing larger and more brilliant flowers, and remaining in bloom longer. 1 foot. Pkt. 10 cts.

ANTHEMIS

(Hardy Golden Marguerite)

A beautiful, hardy perennial of easy culture, bearing all summer, golden yellow, daisy-like flowers, excellent for cutting. Plants bushy and should stand at least 2 feet apart. Height 2 feet.

- 190 **KELWAYI.** Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., $\frac{1}{4}$ oz. 25 cts.

ANTIRRHINUM

(Snapdragon)

One of the most beautiful and useful bedding plants, blooming profusely throughout the summer. Fine for cutting.

- 191 **SILVER PINK.** A splendid commercial variety, long-stemmed, large flowered, delicate rosy pink, seemingly covered with a silver sheen. Pkt. 25 cts.

- 192 **VENUS.** A bright pink on white ground, set off by pure white throat. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts.

- Tall Varieties. 193 Rose. 194 Crimson. 195 White. 196 Yellow. 197 Mixed Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. \$1.00.

- 198 **Grandiflora.** Giant varieties. Mixed, pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts.

- 199 **Dwarf Varieties.** Mixed colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts.

EVERYBODY KNOWS ROSS' SEED GROWS

AQUILEGIA

(Columbine)

Beautiful free flowering hardy perennials, blooming throughout the spring and early summer. Of easy cultivation and will thrive in partial shade. 1 to 3 feet.

200 Single Mixed. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts., $\frac{1}{4}$ oz. 40 cts.

202 Double Mixed. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts., $\frac{1}{4}$ oz. 50 cts.

203 COERULEA. (Rock Mountain Columbine.) Splendid, large, light blue. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

204 COERULEA HYBRIDA pl. fl. Long spurred, flowering hybrids in fine colors. Pkt. 25 cts.

ARABIS

209 ALPINA. (Rock Cress.) A pretty, little, hardy perennial, thriving in dry soil, and one of the earliest to bloom. Flowers white and deliciously fragrant; resembles Sweet Alyssum. The plant is covered with bloom and is excellent for rockwork and edgings. 6 inches. Pkt. 10 cts.

ARCTOTIS

210 GRANDIS. (African Lilac Daisy.) A beautiful annual from Africa, of luxuriant branching growth, bearing freely from July until frost, large, long stemmed, daisy-like flowers, about 3 inches across; pure white on upper surface, reverse side of pale lilac. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts., $\frac{1}{4}$ oz. 50 cts.

ARISTOLOCHIA

215 SIPHO. (Dutchman's Pipe.) A hardy perennial vine of rapid growth with large glossy heart-shaped leaves, bearing curious yellowish-brown blossoms, somewhat resembling a pipe. 15 to 20 feet. Pkt. 15 cts.

ASPARAGUS

216 PLUMOUS NANUS. Beautiful house plants; the feathery foliage is unrivaled for cutting. Pkt. 25 cts., 100 seeds \$1.00.

217 SPRENGERI. Excellent plants for table decorations. Pkt. 15 cts.

ASPERULA

220 ODORATA. (Sweet Woodruff.) A hardy perennial, blooming freely and continuously in rather moist soil and a partially shaded location. The flowers are white, but the plant is largely grown for its fragrant leaves and stems, which are used when dried for the same purposes as those of lavender. 1 foot. Pkt. 5 cts.

BALSAM

This old favorite annual, sometimes known as Lady's Slipper, has been continually improved for several years, the flowers of some strains now closely rivalling in size and beauty those of the Camellia. Requires rich soil, full exposure to the sun and plenty of water, to be grown to perfection, but is otherwise of easy culture. We offer seed of the most improved types, which will, with favorable conditions, produce a large proportion of double flowers. 2 feet.

225 IMPROVED CAMELLIA-FLOWERED, MIXED COLORS. Double flowers of the finest type and a wide range of beautiful colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

226 NEW DOUBLE WHITE. (Alba perfecta.) Extra fine. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

Balsam

227 DOUBLE DARK RED. Beautiful rich color. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

228 DOUBLE PINK (PRINCE BISMARCK). Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

230 CHOICE MIXED. Double flowers of many colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 75 cts.

BALLOON VINE

235 A tender annual climber of rapid growth, bearing small, white flowers, followed by curious inflated seed-vessels, somewhat resembling a balloon. 10 to 15 feet. Pkt. 5 cts.

BARTONIA AUREA

236 Showy hardy annual of distinct character, its golden yellow flowers being freely produced; it grows well in partial shade but should not be crowded. Pkt. 10 cts.

BEANS, ORNAMENTAL VARIETIES

The Scarlet and White Runner Beans are deservedly popular as ornamental climbers, as but few plants grow so rapidly, and none is more easily grown. The former is largely grown alone for ornament, but all are very attractive. The beans of the White Runner are used in some localities as green shell beans. Scarlet are also edible, but seldom used. All should be treated as directed for Pole Beans.

240 SCARLET RUNNER. Pkt. 5 cts.

241 WHITE RUNNER. Pkt. 5 cts.

BELLIS PERENNIS (Double Daisy)

A perennial plant, bearing in early spring small, double white or rose-colored flowers. It succeeds best here in a rich, loamy soil, partially shaded. It is generally classed as hardy, but really needs a slight protection through the winter. 4 inches.

245 Mixed Colors. Pkt. 10 cts., $\frac{1}{8}$ oz. 50 cts.

246 LONGFELLOW. Dark Rose. Pkt. 10 cts., $\frac{1}{8}$ oz. 50 cts.

247 SNOWBALL. Pure white. Pkt. 10 cts., $\frac{1}{8}$ oz. 50 cts.

248 MONSTROSA DOUBLE MIXED. These new "Double" Daisies surpass all strains of this popular plant in strong, robust growth and abundance of large bloom. Each plant produces 12 to 15 flowers that measure 2 to 3 inches across, carried on long, strong stems. Pkt. 10 cts. $\frac{1}{16}$ oz. 50 cts.

BRACHYCOME (Swan River Daisy)

A free-flowering plant of dwarf, compact growth, bearing in great profusion beautiful single blue or white flowers. Effective as edgings or in beds, and suitable for rustic baskets or pot culture. Half-hardy annual. 1 foot.

250 Mixed Colors. Pkt. 5 cts.

BROWALLIA

A beautiful, free-blooming half-hardy annual. Seed may be sown in the open ground when warm, but preferably should be sown in the house or hotbed, and, if possible, repotted once or twice. For beds, borders or pots, few equal it. $1\frac{1}{2}$ feet.

251 Blue and White. Mixed. Pkt. 5 cts.

CALCEOLARIA

Georgous plants for greenhouse and window decoration. The flowers are borne in the greatest profusion through spring and summer; colors, yellow, maroon, white, etc., spotted and blotched in the most unique fashion. $1\frac{1}{2}$ feet.

253 Superb English Mixture. Pkt. 50 cts.

Antirrhinum

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CALENDULA (Pot Marigold)

A very free-blooming hardy annual of easy culture. Grows well in nearly all soils. Flowers double, borne on stiff stems, and are cut to some extent, but the plant is more desirable for bedding. 1 to 1½ feet.

- 254 **NANKEEN.** A very distinct variety, the double flowers of a creamy-yellow, slightly flushed apricot, dark brown eye. Pkt. 5 cts., ½ oz. 30 cts., oz. 50 cts.
 255 **METEOR.** Yellow, striped orange. Pkt. 5 cts., ½ oz. 30 cts., oz. 50 cts.
 256 **ORANGE GIANT.** Extra large, orange. Pkt. 5 cts., ½ oz. 30 cts., oz. 50 cts.
 257 **PRINCE OF ORANGE.** Orange, striped yellow. Pkt. 5 cts., ½ oz. 30 cts.
 258 **SULPHUR CROWN.** Sulphur-yellow. Pkt. 5 cts., ½ oz. 30 cts., oz. 50 cts.
 259 **Mixed Varieties.** Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

CALIOPSIS

Well-known, profuse-flowering hardy annuals of the easiest culture. Numbers 260 and 263 represent the type more commonly known. Numbers 261 and 262 resemble in habit, foliage and flower the perennial type, generally known as Coreopsis.

- 260 **Mixed Colors.** 1½ to 2 feet. Pkt. 5 cts., ½ oz. 20 cts., oz. 35 cts.
 261 **CORONATA MAXIMA.** Yellow; extra large. 1½ feet. Pkt. 5 cts., ½ oz. 15 cts.
 262 **GOLDEN WAVE.** (Drummondii.) Golden yellow with small dark center. 1½ feet. Pkt. 5 cts., ½ oz. 20 cts.
 263 **RAY OF GOLD.** Yellow, with purplish brown center, 6 to 8 inches. Pkt. 5 cts., ½ oz. 15 cts.

CANTERBURY BELLS

(Campanula Medium)

Well-known, beautiful, hardy biennials. Like all of this class, may be sown where they are to remain any time after midsummer, or in beds in the spring for transplanting. The Calycanthema (Cup-and-Saucer) class is so named because of the broadening of the calyx into a saucer-shaped secondary flower. In permanent situations, plants should stand 18 to 20 inches apart. All varieties succeed best in a rich, rather sandy well drained soil.

- 267 **PRIZE MIXTURE.** A superb mixture of all classes, single, double, and cup and saucer. Pkt. 10 cts., ½ oz. 20 cts.
 268 **SINGLE MIXED COLORS.** Pkt. 5 cts., ½ oz. 15 cts.
 269 **DOUBLE MIXED COLORS.** Pkt. 5 cts., ½ oz. 25 cts.
 270 **CALYCANTHEMA.** Rose pink. Pkt. 10 cts., ½ oz. 30 cts.
 272 **CALYCANTHEMA.** (Cup-and-Saucer.) Mixed colors. Pkt. 10 cts., ½ oz. 30 cts.
 273 **CALYCANTHEMA.** Blue. Pkt. 10 cts., ½ oz. 30 cts.
 274 **CALYCANTHEMA.** White. Pkt. 10 cts., ½ oz. 30 cts.

CANARY CREEPER

(Tropaeolum Canariensis)

- 275 A rapid-growing, half hardy annual climber, bearing curiously formed yellow flowers. Blooms until frost. Fine for shady places. 10 to 15 feet. Pkt. 10 cts., ½ oz. 15 cts.

CANDYTUFT

Popular hardy annual, growing in any soil, requiring but little care, and by repeated sowings may be had in bloom all summer. 6 inches to 1 foot.

- 276 **CARMINE.** Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.
 277 **DARK CRIMSON.** (Dunnett's.) Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.
 278 **EMPRESS.** Large trusses; pure white. Pkt. 10 cts., ½ oz. 20 cts., ¼ oz. 35 cts.
 279 **GIANT HYACINTH-FLOWERED.** Heads of immense size, resembling the hyacinth. White. Generally considered superior to Empress. Pkt. 10 cts., ½ oz. 20 cts., ¼ oz. 35 cts.
 280 **MIXED COLORS.** Pkt. 5 cts., ½ oz. 15 cts., oz. 50 cts.
 281 **QUEEN OF ITALY.** Of dwarf, bushy habit. Large pink flowers; fine, 6 inches. Pkt. 5 cts., ½ oz. 25 cts., ¼ oz. 40 cts.
 282 **DWARF HYBRIDS.** Mixed colors. Of dwarf habit, but flowers are large. Pkt. 5 cts., ½ oz. 20 cts., ¼ oz. 35 cts.
 283 **WHITE FRAGRANT.** Pkt. 5 cts., ½ oz. 20 cts., oz. 60 cts.

CANNA

The Crozy Cannas are well known for their dwarf growth and luxuriant foliage. The flowers are large and of most brilliant colors. Soak the seeds in warm water until they show signs of swelling, then sow in sandy loam and place in hotbed.

- 284 **CROZY'S DWARF.** Large flowering varieties. Mixed. 3 to 4 feet. Pkt., 10 cts., ¼ oz. 20 cts.
 285 **TALL, DARK-LEAVED VARIETIES.** Mixed. Pkt. 10 cts., ¼ oz. 20 cts.

CARNATION

Well-known and very popular half-hardy perennial, which until the introduction of the Marguerite class, was mainly grown by the florist in the green house and occasionally by the amateur in pots in the house. The Marguerite class, including the original and later introductions of similar type, are treated as annuals, blooming in about four months from seed, which may be sown in the open ground early in the spring, usually by May 1, but preferably earlier in the house, and plants set in the open about the middle of May, as this greatly lengthens the period of blooming. By cutting off the flower-stems early in the fall and potting the plants, they will bloom freely through the winter if kept in a cool room. The Carnation requires a rich soil, and, in such, the plants should stand about 12 inches apart.

- 286 **MARGUERITE IMPROVED SEMI-DWARF.** An improved strain, blooming four months after sowing. Flowers are larger, a greater proportion double and the variety of colors much greater than those of the original. Pkt. 10 cts., ¼ oz. 30 cts.
 287 **MARGUERITE GIANTS.** Flower approaches in form, size, fragrance and beauty those grown by the florist. Great variety of color. Blooms four months after sowing. Pkt. 10 cts., ¼ oz. 40 cts.
 288 **CHAUBAUD'S GIANT PERPETUAL.** A new strain, remarkable for its combination of earliness with the continuity of bloom and perfection of flowers of the perpetual type. Blooms in four or five months after sowing. Flowers large, a high percentage double. Deliciously fragrant and greatly varied in coloring. Pkt. 15 cts.
 290 **DWARF VIENNA.** Blooms early the second summer from seed. The hardest sort, said to stand the winter with slight protection. Flowers large, double fragrant and of varied colors. Pkt. 10 cts., ¼ oz. 25 cts.
 292 **DOUBLE FINE MIXED.** A choice strain of the regular type, blooming the second year from sowing. Most desirable for house culture. Pkt. 10 cts.

CINERERIA (Hybrida Grandiflora)

- 294 **ROSS' PRIZE MIXTURE.** The plants are of compact growth, carrying extra large flower heads with flowerets of unusual size and substance. This strain includes the brightest and richest self colors as well as a good mixture of all colors. Pkt. 25 cts.

Calendula

Carnation

EVERYBODY KNOWS ROSS' SEED GROWS

CASTOR BEAN

(Ricinus)

- Well-known tender annual; tall, stately, majestic plants of very rapid growth, with palmlike leaves of glossy green, brown or bronze hue; very effective for lawns, planted singly or in groups. 6 to 15 feet.
- 295 **BORBONIENSIS.** Large, showy foliage of purplish hue. 15 feet. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.
- 296 **CAMBODGENSIS.** Stalks and stems nearly black; leaves large, or a deep bronze maroon. 6 feet. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.
- 297 **SANGUINEUS.** (Tricolor.) Stalks blood-red, foliage, reddish bronze, with scarlet seed-pods. 6 feet. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.
- 298 **ZANZIBARENSIS.** A comparatively new class, with gigantic leaves, ranging in color from light green to deep bronze. 10 to 15 feet. Mixed varieties. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.
- 299 **GIBSONI.** Large dark-red leaves. 5 feet. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.
- 300 **All Varieties Mixed.** Pkt. 5 cts., ½ oz. 10 cts., oz. 15 cts.

COCKSCOMB

(Celosia cristata)

Popular free-blooming, half-hardy annual bearing flowers of comb-like form, the recently improved strains producing under best cultivation heads of enormous size. Grown either by itself or combined with other plants, the Cockscomb makes a striking and effective display. While seed may be, and more generally is, sown in the open ground, for best results it should be sown early in the house, and the young plants transplanted into small pots in which they should remain until they show signs of blooming, when they should be shifted to a permanent location. The Cockscomb requires good, rich soil, ample room and plenty of moisture to fully develop its flowers.

- 305 **GLASGOW PRIZE.** Crimson; dark foliage. 9 inches. Pkt. 10 cts., ½ oz. 30 cts.
- 306 **GOLDEN YELLOW.** 9 inches. Pkt. 10 cts., ½ oz. 30 cts.
- 307 **MIXED.** Pkt. 10 cts., ½ oz. 20 cts.
- 310 **DWARF, EXTRA-CHOICE MIXED.** Includes all the latest introductions and colors of the Cockscomb. Pkt. 10 cts., ½ oz. 50 cts.

FEATHERED CELOSIA

(Celosia plumosa)

Often used for winter bouquets, and for this purpose should be cut before fully ripe and dried in the house. This class requires the same treatment as the preceding. Half-hardy annual. 1 to 1½ feet.

- 311 **THOMPSON SUPERB.** Graceful, feathery plumes of rich crimson, which contrast beautifully with the purplish bronze foliage. Pkt. 5 cts., ½ oz. 15 cts., ¼ oz. 25 cts.
- 312 **GOLDEN PLUME.** Golden Yellow. Pkt. 5 cts., ½ oz. 15 cts., ¼ oz. 25 cts.
- 313 **THOMPSONIA MAGNIFICA.** A splendid strain, large plumes, ranging from clear yellow to darkest red. Pkt. 10 cts., ½ oz. 30 cts.
- 316 **CHOICE MIXED.** Pkt. 5 cts., ¼ oz. 15 cts., oz. 40 cts.

CENTAUREA

To this family belongs the well-known annuals, Bachelor's Button and Sweet Sultan, and also the plants known as Dusty Millers.

CYANUS. (Bachelor's Button, or Cornflower.) Popular hardy annual of the easiest culture, blooming quickly after seed is sown and for a considerable time if flowers are kept well cut. 2 feet.

- 317 **DOUBLE BLUE.** A selection of the old-fashioned Bachelor's Button, producing a large percentage of beautiful double blue flowers. Pkt. 10 cts., ½ oz. 35 cts.
- 318 **SINGLE and DOUBLE MIXED.** Pkt. 5 cts., ¼ oz. 15 cts., oz. 50 cts.
- 319 **SINGLE WHITE.** 320 **SINGLE LILAC.** Each, pkt. 5 cts., ½ oz. 15 cts.
- 321 **MOSCHATA.** (Common Sweet Sultan.) Mixed colors. Pkt. 5 cts.
- 322 **SUAVEOLENS.** (Yellow Sweet Sultan.) Pkt. 5 cts.
- IMPERIALIS.** (Royal Sweet Sultan.) A new and greatly improved type of Sweet Sultan. Both plants and flowers are much larger than the common. The flowers are borne on long, stiff stems, and will last for several days after cutting. They are very fragrant and colors delicate and beautiful.
- 323 **BLUE.** 324 **WHITE.** Each, pkt. 10 cts.
- 325 **MIXED COLORS.** Pkt. 10 cts., ½ oz. 25 cts.
- WHITE-LEAVED CENTAUREAS.** (Dusty Miller.) Half-hardy perennials, which are grown annually from their seed for their foliage only. Used with other foliage and flowering bedding plants.
- 326 **CANDIDISSIMA.** Deeply cut, silvery white foliage, densely covered with white hairs. 1 foot. Pkt. 10 cts.
- 327 **GYMNOCARPA.** Silvery-white foliage; of graceful drooping habit. 1½ feet. Pkt. 10 cts.
- 328 **MONTANA BLUE.** (Perennial Corn Flower.) Large violet blue flowers. 2 feet. Pkt. 10 cts., ½ oz. 30 cts.

Cockscomb

CHINESE WOOLFLOWER

- 329 **CELOSIA CHILDSII.** Without doubt this new Celosia is the most magnificent garden annual yet introduced. Its ease of culture and long continued blooming season (July until frost), together with its massive bunches of wool-like flowers and glowing colors combine to make it the most odd as well as the showiest novelty for the general flower garden. Plants grow about three feet high, the bloom starting early with a globular central head of immense size, while numerous branches are sent out, each bearing a ball of scarlet wool, while each branch produces many laterals which also develop excellent heads of bloom that last until killed by frost and expand with deepening richness of color to a deep crimson scarlet. Seed may be sown in open, after danger from frost, or sown in pots; may be transplanted when ground is ready. Pkt. 20 cts., three pkts., 50 cts.

CHRYSANTHEMUM (Annual Varieties)

Free-flowering plants of branching habit, with rich, finely cut and very ornamental dark green foliage, bearing on long stems daisy-like flowers of bright and varied colorings. These colorings on the single varieties are usually in distinct rings and look, on the flat petals as though they were painted on. Both grow freely from seed, are of easy culture very desirable for cutting, and are effective bedding plants. They should be given plenty of room, from 2 to 2½ feet, and will bloom more freely on soil of medium fertility. Hardy annual. 1 to 1½ feet.

- 330 **SINGLE.** (Painted Daisies.) Mixed colors. Pkt. 5 cts., ¼ oz. 15 cts., oz. 50 cts.
- 331 **EVENING STAR.** Covered with bright golden yellow single flowers. Pkt. 5 cts., ½ oz. 15 cts.
- 333 **DOUBLE.** (Marguerites.) Pkt. 5 cts., ½ oz. 15 cts.

Chinese Woolflower

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

CLARKIA

A pretty, hardy annual from California, much improved in recent years. Blooms profusely in either sun or partial shade. Colors: Rose, salmon-pink, purple and white, in mixture. 1 foot.

338 Single and Double Mixed. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts.

CLEMATIS

340 *Paniculata*. One of the finest hardy perennial climbers. Of robust habit, and covered from the ground to the summit with pure white fragrant flowers. The flowers are followed by pretty seed pods of bronzy-red; 12 feet. Pkt. 10 cts.

341 *Large-Flowering, Mixed*. (Jackman's.) Flowers 3 to 4 inches across, of charming shades of blue, white, purple, lavender, etc.; 10 to 12 feet. Pkt. 10 cts.

CLEOME "Giant Spider Plant"

343 *Gigantea Rosea*. A showy garden annual producing curious heads of flowers of bright rose color with long antennae-like stamens; of easy cultivation, blooming early until late; 4 to 5 feet. Pkt. 10 cts.

COBAEA

345 *SCANDENS*. (Climbing Cobaea.) A beautiful, rapid-growing, half-hardy perennial climber, blooming the first year from seed, bearing large bell-shaped flowers; at first green, but changing to a beautiful deep violet-blue. A clean porch climber, free from insects. Sow early in the house and pot the plants, as this greatly lengthens the period of bloom, and the plants will make a much greater growth. Seed germinates more readily if pushed into the ground edge-wise and barely covered. 20 to 30 feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

COIX LACHRYMA

(Job's Tears)

847 An ornamental grass growing from 7 to 9 feet high. Large broad leaves bearing large shiny seed. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

COLEUS

Popular ornamental foliage plants, usually propagated by cuttings, but easily grown from seed, from which many new varieties may be expected, affording an interesting experiment to the amateur. Sow in heat in March or April and transplant to open ground about the first of June. For borders of geranium or canna beds and in carpet-bedding, very useful. Grows rapidly.

350 *Choice Hybrids, Mixed*. From a large collection; of greatly diverse shades and markings. Pkt. 10 cts.

351 *New Large-Leaved Varieties, Mixed*. Saved from new varieties with very large and richly variegated foliage. Pkt. 25 cts.

COLLINSIA

A free-flowering hardy annual from California, of easiest culture and great beauty. Seed preferably should be sown in the fall, as the plants will bloom much earlier than from seed sown in the spring. It may, however, be sown in the spring, if desired. 1 foot.

353 *Mixed Colors*. Pkt. 5 cts.

COLUMBINE. See *Aquilegia*.

CONVOLVULUS MINOR

(Dwarf Morning-Glory)

Half-hardy annual of trailing habit, growing about 1 foot high and covering a space of 2 feet, and bearing abundantly bell-shaped flowers similar to those of the tall sort. Flowers open on clear days about noon and remain open until evening, are pure white and of many shades of blue and red.

356 *Mixed Colors*. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.

BURBANK'S RAINBOW CORN

357 The stalks, including tassel grow five and a half feet tall, and are clothed with many variously variegated leaves three inches wide and two feet long. The leaves (both on main stalks and suckers) are all superbly striped with broad bands of crimson, yellow, rose, white and bronze. The small hardy seed can be planted early, and as it does not ripen until very late the plants present their rich tropical beauty for a long season. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

COREOPSIS

For Annual Varieties, see *Calliopsis*.

358 *LANCEOLATA GRANDIFLORA*. A beautiful, hardy perennial, blooming profusely the first season until frost from seed sown early. The flowers are a rich, golden yellow, often 3 inches in diameter borne on fine long stems and are very desirable for cutting. Of easiest culture, growing anywhere. Pkt. 5 cts., $\frac{1}{4}$ oz. 40 cts., oz. \$1.40.

COSMOS

Beautiful autumn-blooming plants. They produce thousands of artistic flowers in pure white, pink and crimson shades, furnishing an abundance of cut blooms for autumn decorations when other flowers are scarce. Should be sown in spring in the open ground, when danger of frost is past, or the seed may be started under cover and afterwards transplanted. Plant not less than 18 inches apart in rows or in masses in beds. When the plants are about a foot high the tops should be pinched out to induce a bushy growth. They prefer a rather light not too rich soil, but do well almost anywhere.

359 *KLONDIKE*. Large, orange colored flowers. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts.

360 *MAMMOTH PERFECTION*. Mixed colors. Flowers of mammoth size rather late in flowering; seed should therefore be sown as early as possible in the house in March, or as the plant is especially hardy, in the open ground in a sheltered spot in April. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts.

362 *LARGE EARLY FLOWERING*. In the New Large Early Flowering we have a strain which combines the desired features of good size and early production. The flowers are fully twice as large as the Early-Flowering, while the plant blooms as early. Crimson, Rose, and White Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts.

362A *Crimson*. 362B *Pink*. 362C *White*. Each, pkt. 10 cts.

363 *CRIMSON RAY*. This distinct novelty originated from one plant which attracted marked attention from the fact that the flowers, while equally as large in diameter, showed a new departure in form, number and shape of the petals. The petals were narrow and fluted, separated in star-like form and of the most brilliant crimson color overlaid with velvet sheen. Pkt. 10 cts.

LADY LENOX. Long stemmed flowers, often measuring 5 inches across. Unsurpassed for garden decoration and cut flowers. 6 to 7 feet.

364 *Pink*. Pkt. 15 cts. 364A *White*. Pkt. 15 cts.

Early Flowering Cosmos

Double Cosmos

EVERYBODY KNOWS ROSS' SEED GROWS

DOUBLE COSMOS

These new hybrids form bushy plants 5 to 6 feet high and flower profusely during the autumn months. Only 40 to 50 per cent of the plants will bear double flowers, the balance producing large single blossoms, the reason being that the double flowers are pistillate—having no stamens and consequently bear no pollen—so to produce seed must depend on staminate singles of pollination. The progeny therefore comes about half doubles and half singles. Double Cosmos flowers aside from their novelty and beauty are of lasting substance, both on the plants and as cut flowers.

365 **CRIMSON KING.** Dark crimson.

365A **PINK BEAUTY.** Soft pink.

365B **WHITE QUEEN.** Pure white.

365C **WHITE, PINK AND CRIMSON MIXED.** Each 20 cts. per pkt., $\frac{1}{4}$ oz. 35 cts.

ROSS' GIANT CYCLAMEN

Charming house plants, with beautiful foliage and rich colored, fragrant flowers. Universal favorites for winter and spring blooming. May be successfully raised from seed with a little care and patience.

369 **Giant Mixed.** Pkt. 50 cts.

CYPRESS VINE

A popular climbing vine, with delicate fern-like foliage, bearing in abundance small, star-shaped, rose, scarlet or white flowers. Of easy culture. Half-hardy annual. 10 to 12 feet.

370 **Mixed Colors.** Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.

DAHLIA

The growing of the double varieties from seed is always more or less of an experiment, but fine flowers of the single type can be easily secured from seed the first season. If seed of the double sorts is sown in March and the young plants set in the open ground as soon as danger of frost is past, some of the plants, perhaps half, will bloom the first season. The single varieties, however, will all bloom the first season from the seed sown in the open ground as late as the first week in June. An earlier planting is, however, preferable. Tender perennial. The tubers formed each season should be stored in a frost-proof cellar.

371 **SINGLE MIXED COLORS.** Pkt. 5 cts., $\frac{1}{4}$ oz. 20 cts., oz. 75 cts.

372 **SPECIAL MIXTURE of Giant-Flowered Single Varieties.** Comprises seed from noted English and Holland growers, and includes the Giant Perfection, and Colossal strains, and Hornsvelt's Giant Hybrids. An unsurpassed mixture of the greatest possible diversity of colors. Pkt. 15 cts., $\frac{1}{4}$ oz. 30 cts., $\frac{1}{4}$ oz. 50 cts.

373 **DOUBLE LARGE-FLOWERED.** Mixed colors. Saved from the finest show varieties. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., $\frac{1}{4}$ oz. 40 cts.

DAHLIA BULBS. See pages 70 and 71.

Double Dahlia

DAISY

It has always seemed to us unfortunate that the English Daisy (*Bellis perennis*) should have been given its common name, as we are quite sure that nearly every one instinctively associates with the term "daisy" or "daisy-like," flowers which resemble in form and habit our common field daisy. We therefore list under this head the famous Shasta Daisy and Michaelmas Daisies and call attention to other flowers often known as Daisies, but listed elsewhere under different names.

376 **AFRICAN GOLDEN.** (*Dimorphoteca Aurantiaca*.) This very showy annual plant is a valuable addition to the list of hardy annuals. When first exhibited, it gained an Award of Merit at the great Temple Show, London, has been very favorably mentioned in the leading horticultural papers of this country and Europe, and all who have seen the plant in bloom praise it. A bed of these plants is remarkably effective and the flowers are excellent for cutting, while the plant is easily grown from seed sown in the open ground. The combination of beauty of flower, profusion and length of bloom and ease of culture should commend this plant to all who cultivate flowers and will, we are sure, make it a general favorite when once its merit is known. Pkt. 10 cts., 3 pkts. 25 cts.

BURBANK'S SHASTA DAISY. An extremely hardy perennial, thriving in all soils, blooming more freely each season, and when once established, for several months. Easily grown from seed and can be also increased by division of the root. The flowers are from 3 to 4 inches across, borne on very long, stiff, wiry stems, and remain in good condition for many days after being cut.

378 **ALASKA.** Pure glistening white. Pkt. 15 cts.

379 **BURBANK'S SELECTED HYBRIDS.** A mixture of seeds saved from the best seedlings, including some with double rows of petals. Pkt. 15 cts.

MICHAELMAS DAISIES. (Perennial Single Asters.) Beautiful and showy, hardy perennials, easily grown from seed, blooming profusely in the autumn months, and the first season if seed is sown early.

381 **MIXED COLORS.** Pkt. 10 cts.

For other flowers known as Daisies, see *Anthemis*, *Brachycome* and *Chrysanthemums*.

DATURA

DATURA. (Trumpet Flower.) Strong growing ornamental annual shrubs. Flowers trumpet shape, large and fragrant.

383 **FINEST MIXED.** Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

DELPHINIUM (Larkspur)

Showy, hardy annuals and perennials, thriving in nearly all soils if well enriched and open to the sun. Seed of the annual sorts, though more generally sown in the spring, should preferably be sown in autumn, as plants commence blooming much earlier. Seed of the perennial kinds may be sown in the open ground from April to October, or inside in March, and if plants are kept growing well until June, and then set in the open border some will bloom well in the autumn months.

(See Next Page)

Delphinium

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

ANNUAL DELPHINIUMS

- 385 **DOUBLE DWARF ROCKET.** 1 foot. Mixed colors. Pkt. 5 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts.
DOUBLE BRANCHING. 387 Carmine. 388 Dark Blue. 389 Light Blue. 390 White. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts.
391 **DOUBLE IMPERIAL BRANCHING.** Mixed colors. A superior strain. 2 feet. Pkt. 5 cts., $\frac{1}{2}$ oz. 20 cts.

PERENNIAL DELPHINIUMS

- 393 **ELATUM.** (Bee Larkspur) Flowers have curiously folded, hairy petals in the center, which give them a fancied resemblance to a bee. Rich shades of blue, with black center. $2\frac{1}{2}$ feet. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts.
394 **FORMOSUM.** The large flowers are deep, rich blue, with white centers. $2\frac{1}{2}$ feet. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts.
395 **SIBIRICUM HYBRIDUM.** Shades of blue. If sown early, will bloom in August. 2 feet. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts.

DIANTHUS, PINKS

The following varieties of Dianthus, commonly known as Chinese and Japanese Pinks, have been, for a long time, very popular, and deservedly so. In diversity of rich and beautiful markings they have but few rivals and in ease of culture, freedom of bloom, and almost certain satisfactory results, they stand close to the Nasturtium. Hardy biennials, blooming the first year from seed. So easily grown from seed as to be rarely treated as biennials. Seed may be sown in the open ground any time in May. Plant 6 inches apart. Height 1 foot.

- 398 **DOUBLE CHINA.** (D. Chinesia fl. pl.) Small, double flowers, borne in large clusters, of many colors, mostly with white edge. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
399 **HEDDEWIG'S DOUBLE.** (D. Heddwigi fl. pl.) Japan Pinks. Very large, double flowers of a wide range of color, running from white and light pink through shades of red to rich, velvety crimson and deep maroon almost black. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts.
400 **SINGLE MIXED.** Large single flowers, of rich and varied colorings. Pkt. 5 cts., $\frac{1}{4}$ oz. 20 cts.
404 **DOUBLE IMPERIAL.** (D. Imperialis fl. pl.) A popular strain; fine, large, double flowers of many colors. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts.
405 **ROYAL or KING'S PINKS.** An ideal strain, the earliest to bloom, flowers of the largest size and of remarkable bright solid or self colors. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts.
406 **DOUBLE FRINGED JAPAN.** (D. laciniatus fl. pl.) Large, double fringed flowers of rich and varied colorings. Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts.
407 **FIREBALL.** Of dwarf habit. Flowers globular, double, dark, blood red. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts.
408 **SNOWBALL.** Very double, pure white. Excellent. Pkt. 10 cts.
410 **PURITY.** A new double clove-scented white Dianthus. Flowers, large and double, possessing a delicious fragrance. A decided acquisition to this large family of beautiful flowers. Pkt. 10 cts.
415 **WORCESTER MIXED.** All the above and other choice strains. Unsurpassed. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. \$1.00.

HARDY PERENNIAL VARIETIES

Clove or Grass Pinks; Dianthus plumariis

Improved forms of the old well-known Clove Pink. They grow anywhere and bloom very profusely. Flowers of many pleasing colors and deliciously fragrant. Very useful for the hardy border.

- 416 **SINGLE.** (Pheasant's Eye, Pink.) Mixed colors. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts.
417 **DOUBLE AND SEMI-DOUBLE.** Mixed colors. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts.
418 **FLORIST'S PERPETUAL PINK.** (D. semper-florens.) Double and semi-double; large flowers; very fragrant and of a great diversity of colors. Blooms nearly all summer and if sown in March will generally bloom the first season. Pkt. 15 cts., $\frac{1}{2}$ oz. 35 cts.

Dianthus

DIGITALIS

(Foxglove)

Favorite hardy plant bearing in June and July tall flower spikes. Of easy culture. Well suited for background to other plants, and for naturalizing in the edges of woods. Hardy biennial or perennial. $2\frac{1}{2}$ to 3 feet.

- 423 **MACULATA SUPERBA.** (Ivery's spotted.) Choice strain of spotted varieties. Pkt. 10 cts.
424 **MONSTROSA.** Mixed colors. Monstrous flowers. Attractive. Pkt. 10 cts.
427 **PURPUREA.** (Common Foxglove.) Mixed colors. Pkt. 5 cts., $\frac{1}{2}$ oz. 25 cts.

- 428 **PURPUREA.** Rose. Pkt. 5 cts.
429 **PURPUREA.** White. Pkt. 5 cts.

DOLICHOS

(Hyacinth Bean)

A rapid-growing hardy, annual climber, bearing all summer clusters of white or purplish blue flowers, followed by ornamental seed-pods. Sow in May where plants are to remain. 10 feet.

- 433 **Mixed Colors.** White and Purple. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

DRACAENA (Dragon Plant)

- 434 **INDIVISA.** Beautiful ornamental-leaved plants; long narrow, green foliage; indispensable for vases and house decoration. Pkt. 10 cts., $\frac{1}{2}$ oz. 40 cts.

ESCHSCHOLTZIA

(California Poppy)

A very showy hardy annual, with beautiful, finely cut, glaucous foliage, bearing poppy-like flowers of bright colors. Of easy culture. Sow as early as soil can be worked, where plants are to remain, as they do not bear transplanting well. 1 foot.

- 439 **CALIFORNICA.** Yellow. Pkt. 5 cts.
442 **MIXED COLORS.** Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
443 **ERECTA COMPACTA, ROSE QUEEN.** Rose carmine. Pkt. 5 cts.

Eschscholtzia

EVERYBODY KNOWS ROSS' SEED GROWS

EUPHORBIA

Ornamental foliage plant; easily grown from seed. Striking and effective appearance. Hardy annual.

- 452 **VARIEGATA.** (Snow-in-the-Mountain.) Foliage-veined and margined with white. 2 feet. Pkt. 10 cts., 1/8 oz. 25 cts.

EXACUM AFFINE

- 453 A beautiful annual bearing clusters of fragrant lilac flowers. Very useful for pot culture. 1 foot. Pkt. 25 cts.

FORGET-ME-NOT

(Myostosis)

Favorite hardy perennials, mostly treated as annuals, nearly all blooming the first season from seed sown early in the open ground. They succeed to a degree that warrants their cultivation in average soil and open situation, but thrive better in cool, moist soil, considerably shaded. 6 inches.

- 454 **ALPESTRIS.** (Blue Alpine Forget-me-not.) Pkt. 10 cts., 1/8 oz. 25 cts.
456 **ELIZA FONROBERT.** Large, sky blue, with yellow eye; much grown for cutting. Pkt. 10 cts., 1/8 oz. 30 cts.
457 **PALUSTRIS.** (True Forget-me-not). Dark blue; blooms the first season. Pkt. 10 cts., 1/8 oz. 40 cts.
459 **DISTINCTION.** (Ever-flowering.) New; blooms in eight to ten weeks from sowing. Pkt. 10 cts., 1/8 oz. 30 cts.
460 **RUTH FISCHER.** The largest and finest Forget-Me-Not; flowers measure from 1/8 to 1/2 inch across and are of a lovely sky-blue; of great value for forcing, pot culture or spring bedding. Pkt. 10 cts., 1/16 oz. \$1.00.
461 **VICTORIA.** The flowers are large bright azure blue, with yellow centers. The plants form neat bushes completely covered with blooms. Best for edging. Pkt., 10 cts., 1/8 oz. 35 cts.

FOUR O'CLOCK

(Marvel of Peru)

A well-known favorite plant, bearing freely funnel-shaped, white, red and striped flowers, which open about four o'clock in the afternoon. Will grow anywhere. Plants should be given plenty of room; about 2 feet apart. Hardy annual. 2 feet.

- 465 **Mixed Colors.** Pkt. 5 cts., 1/8 oz. 15 cts., oz. 25 cts.

FOXGLOVE. See Digitalis.

GAILLARDIA

ANNUAL VARIETIES (Blanket Flower)

Very showy, free-blooming, hardy plants of easy culture. Seed germinates very slowly and should be sown in the house in March. The flowers are very brilliant, borne on long stems. Fine for cutting. 2 feet.

- 470 **PICTA.** Single; mixed colors. Pkt. 5 cts., 1/8 oz. 15 cts.
471 **PICTA LORENZIANA.** Double; mixed colors. Pkt. 5 cts., 1/8 oz. 15 cts.

PERENNIAL GAILLARDIA

Hardy perennial Gaillardias thrive in nearly all soils and situations, requiring no protection and almost no care. Flowers large; with rich shades of scarlet, orange and crimson, the three often combined in one flower. Desirable for the perennial border. If sown early will bloom in the first season. 1 1/2 to 2 feet.

- 478 **Newest Varieties.** Mixed. A splendid mixture; comprises all the colorings known. Pkt. 15 cts., 1/8 oz. 50 cts.

GERANIUM

Well-known, half-hardy, greenhouse perennials, easily raised from seed. Seed sown in the fall or early winter will produce flowers

A Hedge of Four O'Clocks

Gaillardia

in June, while from that sown in March, plants will not bloom until September, and from seed sown in the open ground in May or June plants will bloom in mid-winter.

- 485 **ZONALE.** (Fish or Horseshoe Geranium.) Saved from the largest and finest varieties. Pkt. 10 cts.

GEUM

- 486 **MRS. BRADSHAW.** A very handsome, new variety, bearing immense double flowers of bright scarlet; a perpetual bloomer; fine for cutting. 2 feet. Pkt. 10 cts., 1/8 oz. 30 cts.

GLOBE AMARANTH (Gomphrena)

- 488 **MIXED COLORS.** A tender annual plant, bearing globe-shaped ever-lasting flowers, often used, when dried, in winter bouquets. Blooms freely and is an excellent bedding plant. 1 1/2 feet. Pkt. 5 cts.

GLOXINIA

One of the most beautiful greenhouse perennials. May be successfully grown by the amateur. Give them a porous and well-enriched soil; a warm, moist atmosphere, and as soon as they begin to flower remove them to a cooler house, and afterwards dry them off gradually and keep them free from moisture till they again begin to grow. The seeds are small and should be sown on an even surface and but slightly covered.

- 489 **SPLENDID MIXTURE.** A mixture of all classes unrivaled in richness of colors. Pkt. 25 cts.

CODETIA

A showy and beautiful hardy annual, bearing fairly large delicately shaded, satiny flowers; of easy culture, blooms best in rather poor soil. Seed may be sown in the open ground, or sown in the house in March and transplanted to the open ground as soon as danger from frost is past. The plants require plenty of room. Close planting weakens them.

- 490 **MIXED COLORS.** Includes all varieties and the latest introductions. Pkt. 5 cts., 1/8 oz. 15 cts.

GOURDS

Ornamental, tender annual climbers, with curiously formed and colored fruit; of very rapid growth; useful for covering unsightly objects. 10 to 20 feet.

- 491 **Apple-shaped.** Small, striped. Pkt. 5 cts.
492 **Dipper.** The fruit is of slender, neck-like form for two-thirds its length, widening at the apex in the form of a bowl. Sometimes used as a dipper. Pkt. 5 cts.
493 **DISH-CLOTH.** Fruit large and elongated, with a spongy 'net-work' of tough fibre inside, which when dried is used by the Japanese to form the soles of sandals. It is also used like a sponge for bathing. Pkt. 5 cts.
494 **Egg-shaped.** Pkt. 5 cts.
495 **Hercules' Club.** 4 feet long. Pkt. 5 cts.
496 **Miniature Bottle shaped.** Pkt. 5 cts.
497 **Orange-shaped.** Pkt. 5 cts.
498 **Pear-shaped.** Green, white-striped. Pkt. 5 cts.
499 **Serpent.** 5 feet long. Pkt. 5 cts.
500 **Mixed Varieties.** Small sorts. Pkt. 5 cts., 1/8 oz. 10 cts.

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Heliotrope

- 515 **DOUBLE. MIXED COLORS.** (*H. monstrosum* fl. pl.) Largest double flowers.
Pkt. 5 cts., $\frac{1}{4}$ oz. 25 cts.

HELIOPSIS

- 516 **PITCHERIANA.** One of the best hardy perennials for dry soils and its graceful flowers among the best for cutting. The plant commences to bloom early in season. The flowers are of a beautiful deep yellow, of great substance, and about 2 inches diameter. 3 feet. Pkt. 10 cts.

HELIOTROPE

A well-known and favorite plant, largely grown in pots, but thriving in the open border; usually grown from cuttings, but grows readily from seed, blooming the first season if sown early. Half-hardy perennial.

- 518 **Mixed Colors.** All shades. Pkt. 5 cts.
519 **Large-flowering.** Mixed colors. Heads of flowers nearly double the size of the old sorts. Pkt. 10 cts.

HEUCHERA

- 525 **SANGUINEA.** A fine, hardy perennial, bearing in graceful spikes rich crimson flowers. Useful for cutting, and the plant is useful in the mixed border. 1 foot. Pkt. 10 cts.

HIBISCUS

Vigorous-growing plants, producing large, handsome flowers, often six inches across. Very desirable for mixed beds or borders.

- 526 **AFRICANUS.** Hardy annual, yellow. 2 feet. Pkt. 5 cts., $\frac{1}{8}$ oz. 15 cts.

Helianthus

Gypsophila

(Baby's Breath)

Very useful, free-blooming plants of easiest culture. Flowers very small, borne in loose, graceful panicles. Very largely used in bouquets with other cut-flowers, such as Sweet Peas, Roses, Carnations, etc. 2 feet.

- 505 **ELEGANS GRANDIFLORA ALBA.** White. An improved form of the annual Gypsophila. Grown by the acre for the London and Paris flower markets. Blooms quickly after sowing; several sowings should be made. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.
506 **PANICULATA.** White. The variety more generally known as Baby's Breath. Hardy perennial. Pkt. 5 cts., $\frac{1}{8}$ oz. 15 cts.

GREVILLEA

- 507 **ROBUSTA.** (Silk Oak.) The graceful evergreen, fernlike foliage combines admirably with palms and other massive-leaved plants. Excellent for table decoration. Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.

HELENIUM

A very valuable hardy perennial, bearing in profusion in August and September, long stemmed single flowers; fine for cutting. Effective as a background.

- 510 **AUTUMNALE SUPERBUM.** Deep golden yellow. 5 to 6 feet. Pkt. 10 cts.
HELIANTHUS. See Sunflower.

HELICHRYSUM

(Straw Flower; Everlasting)

One of the best everlasting flowers and an effective bedding plant, succeeding in any well-enriched soil. If flowers are desired for winter use, they should be cut just as the buds are opening. Hardy annual. 2 feet.

Helichrysum

HOLLYHOCK

One of the oldest hardy favorites, greatly improved in recent years, flowers being large and of better form, and plant of more sturdy growth. While the Hollyhock delights in deep, rich soil, it must be dry and well drained, or plants will not live through the winter. Though often sown later, seeds should be sown not later than June. As young plants bloom better and are hardier, seed should be sown every year. Hollyhocks are most effective planted in long rows. Hardy perennial. 5 to 7 feet.

- 530 **CHATER'S FINEST MIXED.** Choicest double varieties, a large percentage of the flowers coming double. Pkt. 10 cts., $\frac{1}{8}$ oz. 35 cts., $\frac{1}{4}$ oz. 60 cts.
531 **Double. Mixed Colors.** Pkt. 5 cts., $\frac{1}{8}$ oz. 25 cts.
532 **ALLEGHENY.** Large, semi-double flowers, beautifully fringed, of silky texture and richly colored. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
534 **EVERBLOOMING HYBRIDS.** (Annual Hollyhocks.) Double. Semi-Double and Single. Mixed. A new strain, blooming the first season from seed. Plants from seed sown inside in March or April will bloom in July and those from seed sown in the open ground, in August, and, in both cases, continuously until frost if main stem is pinched off when 3 or 4 feet high. Pkt. 10 cts.
CHATER'S DOUBLE. 535 Maroon. 535A Pink. 536 Snow White. 536A Yellow. Pkt. 10 cts., $\frac{1}{8}$ oz. 35 cts.

EVERYBODY KNOWS ROSS' SEED GROWS

HUMULUS (Hop)

Rapid-growing climbers with attractive foliage, especially valuable because seldom injured by insects or drought. The Japanese variety is a hardy annual, and among the best for quickly covering unsightly objects. The Lupulus, or Common Hop, is a hardy perennial, easily grown from seed, and when established, of very rapid growth. 10 to 20 feet.

537 **VARIEGATA.** Variegated foliage, green and white. Pkt. 5 cts.

538 **LUPULUS.** The Common Hop. Pkt. 10 cts.

HUNNEMANNIA

540 **FUMARIAEFOLA.** (Giant Tall Poppy, or Bush Eschscholtzia.) A valuable plant of the Poppy family, closely allied to the Eschscholtzia. A perennial, always treated as an annual, blooming by middle of July and from seed sown early in May, and continually until frost. The large flowers are of a deep, rich yellow, borne on very long stems and last a remarkably long time after cutting. 2 feet. Pkt. 5 cts., 1/2 oz. 25 cts.

IBERIS

543 **SEMPERVIRENS.** (Perennial Candytuft.) A desirable hardy perennial of easiest culture. Dwarf spreading habit; suitable for rockeries. Flowers pure white. Pkt. 10 cts., 1/2 oz. 30 cts.

ICE PLANT

(Mesembryanthemum)

546 **CRYSTELLINUM.** A trailing plant, with succulent stems and leaves. Excellent for hanging baskets and rockwork. Tender annual. 9 inches. Pkt. 10 cts.

IPOMEA

The Ipomoea family includes the well-known Morning-glory, the Moonflower and the Cypress Vine. Rapid-growing climbers of easiest culture; bloom earlier and more profusely on rather poor soil but of higher growth and more attractive foliage when grown on rich soil. Tender annuals. 15 to 30 feet.

550 **BONA NOX.** (Evening Glory.) Beautiful, large, violet-blue flowers which open at night. Of extremely rapid growth. Pkt. 5 cts.

551 **COCCINAE.** (Star Ipomoea.) Small scarlet flowers, borne in profusion. Pkt. 5 cts.

552 **SETOSA.** (Brazilian Morning Glory.) A handsome variety of luxuriant growth, having very large three-lobed leaves, the under side of stem being thickly set with small reddish hairs. Flowers are a pleasing rose, about 2 1/4 inches across, of delicate satiny texture and borne in clusters, but one or two in each cluster opening at once. Pkt. 10 cts.

553 **RUBRA COERULEA.** (Heavenly Blue.) Large, heart-shaped leaves; flowers 4 to 5 inches across, borne in clusters and in such profusion as to nearly cover the foliage; bright sky-blue. Pkt. 10 cts.

JERUSALEM CHERRY

(Solanum)

An ornamental and interesting genus of fruit-bearing plants; singularly bright in fruit and foliage. Popular for greenhouse or house decoration.

555 **SOLANUM CAPSICASTRUM.** Covered with scarlet fruit during the winter. One and one-half feet. Pkt. 10 cts.

KOCHIA

556 **TRICOPHYLLA.** (Summer Cypress.) A very quick-growing annual; cultivated for its beautiful foliage, which is feathery and fine as moss. Through the summer this is bright green, but commences in early fall to gradually take on a red tinge, becoming entirely red before it dies. The brilliant coloring has given it its other two common names of Mexican Fire Plant and Burning Bush. It is often grown in rows as low hedges. Seeds may be sown in the open ground about May 1. Hardy annual. 2 1/2 feet. Pkt. 10 cts., 1/4 oz. 20 cts.

JOB'S TEARS. See Coix Lachryma.

Matricaria

Kochia

KUDZU VINE (Peuraria)

560 **THUNBERGIANA.** (Jack-and-the-Beanstalk Vine.) A vine of wonderful rapid growth, when well established growing to the great height of 40 to 50 feet. Leaves are of enormous size. One of the best for forming a screen for any purpose. In the North, the plant dies to the ground in the winter, but in the South becomes woody, Hardy perennial. Pkt. 10 cts.

LANTANA

A favorite plant of rapid growth, blooming continually through the summer; desirable for the garden or house. Tender perennial. 2 feet.

562 **Mixed Colors.** Pkt. 5 cts.

LATHYRUS LATIFOLIUS

(Everlasting Sweet Pea)

An easily grown hardy perennial climber, bearing freely, flowers somewhat similar in form to the Sweet Pea. If grown on moist soil, will bloom nearly all summer. Colors: Reddish purple, rose and white. 6 to 8 feet.

570 **Mixed Colors.** Pkt. 5 cts., 1/4 oz. 20 cts., 1/2 oz. 35 cts.

LAVENDER (Lavandula Vera)

575 **VERA.** A well-known hardy perennial grown chiefly for its lasting fragrance. Pkt. 10 cts., 1/2 oz. 20 cts.

LAVATERA TREMESTRIS

Beautiful and effective hardy annual, covered during the entire summer with pretty and showy blossoms.

576 **Rose Pink.** 577 **White.** Pkt. 10 cts., 1/4 oz. 20 cts.

LINUM (Scarlet Flax)

580 **GRANDIFLORUM.** (Scarlet Flax.) Hardy annual of slender habit, bearing in profusion brilliant scarlet-crimson flowers. An effective bedding plant 1 foot. Pkt. 5 cts.

LOBELIA

Pretty little plants of easy culture, blooming profusely from June until frost. The dwarf varieties are useful for bedding and edging, the trailing variety is excellent for hanging-baskets, vases and rock-work. Half-hardy annuals.

585 **CRYSTAL PALACE COMPACTA.** Rich blue flowers, dark foliage. Pkt. 10 cts.

586 **WHITE GEM.** White Dwarf; very profuse. Pkt. 10 cts.

587 **GRACILIS.** Light blue, trailing. Pkt. 5 cts.

588 **CARDINALIS.** Intense scarlet. 3 feet. Pkt. 10 cts.

LOVE-IN-A-MIST. See Nigella.

LUPIN

590 **Annual Varieties, Mixed.** Easily grown plants, with long, graceful spikes of pea-shaped flowers of various colors. 2 feet. Pkt. 5 cts., 1/2 oz. 35 cts.

591 **Perennial Varieties, Mixed.** Hardy, plants of easy culture, useful as a background in the perennial border. Mixed blue and white. 2 to 4 feet. Pkt. 5 cts., 1/2 oz. 30 cts., 1/2 oz. 50 cts.

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LYCHNIS

Perennial plant of easy culture, blooming the first season if sown early.

- 595 **CHALCEDONICA.** (Burning Star.) Bright scarlet flowers shaped like Maltese cross. Of fine color and thrifty growth; very effective in the perennial border. 2 feet Pkt. 5 cts.

MARIGOLD

Favorite annual plant, blooming the entire summer; easily cultivated. The African varieties bear large yellow or orange flowers and the plants are usually tall. The French type is of dwarf habit and flowers are striped. Hardy annual. 1 to 3 feet.

- 600 **AFRICAN ELDORADO.** Flowers very large, extremely double, of various shades of yellow. Pkt. 5 cts., $\frac{1}{8}$ oz. 15 cts.
601 **LEMON BALL.** The largest of all Marigolds, nearly ball-shaped; pure lemon yellow. Pkt. 10 cts.
602 **ORANGE PRINCE.** Large, rich orange. Pkt. 10 cts.
603 **AFRICAN DOUBLE MIXED.** All shades of the African type. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
606 **FRENCH DWARF DOUBLE, GOLD STRIPED.** Deep browning red, striped yellow. Pkt. 5 cts., $\frac{1}{8}$ oz. 15 cts.
607 **FRENCH DOUBLE MIXED.** Shades of yellow and brown. 2 feet. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
608 **LEGION OF HONOR.** Single flower; golden yellow, with a large spot of crimson. Pkt. 5 cts.

MATHIOLA BICORNIS (Night Scented Stock)

- 610 A hardy annual with purplish red flowers, giving forth a delightful fragrance, especially towards evening. 1 foot. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

Marigold, Gold Striped

- 619 **MACHET.** Large, thick spikes of reddish cast, of dwarf habit, dark foliage. One of the best for pots. Pkt. 5 cts., $\frac{1}{8}$ oz. 15 cts., $\frac{1}{4}$ oz. 25 cts.
620 **PARSON'S WHITE.** Nearly white. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.
621 **VICTORIA.** Of deep reddish cast. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.
622 **GOLIATH.** Of strong, yet compact habit, with rich green foliage; the giant trusses of flowers being borne on erect, strong, stiff stalks and surpassing all others in brilliancy of color; especially suited for house culture. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
625 **MIXED VARIETIES.** The above and other varieties. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.

MIMULUS

Showy, free-flowering plants of easy culture. Half-hardy perennials, blooming the first season by July, if started early in the house, and continually until October. Thrives best in moist soil and somewhat shaded location. 1 foot.

- 630 **TIGRINUS.** (Monkey Flower.) Handsome flowers with white, sulphur or yellow ground spotted with crimson, scarlet or pink. Pkt. 10 cts.
631 **MOSCHATUS.** (Musk Plant.) Small yellow flowers, musk-scented foliage, of trailing habit, excellent for hanging baskets. Pkt. 10 cts.

MOONFLOWER (Ipomoea)

- 635 **GRANDIFLORA ALBA.** (Ipomoea noctiflora.) A very rapid-growing variety of Ipomoea, reaching the height of 30 feet. Large white flowers, open in the evening and on cloudy days. Germination is greatly assisted if the hard shell of the seed is cut. Plant about 1 inch deep, in moist soil, in a box or seed-pan, and set in a warm place. If soil is kept moist the seed will germinate in about two weeks. Set out the young plants as soon as all danger of frost is past, selecting a warm, sunny location. Pkt. 10 cts.

- 635B **PINK HYBRID MOONFLOWER.** In color, exquisite, soft lilac-pink. Of much easier cultivation than the preceding. Seeds germinate freely and plant commences to bloom profusely nearly as soon as the Morning Glory. Vines are of most rapid growth, and will cover as much or more space than any other Moonflower, having enormous leaves. Blooms very profusely and will succeed wherever the Morning Glory will. Pkt. 10 cts.

Marigold, Eldorado

MATRICARIA

Free-flowering annuals, useful for groups, borders, or pot culture. Fine for cut flowers. $\frac{1}{2}$ feet.

- 611 **DOUBLE WHITE.** Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
612 **DOUBLE YELLOW.** Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.

MIGNONETTE (Receda odorata)

A well-known and popular hardy annual, prized for its delightful fragrance. Seeds sown in autumn will bloom in early spring, and when sown the last of July will come into flower in a few weeks and continue until cut down by frost.

- 614 **GOLDEN MACHET.** Long, massive spikes, with fragrant, golden-yellow flowers. Pkt. 10 cts., $\frac{1}{8}$ oz. 20 cts.
615 **GRANDIFLORA.** Improved, large-flowered. Sweet Mignonette. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts.
616 **DEFIANCE.** Large spikes and extra-large individual florets. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 75 cts.
617 **GIANT PYRAMIDAL.** (Crimson Giant.) Of branching growth; large, of reddish cast. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.
618 **GOLDEN QUEEN.** Golden yellow. Pkt. 5 cts., $\frac{1}{8}$ oz. 15 cts., oz. 50 cts.

Mignonette

EVERYBODY KNOWS ROSS' SEED GROWS

MORNING GLORY (*Convolvulus major*.)

A well-known vine of easiest culture. Hardy annual. 10 feet.

636 MIXED COLORS. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

637 JAPANESE GIANT MORNING-GLORIES. The flowers of this strain are much larger than those of the common type, the range of colorings much greater, while the foliage is greatly varied and very attractive. The colors range from deepest purple through all shades of blue and red to pure white, in a great variety of beautiful blendings and markings. The vine is not so hardy nor so vigorous in its growth as the common type. Germination is assisted by soaking the seed in water for twenty-four hours before sowing. Tender annual. 8 feet. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

MOURNING BRIDE. See Scabiosa.

MUSK PLANT. See Mimulus.

MORNING GLORY, DWARF. See *Convolvulus minor*.

NASTURTIUM

No other annual plant combines in so great a degree, ease of culture, profusion of bloom, and grace and beauty of flowers as the Nasturtium. Also, it thrives on all soils except that which is very wet and succeeds on soil so poor that many other plants would fail to grow at all.

TALL NASTURTIUM (*Tropaeolum majus*)

644 COCCINIA. Bright scarlet.

646 DUNNETT'S ORANGE. Bright orange, blotched red.

648 EDWARD OTTO. Brownish lilac.

654 HEMISPHERICUM. Straw-color blotched rose.

656 KING THEODORE. Deep crimson-maroon; dark foliage.

658 LUTEUM. Clear light yellow.

662 PEARL. Very pale yellow, nearest approach to white.

666 SALMON QUEEN. (Improved Vesuvius.) Rich, but soft velvety salmon; dark foliage.

671 VESUVIUS. Salmon rose, dark leaved.

Each of the preceding varieties, pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., ¼ lb. 60 cts.

672 CHOICE MIXED. Many varieties; a wide range of colors. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., ¼ lb. 40 cts., lb. \$1.40. See also, Worcester Mixed Tall Nasturtiums.

GIANT-FLOWERED, TALL NASTURTIUMS, MIXED

673 A choice selection of the largest flowered varieties and seedlings. Especially desirable for exhibition. Pkt. 10 cts., ½ oz. 15 cts., oz. 25 cts., 2 ozs. 40 cts., ¼ lb. 65 cts.

Nasturtium

Nasturtium

Nasturtiums prefer dry, rather rocky soil, such as we usually call "poor" soil, and bear their flowers in such locations in greater profusion than in a rich garden where they run too much to leaves. This adds to their value for planting over many unsightly places.

LOBB'S TALL NASTURTIUM

(*Tropaeolum Lobbianum*)

While both flowers and foliage are slightly smaller than those of the preceding common Nasturtium, this class is preferred by many because of the greater profusion of bloom and its more brilliant coloring.

675 ASA GRAY. Light yellow, almost white.

679 BRILLIANT. Dazzling scarlet.

681 FIREFLY. Deep orange, spotted red.

685 GOLDEN QUEEN. Clear, golden yellow.

687 KING OF THE BLACKS. Deep, rich maroon. Dark foliage.

689 LUCIFER. Deep scarlet. Dark foliage.

700 LOBBIANUM. Choicest mixed. A mixture of all varieties of this desirable class. Pkt. 10 cts., oz. 20 cts., 2 ozs. 30 cts., ¼ lb. 50 cts.

WORCESTER TALL MIXED

705 WORCESTER MIXED TALL NASTURTIUMS. Our own mixture of many varieties; comprises selections from all classes, including the New Variegated-Leaved, or Queen, and choice mixture from different growers. Of the greatest possible diversity of colors and types, but well-balanced, including larger proportions of the most desirable varieties. Pkt. 10 cts., oz. 20 cts., ¼ lb. 50 cts., lb. \$1.75.

NASTURTIIUM (Continued)

DWARF, OR TOM THUMB NASTURTIIUMS

While the flowers, not having as long stems, are perhaps not quite as desirable for cutting as those of the Tall Nasturtium, the Dwarf Nasturtium is not surpassed by any other annual plant for bedding, being of the easiest culture, thriving in nearly all soils and blooming profusely the entire season.

Except where otherwise noted, all of the following varieties at uniform prices. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., ¼ lb. 60 cts.

- 712 **BEAUTY.** Orange with scarlet markings.
- 714 **BRONZE-COLORED.** A very distinct and peculiar shade.
- 718 **CLOTH OF GOLD.** Brilliant scarlet, foliage golden yellow.
- 722 **CRYSTAL PALACE GEM.** Rich, sulphur-yellow, spotted carmine.
- 724 **EMPRESS OF INDIA.** Dark scarlet, foliage distinct dark purplish green.
- 726 **GOLDEN KING.** Rich golden yellow.
- 730 **KING THEODORE.** Dark maroon; dark foliage.
- 732 **KING OF TOM THUMBS.** Rich scarlet, dark foliage.
- 736 **PEARL.** Light cream, nearly white.
- 742 **RUBY KING.** Ruby-red, dark leaved.
- 744 **VESUVIUS.** Rich salmon-pink.
- 746 **CHOICE MIXED.** While not equal to the Worcester Mixed, of a wide range of colors and will give pleasing results. Pkt. 5 cts., oz. 15 cts., 2 ozs. 25 cts., ¼ lb. 40 cts., lb. \$1.40.

WORCESTER MIXED DWARF NASTURTIIUM

- 747 Like the Worcester Tall Mixed this is of our own preparation and cannot be surpassed in diversity of colors and types; includes all the named varieties and classes here described and other choice mixtures of noted growers. Pkt. 10 cts., oz. 20 cts., ¼ lb. 50 cts., lb. \$1.75.
- 749 **VARIEGATED LEAVED, or QUEEN OF TOM THUMBS, MIXED.** A mixture of all the varieties yet named and several unnamed seedlings of this new, distinct and charming type. Of various distinct colors; shades—light primrose, deep scarlet, crimson and deep orange more or less veined or spotted with other colors. Pkt. 10 cts., ½ oz. 15 cts., oz. 25 cts.

Nicotiana glauca

Photo reproduced of plant showing its bushy habit and great production of flowers.

NEMESIA

A very valuable introduction—long blooming annual with large flowers, varying from creamy white to deep orange and carmine. Most useful for bedding. 1½ feet.

- 756 **STRUMOSA SUTTONI.** Pkt. 15 cts.

NEMOPHILA (LOVE GROVE)

An attractive hardy annual, bearing cup-shaped flowers about an inch in diameter, usually in shades of blue and white, often spotted with brown. Succeeds in cool, shaded places, in light, but rather moist loam. 6 inches.

- 757 **MIXED.** Pkt. 5 cts., ¼ oz. 15 cts.

NICOTIANA (Flowering Tobacco)

Handsome, effective, half-hardy annuals, blooming profusely the entire season, and thriving in all soils. Seed may be sown early in the house, or in the open ground as soon as the soil is warm.

- 758 **AFFINIS.** White, star-like flowers, deliciously fragrant, expands fully in the evening. 2 to 3 feet. Pkt. 5 cts.
- 759 **SANDERAE.** Rose-carmine; remarkably profuse in bloom. Unlike the Affinis, is in full bloom during the day. 3 to 3½ feet. Pkt. 10 cts.
- 760 **SANDERAE HYBRIDS.** New Hybrids, comprising several distinct colors or shades. Pkt. 10 cts.

NIGELLA

(Love-in-a-Mist; Lady-in-Green; Devil-in-a-Bush)

A favorite hardy annual of the easiest culture. The blue or white flowers are half-hidden in the abundant finely cut foliage, hence its common names. 1 to 1½ feet.

- 761 **Blue and White. Mixed.** Pkt. 5 cts.

ORNAMENTAL GRASSES

- 764 **AGROTIS NEBULOSA.** An airy and graceful annual grass, grows 18 inches high and looks like a line of mist when in bloom. Beautiful to mix with cut flowers. Pkt. 5 cts.
- 765 **COIX LACHYMA.** (Job's Tears.) 9 feet. Large, broad leaves, large shiny seed. Hardy annual. Pkt. 5 cts.
- 766 **EULALIA ZEBRINA.** (Zebra Grass.) Dark green leaves crossed by yellowish white bars. Hardy annual. Pkt. 5 cts.
- 767 **PENNISETUM LONGISTYLUM.** Graceful drooping heads. Excellent for bonquets. 2 feet. Hardy annual. Pkt. 5 cts.
- 768 **PENNISETUM RUPELIANUM.** Foliage long and slender, the silvery plumes tinged with violet. 3 feet. Hardy annual. Pkt. 5 cts.

Nigella

EVERYBODY KNOWS ROSS' SEED GROWS

PANSIES

Pansies are too well known to require any description, as they are favorites with all. For best results you must start with a good strain. The finest Pansies are, as a rule, shy seeders, which accounts for the difference in the price of the various mixtures offered.

Sow Pansy Seed in August or September, in fresh, moist soil, cover lightly and press seeds in with a board. Keep the bed moist by watering, and if the weather is hot and dry by mulching with straw or by shading with cloth. The seeds will germinate in about two weeks, when the straw or cloth should be removed. In from four to six weeks, transplant to a slightly raised bed, setting the plants about 3 inches apart each way. Protect during winter with straw or leaves, and transplant to desired location early in the spring. Seed may be sown in the open ground in the spring as soon as soil can be fitted.

Note that our packets of Pansy seeds are larger than usually offered, rarely containing less than 200 seeds, and more often 250 to 350.

Gentlemen: Please send me 1½ ounces of Ross' Selected Giant Mixed Pansy Seed. We have been growing pansies here for twenty years and tried all the best strains, but we never had such a splendid variety of colors or such fine plants as we had from your seed. It might also interest you to know that we germinated about 30,000 plants from 1½ ounces of seed. I trust your seed this season will be of the same high standard.

Yours truly, H. J. Borowski & Sons., 168 Mt. Hope St.,
Roslindale, Mass. July 17, 1922.

- 770 **BUGNOT'S SUPERB BLOTTCHED.** Rare shades of red, bronze or brown. Pkt. 25 cts.,
½ oz. 80 cts., ¼ oz. \$1.40, oz. \$5.
- 771 **CASSIER'S GIANT BLOTTCHED.** A very carefully selected strain of five blotched varieties
remarkable for the enormous size of the flowers and the many rare combinations of shades
and colors. Pkt. 25 cts., ½ oz. 80 cts., ¼ oz. \$1.40, oz. \$5.
- 773 **TRIMARDEAU GIANTS.** Flowers of the largest size, with a dark blotch on the three
lower petals. Pkt. 10 cts., ½ oz. 50 cts., ¼ oz. 90 cts.
- 774 **TRIMARDEAU PARISIAN, LARGE-STAINED.** A beautiful improved strain mostly white
ground and five-blotched varieties. Pkt. 15 cts., ½ oz. 60 cts., ¼ oz. \$1.00.
- 776 **MADAME PERRET.** (Phenomena.) A strain, distinctly beautiful pink, blotched or veined
with rose, crimson or purple, the upper petals either self-colored with rich wine-red or
deep purple, or with a margin of white. Pkt. 15 cts., ½ oz. 60 cts., ¼ oz. \$1.00.
- 778 **MASTERPIECE.** Ruffled Pansies. A strain having ruffled and curled petals, giving the
flowers the appearance of being double. Colors rich and striking. Pkt. 20 cts., ½ oz. 70
cts., ¼ oz. \$1.25.
- 779 **WORCESTER GIANT MIXED.** Our own selection of choice large-flowered strains and varie-
ties, including a proportion of all the preceding strains, the named separate sorts, and
several choice strains from different growers. Wonderful colors, shades and markings,
representing nearly every type of Pansy. Pkt. 15 cts., ½ oz. 60 cts., ¼ oz. \$1.00.
- 780 **ROSS' SELECTED GIANT MIXED.** This is one of the finest strains known, the flowers
being of perfect form and richest colors. A Giant Pansy, excellent for growing in the
frame or out of doors. See testimonial above. Pkt. 50 cts., 1-16 oz. \$1.00; ½ oz. \$1.75,
¼ oz. \$3.25, oz. \$12.00.

Pansy

- 782 **LARGE FLOWERED MIXED.** Our own mixture of varieties.
The range of colorings is excellent, and the mixture will be
found very satisfactory. Pkt. 10 cts., ½ oz. 50 cts., ¼ oz.
90 cts.
- 783 **ENGLISH PRIZE MIXED.** Includes many with face-like mark-
ings of various shades. Pkt. 10 cts., ½ oz. 60 cts.

- 785 **CHOICE MIXED.** A mixture of many varieties. Pkt. 10 cts.,
½ oz. 40 cts., ¼ oz. 75 cts., oz. \$2.50.
- 786 **GIANT ADONIS.** Splendid light blue, with white center and
dark blotches. Pkt. 10 cts., ½ oz. 60 cts.
- 792 **GOLDEN QUEEN.** Pure yellow. Pkt. 10 cts., ½ oz. 60 cts.
- 794 **INDIGO-BLUE.** New rich shade. Pkt. 10 cts., ½ oz. 60 cts.
- 796 **KING OF THE BLACKS.** Pkt. 10 cts., ½ oz. 60 cts.

- 800 **LORD BEACONFIELD.** Violet, shading to white at the top. Pkt. 10
cts., ½ oz. 60 cts.
- 802 **MAUVE QUEEN.** New, beautiful mauve. Pkt. 10 cts., ½ oz. 60 cts.
- 804 **PEACOCK.** Rich blue and purple, edged white; very striking. Pkt. 10
cts., ½ oz. 60 cts.
- 806 **RUBY KING.** Superb reddish shades. Pkt. 10 cts., ½ oz. 60 cts.
- 808 **SNOWFLAKE.** Pure white. Pkt. 10 cts., ½ oz. 60 cts.
- 810 **STRIPED.** Rich dark shades. Pkt. 10 cts., ½ oz. 60 cts.
- 811 **YELLOW.** With large, black eye. Pkt. 10 cts., ½ oz. 60 cts.

PETUNIA

The Petunia is easily grown, and, blooming profusely all summer, is very popular for bedding. It thrives best in a warm sunny location. Sow seed thinly where plants are to remain, in beds for transplanting, or, for early blooming, in the house in boxes. Almost invariably the weaker plants produce the finer flowers, especially of the choice strains.

- 812 **MIXED COLORS.** A fine mixture of the common small-flowered type.
Pkt. 5 cts., ½ oz. 15 cts., ¼ oz. 25 cts., oz. 75 cts.
- 814 **FINEST MIXED.** A superior mixture. Pkt. 10 cts., ½ oz. 20 cts., ¼ oz.
40 cts., oz. \$1.50.
- 815 **STRIPED AND BLOTTCHED MIXED.** A choice strain. Pkt. 10 cts.,
½ oz. 25 cts., ¼ oz. 40 cts.
- 816 **HOWARD'S STAR.** Rich shade of maroon, with five-pointed star of
white. Very pretty. Pkt. 10 cts., ½ oz. 40 cts.
- 817 **DWARF INIMITABLE MIXED COLORS.** Dwarf, bushy plants, flowers
mostly beautiful striped and blotched. Pkt. 10 cts., ½ oz. 40 cts.
- 818 **ROSY MORN.** A single flower, color soft carmine pink. A profuse
bloomer. Pkt. 10 cts., ½ oz. 50 cts.
- 820 **GRANDIFLORA ALBA.** Plants of medium size; flowers very large, pure
white. Pkt. 25 cts.
- 822 **LARGE-FLOWERING, EXTRA CHOICE MIXED.** A superior mixture of
large-flowered varieties with beautiful markings. Pkt. 20 cts.
- 824 **GIANTS OF CALIFORNIA.** A superb strain. Flowers are of remarkable
substance, enormous size and many are beautifully fringed. Of almost
every conceivable shade; veined, striped or blotched with some con-
trasting shade. Plant of vigorous growth and blooms profusely. Pkt.
25 cts.
- 825 **DOUBLE, LARGE-FLOWERED, CHOICE MIXED.** An excellent mixture
comprising a large variety of colors, with a good percentage of double
flowers. Pkt. 50 cts.

Petunia

PHLOX DRUMMONDII

Seed may be sown in the open ground early in the spring either where the plants are desired to bloom, or in beds, and the young plants set in the desired location when 2 or 3 inches high. The tall sorts should stand about 12 inches apart, the dwarf about 6 inches. The plants will be more bushy and cover the ground better if pinched off while small.

- 830 **Mixed Colors.** Pkt. 10 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.
LARGE-FLOWERING. (*Phlox Drummondii grandiflora*.) A great improvement on the common type, both heads and florets being nearly twice as large.
- 831 **Extra-Choice, Mixed Colors.** Our own mixture of the choicest and best strains from different growers. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. \$1.00.
- 832 **BLACK WARRIOR.** Dark red. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.
- 833 **ISABELLINA.** Pure yellow. Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.
DWARF. (*P. Drummondii nana compacta*.) The plants of this class, growing only 6 to 8 inches high, are considered by many, very desirable for bedding.
- 837 **FIREBALL.** Bright scarlet. Pkt. 10 cts.
- 838 **SNOWBALL.** Pure white. Pkt. 10 cts.
LARGE-FLOWERING DWARF. A new strain, combining the large heads and individual flowers of the *Grandiflora* type, with the dwarf compacta habit of the *nana compacta*.
- 841 **Mixed Colors.** Pkt. 10 cts., $\frac{1}{8}$ oz. 30 cts.
STAR, or FRINGED. (*P. Drummondii Cuspidata*.) A distinct class with petals partly fringed, partly toothed, and some longer than others and regularly placed, give the flowers a star-like shape.
- 843 **Mixed Colors.** Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts.
DOUBLE. Double and semi-double flowers. A very desirable class for cutting.
- 845 **Mixed Colors.** Pkt. 10 cts.

HARDY PERENNIAL PHLOX

Hardy herbaceous perennial and quite distinct from the varieties of *Phlox Drummondii* offered above, which are annuals. The seed we offer has been saved from the best varieties and is supplied in mixture only.

- 847 **Choicest Mixed.** Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.

PLATYCODON (Chinese Bellflower)

- 855 **GRANDIFLORUM.** One of the best hardy perennials, and one of the easiest grown, its propagation being more easily accomplished by seed than by division of the root. It forms clumps and is well adapted to the hardy border. Blooms from July to September. The flowers are large steel-blue, rather more open than bell-shaped, 2 to 2 $\frac{1}{2}$ feet. Pkt. 10 cts.

Hardy Phlox

POLEMONIUM

- 857 **COERULEUM.** A hardy perennial, very popular in olden times. Easily grown from seed, preferably sown in the fall. Large heads of showy blue flowers from May to August. 2 feet. Pkt. 5 cts.

POPPY

Well-known hardy plants of quick growth, blooming profusely for a considerable time, thriving best on light, sandy loam. Seed of the annual varieties should be sown as early in the spring as possible and where desired to bloom as they do much better when they start to grow in cool weather and are very difficult to transplant. The seed is fine and should be only slightly covered.

SINGLE ANNUAL POPPIES

- 860 **ADMIRAL.** Large, single, peony-flowered variety, glistening white, with broad band of brilliant scarlet at the top. Pkt. 10 cts.
- 862 **DANEBOG, or DANISH CROSS.** Brilliant scarlet with white spots at base of each petal. Pkt. 5 cts.
- 866 **THE BRIDE.** Large, pure white. Pkt. 5 cts.
- 868 **TULIP-FLOWERED.** Bright scarlet, cup-shaped flower. Pkt. 5 cts.
- 870 **SHIRLEY.** A lovely strain, comprising many delicate and rich shades, ranging from pure white through pink, rose, scarlet and red to the deepest crimson, the darker shades often having a margin of white. Many of the flowers have crimped or wavy petals, all are of fine silky texture, but of good substance, and not surpassed by any for cutting. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.
- 872 **SHIRLEY, SANTA ROSA STRAIN.** Acknowledged the best and most varied strain in existence. Unusually large flowers, remarkably clear colors, including new striped, new salmon shades and new bluish ones, all mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.
- 874 **UMBROSUM.** Rich vermilion with a spot of glistening black on each petal. Very showy. Pkt. 5 cts.

DOUBLE ANNUAL POPPIES

- 878 **CARNATION-FLOWERED.** Mixed. Fine, large, fringed flowers of many colors, a popular class. Pkt. 5 cts., oz. 20 cts.
- 880 **CARDINAL.** Very large, pure cardinal-red; deeply cut, dark green foliage; very attractive. Pkt. 5 cts.
- 882 **GOLDEN POPPY.** Striking golden-yellow foliage, and flowers in different shades of red. Pkt. 10 cts.
- 884 **PEONY-FLOWERED.** Mixed. Large, globular flowers, resembling a peony. Pkt. 5 cts., oz. 20 cts.
- 886 **SNOWDRIFT, or DOUBLE WHITE FRINGED.** Flowers from 3 to 4 inches across; very double and finely fringed. Pure white. Pkt. 5 cts.
- 888 **WORCESTER MIXED.** Our own mixture of single and double annual varieties. All types and colors. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.

Shirley Poppy

EVERYBODY KNOWS ROSS' SEED GROWS

HARDY PERENNIAL POPPIES

ICELAND POPPIES. Though hardy perennials, generally treated as annuals, blooming the first year, if seed is sown early. Of graceful habit, with fern-like foliage. They bloom profusely, and, if no seed-pods are allowed to form, until October.

890 **White and Shades of Yellow and Orange.** Mixed. Pkt. 5 cts., 1/8 oz. 20 cts.

ORIENTAL POPPIES. Extremely desirable for hardy perennial border; gorgeous blooms. Easily grown from seed sown either in late fall, or early spring. They bloom the second spring from sowing, and though their season is short—about three weeks in June—they make a very effective display.

892 **ORIENTALE.** Deep crimson flowers, with blotch of black on each petal. Pkt. 10 cts., 1/8 oz. 25 cts.

893 **NEW ORIENTALE HYBRIDS.** Flowers of enormous size, sometimes 6 inches or more in diameter and of many novel colors. Pkt. 10 cts.

PORTULACA

Well-known tender annuals, blooming profusely all summer. Thrive in most soils and locations, but succeed best in a light, sandy soil and sunny spot, enduring any amount of dry weather. Form a dazzling display when sown in masses.

894 **DOUBLE CHOICE MIXED.** Usually from fifty to sixty per cent of the flowers will come double. Pkt. 10 cts., 1/8 oz. 40 cts., 1/4 oz. 65 cts.

895 **SINGLE SCARLET.** 896 **Rose.** 897 **White.** 898 **Yellow.** Pkt. 10 cts., 1/8 oz. 20 cts., 1/2 oz. 35 cts.

899 **SINGLE MIXED.** Pkt. 5 cts., 1/4 oz. 25 cts., 1/2 oz. 40 cts.

PRIMULA

(Primrose)

PRIMULA SINENSIS (Chinese Primrose). A beautiful winter-blossom greenhouse perennial and one of the most pleasing for the home, blooming from December to spring. While its culture is not easy, it is by no means impossible for the amateur to raise fine, thrifty plants from seed. For early winter blooming seed should be sown the first week in April. Two sowings are advisable, but the second should not be later than the middle of May. Sow in well-drained shallow pans or boxes, using finely sifted loam, leaf mold and sand in equal parts. Cover lightly and water carefully, but well. Keep moist and in shade, and in a temperature of about 60 degrees. In summer keep in a cool, shady location, in winter in a north window in a temperature of 45 degrees.

900 **CHOICEST MIXED.** Comprises the finest fringed varieties. Pkt. 35 cts.

PRIMULA OBCONICA. Easily grown. Seed sown in May will produce blooming plants by early fall. A beautiful pot plant and does well in the open ground in a cool, shady location if soil is strong, moist and rich. The treatment is about the same as of the Chinese Primrose except that the seeds should be sown in good porous soil, as they do not germinate well in leaf mold. The soil for final potting should be heavy and the plants should be kept in temperature of from 50 to 60 degrees.

901 **GRANDIFLORA.** Blooms profusely; white, shading to lilac. Pkt. 10 cts.

902 **PRIMULA STELLATA.** Star-like flowers borne in clusters, producing a large variety of colors; plants are very graceful and fine for winter flowering. Pkt. 35 cts.

HARDY PRIMROSES

Although known as a hardy perennial, these require in this climate some protection. They may be placed in a cold-frame, or if protected with leaves covered by a box, they will live through our severest winters. They are among the best of the early-blooming plants.

ELATIOR (Polyanthus). Excellent for either pot or outdoor. Colors mostly shades of yellow, and red and yellow.

903 **CHOICEST MIXED.** Pkt. 10 cts.

904 **VULGARIS.** True yellow English Primrose; canary yellow; fragrant. Pkt. 10 cts.

PYRETHRUM

Well-known hardy herbaceous perennials of easy culture.

910 **AUREUM** (Golden Feather). Golden foliage; small, white flowers. Cultivated for its foliage alone and usually treated as an annual. 1 foot. Pkt. 5 cts.

913 **ROSEUM HYBRIDUM.** Blooms freely from June to September, bearing large-flowering, daisy-like flowers ranging from light pink to deep red, with bright yellow center; excellent for cutting. Pkt. 10 cts.

ROSE CHAMPION. See *Agrostemma Coronaria*.

ROSE OF HEAVEN. See *Agrostemma Coeli*.

RICINUS. See *Castor Bean*.

RESEDA. See *Mignonette*.

RHODANTHE

One of the finest everlasting flowers and an excellent plant for garden decoration. If flowers are gathered before they are fully expanded and dried in the shade, they will retain their color for years. Tender annual. 1 foot.

920 **MIXED COLORS.** All shades of pink, rose, crimson and white. Pkt. 5 cts.

ROCKET (Sweet)

(*Hesperis Matronalis*)

Hardy perennial plant of easy culture, bearing clusters of purple or white fragrant flowers. 1 1/2 feet.

921 **MIXED.** Pkt. 5 cts.

RUDBECKIA

(Cone Flower)

To this family belong the favorite plant, Golden Glow, and the well-known wild flower, Black-eyed Susan, or Yellow Ox-eye Daisy. Both the annual and the perennials are of the easiest culture and grow in nearly all soils and situations, thriving alike in partial shade or fully exposed to the sun.

923 **BICOLOR SUPERBA.** Free-blooming annual of dense, bushy growth, bearing on long stems, large, bright yellow flowers with velvety brown spots at base of petals, and disc or cone of brown. Excellent for cutting. 2 feet. Pkt. 5 cts.

925 **NEUMANNI.** Large, golden yellow flowers, with maroon cone. Very showy; blooms for a long time. One of the best hardy perennials. 2 feet. Pkt. 15 cts.

926 **PURPUREA** (Echinacea; Giant Purple Cone-Flower). Large flowers, about 4 inches in diameter, reddish purple, with large cone of brown. Hardy perennial. 3 feet. Pkt. 15 cts.

SALPIGLOSIS

(Velvet Flower; Painted Tongue)

Graceful, half-hardy annual, bearing from August to October, richly colored, funnel-shaped flowers, ranging from deepest purple to almost black and blue, through various shades of red, brown and yellow to creamy white, usually marbled or veined with several contrasting colors. These are borne on long, slender stems, and are excellent cutting, keeping well in water. Seed may be sown in the house the last of March or in the open ground in May. The plant succeeds best in deep, rich, rather light loam of medium moisture. 2 feet.

928 **GRANDIFLORA.** Choicest mixed. Extra large flowered strain. Pkt. 5 cts., 1/8 oz. 20 cts.

929 **EMPEROR.** Mixed colors. New type with one thick leading stem, flowers large and distinct in their beautiful veinings of gold. Pkt. 10 cts., 1/8 oz. 30 cts.

SALVIA (Scarlet Sage)

A mass of bloom from late summer until killed by frost; tender perennial, treated as an annual. Seed should be sown early indoors, or in hot bed and the plants set out when the weather has become warm.

935 **SPLENDENS GRANDIFLORA.** The well-known Scarlet Sage. 3 feet. Pkt. 10 cts., 1/8 oz. 40 cts.

936 **BONFIRE** (Clara Bedman). Compact bushy growth, blooms earlier and more profusely. Intense scarlet. 2 feet. Pkt. 10 cts., 1/8 oz. 40 cts.

937 **PATENS.** Rich, intense blue. 2 feet. Pkt. 25 cts.

938 **ZURICH.** One of the best of recent introductions; dwarf compact habit producing long, thick spikes of brilliant scarlet flowers blooming in July. Pkt. 20 cts.

Salvia

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

SCABIOSA (Mourning Bride)

The flowers are large and double with a great variety of colors. Of easy culture and blooms freely from July until hard frost. Hardy annual. $2\frac{1}{2}$ feet.

945 **LARGE-FLOWERED.** Mixed Colors. Fine, large, double flowers in a wide range of colors. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts.

947 **CAUCASICA.** Flowers large, pale lilac, about 3 inches in diameter, in bloom all summer. Pkt. 10 cts., $\frac{1}{8}$ oz. 40 cts.

SCARLET RUNNER. See Beans—Ornamental varieties.

SCHIZANTHUS (Butterfly, or Fringe Flower)

Beautiful, dainty, half-hardy annual. Seed may be sown in the open ground or in the house, and the plants set in the garden in May. Should be planted in a sheltered place or the plants tied to stakes, as the stems are very brittle and easily broken by strong winds. An excellent house-plant. 1 to $1\frac{1}{2}$ feet.

948 **GRANDIFLORUS HYBRIDUS.** Very fine varieties. Pkt. 10 cts.

949 **WISETONENSIS.** Containing the most beautiful shades of white, pink, rose and crimson. Excellent for pot culture. Pkt. 25 cts.

SENSITIVE PLANT (Mimosa Pudica)

950 **PUDICA.** Globular heads of small pink flowers. Grown chiefly for the peculiar habit of the plant, the leaves closing and dropping at the slightest touch. Tender annual. $1\frac{1}{2}$ feet. Pkt. 5 cts.

SHAMROCK

950A True, small-leaved variety. Imported seed. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

SILENE (Catchfly)

Profuse flowering plants of easy culture. Seed of the annual sorts may be sown in the open ground early in the spring or in the fall if early bloom is desired.

951 **ARMERIA.** Mixed (Common Catchfly). Annual; blooms from July to September. White, pink and red. $1\frac{1}{2}$ feet. Pkt. 5 cts.

953 **PENDULA COMPACTA.** Single and Double. Mixed colors. White, rose and red. Annual. Largely used for edgings. May to August. 6 inches. Pkt. 5 cts.

SMILAX

955 **SMILAX.** A climbing plant, unsurpassed for its graceful foliage and orange-blossom fragrance of its flowers. Makes a fine pot or basket plant. Elegant for table decoration when cut. Pkt. 10 cts.

SNAPDRAGON. See Antirrhinum.

SOLANUM CAPSICATRUM. See Jerusalem Cherry.

STOCK

(Gilliflower)

One of the most popular annuals remarkable for its profusion of bloom, brilliancy and diversity of colors and lasting quality of its flowers. Plants from seed sown inside in March or April commence to bloom in July and those from seed sown in the open ground in about ten weeks, and continue until frost. Plants grown in rich soil and well cared for, produce 80 to 90 per cent of double flowers.

957 **BEAUTY OF NICE.** Mammoth flowering. Delicate flesh pink extra large spike. Pkt. 10 cts., $\frac{1}{8}$ oz. 50 cts.

958 **MONT BLANC.** Purest white. Pkt. 10 cts.

959 **MONTE CARLO.** Canary yellow. Pkt. 10 cts.

961 **SUMMER NIGHT.** Rich deep blue. Pkt. 10 cts.

962 **CHOICEST MIXED.** Pkt. 10 cts.

DRESDEN PERPETUAL, or BRANCHING (Cut-and-Come-Again). A perpetual blooming class of branching habit; double, fragrant flowers. 2 feet.

967 **CHOICEST MIXED.** Pkt. 10 cts., 1-16 oz. 25 cts., $\frac{1}{8}$ oz. 40 cts. **LARGE-FLOWERED DOUBLE TEN WEEKS.** A very choice strain, producing a very large per cent of double flowers. Fine for bedding. $1\frac{1}{2}$ to 2 feet.

970 **CHOICEST MIXED.** Pkt. 10 cts., 1-16 oz. 25 cts., $\frac{1}{8}$ oz. 40 cts.

971 **DOUBLE TEN WEEKS.** Mixed Colors. Seeds grown in the open ground instead of in pots, therefore cheaper. A good range of colors. $1\frac{1}{2}$ feet. Pkt. 5 cts., $\frac{1}{8}$ oz. 25 cts., $\frac{1}{4}$ oz. 40 cts.

STOKESIA CYANEA

(Cornflower Aster)

973 **BLUE.** A beautiful, hardy perennial, growing about 2 feet high and bearing from August to hard frost, beautiful centaurea-like lavender-blue flowers among the best for cutting. Pkt. 10 cts.

974 **MIXED.** Containing many new colors. Pkt. 10 cts.

SUNFLOWER HELIANTHUS

The Sunflower grows well in all soils if fully exposed to the sun. The taller varieties make excellent background to other plants.

975 **CUCUMERIFOLIUS** (Miniature Sunflower). Small, single flower, rich yellow. 4 feet. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts.

976 **GLOBOSUS FISTULOSUS** (Globe or Dahlia Sunflower). Flowers large, double, of a rich saffron color. 6 feet. Pkt. 5 cts., $\frac{1}{8}$ oz. 25 cts.

977 **RED SUNFLOWER.** The new Red Sunflower is easily grown from seed the same as all of the Helianthus family, and usually thrive in any sunny location with ordinary garden soil. Colors are not truly fixed and may produce some yellow blooms, but the larger proportion are of a fine red, tipped yellow. Pkt. 15 cts., $\frac{1}{4}$ oz. 30 cts.

Stock

980 **NEW MINIATURE VARIETIES.** Many new varieties of the miniature type, of various shades of yellow and creamy white. Some are large, some have twisted petals and some black centers. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

981 **PERKEO.** A distinct dwarf variety of the Miniature and growing only a foot high and blooming from the last of June until hard frost; is especially valuable for bedding. Pkt. 10 cts.

984 **DOUBLE CHRYSANTHEMUM-FLOWERED.** Flowers larger than the preceding; full and double. Orange-yellow. 5 feet. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts.

986 **RUSSIAN MAMMOTH.** Very large. 7 to 9 feet. Pkt. 5 cts., oz. 10 cts.

988 **MAXIMILIANA.** Flowers clear yellow with several rows of large petals and full center; continues in bloom late in the autumn. Hardy perennial. 6 feet. Pkt. 10 cts., $\frac{1}{8}$ oz. 25 cts. **SWEET SULTAN.** See Centaurea.

Sweet Peas

Grandiflora or Standard Varieties

Sweet Peas succeed best when planted very early in the spring. The soil should be at least of medium fertility and well prepared. Sow thickly in drills about 5 inches deep, but cover with but 2 inches of soil, filling the drill when plants are a few inches high. Seed may be sown in either single or double rows, the latter being preferable because more economical of space, and requiring only half as much material for support of the vines. For this purpose poultry netting is often used, but brush is better. The season of blooming will be prolonged if all flowers are cut and seed-pods not allowed to form.

All of the following varieties at uniform price. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts., $\frac{1}{4}$ lb. 65 cts.

995 **AMERICA.** White, striped and splashed with carmine.

1015 **BLACK KNIGHT.** Glossy, deep maroon; large, open form.

1025 **BLANCHE FERRY.** The popular pink and white.

1045 **DOROTHY ECKFORD.** The largest pure white of this class.

1055 **DUKE OF WESTMINSTER.** Standard clear purple; wings purple, tinted violet.

1080 **FLORA NORTON.** Almost true sky-blue.

1100 **JANET SCOTT.** Clear deep but bright pink. Large size, hooded form. The wings stand upright and are curled, giving the flower an unusual but rather attractive appearance.

1125 **KING EDWARD VII.** Crimson-scarlet, large; the best of this color.

1135 **LADY GRISEL HAMILTON.** Soft lavender, tinted with mauve in standard.

1155 **LOVELY.** Soft shell-pink, a beautiful flower.

1170 **MISS WILLMOTT.** Standard orange pink. Wings rose.

1175 **MRS. COLLIER.** Primrose. The best grandiflora cream.

1220 **PRIMA DONNA.** The popular clear pink.

1290 **WHITE WONDER.** Pure white; many-double flowers.

EVERYBODY KNOWS ROSS' SEED GROWS

The Spencer-Waved or Giant Orchid-Flowered SWEET PEAS

Spencer Sweet Peas grown under the right condition should produce robust plants attaining a height of from 5 to 8 feet and for full development should not be less than six inches apart.

There are hundreds of the Orchid-flowered varieties of Sweet Peas; many of which are almost identical in color or some characteristic which all first class sorts should have. Our list contains only those varieties which we have found to be worthy of the growers' best attention and are selected because of some special merit.

All at uniform price except where noted. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00, postpaid.

APPLE BLOSSOM SPENCER. Bright rose standard with wings of very light primrose flushed or tinted rose-carmine. Very large Spencer form.

ASTA OHN. Large flowers, waved and fluted in the standard with very large wavy wings, lavender, suffused or tinted with mauve; superior to any other lavender.

AURORA SPENCER. Enormous flowers, both wings and standard much waved or fluted; ground creamy white, beautifully flaked and mottled, rich orange-salmon.

BARBARA. An excellent sort for exhibition or table decoration; a large salmon-orange self and much superior to Earl Spencer, as it retains its original color.

BLANCHE FERRY SPENCER. Closely resembles the variety of the older type. Large, well waved and crinkled.

BLUE PICOTTE. Almost pure white except for a narrow edging of violet blue on the standard and wings. Flowers large and of fine form.

CONSTANCE HINTON. A beautiful white Spencer of enormous size. Young flowers usually tinted a trifle pink, but they soon turn pure white.

Lovely

King White

COUNTRESS SPENCER. The original of this type. Soft rose-pink, deepening somewhat at the edges.

DAINTY SPENCER. White ground with beautiful picotte edge of rose pink.

DECORATOR. Of vigorous growth, the vines flower profusely, bearing on long stems three and frequently four beautifully waved flowers. The color is rich rose overlaid with terra cotta, intensifying to deep bright orange at base of wings.

DOBBIE'S CREAM. Rich primrose, perfect form, waved edge, usually four flowers on a stem.

DOBBIE'S SUNPROOF CRIMSON. Flowers are large and of fine Spencer form. A vigorous grower and a good variety for exhibition.

DUPLEX SPENCER. Produces uniformly large, waved flowers of true Spencer type. In color, both the standard and wings are a rich cream pink, and practically all the petals give flowers with double or triple standards.

ELFRIDA PEARSON. The flowers are of extra large size, great substance and lasting quality when cut. They are nicely disposed on extremely long stiff stems, invariably borne in fours. The vines bloom in wonderful profusion and are of such vigorous growth that the flowers frequently come with double standards. The color is lovely pink throughout, the buds and flowers being tinted with salmon pink.

ETTA DYKE. A superior strain of "White Spencer," larger, whiter, and better frilled.

FIERY CROSS. This sensational novelty was exhibited in 1916 and was received with great favor by the experts, and is now offered to the public as one of the leaders. The flowers are of good size and beautifully waved, but its greatest merit is its color, a brilliant fiery-scarlet, and its well-deserved name is truly descriptive.

FLORA NORTON SPENCER. Bright blue, with a little deeper tint of purple than the original Flora Norton. Large, both standard and wings are wavy.

FLORENCE NIGHTINGALE. Best soft lavender.

HELEN LEWIS (Orange Countess). Standard crimson-orange, wings orange-rose.

HERCULES. A magnificent soft rose-pink. The standard frequently measures two and one-half inches in diameter.

ILLUMINATOR. A rich and charming new color, produced by a ground color of salmony-orange overlaid with bright cerise-pink, the effect being a glowing orange-scarlet; flowers uniformly large.

KING EDWARD SPENCER. Rich crimson-scarlet, large and of fine form; the best of this color.

KING WHITE. The grandest of all white Sweet Peas, and of the most up-to-date Spencer form. It is much the largest white Spencer—the buds are of exceptional size before opening, even the seed pods are unusually large. The stems are long and stout, and bear practically always four blossoms. King White created a sensation wherever shown.

LADY EVELYN EYRE. Color a lovely shade of blush-pink on white ground, slightly deeper toward the edges, and with a slight suffusion of light salmon.

LAVENDER GEO. HERBERT. The flowers at first have a mauve tint which soon disappears. A most useful variety for all purposes.

Flora Norton Spencer

Sweet Pea Mixtures

SPENCER VARIETIES AND SEEDLINGS MIXTURE

This is a superb mixture of Spencer or Giant Waved Flowered varieties. It contains not only the named kinds, but many of the unnamed seedlings. It must be remembered that the Spencer sorts do not come as true as the old standard kinds, but a very large percentage will be of the Spencer type with a waved flower. This is the very best mixture that you can buy and is well worth the difference in price. Postpaid, pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

OUR BEST MIXED

1295 This mixture we make up ourselves of the choicest large flowered varieties, including the best of the standard varieties, all of the varieties of the New Giant and Orchid-Flowered, both of the Spencer and Unwin types and many of the unnamed Spencers. This mixture comprises all shades, but is blended in carefully studied proportions and is the most desirable and popular mixture which can be produced. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

Spencer Sweet Peas—Continued

LOVELY SPENCER. Soft shell-pink, shading to blush and almost white at the edges; large and wavy.

MARGARET ATLEE. The largest and finest Sweet Peas yet introduced. It 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, wavy and frequently double. The wings are also large, wavy, well set. There are usually four blossoms to a stem; well poised and graceful.

MARTHA WASHINGTON. Most beautiful; blush-white, veiled with rosy-pink deepening into a contrasting marginal zone of tyrian-rose.

MAUD HOLMES. An unsurpassed "Sunproof" crimson.

NEW MARGARET MADISON. A large, perfect Spencer, of delicate azure blue, slightly tinted with mauve. The mauve tint shows only in the newly opened blossoms and the fully expanded flowers are clear light-lavender.

OTHELLO SPENCER. Of immense size with large drooping wings and large wavy standard; rich maroon, very dark.

ROYAL PURPLE. A new shade in Sweet Peas, a rich purple and almost a true royal purple. The same shade effect does not exist in the grandiflora type.

STIRLING STENT. A rich, deep metallic salmon suffused with orange. A beautiful Spencer, especially in artificial light, requiring shading to show true color.

THOMAS STEVENSON. The flowers are of largest size and true Spencer type. The standard is an intense flaming orange, while the wings are rosy carmine, shaded orange. Very vigorous.

VERMILION BRILLIANT. A brilliant scarlet Spencer of splendid form. The standard is very bold and beautifully waved. On account of its brightness this is a very telling color and should be in every collection.

WARRIOR. Deep chocolate, almost black, unequalled for mixing with other shades for bouquets and table decorations. The darkest Sweet Pea introduced.

WEDGEWOOD. This is a unique shade of lovely light blue and completely eclipses the Flora Norton Spencer. The flowers are well waved in both standard and wings and are borne almost uniformly in sprays of four upon long, stout stems. Wedgewood is a color long sought for in Sweet Peas and has been eagerly welcomed by lovers of this beautiful annual.

WHITE SPENCER. Pure white. Of the largest size, has beautifully poised wings and the standard is erect and wavy. Stems often 12 inches long.

Price of above: Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.00.

EARLY FLOWERING SPENCERS

Price, each, pkt. 15 cts., oz. 75 cts.

EARLY HEATHER BELL. The color is a rich and pleasing mauve, but after standing in water the color becomes a beautiful mauve lavender.

EARLY SONGSTER. A splendid lavender, the color of "Masterpiece," and quite the best lavender. The flowers have less mauve than in our well-known variety, "Asta Ohn." They are of perfect form.

EARLY SNOW FLAKE. As its name indicates, this is pure white and is quite the best early flowering White Spencer. Flowers come on long stems. This variety is appreciated by all florists.

YARRAWA. A Sweet Pea novelty of sterling merit, coming from Australia. The flowers are waved, of large size, many of them being double. Color, a soft, bright rose pink with a creamy base. One of the best for forcing under glass, and when grown out of doors blooms two weeks earlier than the Summer Spencers.

EARLY PINK AND WHITE. Giant pink and white.

CHOICE MIXED

1296 Also prepared by us; a well-blended mixture comprising many of the large-flowering varieties of the older type, and Eckford's Large-Flowering Hybrids in great variety. The mixture will compare favorably with those generally offered at a higher price, and is surpassed only by mixtures which, like our Best Mixed, contain the new orchid-flowering varieties. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.15.

EVERYBODY KNOWS ROSS' SEED GROWS

SWEET WILLIAM (*Dianthus Barbatus*)

A splendid hardy biennial with large trusses of sweet and scented flowers produced in abundance. Seed should be sown at any time from early spring to the last of August, the late sown generally making as good plants as the early, and blooming to the full extent the following summer. 1½ feet.

- 1300 **SINGLE MIXED COLORS.** Pkt. 5 cts., ¼ oz. 15 cts.
 1302 **HOLBORN GLORY.** A new strain of the auricular-eyed section; both the head and individual flowers are of the largest size and each of the latter shows a clear white eye; of an exceedingly wide range of colors. Pkt. 10 cts., ¼ oz. 35 cts.
 1308 **DOUBLE LARGEST-FLOWERED.** Choicest mixed. A greatly improved strain. Pkt. 10 cts., ¼ oz. 25 cts.
 1309 **SCARLET BEAUTY.** A very effective, rich, deep scarlet variety. Pkt. 10 cts.
 1310 **EVERBLOOMING HYBRID (*Dianthus latifolius atrococcineus* fl. pl.).** A variety which blooms the first season from seed. Color, intense crimson-scarlet; a really fine hardy plant of very easy culture. Pkt. 10 cts.

THUNBERGIA

- 1315 **MIXED.** An annual vine, growing about 4 feet high, bearing medium-sized flowers, white, buff or orange, with dark eye. Largely used in hanging baskets or window boxes. Pkt. 10 cts.

TRITOMA

- 1317 **TRITOMA (Red-Hot Poker Plant, or Flame Flower).** H. P. Magnificent, large spikes of orange-red flowers, attaining a height of 4 feet, effective in single clumps or among shrubbery. Pkt. 10 cts.

VERBENA

Favorite annuals, thriving in nearly all soils. Useful for beds, borders, carpeting ground and vases. Plants from seed sown in open ground in May will begin to bloom in August, and those sown inside in March will bloom from June until frost.

- 1320 **MIXED COLORS.** A good strain, all colors of old type. Pkt. 5 cts., ¼ oz. 25 cts.
 1321 **MAMMOTH MIXED COLORS.** Comprises the best large flowering sorts of many colors. Pkt. 10 cts., ½ oz. 40 cts.
 1322 **SCARLET DEFIANCE.** Large trusses of deep, rich scarlet. Pkt., 10 cts.
 1323 **MAMMOTH WHITE.** Truss and flowers large; fragrant. Pkt. 10 cts.
 1324 **ITALIAN STRIPED.** Large trusses of medium-sized flowers; each distinctly striped. Pkt. 10 cts.
 1325 **"BURBANK'S GIANT MAYFLOWER."** A selected strain from Luther Burbank, having a powerful fragrance like that of the Trailing Arbutus. The flowers are of the largest size and most beautiful colors. Pkt. 15 cts., 2 pkts. 25 cts.
 1326 **LEMON.** An old favorite with delightfully scented foliage. It is a low-growing tender plant and may be grown in the garden in summer and in pots in winter. Pkt. 10 cts.

VERONICA

- 1330 One of the prettiest of the spring flowering herbaceous plants, bearing pretty blue flowers on long spikes. Valuable both for the garden and for cut flowers. They should be in every garden. Hardy perennial mixed. Pkt. 10 cts.

VIOLA CORNUTA (Tufted Pansies)

Flowers are not so large as the Pansy proper, but is very desirable, as it blooms profusely, and is more quickly and easily grown. Seed sown in April will produce blooming plants in June that will be covered with flowers for a long time, and, if planted in cool, moist soil, partly shaded, nearly all summer.

- 1335 **MIXED TUFTED PANSIES.** Finest mixture of all colors. Pkt. 10 cts., ½ oz. 35 cts., ¼ oz. 60 cts.

WALLFLOWER

Half-hardy perennial. A universal favorite in England. Though a fine bedding plant, is not well known in America. It is more often grown as a pot plant and for this purpose is well adapted. The flowers are very often fragrant and usually of various shades of yellow, brown and reddish brown. Seed may be sown in the open ground in the spring when warm, and, if given about 12 inches of room, will make strong, stocky plants for winter bloom.

- 1340 **SINGLE.** Mixed colors. Pkt. 5 cts.
 1341 **DOUBLE BRANCHING.** Mixed colors. Pkt. 10 cts.
 1342 **PARIS EXTRA-EARLY.** A new single-flowered strain, blooming throughout the season, from spring-sown seed. Colors, light brown, brownish-red, yellow and creamy-white. Mixed. Pkt. 10 cts., ¼ oz. 20 cts.

WILD CUCUMBER VINE

- 1346 **WILD (*Echinocystis lobata*).** One of the most rapid-growing of all annual climbers and blooms early in the season and continuously until fall. Of the easiest culture, growing wild in the West from self-sown seed. One of the most desirable annual climbers for quickly covering any unsightly object; growing 30 feet, covered with small, white, fragrant flowers, followed by an abundance of prickly but ornamental seed-pods it at all times presents a striking and effective appearance. Seed may be sown either in the fall or spring. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts.

Mammoth Zinnia

ZINNIA

(Youth and Old Age)

Old-time favorite annual; easily grown from seed and transplanted readily. Showy flowers in profusion all summer. Fine for bedding, borders or among shrubbery.

- 1350 **MIXED COLORS.** An improved strain, comprising all colors and many large flowers. 2 feet. Pkt. 5 cts., ¼ oz. 15 cts., oz. 50 cts.

MAMMOTH FLOWERED ZINNIA

These grand annuals are of the Giant or Mammoth flowering type and are in every way superior to the old-fashioned "Youth and Old Age."

The plants grow from 2½ to 3 feet high and are covered with myriads of densely double flowers, measuring from 4 to 6 inches in diameter. Giant Zinnias are one of the best plants for beds, borders and cutting.

- 1351 **Mammoth Crimson.** 1352 **Mammoth White.** 1353 **Mammoth Scarlet.** 1354 **Mammoth Yellow.** Each, pkt. 10 cts., ¼ oz. 25 cts.
 1358 **MAMMOTH. Mixed Colors.** Pkt. 10 cts., ¼ oz. 25 cts., oz. 75 cts.
 1360 **CURLED AND CRESTED.** A pleasing variation from the regular type, the petals being twisted, curled and crested. All colors. 2½ feet. Pkt. 10 cts., ¼ oz. 25 cts.
 1362 **ZEBRA.** Striped flowers, the colors varying on each plant. Pkt. 10 cts., ¼ oz. 25 cts.
 1363 **LILLIPUT (Pompon).** Small, double flowers of many colors. Very profuse. 1½ feet. Pkt. 10 cts., ¼ oz. 25 cts.
 1364 **HAAGEANNA fl. pl. (Mexican Zinnia).** A distinct type with small, pretty, double and semi-double flowers, which would hardly be recognized as Zinnias by those unfamiliar with the type. Of dwarf and slender growth, the plant is excellent for bedding, while the deep orange flowers are good for cutting. Pkt. 10 cts.

WILD FLOWER GARDEN MIXTURE

- 1368 A mixture of many free-blooming annuals, which, once sown, require little care, and sown in this way, almost none. In fact, with the exceptions of thinning out some plants where they grow too thickly and removing an occasional weed, the bed often looks better let alone, is more in keeping with its name, and more like some lovely spots where wild plants grow. The possibilities of this mixture are great, the different seasons of blooming insuring constant succession of flowers from early in the season until hard frost, and in the height of bloom, some new flower nearly every day. It affords a very easy and cheap way to quickly fill large areas of any unsightly place, and the results will surprise those who never saw a wild-flower garden; not only will the bed be attractive, but also will furnish many good flowers for cutting. To insure the greatest possible variety, the bed should be quite large. Pkt. 5 cts., ½ oz. 15 cts., oz. 25 cts., ¼ lb. 75 cts.

GLADIOLUS

In diversity, beauty and magnificence, no other flower which can be so easily grown and with which success is so nearly certain, can at all times compare with the Gladiolus. The range of colorings and markings is practically unlimited and especially since the introduction of the thousands of new seedlings, may the claim be made that the varieties are numberless. As a cut flower for vases, within the scope of the amateur no other flowers equal the Gladiolus in striking and effective appearance. And in lasting quality but few, if any, compare. If the spikes are cut when only the lower flowers are open they will last for a week, the upper buds opening when kept in fresh water as well or better than when left to open outdoors.

Culture.—Plant in full exposure to the sun. A light, moist soil one year from sod is the most desirable, but the Gladiolus thrives well in nearly all soils, the exception being a stiff, clayey one. While soil should be well enriched, avoid using fresh manure; use only that which is well rotted. Much the better way is to use land that was well manured the previous year, using none at the time of planting, but giving afterward one or two applications of commercial fertilizer. If possible avoid planting in the same place for three years.

If space is limited, bulbs may be planted in double rows, four inches between the rows and two inches apart in the row; they are, however, more generally planted in single rows about one foot apart, two, three or four inches deep, according to size. The first planting may be made by the middle of April and successive ones till the first of June, but for the late planting bulbs should be reserved.

AMERICA. One of the finest Gladiolus known. The plant is of vigorous growth, with luxuriant foliage and producing spikes two to three feet long.

The flowers are very large and of an exquisite shade of soft flesh-pink. **Each 8 cts., doz. 90 cts., 100 \$6.50.**

ATTRACTION. Deep, dark rich crimson, with a very conspicuous large pure white center and throat. At once a most beautiful and attractive sort. **Each 8 cts., doz. 90 cts., 100 \$6.50.**

BARON HULOT or BLUE KING. A really fine blue Gladiolus, in color a rich, royal violet blue, very effective when cut and used in conjunction with Sulphur

King or other yellow variety. **Each 10 cts., doz. \$1.00, 100 \$7.50.**

EMPRESS OF INDIA. Rich, velvety maroon with white blotch in the throat; the darkest Gladiolas. A very handsome flower. **Each, 10 cts., doz. \$1.00, 100 \$7.50.**

EUROPA. Snowy white, the finest pure white variety yet offered. Awarded certificate of merit at London, Berlin and Paris. **Each, 8 cts., doz. 90 cts., 100 \$7.50.**

FLORA. Beautiful golden yellow, large pure flowers. **Each 20 cts., doz. \$2.00.**

GOLDEN WEST. One of the best exhibition varieties on account of the variety of markings, the color being a clear orange scarlet, the lower petals striped and blotched with golden yellow faintly suffused with violet shadings. **Each 8 cts., doz. 90 cts., 100 \$6.50.**

GLORY OF HOLLAND. Very fine, white, tinted rose. **Each 8 cts., doz. 90 cts., 100 \$6.50.**

HALLEY. Delicate salmon-pink predominates, with a slight rosy tinge, lower petals have a creamy blotch, with a bright red stripe in center. **Each 8 cts., doz. 90 cts., 100 \$6.50.**

Peace

Glory of Holland

EVERYBODY KNOWS ROSS' SEED GROWS

GLADIOLUS—Continued All Gladiolus sent postpaid at prices quoted.

LOVELINESS. Rich creamy white suffused with soft rose pink; lower petals pale yellow, lines of carmine. One of the finest. Each 15 cts., doz. \$1.50.

MRS. DR. NORTON. Very large and well open flowers, well set on a tall and graceful spike, four to eight flowers in bloom at one time. Color white, the edges suffused with soft La France pink. The three lower petals have a blotch of sulphur yellow, stained at the base with fine specks of Tyrian pink. Strong and vigorous grower, and very free flowering. Each 40 cts., doz. \$3.50.

MRS. O. W. HALLADAY. Delicate soft silky pink with creamy blotch. One of the finest florist varieties. Each 25 cts., doz. \$2.50.

MRS. FRANK PENDLETON. Large open flowers of light pink with dark red blotch at throat. Flowers well set on exceedingly tall spike. A very attractive and strong growing kind. Each 10 cts., doz. \$1.00, 100 \$7.50.

MURIEL. When in full bloom, a beautiful orchid shade, with purple blotch on lower petals. Each 40 cts., doz. \$3.50.

NIAGARA. A shade of rich cream combined with canary yellow; the individual flowers are very large and are borne in pairs, one opposite the other. Each 8 cts., doz. 90 cts., 100 \$6.50.

PANAMA (Seedling of America). Long spike, color deeper pink than America, admired by all who have seen it in flower. Each 8 cts., doz. 90 cts., 100 \$6.50.

PEACE. Fine large white with wine pencilings on lower petals. Very good, strong and healthy. Each 10 cts., doz. \$1.00, 100 \$7.50.

KUNDERDI GLORY. Color delicate cream pink, each lower petal having an attractive crimson stripe through the center, each petal being ruffled and fluted. Each 10 cts., doz. \$1.00, 100 \$7.50.

LE MARSHAL FOCH. Flower is of immense size, well opened and beautifully ruffled. The color is a warm salmon pink, flaked and striped deeper salmon towards the edges of petals. It is a most unusual and striking flower, and is universally admired. Each 40 cts., doz. \$3.50.

RED EMPEROR. Very large flower of bright scarlet color. A choice red. Each 15 cts., doz. \$1.50.

SCHWABEN. Canary yellow shading to sulphur; stripes of carmine on lower petals. Blossoms large. Stalk tall and straight. Each 10 cts., doz. \$1.00, 100 \$7.50.

PRINCE OF WALES. Beautifully shaded apricot, with brush-marks of orange on a yellow-tinted throat. Perfect in form, large in size, with a good stem, and one of the first to bloom. Each 10 cts., doz. \$1.00, 100 \$7.50.

WAR. Deep blood red, shaded crimson. One of the largest and finest of the red Gladioli. Each 10 cts., doz. \$1.00, 100 \$7.50.

WHITE GIANT. Large, pure white, very tall. Each 25 cts., doz. \$2.50.

YELLOW HAMMER. Pure yellow with a little red mark in the throat. Each 10 cts., doz. \$1.00, 100 \$7.50.

Our Worcester Mixture Better than ever.

A mixture of our own preparation comprising many named varieties, selections from all classes, unsurpassed in diversity of both colors and types and in quality of flowers. Includes a good proportion of white and light shades and well balanced generally in proportion of colors. We consider this mixture the best value we offer. Doz. 60 cts., 100 \$4.50.

OUR CHOICE MIXTURE. We are making this just as good as we can for the price. It does not contain all the varieties which are included in the Worcester mixture, but it has been our purpose to make this better each year, and we know that this season it will be the best mixture that can be purchased for the price. Doz. 40 cts., 100 \$3.00.

PRIMULINUS HYBRIDS. The original of this type introduced in South Africa has been very much improved by crossing with choice garden varieties and the mixed hybrids which we offer are sure to produce some beautiful flowers. The colors are bright and varied with an undertone of yellow; from pure yellow to the deepest orange and from soft salmon pink to rich crimson. Each 5 cts., doz. 50 cts., 100 \$3.75.

America

Kunderdi Glory

Decorative Dahlias

All Dahlias sent postpaid at prices quoted.

This class includes all large, loose-flowering varieties, which do not properly belong to the Cactus class. They are of very free-blooming habit and flowers are usually of the largest size. Decorative Dahlias are large, flat, and full to the center; petals quite irregularly situated, long, broad, flat, and nearly straight.

FRANK A. WALKER. A charming shade of deep lavender pink. For garden decoration, or for cut flowers this variety is especially good, having good stems and producing flowers in great abundance. Is one of the earliest to blossom. Each 35 cts., doz. \$3.50.

JACK ROSE. Brilliant crimson-red, similar in shade to the well-known "Jack" rose. One of the best for cutting. Each 20 cts., doz. \$2.00.

JEANNE CHARMET. A pleasing shade of violet-rose on a lighter ground. A splendid flower for cutting. Each 40 cts., doz. \$4.00.

LE GRAND MANITOU. Large decorative variety; white, more or less striped with violet red. Each 40 cts., doz. \$4.00.

LYNDHURST. Fiery scarlet, very free bloomer. Each 20 cts., doz. \$2.00.

MADONNA. Large white, with delicate blending of lavender-pink. Long stems; one of the best cut-flower variety. Each 35 cts., doz. \$3.50.

MINA BURGLE. Beautiful deep glowing crimson, finest crimson variety in existence; good for cut-flower purposes, having long stems, and being extra free-flowering. Each 35 cts., doz. \$3.50.

MINOS. One of the finest Dahlias to date. The flowers are 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. Each 20 cts., doz. \$2.00.

MME. VAN DEN DAELE. A grand Dahlia of highest decorative type. Flowers large, of extra fine form, and produced upon exceptionally

good stems, well above the foliage. As a cut-flower variety it is unsurpassed. The color, white, deeply edged live silvery-pink. A Dahlia which bears our highest recommendations.

Each 35 cts., doz. \$3.50.

W. W. Rawson

MIXED DAHLIAS

Postpaid, \$1.25 per doz.; by express, \$1.10 per doz.; \$7.50 per 100.

These include some of our best varieties, those of which labels have been lost, and at times, varieties of which we have a surplus. While all classes are usually included, we give no guarantee that any lot sent out will include all, nor should it be understood that the customer is privileged to order those of any one class. We shall, however, send a good assortment of colors, and are sure the mixture will be found very satisfactory.

MRS. DE LUCA

SOUVENIR DE GUSTAVE DOUZON. It is the largest Dahlia in existence. 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 Douzon" should be in every garden. Each 30 cts., doz. \$3.00.

W. W. RAWSON. The popularity which this novelty has acquired in the short time it has been on the market, speaks for itself for the superior feature of this flower. The petals towards the center are quilled similar to the "Grand Duke Alexis"; toward the outer part they are more open and flat. The color is pure white, overlaid with amethyst-blue. This wonderful combination gives it the appearance of a delicate lavender. The flowers measure from 7 to 9 inches in diameter. See illustration. Each 40 cts., doz. \$4.00.

WM. MILLER. Very brilliant purple. This is a fine variety of the decorative type. Each 20 cts., doz. \$2.00.

YELLOW COLOSSE. An ideal Dahlia that appeals to everyone on account of its distinct color, gigantic size and beautiful appearance. This magnificent variety is the best exhibition yellow in existence, being rich, refined and delicate. Large, showy flowers of pure primrose-yellow are produced very freely on long, graceful stems. Its golden cup-shaped petals are daintily arranged, completing this beautiful, perfect flower. Each 50 cts., doz. \$5.00.

POMPON OR BOUQUET DAHLIAS

20 cts each, \$2.00 per dozen.

Small-flowered varieties; the best of all for cutting, blooming more freely and usually having extra-long stems. The flowers are of the same form as the Show Dahlia.

AMBER QUEEN. Rich, clear amber, shaded apricot, extra free-flowering; one of the very best.

DARKEST OF ALL. Nearly black, fine form, free.

JESSICA. Yellow, edged red; a very effective combination.

SNOW CLAD. Small white. Free.

SAN TOY. White, very heavily tipped carmine.

SUNBEAM. Crimson-scarlet, extra fine, one of the best.

EVERYBODY KNOWS ROSS' SEED GROWS

PEONY-FLOWERED DAHLIAS

All Dahlias are sent postpaid at prices quoted. If desired by express, 10 cts. may be deducted from dozen prices.

Never before has a new type of flower been received with so much popular acclaim as has been accorded the Peony-flowered Dahlia. This new type was originated a few years ago in Holland and is today the Dahlia of the future because of its grace and beauty, remarkable freedom to flower and length of stems, all of which combine to make it an ideal garden variety.

CAECILIA. Large creamy-white; or undoubtedly pale lemon-yellow would describe it better. Each 35 cts., doz. \$3.50.

DR. PEARY. Dark velvety mahogany. The darkest of all Award of merit. Each 60 cts., doz. \$6.00.

JOHN GREEN. The coloring is exceptionally attractive and intensely brilliant, the center being a clear golden yellow, which quickly changes to fiery scarlet. Each 40 cts., doz. \$4.00.

LA RIANTE. The finest sort for mass effect or hedges; plants grow 3½ feet high and their flowers are borne on enormously long stems, in clusters from 2 to 4, far away from the foliage; color a deep pink. Each 25 cts., doz. \$2.50.

MRS. BOWEN TUFTS. Gigantic deep rosy purple, the best purple. Each 35 cts., doz. \$3.50.

MRS. M. W. CROWELL. A remarkably sturdy variety of perfect habit. Color, a beautiful orange-yellow. Very free-flowering. 25 cts. each, dozen \$2.50.

QUEEN EMMA. Soft lavender-pink; of refined form and good keeper. Each 25 cts., doz. \$2.50.

QUEEN WILHELMINA. The most satisfactory pure white flower; the petals are elegantly twisted and are of glistening white; the plant is extremely free blooming and makes a splendid companion for "La Riante" as a hedge plant. Each 40 cts., doz. \$4.00.

CACTUS DAHLIAS, CHOICE STANDARD VARIETIES

This class is of comparatively recent introduction, and is entirely distinct from any other class. The flowers are loosely and artistically formed, and very irregular, resembling the Chrysanthemums. Petals long, twisted, and terminating in a point. Some varieties possess nearly straight petals, others are gracefully incurved.

ALIGHT. Rich deep orange-scarlet, very large, free. Each 25 cts., doz. \$2.50.

BORNEMANN'S LIEBLING. Delicate soft rose-pink. Each 25 cts., doz. \$2.50.

COUNTLESS OF LONSDALE. Deep salmon-red. One of the best. Very free. Should be in every garden. Each 25 cts., doz. \$2.50.

EUREKA. This variety has all the good qualities of the Dahlia, being properly named. Color, very deep purple. Petals long, straight and tightly quilled. Each 25 cts., doz. \$2.50.

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. Each 25 cts., doz. \$2.50.

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. Each 25 cts., doz. \$2.50.

KALIF. A monster Cactus of perfect form. Color is a rich, pure scarlet. The large flowers are borne on long, stiff stems, and are held erect. A most satisfactory variety. 5 feet. Each \$1.00, doz. \$10.00.

KRIEMHILDE. The Queen of the Cactus Dahlias; flesh delicate pink, shading to white in the center; very late flowering. Each 25 cts., doz. \$2.50.

MRS. DE LUCA. Golden yellow, tipped with orange. A most effective blending of colors, seen only in the very rare types. The plants are tall, sturdy, of exceptionally good habit, and produce their flowers in great quantities, upon very long, straight stems. Very early flowering. Each 25 cts., doz. \$2.50.

STERN. Bright primrose-yellow. The flowers are large, petals long and pointed. One of the most satisfactory varieties. Each 30 cts., doz. \$3.00.

TUSTU. One of the most beautiful to date. The color is perfectly gorgeous, a beautiful velvety maroon. The petals are very long, tightly quilled and arranged in exact regularity, completing an acquisition which we can highly recommend. Each 50 cts., doz. \$5.00.

SHOW AND FANCY DAHLIAS

Show Dahlias—These are large, spherical, regular, compact and full to the center. The flowers are either solid, edged, tipped or shaded darker.

Fancy Dahlias—In form and habit identical with the Show Dahlias, but different in arrangement of colors. The flowers are tipped or edged lighter than the ground color, or splashed, striped, mottled and variegated, in every conceivable manner. They often throw a solid flower on the same plant.

A. D. LIVONI. Beautiful soft pink. Well formed flowers with long stems. Very desirable for cutting. A very reliable old standard variety, grown by most every dahlia-lover. Perfectly round, ball-shaped flowers, each petal being very tightly quilled, and arranged in exact regularity. Free flowering. Each 30 cts., doz. \$3.00.

ACQUISITION. An exquisite shade of deep lilac. Very large with cup-like petals. Especially good for cut-flower purposes. Each 20 cts., doz. \$2.00.

AUGUS MEGAR. The largest and finest shaped lavender-purple Show Dahlia to our knowledge; tall and sturdy. Each 50 cts., doz. \$5.00.

DIAMANT. Pure white. Each 25 cts., doz. \$2.50.

DOROTHY PEACOCK. Beautiful clear live pink, blending to soft shell pink, good florist's Dahlia. Each 50 cts., doz. \$5.00.

Peony Flowered Dahlia

EMPRESS OF AUSTRALIA. A very reliable variety. The color is pure yellow, slightly tipped a reddish-brown. Of good size and habit; free bloomer. Each 20 cts., doz. \$2.00.

GLADIATEUR. Clear violet shaded blue; a splendid new exhibition variety. Each 25 cts., doz. \$2.50.

GRAND DUCHESS MARIE. Rich buff overlaid orange; reverse of petals slightly edged pink. Each 30 cts., doz. \$3.00.

GOLDEN AGE. Sulphur yellow. Each 25 cts., doz. \$2.50.

IMPERIAL. Deep purplish-maroon, one of the best. Each 25 cts., doz. \$2.50.

LUCY FAWCETT. Pale yellow, striped deep pink, or light magenta, one of the best of this set. Very large and free. Each 25 cts., doz. \$2.50.

MAUDE ADAMS. The color is a pure, snowy white, very effectively overlaid clear delicate pink. This wonderful variety is unsurpassed in quality in every respect, in reality a model of perfection. We highly recommend this variety. Each 50 cts., doz. \$5.00.

MERLIN. A beautiful orange-scarlet. One of the finest dahlias ever offered. Free-flowering and good for cut-flower purposes. Each 25 cts., doz. \$2.50.

MISS HELEN HOLLIS. A sensational wonder; undoubtedly the largest and finest deep scarlet Show Dahlia in existence. The blossoms are carried on long, stiff stems, well above the foliage. The plant is extremely sturdy, and produces a very luxuriant foliage. This acquisition can be highly recommended. Each 50 cts., doz. \$5.00.

VIVIAN. White, effectively edged rose-violet. One of the largest and finest to date. Each 20 cts., doz. \$2.00.

ROBERT BROOMFIELD. Pure white. Tall grower. Each 20 cts., doz. \$2.00.

STRADELLA. Beautiful deep, purple-crimson. Exceptionally free flowering. Stems long and wiry. One of the finest to date. Each 20 cts., doz. \$2.00.

STORM KING. The most reliable White Show Dahlia to our knowledge; pure white, flowers produced freely upon long stems, well above the foliage. Each 25 cts., doz. \$2.50.

YELLOW KING HUMBERT

Best Quality Cannas

Dormant roots of the varieties listed below until May 1st only—unless otherwise noted. Each 20 cts., 3 for 50 cts., doz. \$1.75 postpaid.

For a brilliant show all summer there is no plant excelling the Canna; it even surpasses the Geranium in its gorgeous display of brilliant colors, blooming continuously from the time of planting until cut down by frost. Plant 18 inches apart each way.

BRANDYWINE. Foliage luxuriant and of the darkest hue. Flowers large, intense, wine-red, beautifully mottled with deep crimson; two or three petals sometimes narrowly edged with bright gold. 4 to 5 feet high.

FLORENCE VAUGHN. Yellow, spotted with red. One of the best. Green foliage. 4 feet high.

THE PRESIDENT. Height 4 feet. In color, a rich, glowing scarlet and the immense, firm rounded flowers, 7 inches across when open, are produced on strong, erect stalks well above the large, rich green foliage.

Each 35 cts., doz. \$2.75.

YELLOW KING HUMBERT. A sport of that most popular of all Cannas, King Humbert, producing larger flowers of a beautiful shade of yellow, lightly spotted red, with green foliage, five and six clusters of flowers at a time.

WYOMING. Might be called King of the Giants, for it is one of the most majestic, with the double attraction of having a luxuriant growth of rich purple foliage. Above this are borne great plumes of massive orange-colored blossoms, true orchid-shaped with large rounded petals.

TUBEROSE

Bulbs may be started in the house for early flowers, or they may be planted in the open border, but not earlier than June in this latitude.

EXCELSIOR DWARF PEARL. Improved strain; plant of dwarf habit, blooms earlier and flowers are more double than old strain. Extra large bulbs, postpaid, 15 cts. each, 4 for 50 cts., doz. \$1.40.

CINNAMON VINE

A beautiful hardy climber of extremely rapid growth, growing the first season from 15 to 30 feet and, when the root becomes fully established, to a much greater length. The leaves are green, with tinge of bronze and are very attractive. The flowers are white, borne in clusters, and of no great beauty, but of a delightful cinnamon-like fragrance. The vine dies at the end of the season, but the root is hardy, living for years and increasing in size and vigor each season. Postpaid, extra-large roots, each 10 cts., 3 for 25 cts., doz. 90 cts.

MADEIRA VINE

A rapid-growing climber with beautiful, thick, glossy, wax-like leaves and bearing profusely in graceful feathery racemes, white flowers which have a fragrance resembling mignonette. Plant when ground becomes warm. Store tubers in a cold, dry place during winter. Postpaid, each 10 cts., doz. 90 cts.

ROSES

The following are all two-year field grown plants and we guarantee our customers satisfaction. These plants will be forwarded direct from the nursery by express, purchaser paying transportation charges.

Two-year field grown plants, \$1.00 each; \$8.50 per ten.

If we are out of the variety ordered we shall select the variety most nearly approaching the color of the desired sort UNLESS OTHERWISE SPECIFIED.

HYBRID PERPETUAL

CRESTED MOSS—Red Moss Rose.

FRAU KARL DRUSCHKI—Large. Pure white.

GEN. JAQUEMINOT—Brilliant crimson.

MARGARET DICKSON—Large, white, pale flesh center.

MME. GABRIEL LUIZET—Silvery pink.

M. P. WILDER—Large, carmine. Fragrant.

PERSIAN YELLOW—Yellow.

PRINCE CAMILLE DE ROHAN—Dark red.

ULRICH BRUNNER—Brilliant crimson red.

HYBRID TEA ROSES

JULIET—Outside gold, inside rich rosy red.

KAISERIN AUGUSTA VICTORIA—Cream white. Fragrant.

LA FRANCE—Silvery pink, fragrant.

MME. ED. HERRIOTT—Coral red, shaded red and scarlet.

MME. CAROLINE TESTOUT—Large. Double. Pink.

POLYANTHUS ROSES

\$1.00 each; \$8.00 per ten.

CATHERINE ZEIMET—White.

BABY RAMBLER—Red.

JESSIE—Cherry red.

CLIMBING AND TRAILING ROSES

Two-year field-grown plants, 75 cents each; \$6.00 per ten.

CRIMSON RAMBLER—Crimson.

DOROTHY PERKINS—Double. Pink.

SILVER MOON—Silvery pink; yellow stamens.

TAUSENSCHON—Large. Pink and white. Fragrant.

WHITE DOROTHY—White.

YELLOW RAMBLER—Yellow.

EVERYBODY KNOWS ROSS SEED GROWS

FERTILIZER AND FERTILIZING MATERIALS

This is one of our specialties and we can furnish either ready mixed or unmixed goods for all purposes. Parties wishing for larger quantities than are quoted are requested to write for special price. We can make you very low price on carload of mixed goods, also on Canada Hardwood Ashes, Bone, Lime, Nitrate of Soda and Sulphate of Ammonia. Where we can save the expense of handling and storing this material and can sell on a cash and carry basis, we can compete with anyone selling similar goods.

ROSS BROS. CO.'S HIGH GRADE POTATO AND ONION FERTILIZER

This is a strictly high grade fertilizer designed for potatoes, vegetables, onions, etc. Can be used without the aid of stable manure.

Guaranteed Analysis:

Ammonia	4%
Total Phos. Acid.....	8%
Potash	4%

Price: Per 100 lbs. \$3.50.

ROSS BROS. CO.'S CORN, GRAIN AND GRASS FERTILIZER

A high grade fertilizer, especially recommended for corn, also for seeding to grass and grain.

Guaranteed Analysis:

Ammonia	3½%
Total Phos. Acid.....	8%
Potash	1%

Price: Per 100 lbs. \$3.00

ROSS BROS. CO.'S LAWN GRASS TOP DRESSING

Especially adapted for top dressing to grass and can be used to seed grain where more Potash is handled. We also recommend it as being by far the best lawn fertilizer on the market, not only as a fertilizer but an insecticide as well, as every bag contains tobacco dust, which will drive the grubs and other injurious insects from your lawn.

Guaranteed Analysis:

Ammonia	3½%
Total Phos. Acid.....	8%
Potash	3%

Price: Per 25 lbs. \$1.00, Per 50 lbs. \$1.75, Per 100 lbs. \$3.25.

ROSS BROS. CO.'S HOME GARDEN FERTILIZER

A low priced fertilizer designed for the home garden. Can be used either with or without stable manure.

Guaranteed Analysis:

Ammonia	2%
Total Phos. Acid.....	8%

Price: Per 25 lbs. 85 cts., Per 50 lbs. \$1.35, Per 100 lbs. \$2.50.

AGRICULTURAL LIME. The agricultural colleges have been experimenting for some time to ascertain the influence lime has upon the soil when used with different crops, and the results show beyond all doubt, that a large majority of our common vegetables need lime. This is especially true in regard to asparagus, beets, spinach, squash, lettuce, and onions. Lime should be applied at the rate of one ton per acre. Price: Per bag 109 lbs. \$1.25.

PLAIN SUPERPHOSPHATE. 16 per cent soluble and available phosphoric acid. In 200-lb. bags. Prices: Per ton \$28.00, 200-lb. bag \$3.00.

PLASTER—Benjamin Franklin Agric. Gypsum (Land Plaster). Plaster plays a very important part in the proper fertilization of the land. The ideal way to use Agricultural Gypsum is with manure, for in this way the Agricultural Gypsum serves the double purpose of preserving the nitrogen in the manure and directly supplying sulphate sulphur to the land. Price: Per bag (80 lbs.) \$1.25.

NITRATE OF SODA. Imported from Chile. It usually contains 96 per cent nitrate of soda and above 19 per cent ammonia. It should be used with caution for top dressing and pasture, also for forcing garden crops, such as Spinach, Tomatoes, etc. Price: 5 lbs. 50 cts., 25 lbs. \$1.50, 100 lbs. \$4.50.

FINE GROUND BONE. 3 to 4 per cent ammonia, 22.80 to 25.33 per cent phosphoric acid. In 200-lb. bags. 100 lbs. \$3.00.

TOBACCO DUST. Fine, ground; for greenhouse use this is one of the best articles for dusting all kinds of plants that are affected with insects of any kind. Lb. 25 cts., per bag 100 lbs. \$3.50.

FUMIGATING TOBACCO. Price: 100 lbs. \$4.50.

DRY GROUND FISH. 9 to 10 per cent ammonia, 25 to 30 per cent bone phosphate. 100 lbs. \$5.00, ton \$95.00.

CANADA HARDWOOD ASHES. Analysis: Potash, 3 to 5 per cent; Phos. Acid, 1 to 3 per cent; Lime, 30 to 40 per cent; moisture, 12 per cent. We handle these in large quantities and can quote carload price delivered at any freight station in New England f. o. b. Worcester. 100 lbs. \$1.85. Per ton \$32.50. Car lots in bulk delivered at all through points, \$22.50 ton.

TOBACCO STEMS. Used for fumigating, also used by some as a top dressing for fertilizer. We can furnish these in any quantity, even to carload lots. Prices: 5 lbs. 50 cts., 100 lbs. \$5.00.

Buyers of ton lots or over ask for prices.

GROZ-IT BRAND PULVERIZED SHEEP MANURE

For Market Gardeners and Specially Recommended for Lawns.

Ordinary manure, which is so necessary to plant life, has many objectionable features, when used close to the dwelling. It is unsightly, has a disagreeable odor, draws flies and insects, likewise it is too bulky to be used to the best advantage.

In its place, we offer you a highly concentrated pulverized, natural animal manure, packed in sacks, light, dry, odorless, free from seeds and all foreign matter, with a plant food value many times that of ordinary manure.

Is excellent for Golf Greens, for flower beds and especially for fertilizing trees of all kinds, for composting for window boxes and also good for the home garden.

We sold several hundred tons of this material this past season to some of our largest market gardeners and to manufacturers for shop gardens and it gave perfect satisfaction. It is fast taking the place of commercial fertilizer, as it is a safe and sure fertilizer for all crops.

Will not burn your plants, no matter in what quantities you use it, but is highly concentrated and safe for anyone to use. Can be used safely at the rate of 50 lbs. per 1,000 sq. ft., or as a general fertilizer for all crops from 1,000 to 2,000 lbs. per acre. It makes the richest and safest liquid manure, using 1 lb. to 5 gallons of water.

GUARANTEED ANALYSIS

Nitrogen	1.84	Available Phosphoric Acid.....	.75
Ammonia	2.25	Total Phosphoric Acid.....	1.25
Water Soluble Potash K2O.....	3.00		

Prices: 12½-lb. bag 50 cts., 25-lb. bag 90 cts., 50-lb. bag \$1.65, 100-lb. bag \$3.00, ton (2000 lbs.) \$50.00.
Special prices in larger quantities.

All prices in this catalogue are based on the supposition that we get cash with the order. Parties wishing to buy goods on credit, but have never had an open account with us, will avoid delay if they furnish with the order bank references.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Farm Machinery

Fig. 1

THE INTERNATIONAL 8-16 H. P. KEROSENE TRACTOR

A horse consumes when it is not working, a motor ceases to consume when it stops working, and as a tractor will do the work of several horses, the expense of plowing, harrowing and harvesting, is much less by motor power than by horse power. For oftentimes one, two or three days' work with the tractor will do all the work that is necessary at that particular season and as soon as it is run under cover the expense stops, while horses keep consuming not only six days in the week but seven.

This tractor is not only built for field work, but it is also built for belt work for operating any stationary machinery, such as cutting ensilage, threshing, sawing wood, or any other farm work where power of any kind is required.

What You Get When You Buy An International Tractor

A real tractor complete with 18-inch wheel guards, pulley, governor and brake. When compared with other cheap tractors, with all this equipment, you will find there is practically no difference in price.

P & O LITTLE GENIUS TRACTOR PLOW, TWO-FURROW

The power for raising and lowering the bottoms is supplied by the land wheel. Only one short jerk of the rope is necessary to engage this lever and lift the plows. When the plows are in the ground the levers set ahead within easy reach of the operator and when the plows are raised the levers swing back and do not interfere with the tractor when a turn is being made. When necessary the bottoms can be easily raised by hand regardless of the depth at which the plow is working. The hitch is adjustable by a pin and can be adjusted to suit any make of tractor—is very rigid and the locking device controls the action of the rear wheel permitting the plow to be backed. There is a good clearance between the bottoms, which enables the plow to work in the trashiest ground and to cover well in deep plowing. The rolling coulters are made of the finest grade of coulters steel, carefully ground and polished and set in cone bearings, and can be taken out for adjustment. The beams are of heavy high-carbon I-beam steel, securely braced, with a hard steel moldboard and solid steel quick detachable share.

Weight, Two-Furrow 24", 945 lbs. Price.....\$113.75
Weight, Three-Furrow 36", 1195 lbs. Price..... 146.00
5% Discount for Cash.

Fig. 2

Fig. 3

CUTAWAY DOUBLE ACTION LIGHT TRACTOR HARROWS

For the light tractors which are now becoming so popular a smaller size harrow is required and it is not necessary that it shall be so heavy. At the same time it must be a real tractor harrow and not a horse harrow. The Cutaway Light Tractor Harrow, takes advantage of every feature of the larger machine. At the same time it is built very much lighter. Its weight and construction are such that it exactly meets the requirements of the light tractors and it has proven an absolute success.

The Cutaway (Clark) Tractor Harrows are equipped with dust-proof, oil-soaked hardwood bearings.

X-7 29 18-in. Disc. 7½ ft. cut, 965 lbs.....\$122.50
5% Discount for Cash.

CUTAWAY BUSH AND BOG PLOW

As shown in the illustration, this machine is a big, heavy disc plow or harrow, weighing 680 pounds. It is equipped with extra heavy 24-inch discs. The bearings are dustproof oil-soaked hardwood, perfectly lubricated. It is built very strong throughout and stands up under work that would totally wreck other machines. For cutting brush land and cut-over timber land, for plowing bogs, or for doing any extraordinary hard plowing and discing.

Price, 8-24 in. discs, 5 ft. cut 4 horse hitch, \$92.00; Junior, 8-20 in. discs, 4½ ft. cut, 2 horse hitch, \$61.00. 5% discount for cash.

Fig. 4

Fig. 5

INTERNATIONAL CULTI-PACKER THREE TOOLS IN ONE

This is one of the best built machines that ever helped the farmer to get a bumper-crop. The frame is made of heavy angle steel bars, bolted fast. Two Channel steel bars run diagonally from the tongue across the frame. It takes the place of the old roller. This is not only a clod crusher, but a pulverizer, picker and cultivator. This machine is practically indestructible and will last a lifetime.

Length 54 inches, weight 560 lbs.
Price\$58.00
98 inches, weight 1,028 lbs. Price..... 92.75
Without forecarriage deduct..... 7.50
Discount for Cash, 5%.

EVERYBODY KNOWS ROSS' SEED GROWS

P & O (International) TWO-WAY SUCCESS SULKY PLOW

Fig. 6

The Two-Way P. & O. Sulky has all the conveniences for an ideal New England Plow. It is built to work on hillside or irregular shaped fields, in fact, any place that a plow is to be used.

TURNS ALL FURROWS THE SAME WAY—LEAVES NO DEAD FURROWS

The Two-Way Success has a right and left hand bottom. Instead of plowing around a land, it plows on the same side all the time, using the right hand bottom one way and left hand bottom returning. This method leaves the land in a "solid body," eliminating dead and back-furrows. It is therefore the proper plow for hillsides, irrigated fields, and irregular fields, though it is equally efficient as a general purpose sulky. Another advantage is that the two outside horses, when using three, "take turns" walking in the furrow and on the land, which rests them.

EASY TO OPERATE

The two main levers regulate the depth. They are easy to reach, and have right-angle hand grips, which are more convenient than the ordinary grips. The bottoms are raised by ratchets on the wheels, the only effort required by the operator being a slight pressure on the foot-trips, which causes a "dog" to engage the ratchet when the horses raise the bottom. A bottom is lowered by throwing its lever backward until the desired depth is reached.

HITCH

The plow is regularly set for two horses, but can be quickly set for using three or four horses, either abreast or tandem. As a bottom is lowered, the hitch automatically shifts. The dial feature gives ample lateral and vertical adjustment. A draft link from the hitch to the beam places the draft directly on the beam, so none of the plowing strain is thrown on the plow frame.

BOTTOM EQUIPMENT

12, 14 or 16-inch bottoms, either all steel, all chilled or any combination as ordered. Shares are the P. & O. quick-detachable. The rolling coulters are 13-inch and have "take-up" cone bearings. Jointers or Knife Cutters can be furnished instead of coulters. Or purchaser may have combined coulters and jointers at a slight additional cost.

Price with 2—two 12-inch bottom and two horse hitch, \$92.00 5 % Discount for Cash.

The Wiard (New Model) Reversible or Two-Way, Power Lift Sulky Plow (Lift and Trip Operated by Hand or Foot), with Shifting Pole, Automatic Shifting Clevis and Adjustable Tilting Seat and Steel Wheels.

No. 400—Two- or Three-Horse—Weight 550 lbs.

The Double Sulky can be fitted with the following bottoms: Cut 5 to 8 in. deep, 11 to 15 in. wide with chilled or steel moldboards.

As shown in the illustration, there are two plows, one right and one left hand, each operated by separate levers and having AN AUTOMATIC POWER LIFT which can be operated by the driver from the seat either by the use of a trip lever operated by the foot, or by a hand lever which can be operated by the driver either when riding or walking. The plows have the highest grade chilled iron or soft-center steel moldboards, and either forged steel or cast iron points as ordered, and can be fitted with jointer, plain coulters or rolling coulters, as desired.

This Sulky is adapted to all soils, leaving no ridges or dead furrows and does perfect work on either level land or side hill.

It is very simple, easy to handle and is lightly constructed, the material used being mostly steel and malleable iron, making it very strong and durable.

PRICE, \$87.50 5 % Discount for Cash

Fig. 7

CHATTANOOGA HILLSIDE PLOWS

All sizes are made on trussed beam chilled share, one extra share shipped with each plow. Furnished in four sizes as follows:

No.	Description	Depth	Capacity	Width	Weight	Price
207	1-horse	4"		9" with wheel	55 lbs.	\$18.00
208	2-horse, light	5"		10" with wheel	65 lbs.	15.00
209	2-horse, regular	6"		12" with wheel and jointer	105 lbs.	26.75
210	2-horse, heavy	7"		14" with wheel and jointer	132 lbs.	36.00

5 % Discount for Cash

Nos. 207, 208 and 209 come regularly equipped with solid steel moldboards. A hard steel board can be furnished on special orders.

The beam is made of two flat steel bars, trussed together in such a way as to form a beam that is both light and strong. The beam and handles are long, giving good leverage, both while plowing and when reversing the bottom.

Chattanooga No. 208
Fig. No. 8

No. 21 WIARD PLOW

Wood Beam, One-Horse

No.	Size	Capacity	Weight with Clevis
21	One-horse	4 to 7 inches deep, 6 to 10 inches wide	77 lbs.

By an ingenious but simple clevis attached to these Plows they can be used with horse walking in the furrow, a great convenience for garden and vineyard work; or the No. 21 can be used for two horses when an exceedingly light Two-horse Swivel Plow is wanted.

The No. 21 is made with cast-iron moldboard.....\$15.50
With steel moldboard.....16.75

5 % Discount for Cash

Send for our special Poultry Catalogue.

Fig. 9

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

No. 130X WITH NEW AUTOMATIC ADJUSTABLE COLTER AND ADJUSTABLE CLEVIS

No.	Size	Capacity	Weight with Clevis	Price
130X	Light two-horse	5" to 8" deep, 10" to 13" wide	104 lbs.	\$24.75

Specifications and Description
Beam—White oak, selected stock.
Moldboard—Cast iron; add for steel moldboard \$2.00.
Shoe—Cast iron, a good length, chilled on bottom.
Colter—Adjustable steel blade, automatically shifted when moldboard is reversed.
Wheel and Standard—Rigid, with malleable standard, wheel runs under beam.
Clevis—Plain or adjustable, operated by lever between handles.
Points—Plain or stony, cast iron steel-edged marsh or forged steel.
Finish—Iron work, except polished surfaces, painted green, striped and varnished. Wood-work natural finish, two coats oil and varnish.

Fig. 10

No. 140 MEDIUM TWO-HORSE PLOW

Weight 135 lbs. \$25.25
 5% discount for cash
 For steel board add \$2.00

Fig. 11

Two-Horse Pat. Steel Beam Wiard Right Hand. Fitted with Jointer or Steel Knife Colter as ordered

No.	Size	Capacity	Weight with Clevis
43	Two-horse	1 to 7 in. deep, 9 to 13 in. wide	120 lbs.
44	Two-three-horse	5 to 8 in. deep, 11 to 15 in. wide	130 lbs.

Cast iron points for this series of Plows are made in the following styles: Plain, pitch, stony, slip nose and cutter. Also for the Nos. 43 and 44 an extra wide (13 inch) plain cast point is made. Forged steel points are furnished for all sizes and a Special Alfalfa Point.

No. 43.	With chilled moldboard Jointer and Colter and Wheel.....	\$24.00
	Same with steel board.....	25.85
No. 44.	With chilled board wheel and Colter or Jointer.....	25.00
	Same with steel board.....	27.00

5% discount for cash.

No. 67 WIARD PAVEMENT OR ROOTER PLOW

No.	Size	Weight with Clevis
67	Four- or six-horse	250 lbs.

This Plow has great strength and is adapted to contractors' work and for tearing up cobblestones or macadam pavements.

The Beam is made of cast Crucible Steel. The tendency to wear off the lower front end of the Beam in this class of Plows is entirely overcome by a separate shoe casting attached to the beam at this point, which can be replaced at slight expense when worn; this often saves the cost of the beam. In ordering always specify kind of Beam wanted.

The point is 32 inches in length and one inch thick, and is made from the best quality of forged steel. It is wedged shape and pointed at both ends. The Point can be extended when it becomes worn by removing the bolts and adjusting towards the front. It can also be reversed end for end, making a point that has strength, durability and great wearing qualities. It can be forged or drawn by any blacksmith.

The Handles are made of steel, strongly braced, being a new departure, as heretofore handles for this style of Plow have been made of wood and were easily broken.

The Construction of this Plow throughout is iron and steel, and it is made to stand the wear and tear to which this style of Plow is subjected. This Plow, together with either of our Contractors' or Road Plows, makes a pair that is unsurpassed for this class of work.

Price, \$57.50. Discount for cash, 5%.

Fig. 12

No. 120 MEDIUM TWO-HORSE WIARD PLOW

No.	Size	Capacity	Weight with Clevis	Price
120	Light two-horse	5 to 8 in. deep, 10 to 13 in. wide	118 lbs.	\$28.85
126	Heavy two-horse	5 to 8 in. deep, 12 to 15 in. wide	139 lbs.	30.50
127	One-horse	4 to 7 in. deep, 8 to 12 in. wide	100 lbs.	24.75

Specifications and Description
Beam—Forged steel, two pieces.
Moldboard—Cast iron or soft-center steel, highly polished. Add for steel moldboard \$1.75.
Shoe—Cast iron, chilled on bottom.
Jointer—Adjustable, automatically shifted when moldboard is reversed.
Colter—Adjustable, automatically shifted when moldboard is reversed.
Wheel and Standard—Wheel can be run under beam or at side.
Clevis—Plain or adjustable, operated by lever between handles.
Points—Plain and stony, cast iron.
Finish—Ironwork painted green, striped and varnished.

Fig. 13

No. 69 (ALL STEEL) CONTRACTORS' PLOW

This Plow is intended for use with either animal power, a traction engine or road roller. Weight with clevis 315 lbs.

DESCRIPTION

Beam—One solid piece of cast steel.
Point—One solid bar of forged steel, 33 inches long and 1 1/4 inches thick, and is reversible (giving double wear). This is same point that is used on our No. 68 plow.
Moldboard—A heavy plate of steel, made extra thick at places where most wear comes.
Handles—All steel (Patented). They have the strength and will stand the racket, and don't break or bend.
Clevis—Forged steel, made to wear and stand the strain.
Price, \$61.75. 5% discount for cash.

Fig. 15

EVERYBODY KNOWS ROSS' SEED GROWS

CLARK'S ONE-HORSE CUTAWAY HARROW

Fig. 17½

This harrow is especially adapted to the needs of small farmers and fruit growers. It has ten 14-inch cut-out steel discs. A six Disc Harrow is not practical on account of the width. This Harrow cuts 4 feet and overcomes that difficulty.

No. of Machine	No. of Discs	Diam. of Discs
*O-5	10	14
Width of Cut	Hitch	Shipping Weight
4 ft.	1-H	169
	Price	
	\$29.00	

5 per cent discount for cash

CLARK ONE HORSE CUTAWAY HARROW WITH SHIFTING LEVERS

A-4 Single Acting Harrow 8 16-in. discs 4 ft. cut, fitted with shafts for one horse and two shifting levers. This harrow is an improvement over the 05 which does not have the levers and also has 16 inch instead of 14 inch discs. We think it is well worth the difference in price. Weight 245 lbs. Price \$37.50.

Fig. 17

5 per cent discount for cash.

CLARK REVERSIBLE SINGLE ACTION CUT-AWAY HARROW

All Cutaway Single Action Harrows are reversible. If you will observe the illustration you will see that the "dish" of the discs is out, and consequently the soil is moved outwardly. To reverse this harrow, you simply disconnect the lever links from the gang frames and swing the gangs around on the king bolts until what were formerly the outer discs become the inner discs, and reconnect the links. In this latter position the discs will throw the soil inwardly.

Like those on all other Cutaway implements, the discs on this harrow are the famous Clark cutlery steel discs, forged sharp. This feature partly accounts for the remarkably long service always given by Cutaway disc implements.

No. of Machine	No. of Discs	Diam. of Discs	Width of Cut	Hitch	Shipping Weight	Price
A-6	12	16	6 ft.	2-H	315	\$46.00

5 per cent discount for cash

Fig. 18

WOOD WHEEL FARM TRUCK

A handy farm truck with low wood wheels. Can be used for logging or any other farm work. This truck has extra long, well braced rear hounds and wood front hounds, fitted with a heavy cast reach plate. The axles and bolsters are made of hardwood, either oak, hard maple, or rock elm. The bolster stakes are mortised into the bolster, are ringed for tying or binding, and all are well ironed. The wheels are of the best French and Hecht with grooved tires, 9-16 in. spokes. The wood work is painted red with black striping and green wheels. Price, Monarch Truck with 36 and 40 inch wood wheels, \$70.

Fig. 24½

DOE CAST IRON PLOW

A good general purpose plow, designed for all kinds of garden work. Wood beam, cast moldboard and point.

	Plain	Wheel
E 0 Med. 1-horse..	\$ 8.50	
E 1 Large 1-horse..	9.50	and
E 2 Light 2-horse..	11.00	Cutter
E 3 Med. 2-horse..	12.00	\$16.00
E 4 2 or 3-horse..	15.00	19.00

5 per cent discount for cash.

Fig. 20

SHOVEL PLOW

Very handy for furrowing out rows and for hilling up. All parts strong and well braced and very durable.

Fig. 22

Price \$5.00

5 per cent discount for cash.

THE WEBER WAGON FOR ONE OR TWO HORSES

Fig. 24

Made by the International Harvester Co. The Weber is as good a wagon as can be built.

Has patented fifth wheel. Has 56-inch Auto tread following the ruts made by Auto; this making it run easier. Has first quality construction; made of the best oak and hickory, in every gear, put together by expert workmen, combine to produce a wagon that has no equal in the market today. Mere price could not buy a better wagon than the Weber because no better material is available than is found in these wagons. Ironing is heavy and thorough.

	Capacity	Price
2-Horse with Body and Seat.....	5000 lbs.	\$175.00
1-Horse with Body, Seat, Steel Axles.....	1750 lbs.	110.00

5 per cent discount for cash.

See page 96 for all kinds of farm books.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

P & O POTATO DIGGER

Fig. 25

A good practical potato digger at a reasonable price. By the use of two front wheels, the crushing and mutilating of potatoes is avoided. The vines will not clog as they frequently do with a digger with only one wheel, as the wheels run on solid ground between the rows, keeping the digger on an even course and working at a uniform depth. The wheels are adjustable. The grate at the rear is hinged at the front and is given an up and down motion by a 5-tooth wheel at the rear. This sifts out the dirt as the potatoes pass over the rod. Weight, 155 lbs. Price, \$30.00. 5 per cent discount for cash.

TWO-HORSE STEEL LAND ROLLER

Made very strong and durable, 8 ft. wide, 3 sections 24 in. in diameter. Has patented closed end which excludes all trash, rubbish, etc. Runs on hard wood oiled bearings, which can be easily renewed in case of wear. An up-to-date roller in every respect.

Price, \$47.00.
Less 5% for Cash.

Fig. 26

THE HITCHCOCK POTATO DIGGER AND SHOVEL PLOW COMBINED

Fig. 27

This Potato Digger will not only dig potatoes, but can also be used as a hiller by attaching the special biller wings. Also can be used for furrowing out. You get best results by using two horses, allowing one to walk on each side of the row.

Price as Digger, \$13.00.
Price complete with wings\$17.00

No. H, ONE-HORSE "ACME" HARROW

This style has 8 coulters, crushing shoes and seat; works, 4 ft. 4 in. wide; weight 90 lbs.

Price, \$16.50.
5 per cent discount for cash.

Fig. 31

MCCORMICK-DEERING POTATO DIGGER

Fig. 28

MCCORMICK-DEERING POTATO DIGGER will dig your crop quickly and economically. Less power, less labor, stronger construction, digging better potatoes that bring better prices.

The two-horse 6-foot size has a 5-ft. elevator 22 inches wide. This machine can be furnished with rod-link made of high-carbon spring steel or with the riddle, or grate-bar elevator.

We also have this in a 7 ft. digger for four horses, elevator being 6 ft. x 22 inches wide.

These diggers get all the potatoes, whole and unbruised. The weight of the front end of the digger is carried on truck, relieving horses of all neck weight. The construction is strong throughout. The main wheels are 30 inches on the 6-foot digger and 36 inches on the 7-foot without the lugs.

Light draft is made possible by a close-up hitch. Dust caps keep dust away from the working parts. Drive wheels are high and the shovel is correctly designed.

Regular equipment consists of vine turners, including kickers, shaker, two extra rollers, sprockets, wheel type truck, main wheel lugs, pole, neckyoke and hitch.

	6 ft.	7 ft.
Price, with rod link elevator.....	\$121.50	\$135.00
Send for special circular.		
5% Discount for Cash.		

DUNHAM WATER WEIGHT LAWN ROLLER

The Dunham Water Weight Lawn Roller is electric welded, making the water section one solid drum, no rivets are used. It cannot leak. The roller surface is perfectly smooth and cannot injure the lawn.

A good lawn cannot be obtained unless a roller is used. Continued freezing and thawing separates the turf from subsoil which leaves an air space for grass roots to dry out. A good rolling is absolutely necessary to put the lawn in condition again.

Fig. 29

RETAIL PRICE OF DUNHAM WATER WEIGHT LAWN ROLLERS

No.	Diam. Inches	Length Inches	Weight Empty	Filled With Water	Price Each
WB 3	14	20	50 lbs.	150 lbs.	\$17.50
WB 5	18	24	85 lbs.	300 lbs.	\$22.50
WB 7	24	24	110 lbs.	500 lbs.	\$25.75

Weights 50 per cent more when filled with sand—water is most convenient.

THE ACME PULVERIZING HARROW

Fig. 30

A general purpose harrow that will crush, cut, lift, turn, smooth and level the soil to perfection all in one operation. While pre-eminently adapted for heavy, stubborn land, it can be adjusted, by means of levers and runners, to do perfect work on the lightest soil. It cuts the entire surface without disturbing sods or trash that has been turned under by the plow. It prepares a perfect seed bed, and also covers seed in the best manner. The draft is reduced to a minimum. Being made entirely of cast-steel and wrought iron, it is practically indestructible.

No. 23. Regular size, 1 and 2 horse, made in two sections. Price \$26.15. 5 per cent discount for cash.

Terms may be arranged for extended credit should our customer so desire.

EVERYBODY KNOWS ROSS' SEED GROWS

ONE-HORSE VINEYARD HARROW

This harrow is particularly adapted for small fields, orchards and nurseries where a large two-horse harrow cannot be used. The main frame is of angle steel bent up at the front so that it passes over obstructions easily. The tooth beams are placed high and made of pipe of sufficient dimensions to make them both light and strong. The teeth are placed on the tooth bars so that trailing is impossible. Each tooth does its full share of the work. Weight, 136 lbs. Price, \$16.00, 5 per cent discount for cash.

Fig. 32

Deering Vineyard Spring Tooth Harrow—
9 tooth

PROUT'S TWO-HORSE HOE

Fig. 39

Each standard as shown in the cut has two Hoes attached, and in working one set of hoes work on one side of the hill and the other on the opposite side, hoeing a row at a time. The hoe operates the same as a hand hoe, moving fresh earth to the plant, and crowding the old dry earth away from the plant. The hoes being made tapering permit of cutting close up to the plant without injury to corn roots which run close to the surface. Price, with wheels, weight 120 lbs., \$29.00; price, no wheels, weight 110 lbs., \$25.00. 5 per cent discount for cash.

Fig. 34

PLANET JR. DOUBLE CELERY HILLER

Packed weight,
88 lbs.

Price, \$28.50.

MEEKER SMOOTHING HARROW

Fig. 35

This consists of a frame with four sets of rollers and 58 steel discs, which work between each other. The discs grind all lumps very fine and mash small stones below the surface better than any field roller.

4 ft. 6 in. x 4 ft. with 8 in. discs.....	175 lbs.	\$30.00
6 ft. 8 in. x 6 ft. with 8 in. discs.....	200 lbs.	34.00
8 ft. x 6 ft. with 8 in. discs.....	300 lbs.	44.50
6 ft. 8 in. x 6 ft. with 10 in. discs.....	250 lbs.	41.00
8 ft. x 6 ft. with 10 in. discs.....	350 lbs.	52.00
5 per cent discount for cash.		

INTERNATIONAL TWO-HORSE HARROW

There is a harrow made for every kind of work and the spring tooth has its place and should be on every farm. It will take hold and pulverize where other makes have failed. The action of the teeth breaks all lumps and leaves a fine seed bed.

PRICES

15 tooth.....	\$25.00
17 tooth.....	27.00
5 per cent discount for cash.

Fig. 36

THE ORIGINAL PERRY SPRING HARROW

Fig. 37

This is the first spring-tooth harrow ever offered for sale, and it has many friends. For durability it is equal to any harrow made. The wood frame is lined with carbon steel. Bolt heads are protected. The teeth can not get loose. Used among rocks and stumps which would soon break any other harrow to pieces. Price, 16 teeth, \$16.50. 5 per cent discount for cash.

SPIKE-TOOTH SMOOTHING HARROW

Fig. 38

Designed as a leveling Harrow, and for covering all kinds of grain and grass seed; also largely used for cultivating corn and potatoes just after they come up. The teeth are adjusted by means of a lever and can also be thrown up from the ground and harrow transported to and from the field on the shoes at the end. Each tooth is held in place by two bolts, while nearly all other harrows use nut one. Teeth can be moved down as they wear. The entire harrow is made of steel. Price, 60 teeth, \$20.85. 5 per cent discount for cash. Weight, 223 lbs.

DEERING BUMPER DISC HARROW

Fig. 33

Has 12 16-inch discs and weight boxes. The main frame of this harrow is constructed in such a manner that the heavy bent iron bars which fasten the main frame to the hearings are hinged both to the main frame and in the hearings. This allows the rigid frame to be used and gives an opportunity for the disc gangs to work close together. The cross beam of the frame is made of angle steel and the bars running from the ends of the cross beam to the tongue are heavy steel. The hearings are arranged so they can be easily oiled and are fitted with metal hushings which can be replaced when they become worn. This makes the harrow very strong and durable. Weight, 449 lbs. Price, \$48.00. Price includes weight boxes, scrapers and two-horse hitch. 5 per cent discount for cash.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

EMPIRE JUNIOR DRILL

Fig. 40

By the use of a Grain Drill you decrease the quantity of seed used and increase the yield. Every seed is properly planted, which is just as necessary as with any hoed crop. The increased yield, even if it is only a few bushels per acre, will well pay for the interest on the drill. Ask for complete catalogue showing the Empire Jr. Space does not permit of our describing it in detail.

No. 11-7 Single Disc Fertilizer Drill with pole, 1200 lbs. \$150.00
Grass seed attachment 7.85
Seat attachment 3.00

5 per cent discount for cash.

SPRING TOOTH CULTIVATOR

Fig. 41

A cultivator that is especially adapted for use in stony ground. The teeth are fine, oil-tempered springs, and are alike and interchangeable; they are also adjustable for angle and depth. Has expanding lever, five spring teeth and wheel. Price, \$10.00. 7 Tooth Spring Cultivator, \$12.00.

5 per cent discount for cash.

SPRING TOOTH CULTIVATOR

Fig. 42

This cultivator and harrow is particularly designed for cultivating between small fruits. Especially adapted to pulverize the soil and leave it smooth and level, thus conserving moisture.

Price, \$8.50.
5 per cent discount for cash.

PLANET JR. No. 101 HORSE HOE AND CULTIVATOR

Fig. 43

This cultivator contains the same quality of steel as in the No. 7, 8 and 9 and is designed to take the place of other makes of low priced cultivators. It has recently been simplified, is a strong, well-made cultivator, easily handled, has few parts and practically no danger of getting out of order. We recommend

this as being the best low priced cultivator. Price \$11.25.

INTERNATIONAL No. 4 PIVOT AXLE RIDING CULTIVATOR

Fig. 44

valuing with this implement. Weight 500 lbs. Price, each \$60.00.

5 per cent discount for cash.

Disc Hillers \$3.50

INTERNATIONAL 5-TOOTH ONE-HORSE CULTIVATOR

This cultivator has 5 steel teeth, expanding width from 12 to 25 inches. Frame is high to clear trash and is good length, which enables it to run steady. Each standard has 3 holes for adjusting. Equipped with adjustable wheels and expanding lever. Weight, 75 lbs. Price, \$10.00.

5 per cent discount for cash.

Fig. 45

YANKEE CULTIVATOR

Fig. 46

New Yankee Cultivator with long hillers. Can be used for furrowing out or covering, also for hilling potatoes and similar crops. Price, \$12.00.

5 per cent discount for cash.

THE GOSLEE IMPROVED MARKER

Adjustable Tooth, Spreads 2 to 4 ft.

This machine is designed to mark out rows of any width, and in doing so it makes a furrow suitable for planting. Price, \$16.50.

5 per cent discount for cash.

Fig. 47

EVERYBODY KNOWS ROSS' SEED GROWS

Planet Jr. Farm and Garden Tools

If you are a farmer, trucker, orchardist, or suburbanite with a kitchen garden, there is a Planet Jr. made for your special need. You can't afford to work without a Planet Jr. 711-page Planet Jr. catalog free. Describes 70 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.

No. 3 Planet Jr. Hill and Drill Seeder

Holds 3 Quarts of Seed.
A favorite among onion growers, market gardeners and seedsmen. Sows accurately in a narrow line, making wheel-hoe cultivation easy. Price \$17.50.

Fig. 48

The flow of seed is instantly started or stopped by the cut-off rod. Sows in large or small quantities in drills or in hills, 4, 6, 8, 12, 24 inches apart.

We recommend customers to buy separate seed drills and wheel hoes where they have enough work to warrant it and this is our popular size at a popular price.

No. 5 Planet Jr. Hill and Drill Seeder

Price \$20.00. 16½-inch steel driving wheel. Holds 5 quarts.
No. 5 is undoubtedly the best seeder we make for market gardeners, onion set growers and other large planters. The style of construction is the same as in No. 3, the valuable mechanical features being common to both.

No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

Price complete \$18.00
As a Seeder only
(No. 4D), \$14.50.

Fig. 49

This tool sows all garden seeds from the smallest up to peas and beans in hills, 4, 6, 8, 12 and 24 inches apart or in drills. No time is lost. No seed is wasted. By removing the seeder parts and substituting the tool frame, you have a first-class single wheel hoe. Makes the care of a garden a pleasure as well as very profitable. Can be used successfully by men, women or growing boys. Pays for itself in a season and will last for years.

No. 25 Planet Jr. Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow.

Price \$22.00
Holds 2½ quarts of seed.

Fig. 50

A splendid combination for the family garden, onion grower, or large gardener. It is a perfect seeder, and combined double and single wheel hoe.

No. 31 Planet Jr. Combined Drill Seeder and Single Wheel Hoe

Price, \$12.50

Fig. 51

This new tool is of great value to gardeners who have never felt able to own either a seed drill or a wheel hoe. It will sow even a small packet of garden seed with great precision. Quickly changed to a splendid wheel hoe. A special machine for the small gardener.

No. 31D Planet Jr. Seeder

Price \$10.00

This is the No. 31 shown above, without the cultivating attachments. If you have a wheel hoe and want to save labor in planting your garden and make the wheel hoeing easier, we recommend this No. 31 seeder.

No. 11 Planet Jr. Combined Double and Single Wheel Hoe, Cultivator, Plow and Rake

Price, with
Attachments as in cut,
\$14.75

14-inch Steel Wheels
Steel Frame.

Fig. 52

A single and double wheel hoe in one. Straddles crops till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world.

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

Price, \$11.50.

Fig. 53

This tool is identical with No. 11 Double Wheel Hoe, except that it has one pair plows, one pair hoes, four cultivator teeth and a pair of leaf lifters only. They are what gardeners use most, and the others can be added as wanted.

No. 119 Planet Jr. Garden Plow and Cultivator

This new member of the "Planet Jr." family will appeal to all those who prefer a high wheel tool for their garden work. Where the soil has not been so thoroughly and carefully prepared, the high wheel undoubtedly makes an easy running tool.

The wheel is 24 in. in diam. with a rim 1½ in. wide, insuring easy running in the lightest soil.

The equipment is so complete that it will meet all the needs of the ordinary garden, where the adjustments and refinements of the higher priced Wheel Hoes are not required.

Price \$5.50

Fig. 54

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Planet Jr. Farm and Garden Tools

No. 19 PLANET JR. SINGLE WHEEL HOE

Price, \$5.75

This attractive implement is especially designed for the farmer's garden work, though it offers to every one with either field or garden a cheap and effective tool for wheel-hoe operations.

Fig. 55

No. 17 PLANET JR. SINGLE WHEEL HOE

Price, \$7.75.

Fig. 56

Same as No. 16, but without the Rakes and Leaf Lifter. These Single Wheel Hoes have steel frames and 15-inch steel wheels.

No. 17½ PLANET JR. SINGLE WHEEL HOE

Price, \$7.00.

Fig. 57

This tool is identical with No. 16, except in equipment. The pair of 6-inch hoes, three cultivator teeth and leaf lifter which go with it, are all the finest of their kind.

No. 18 SINGLE WHEEL HOE

Price, \$5.75

Fig. 58

This has one pair of 6-inch hoes only—the tools that are most constantly useful throughout the season. Other attachments can be added as needed.

FIRE-FLY GARDEN PLOW

Price, \$4.00.

This tool will enable a busy man to do in his spare minutes nearly all the work of a family garden. Chicken raisers find it of great advantage in plowing up their scratching yards. It will throw a furrow four to six inches wide and one to three inches deep.

Fig. 59

No. 33 PLANET JR. SINGLE WHEEL HOE

Price, \$6.00.

Fig. 60

The Wheel Hoe portion of the No. 31 Combined Seeder and Wheel HOE

This combination will delight the suburbanite, the growing boy, women, younger or older, who will find it a light running wheel hoe that will save them hard work and help much to supply the table with fine vegetables.

No. 16 PLANET JR. SINGLE WHEEL HOE

Price, \$9.25

Fig. 61

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

No. 8 PLANET JR. HORSE HOE

Price with cast wheel \$17.00.

Stronger, better made and capable of a greater variety of work than any other cultivator made. Non-clogging steel wheel. Depth regulator and extra long frame make it run steady.

Fig. 62

The No. 7 Horse Hoe is the No. 8 without the depth regulator. It works the same as No. 8 in every way except that it lacks the steadiness and easy control of depth made possible by the depth regulator. Price, with cast wheels, \$16.25.

No. 9 PLANET JR. HORSE HOE

Price, with Cast Wheels, \$15.00.

Fig. 63

Is identical with No. 8 except that it has no depth regulator, and has a plain wheel instead of lever wheel.

No. 90 COMPLETE, WITH CAST WHEEL

*\$17.00

Weight, packed, 74 lbs.

No. 90B (without Pulverizer),

*\$14.25

No. 91 (with wheel), \$13.00.

Fig. 64

An invaluable tool in the market garden, truck and strawberry patches. Has new steel wheel which prevents clogging. Its 12 chisel-shaped teeth cut out all weeds, stir and mellow the soil and leave the ground in the finest condition without throwing dirt on plants. *For steel wheels add 50 cts.

EVERYBODY KNOWS ROSS' SEED GROWS

Aspinwall Potato Planter

THIS MACHINE PLANTS A GREATER RANGE OF SEED, both as to size and shape, than ever before and handles it with the least possible friction or wear. To regulate the distance of planting—simply a change of gear wheels, which can be made in less time than it would take to replace one picker. In lieu of the cumbersome wooden structure, a CANVAS HOPPER has been substituted, which overcomes all tendency to clog or bridge with either whole or cut seed. BOTH THE FEED AND COVERER TENSION ARE REGULATED FROM THE SEAT. No removal of bolts—simply turning a thumbscrew does the work. List price with fertilizer and attachments and disc covers, \$130.00, 5 per cent Cash.

Fig. 65

McWhorter Fertilizer Distributor

The low down construction of this fertilizer sower makes it a very popular machine. Distribution is made by adjustable spouts as shown in the illustration. These are adjustable same as on the hand machine. Material is distributed close to the ground and is not affected by wind as is the case with most fertilizing materials. The No. 26 is best adapted for New England trade, broadcasts 9 ft. wide.

Fig. 66

No. 13C one horse, weight 260 lbs.	Price.....	\$65.00
No. 26 two horse, weight 373 lbs.	Price.....	92.50
No. 34 one horse, weight 260 lbs.	Price.....	69.00
No. 44 one horse, weight 266 lbs.	Price.....	72.25

Send for Special Circular

Farmer's Friend Fertilizer Sower

Attaches to any ordinary farm wagon, and sows to perfection grass and grain seeds of all kinds and in any desired quantity per acre, 50 to 100 acres a day. It also distributes all dry commercial fertilizers; also ashes, land plaster, lime, etc. It has positive feed and an adjustment opening the holes from $\frac{3}{4}$ to $1\frac{1}{2}$ inches which allows the sowing of seeds of any size; the flow can be shut off anywhere, either on one side or the other, or altogether, as required; it is instantly thrown in or out of gear. Price complete to attach to wagon, \$15.00.

Fig. 67

Eclipse Corn Planter and Fertilizer Distributor

Plants field or ensilage corn, beans, peas or beet seeds in hills, drills or checks; it will drop 6, 12, 24 or 36 inches apart. By scattering pumpkin seeds in with the fertilizer in filling the hopper will place seeds in hills when planting corn. It accurately distributes from 50 to 450 lbs. as desired, of commercial fertilizer, wet or dry, in the rows of hills, first drawing moist earth in the seed before the fertilizer is dropped each side of the seed, and hill is covered to a uniform depth. Price complete, \$37.50. 5 per cent discount for cash.

Fig. 68

McWhorter Hand Fertilizer Sower

This fertilizer sower can be instantly changed so that the stream is divided from one into two or more streams, and thus be applied beside one, two or more rows of plants at the same time. The sprouts or channels through which it passes to the ground open and close, so that starting with a width of about 4 inches the spread can be gradually increased to 30 inches. This is especially adapted for top dressing strawberry beds and lawns. Price \$18.25.

Fig. 69

"King of Cornfield"

Corn, Bean and Pea Planter and Fertilizer Distributor.

Does perfect work, not only in planting corn in hills or drills, but does equally as good work planting peas, beans, and all similar seeds, putting in the fertilizer as well, in any desired quantity or the fertilizer may be stopped off altogether, if desired. Another great feature in this machine, corn and beans may be planted at the same time in the same row, the beans half way between the corn, or $\frac{1}{2}$ or 9 inches from corn, as desired. The fertilizer may be put with the corn and left out of the beans, if desired to do so. Price, \$37.50.

5 per cent discount for cash.

Fig. 70

The Stevens Fertilizer Sower

For sowing all kinds of commercial fertilizer either damp or dry, in drills or broadcast. Thoroughly satisfactory as a lime spreader. In meadows and orchards almost a necessity. Unequaled for top-dressing grass lands, lawns or large parks. 5 ft. 10 in. Price, \$67.50.

Two Horse, 8 ft. 3 inches.

\$75.00

Fig. 71

Eclipse Two-Row Two-Horse Corn Planter

The most complete, accurate, durable and easily handled double row corn planter in the market. All the good points found in the well-known and popular "ECLIPSE SINGLE ROW PLANTER," are retained in this machine.

Sows 36, 38, 40 and 42 inches apart. The new Marker Device used for two seasons with perfect success on the single-row Eclipse, is used on this. One move of the lever throws the machine out of gear, and at the same time raises the planter and covers ready for turning the team at end of rows. Price, \$84.00.

Fig. 72

5 per cent discount for cash.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

International Manure Spreaders

Fig. 74

plete catalogue. Weight 1540 lbs. Price, No. 1 \$175.00; No. 2 180.00—for 3 horse hitch in place of two, add \$5.00.

Cahoon's Improved Broadcast Seed Sower

Fig. 75

Will sow all kinds of grass and grain seeds from 4 to 8 acres per hour at a common walking gait. Heavy seeds, such as wheat, it will throw 40 feet (20 from each side of the operator); lighter seeds, of course, will not be thrown so far. Price, \$4.75. 8 lbs.

Automatic Hand Corn Planter

Fig. 76

Very handy for re-planting and for small gardens.

PRICE, \$2.25.

Mailing weight 8 lbs.

The Segment One-Hand Corn Planter

Fig. 77

Lightest, most accurate, strongest and most up-to-date planter on the market. All parts are interchangeable.

PRICE, \$1.75.

Fig. 78

The best implement made for furrowing, covering and hilling potatoes and similar crops. The steel covers or wings can be adjusted for making any style of hill desired in furrows uniform width. All potato growers know the value of this tool and none of them attempt to get along without it. It is necessary to cover young plants completely when just out of the ground. The steel discs are made of best crucible spring steel and will last for a lifetime. Price, \$15.00.

The Worcester Horse Hoe and Hiller with Steel Wings

Fig. 79

This implement is the same as the Worcester Horse Hoe and Furrower with exception of discs which are used in place of steel hillers or covered wings. They are adjustable and by many are preferred to the steel hillers. All potato growers should have one of these two implements. These wings are made of best crucible steel and will last for a long time. Price, \$12.00.

Fig. 80

Fastest of All Grass Seeders

Thompson's Seeder

Fig. 81

For Broadcasting Grass, for sowing Red Top, Clover, Timothy and All Mixed Seeds. Light, strong and simple.

Sows uniformly the whole length of the hopper. Wt. 45 lbs.

This is really the Greatest Grass Seeder made today. Not a toy, but a strong and durable implement specially designed and adapted to its use, 14 feet long. Over two hundred thousand are now in use on the farms of this country. It will sow easily 40 acres per day. So close to the ground that the wind can never blow the seed away.

Seeder No. 5. Sows Clover, Timothy, Hungarian, Millet, Alfalfa, Chaffy Seeds, like Red Top, Orchard Grass and Kentucky Blue Grass. Price \$13.25.

No. 4. Grain Seeder Box, 10 feet, for sowing all kinds of grain. Fits No. 5 Seeder, and with both boxes all kinds of grain and grass seeds can be sown. Price, \$6.25.

No. 5 Seeder and No. 4 Grain Box. Price, \$19.00.

The Cyclone Broadcast Seeder

Fig. 82

Will sow Timothy, Clover, Wheat, Oats, Rye, Buckwheat, Hungarian, Red Top, Millet and all other grains and seeds perfectly even, and any desired amount to the acre and from 40 to 60 acres a day. Net price, \$2.00. Mailing weight 2 lbs.

The Worcester Weeder—The Farmers' Best Friend

One of the indispensable articles on any farm, where horse cultivated crops are grown, or where corn or grass seeds are sown. This weeder is made of high carbon angle iron steel, teeth attached to frame with bolts are held tight by a spring steel lock washer. This is the best implement made for preparing a seed bed and will pay for itself in one season. In cultivating corn it should be used just before the crop is up and immediately after. Destroys the weeds but does not injure the crop.

Price, \$14.00.

EVERYBODY KNOWS ROSS' SEED GROWS

DEERING IDEAL MOWER

Fig. 83

5% Discount for Cash

This machine runs on ball and roller bearings which makes a very light draft and still running machine. All breakable parts are malleable iron. Frame is cast in one piece. Gears are so placed that the entire mechanism is well balanced, with no side draft.

PRICES

4 foot cut, one horse, Ideal Mower, \$75.00
5 foot cut two horse Ideal Mower, \$82.00
6 foot cut, Giant Mower,\$89.00

STEEL INTERNATIONAL HAY TEDDER

Fig. 84

This is the neatest and most substantially built steel frame hay tedder on the market. It has a solid steel axle and on stony ground we recommend this to any other tedder. We believe an entire steel tedder made like this one will outlast any other tedder on the market today. It has two levers, on throwing in and out of gear and one for raising and lowering the forks for uneven ground. It has combined pole and shafts so it can be used for either one or two horses. It is the best steel-frame hay tedder on the market, six forks. Price, \$62.00.

McCORMICK VERTICAL LIFT MOWERS

Fig. 86

This mower, so well-known by the farmers in general, is particularly adapted for New England use. It is made in rugged shape to stand the local conditions and the vertical lift which we sell especially in McCormick mower is recognized as a great addition to the hay tool line in general.

The following points feature this machine, we think, as one of the best machines manufactured today.

Heat treated cutter bar and wearing plates.
The weight of the cutter bar is carried on the wheels.
Pitman box has bronze bushings.
The push bar is located low, which helps to make the cutter bar float.
The counter shaft has bearings at each end.
The main lifting lever is equipped with automatic locking device.
Equipped with tongue, neckyoke, whiffletrees, and two knives.

	Weight	Price
4-foot	600 lbs.	\$76.00
5-foot	725 lbs.	\$83.00
6-foot	805 lbs.	\$90.00

5% Discount for Cash

MOWING MACHINE SECTIONS

We have these sections or knives for every machine, including the Deering, McCormick, Worcester, Buckeye, Adriance Buckeye, Johnson, Dain, etc.

Every section warranted. Do not buy the cheap kind, but buy the best sections fitted for your particular machine.

Per box of 25 sections, \$1.65.
Sections rivets, 25c per lb.

Fig. 87

VICTOR TUBULAR STEEL FRAME GRIND-STONE WITH FOOT-TREADLE AND SEAT

Fig. 85

Adjustable seat, 4 to 5 inches vertically. Stone movable forward and back on frame. Frame being slightly flexible, it adjusts itself to uneven floors or surfaces. Rigid and easily set up. Bi-treadle with power properly applied. Hinged connection with ball-bearings on crank. Ball-bearings in journals. Frame is narrow at top, making it convenient to apply power, and spread at base, giving greater rigidity. Crated complete, stone protected. Made in one size, about 100 lb. stone. Price \$10.00.

WILCOX MOUNTED GRIND-STONE

Fig. 88

This is the best low-priced grindstone on the market. The stone is best Berea Grit (Ohio), the legs are iron, which will not rot if left out during haying; the wood side-pieces are painted bright vermilion. Runs on ball-bearings, and every stone warranted to run true. No. 3 Stone, 135 lbs. Price \$9.75.

No. 2 Stone, 120 lbs. Price \$9.25.
No. 1 Stone, 100 lbs. Price 8.50.

HECLA WOOD FRAME MOUNTED GRIND-STONE

Fig. 89

The stones in these are best Nova Scotia Grit, mounted on heavy hardwood frame. Will last a life-time. It pays to buy a good article.

24x2	\$19.00
24x3	24.00
26x2 1/2	26.00
26x3	27.00

Send for our special Poultry Catalogue.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Fig. 90

INTERNATIONAL COMBINED SIDE-DELIVERY HAY RAKE AND TEDDER

Fig. 91

and rake much cleaner, and turning the hay into a neat, airy windrow, where the air gets an equal chance at stems and leaves. Air cured hay is better than sun-dried hay.

The left-hand delivery deposits the windrow on the clean stubble and not on the unturmed swath, as in the case of the right-handed rake. Price, \$100.00. Weight, 920 lbs.

5% Discount for Cash

The left hand delivery of the Keystone combined side delivery rake and tedder allows you to follow the mower closely and rake the hay before the leaves begin to wilt. This is practically the same construction as the regular Keystone Side Delivery Rake, which does not have the reversing mechanism for tedding that this machine has. The teeth strike the head of the hay first

INTERNATIONAL STEEL FRAME RAKE

Fig. 92

This rake is made to supply the demand for an all-steel rake. We believe that it is the best of the entire lot. It is a horse dump-rake. Strength and simplicity are two features of its construction. 8 FT. 25 TEETH. Price, \$40.00.

5 per cent Cash.

THE McCORMICK CORN BINDER

The McCormick Corn Binder picks up down and tangled corn. There is bound to be some down corn in practically every corn field. The storms and wind will blow it down and it is sometimes badly twisted and tangled. Corn in this condition is difficult to handle either by hand or by machine. The McCormick is especially adapted for that particular class of work. It cuts and binds into even sized bundles. It is equipped with elevator chains which help especially to pick up down corn. There is no waste and you always get a neat job when you use the McCormick. The binder can be set up any desired height. The distance between the gathering points on the corn binder is 22 inches. This will enable anyone to follow the row without missing a single hill.

Complete catalogue showing the McCormick line in detail will be mailed on request.

Price, \$215.00. 5 per cent discount for cash

Fig. 93

All Emperor Rakes have combination thills for one or two horses

Among the many valuable features of the Emperor are:

A doubly-trussed frame that prevents all sagging of frame or axle.

A hand lever that cannot change position when the foot dump is used.

A revolving steel axle and positive dump that cannot get out of order.

A dumping ratchet provided with flanges that strengthen the axle.

A reversible dump dog of hardened steel that can be changed to four different positions should any wear occur.

A cam action for releasing the dog, which drops the teeth without shock or noise.

A flexible joint by which the teeth may be held down to their work or carried high for any distance with the same foot.

The tooth head is so attached to the axle that the teeth keep their places and rake clean, going up or down hill, no matter how steep.

The teeth are so hung in the head that they can be taken out and put in with the least trouble; are flattened and have chisel points that will not dig, take up least dust, offer least resistance, and reduce the draft.

We furnish short teeth at end to keep hay out of wheels and hooks to keep hay from rolling, when so ordered.

Adjustable seat, secure foot rest, best selected material, steel axles and truss rods, hickory cleaners, and wheels of our own make, with rounded felloes and clipped joints.

Price, \$40.00; 5% discount for cash.

INTERNATIONAL WIND-ROW HAY LOADER

Fig. 94

This Loader is built principally of steel and is made to last. It will pay for itself in one season, but it will last for a life time. A Hay Loader is just as essential as a side delivery rake for the economical handling of hay. It does quicker and better work and at the same time saves labor. The Keystone Loader enables you to keep ahead of the weather. The loader can be detached from the wagon by the driver simply pulling a rope extending to the top of the load which enables him to drive to the barn, while the next team picks up the loader.

PRICES

Less forecarriage \$ 95.00
With forecarriage 110.00

5 per cent discount for cash

YANKEE HAY RAKE

24 TEETH

This is the old reliable Yankee, which needs no introduction. It is a very easy rake to operate, each tooth being independent; it will pass over large stones without breaking the teeth. It is so easy to operate that a child can handle it. Price, \$45.00.

5 per cent Cash.

Fig. 95

DEERING KNIFE GRINDER

It is poor economy to operate a mower with a dull knife, for it racks the machine and worries the horses. The Deering grinder is so arranged that the emery wheel sharpens two mower sections at once and preserves the correct bevel. For grinding out nicks the degree of pressure which enables the operator to control the action of the wheel and the pressure. The knife is firmly held in place by clamps and may be easily removed from section to section of the wheel; grinds any make of knife. Price, \$5.75

Fig. 96

EVERYBODY KNOWS ROSS' SEED GROWS

No Barn Is Complete Without One of These Horse Hay Fork Fixtures

Fig. 96

Reversible Steel Track Hay Carriers

These carriers for rod, wood or steel track are the most durable and easiest rigs to operate of any on the market. Anyone with a hammer and wrench can rig his barn as well as an expert carpenter. We furnish everything necessary for rigging any style of barn. If you will send us the length and height of your barn and style of ridge pole, we will name you price for complete job.

- Fig. A Double Steel Track, per ft.\$0.25
- Fig. B Hanger Hook, per doz. 1.85
- Fig. C Pulley Hook, per doz. 1.85
- Fig. D Hay Unloader, each. 9.00
- Fig. E Knot Passing Pulley, each.85
- Fig. F Two-tine Harpoon Fork, 25", each. 2.50
- 31", each. 2.75
- Fig. G Four-tine Grapple Fork. 11.25
- Fig. H Six-tine Grapple Fork. 13.00
- Fig. I Rafter Bracket, per doz.85

Fig. A

Fig. B

Fig. C

Fig. D

Fig. E

Fig. G

Fig. F

Fig. 97

PURE MANILA ROPE

Coils about 50 lbs. each.

	1 lb. Equals	Price per lb.
1/4-inch	55 feet	26c
3/8-inch	27 feet	26c
1/2-inch	13 feet, 4 in.	24c
3/4-inch	7 feet, 6 in.	23c
7/8-inch	4 ft.	23c

Fig. E

LIGHTNING HAY KNIFE

Each, \$2.50

Fig. I

BINDER TWINE

Put up in 5-lb. balls.
5-lb. balls, 90 cts., 50-lb. bale, \$7.50

Fig. 98

TARRED LATH YARN

In coils of about 50 lbs., wound in rope form. Each rope contains 130 ends. Used in tying corn and for various other uses. Per lb., 25 cts.

Terms may be arranged for extended credit should our customer so desire.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Poultry Supplies of All Kinds

Fig. 99

The poultry industry is getting to be one of the largest industries in the United States at the present time and is growing by leaps and bounds. From the milling people and from dealers in poultry in a large way, everything seems to point to a very rapid increase and we see no reason why it should not. There is hardly any business in the world today where one can invest so little capital and get such large returns. The poultry business, if handled in the right way, will pay 100% to 200% profit with no dead stock.

Our line of poultry supplies cannot be excelled. Everything which we offer for sale is absolutely guaranteed by the manufacturers and also by ourselves and we are bound to have our customers satisfied.

INSURABLE STANDARD CYPHER'S INCUBATORS

When you buy a Cypher's machine, you are not making an experiment, but are buying a machine that has been tested by thousands of satisfied users from coast to coast with a reputation behind it. Being the pioneers in the Incubator business, they have added every scientific feature to the hatching process until the Cypher's machine is in a class by itself, the best.

	Weight	Capacity		Price
		Duck Eggs	Hen Eggs	
No. 0 Incubator.....	91 lbs.	56	70	\$33.00
No. 1 Incubator.....	142 lbs.	112	144	42.00
No. 2 Incubator.....	195 lbs.	200	244	56.00
No. 3 Incubator.....	245 lbs.	300	390	69.00

THE NEWTOWN COAL BURNING COLONY BROODER

The Newtown Coal Burning Brooder is constructed with scientific principles. Has a heavy metal facing around the fire bowl which prevents Chicks from getting burned. Has a double bottom, all parts securely bolted and cemented together. Built to last a lifetime. It has a large heating surface and a large fuel capacity, and a self-feeding coal magazine. The magazine holds sufficient coal to last from twenty-four to thirty-six hours. Has a special revolving draw center grate which cannot become clinker-clogged. Has both direct and check draft, controlled by an automatic regulator, which makes an absolutely even fire. The automatic regulator is so arranged that it cannot come in contact with the Chicks or be molested in any way. Special arrangement of the draught openings insures a constant change of air beneath the deflector.

We have two sizes: No. 7, suitable for a house 6x8 to 10x12, which can accommodate two or three hundred Chicks. No. 11, designed more especially for two-room colony houses, but can be used in any single room, would take care of five hundred Chicks.

Number	Diameter of deflection	Weight crated	Size of smoke pipe	Price
No. 7	48 in.	140 lbs.	3 in.	\$25.00
No. 11	50 in.	195 lbs.	4 in.	32.50

Fig. 100

THE SIMPLICITY INCUBATOR

Claimed by the manufacturers to be the world's greatest hatcher. Tank made of copper, heated by hot water. Has a smokeless burner, big oil fount, and has an absolutely uniform heat, being circular in shape, no cold corners. Has a hatching capacity of six hens with scarcely any trouble at all. We have only the greatest praise from our customers who have used these machines.

Price: 100-egg Copper Tank \$30.00, and 150-egg Copper Tank \$36.00.

Fig. 101

RELIABLE OIL BURNING BROODER

Fig. 102

Valveless, burns kerosene oil with a steady blue flame. Simple in construction, easy to operate. No wick to trim. Has automatic ventilator.

No. 0, 30-inch Brooder,	350 chicks or less,	50 lbs.	\$17.50
No. 1, 42-inch Brooder,	500 chicks or less,	58 lbs.	18.50
No. 2, 52-inch Brooder,	1,000 chicks or less,	65 lbs.	21.50

All crated complete with full instructions.

THE PUTNAM BROODER

Fig. 103

This little article makes the best little brooder in the world. Stove costs \$4.75. With the stove we will furnish directions for building. Anyone can make this brooder out of a shoe box in a little while.

A shoe box, a few nails, this stove and an hour's time gives you a brooder which will serve you as well as any other on the market. Stove \$4.75.

See our offer on page 96 for Poultry and Garden Books

EVERYBODY KNOWS ROSS' SEED GROWS

DUPLEX FOUNT

Fig. 104

Perfectly sanitary. Made of heavy galvanized iron. Take off the top, fill it, put on the lower part and you have a fount that will keep your flock healthy. Tends to keep water cool—summer and does not freeze readily—winter.

4 qt. \$1.10 each; 8 qt. \$1.35 each.
DUPLEX TWIN FOUNTAIN (two outlet boods), 8 qt. \$1.60.

STAR CHICK FEEDER AND FOUNT

Fit any mason jar.
 Price, each, 15 cts.

Fig. 105

WALL FOUNT

2 qt. 55 cts.
 4 qt. 70 cts.
 8 qt. 90 cts.

Fig. 106

THE NORWICH AUTOMATIC EXERCISER AND FEEDER

Fig. 107

The Norwich Automatic Exerciser and Feeder, as its name implies, is an ingenious automatic machine for feeding and exercising.

PRICE LIST—No. 1,
 8 Quart Hopper, 13 lbs., \$5.00; No. 2, 14 Quart Hopper, 15 lbs., \$5.50; No. 3, 20 Quart Hopper, 20 lbs., \$6.50; No. 4, 32 Quart Hopper, 27 lbs., \$7.50.

NORWICH CHICK FEEDER

Fig. 108
 PRICE LIST

27 in., without rain top, weight 5 lbs. \$1.60
 27 in., with rain top, weight 7 lbs. 2.00
 20 in., without rain top, weight 2 lbs.75
 20 in., with rain top, weight 3 lbs. 1.00
 Add Postage for your zone.

Fig. 109

Poultrymen can double their profits by Caponizing their chicks. The operation is very simple—the instruction so full and explicit that anyone will be able to perform the operation. Capons are worth \$1.00 to \$1.50 more than cocks not Caponized. They are very much quieter in disposition.

Complete with instructions, \$4.50. In velvet-lined case. We send book, "Complete Guide for Caponizing," with every set.

Farmer's plain set in pasteboard box, \$2.75.

ROUND BABY CHICK FEEDERS

Fig. 110

12 hole, each. 30 cts.
 8 hole each. 25 cts.

Fig. 112

12 in., Double Trough 45 cts.
 18 in. 60 cts.
 24 in. 70 cts.
 12 in., Aluminum Trough for feeding buttermilk 60 cts.
 18 in., Aluminum Trough for feeding buttermilk 90 cts.

PEERLESS FOUNT

Take off bottom to fill.

1 qt. 45 cts., 5 qts. 90 cts., 10 qts. \$1.25.

Fig. 113

TWO PIECE FOUNTAIN

Fig. 111

1 qt. 35 cts.
 2 qt. 45 cts.
 4 qt. 60 cts.

SEXTON'S DRY FEED HOPPER OPEN

Fig. 114

Pronounced to be the best Hopper offered. Construction, easily operated and absolutely "Rat" and "Mouse" Proof.

The lower cover is so arranged that it is held up by locking the top cover of Hopper over same and by raising the top cover the lower cover will fall in place.

This Hopper is arranged to hang on the wall the desired distance from floor and never need be removed from the wall to be refilled. It is impossible to waste any feed as the pan at the bottom takes any feed that may be picked out and the last crumb can be used therefore saving any waste.

Price, No. 2, 3 qt., \$1.10, 3 lbs. Price, No. 1, 12 qt., \$1.50, 5 lbs. Price, No. 5, 24 qt., \$2.40, 7 lbs.

EARTHEN PIGEON BOWL

All pigeon fanciers recommend this style of bowl for their coops.

Per doz. \$2.00
 Each25

Fig. 115

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

LAWN PARK COOPS THE LAWN PARK COOP SAVES THE CHICKS

Fig. 116

Park Extended

The wire park pulls out like a bureau drawer and is made from heavy galvanized hardware cloth. The main coop is made from strong 28 gauge galvanized iron. Size of coop, when park is fully extended as shown in cut, is 18 inches wide, 19½ inches high and 48 inches long. When park is closed it is 24 inches long.

A small door is provided to let small chicks only have full range as desired.

Protect the chicks from hawks, rats, weasels, vermin, cold, storms, etc. Give proper ventilation and sanitation. Price, each \$4.00. Three for \$11.00.

Fig. 117

NATIONAL OAT SPROUTER

It pays to feed green stuff in winter

With this mechanical device green feed can be given to the poultry at all times. The tray contains five sprouting pans with a bottom drip pan full of sprouted oats each day and replacing this same pan with a fresh supply of oats, the new shoots from one to four inches high can be supplied to the fowls daily, giving a never failing supply of green feed.

Endorsed by all the poultry raisers and egg producers. Price \$7.50.

A

B

C

D

Fig. 118

- A Brooder Thermometer, 50 cts.
- B Prairie State Incubator Thermometer, 75 cts.
- C Cypher's Incubator Thermometer, 75 cts.
- D Regular Incubator Thermometer, 75 cts.

POULTRY PUNCH

A poultry punch for marking baby chicks. Punches a clean hole in the web between the toes, that will not bruise the foot. Guarantee to work perfectly. 25 cts. each.

Fig. 119

Anu number of combinations can be obtained with one of these punches. 35 cts.

Fig. 120

THE NORWICH AUTOMATIC AIR-LOCK FOUNTAIN

The Norwich Automatic Air-Lock Fountain completely solves the problem of supplying fresh, clean water to the birds at all seasons of the year, and all poultrymen will agree with us that there is no more disagreeable task connected with poultry culture or one that is more fraught with worry and care than the question of watering.

The construction of the fountain is such that it is physically and absolutely impossible for the birds to pollute or contaminate the water supply, and the only water exposed is about a half pint in the detachable drinking cup which, as consumed by the birds, is automatically replenished. Held in vacuum the water supply is always fresh and is delivered to the cup only as required.

Price, \$6.00.

Patented March 11, 1913

Fig. 121

KEYSTONE BOTTOM FILLED FOUNT

Fig. 122

We think this is one of the very best bottom filled fountains on the market. Has a patented device so that the bottom can be hinged back by unfastening the hook. Can be cleaned, filled, hooked back and also hung up or set on the floor to be used for drinking. Comes in three sizes.

1 quart		\$0.60
2 quart		.80
4 quart		1.05
8 quart		1.50

JUNIOR CHICK FEEDER

Fig. 123
Price, each 30 cts.

CELLULOID BANDS

5 sizes—No. 5 Baby Chick, No. 3 Leghorns, No. 2 R. I. Red Rocks, No. 1 Turkeys, etc. Black—White—Pink—Red—Yellow.

Fig. 124

	Doz.	100	1000
No. 1.....	.15	.75	\$6.00
No. 2.....	.15	.75	6.00
No. 3.....	.15	.60	5.00
No. 5.....	.15	.50	4.50

Fig. 125

Very light weight. Per 100 75 cts.; doz. 15 cts. Numbered 1-100.

THE PUTNAM STOVE

Fig. 126

This little stove, 9x4 inches works wonders in cold weather. Keeps water warm in the poultry house in the coldest weather. In order to have eggs in the Winter time, hens must have plenty of water. They will not drink as much cold water as warm. Costs only from 20 to 30 cents to operate during the Winter. Stove \$2.00.

Send for plans to make an oat sprouter. Cost of whole outfit, including stove is less than \$2.50.

EVERYBODY KNOWS ROSS' SEED GROWS

THE "MASTER BREEDERS" CHICK BOX

The Best Seller. Both body and top are made of double faced corrugated board, waterproofed on the outside. The strength of this package is approved by shippers as well as parcel post and express authorities. Represents the best quality of material and workmanship obtainable.

The box is well ventilated—built to offset acute weather changes. Partition boards on both 50 and 100 chick sizes are made full height to add greater strength to the box and to prevent chicks from crowding over the top, becoming squeezed and injured. Holes punched in partition boards will give cross ventilation if desired. Covers are attractively printed "Baby Chicks."

No. S 25—25 chick size, 9x11x5½ deep, one compartment, weight 12 lbs. per doz. bundle. Per doz. \$2.00, Each 25 cts.
No. S 50—50 chick size, 18x11x5½ deep, two compartments, weight 16 lbs. per doz. bundle. Per doz. \$3.25, Each 30 cts.
No. S100—100 chick size, 18x22x5½ deep, four compartments, weight 30 lbs. per doz. bundle. Per doz. \$4.50, Each 40 cts.

Furnished complete with staples—for assembling. Can also furnish without staples. Please order standard bundles of one dozen of a size.

Fig. 127

HATCHANEGG BOX

Fig. 128

The merits of Anderson "HatchanEgg" boxes can be summed up in nine points taken from a letter recently dictated to one of our customers.

1. Large cell for hatching eggs.
2. Excelsior cushion.
3. Double wall corrugated on all sides.
4. Protection of division boards.
5. Great strength of container.
6. Convenience.
7. Easy and quick pack.
8. Attractive package.
9. Can be sealed to prevent pilferage.

The same grade double faced, light weight, strong, waterproof finish, corrugated fibre board used in the "Master Breeders" Chick Boxes goes into this package. The walls are double thickness throughout. The cellular construction not only protects the eggs from jar but guards them against excessive heat or cold.

No. 3. 15 Egg, 18 lbs., per doz. \$3.50, each 40 cts.
No. 4. 30 Egg, 28 lbs., per doz. 4.50, each 50 cts.

ERIE EGG BOX

Fig. 129

Made in two sizes for shipping eggs for hatching. Box is already to put the eggs in and insert the handle. Eggs should be wrapped with soft tissue with same material for cushion at the bottom for eggs to rest on. Can be sent by mail or express. Will stand a dead weight of over ½ ton. Use them once and you will always use them.

PRICE

No. 1. Holds 15 eggs. Weight 10 lbs. Per doz. \$5.50
No. 2. Holds 30 eggs. Weight 19 lbs. Per doz. 6.25

X-Ray Egg Tester.....\$0.40

Fig. 130

THE "EGGSELL" PARCELS POST BOX

Fig. 131

The unique construction of this box affords the maximum protection of the eggs. None of them ever comes in contact with the side wall of the box and the diagonal crossing of the divisions prevents the weight of the eggs above from crushing those below. If your eggs are in perfect condition when you pack them, you can rest assured they will arrive at destination without breaking. Owing to the special construction of the box, the length and width is always the same.

The boxes come complete with instructions for properly packing and sealing.

	Each	Per doz.	Wt. doz.
1 dozen size.....	\$0.25	\$2.50	9 lbs.
3 dozen size.....	.35	3.75	19 lbs.
4 dozen size.....	.40	4.25	21 lbs.
5 dozen size.....	.45	5.00	27 lbs.
6 dozen size.....	.55	6.00	33 lbs.

Fig. 132

Handy for Retail Trade

Dozen\$0.15

Bundle of 125..... 1.10

Per 1,000 8.00

Printing \$2.00 per M
your name.

THE ALUMINIZED BOX

FOR PARCEL POST

has proven itself by constant users to be the most practical idea for shipping Eggs, butter and other farm products by parcel post.

It is practically egg-break proof.

Fig. 133

REVERSIBLE ADDRESS CARD

placed under the lid, provides for going and returning addresses, making the Crate intermailable between two parties. This eliminates readdressing for each shipment. Stamp slips are also provided, so that shipper may pay and place postage for the return mailing.

Postage is no more than for other Egg Carriers.

	Price
2 dozen size—all eggs, 3 pounds.....	\$1.50
3 dozen size—all eggs, 4 pounds.....	1.75
4 dozen size—all eggs, 5 pounds.....	2.00
6 dozen size—all eggs, 6 pounds.....	2.50

POULTRY KILLING KNIFE

Fig. 134

Price, each, \$0.55

See our offer on page 96 for Poultry and Garden Books

Have a Conkey Corner in Your Poultry House

Raising poultry is pleasant and profitable when "good luck" is with you. Good luck, however, is not merely a matter of chance, but of **BEING PREPARED**. For more than twenty-five years Conkey has been **THE POULTRY DOCTOR**. Take his advice. Install a Conkey Corner of remedies in your poultry house as insurance against disease, trouble, loss and disappointment.

We sell Conkey's Poultry and Stock Remedies because we know they are reliable and we can guarantee them as follows:

Your money refunded cheerfully if any Conkey remedy does not satisfy.

CONKEY'S ROUP REMEDY

When Roup breaks out there's not time to experiment—start treatment at once—the disease is very contagious. Cold, rainy weather and changeable conditions intensify Roup. When birds sneeze, froth in eyes, or run at nose put Conkey's Roup Remedy in the drinking water. Sick birds doctor themselves and others are protected from catching the disease. Better still, always at the first sign of "roupy weather," place Conkey's Roup Remedy in fountains—it's a great preventive.

Packages 25c, 50c, \$1.00; breeder size (5-lb. can), \$5.75. All postpaid.

CONKEY'S ROUP PILLS

For treating individual cases and for use at shows when birds develop colds. These pills have saved many a valuable bird.

Packages 30c, 60c, \$1.20, all postpaid; breeder size (1,000 pills), \$3.00; \$3.10 postpaid.

CONKEY'S WHITE DIARRHEA REMEDY

Once you have used this old reliable preparation you will never be without it. As a preventive of bowel troubles, White Diarrhea and other digestive complaints, it has given great satisfaction for many years.

This remedy is also recommended as a preventive measure and in treatment of coccidiosis, a diarrhetic condition which attacks chicks similarly to White Diarrhea, but which differs from White Diarrhea in that a principal symptom is bloody droppings rather than white.

Packages 25c, 50c, \$1.00, all postpaid; breeder size (1,200 tablets), \$3.50; \$3.60 postpaid.

CONKEY'S CHOLERA REMEDY

So-called Cholera, bowel troubles, indigestion, diarrhea and kindred ailments often kill a whole flock in a few days. Diarrhea, a drowsy, listless appearance and great thirst—these are the signals to put Conkey's Cholera Remedy in the drinking water.

Packages 25c, 50c, \$1.00, all postpaid; breeder size (5 lbs.), \$2.50; \$2.65 postpaid.

CONKEY'S NOX

The New Solidified Disinfectant and Stock Dip.

Here at last is a high-grade disinfectant in solid form. A little cube—only an inch square—mixed in water makes a gallon of dip or disinfectant with a co-efficient of 5.25, making it 2 to 3 times as strong as most coal-tar disinfectants.

Conkey's Nox is made of imported oils—noted for their uniformity—and concentrated by an exclusive, patented process.

Packages, 6 cubes, 25c; 15 cubes, 60c; 30 cubes, \$1.00; 75 cubes, 2½ lbs., \$1.75; 160 cubes, 5 lbs., \$3.25. Parcel post, express or freight extra.

Ask for special prices on larger quantities.

CONKEY'S SORE HEAD REMEDY

For dangerous, contagious sore-head or chicken pox, pigeon pox, warts and pain. Attacks the trouble from two angles—a powder for the blood and a salve for the sores.

Packages 25c, 50c; 30c, 55c postpaid; breeder size (1 lb. salve, 5-lb. powder), \$3.50 or 10 lbs. powder only, \$3.50; \$3.65 postpaid.

CONKEY'S LICE POWDER

For dusting hens, nests, growing chicks—wherever body lice must be overcome.

Packages 10c, 25c, 50c; pails, 12-lb., \$1.40; 25-lb., \$2.70. Parcel post, express or freight extra.

CONKEY'S POULTRY WORM REMEDY

—Rids birds of many troublesome worms.
25c, 50c; 30c, 55c postpaid; breeder size (5 lb.) \$2.75; \$3.10 postpaid.

CONKEY'S CANKER AND BRONCHITIS REMEDY

This splendid remedy checks cankerous growths and sores and soon restores the bird to normal. This remedy is Conkey's Specific for bronchitis. Also desirable in treating individual cases of Roup and for use at shows for colds.

Package 50c postpaid.

CONKEY'S POULTRY TONIC

Every bird from chick to maturity will be more productive, healthier and more profitable if given a good tonic and regulator. Conkey's Poultry Tonic helps birds to get more out of their feed; they produce more eggs and better fesh on **LESS FEED**, by better digestion and assimilation.

Conkey's Tonic is all medicine—free from filler, red pepper, and "hot stuff" to over-stimulate the birds, and break down their health. Conkey's builds on a natural, healthy basis, inducing steady and persistent laying. Keeps the young chicks growing, makes molting easy, strengthens the bird for bad weather and generally maintains a high health average.

Buy it by the pail. Packages 25c, 50c, \$1.00; pails, 12-lb., \$1.60; 25-lb. \$3.00; bag, 50-lb., \$5.00; 100-lb., \$9.50. Parcel post, express or freight charges extra.

EVERYBODY KNOWS ROSS' SEED GROWS

CONKEY'S *The Original* BUTTERMILK STARTING FEED RAISES HUSKY CHICKS

A Ready Prepared Mash for baby chicks and all self-feeding young fowls. This remarkable feed—originated by Conkey and prepared through processes controlled and used exclusively by Conkey is a complete ration—containing all the elements needed for safely starting baby chicks, ducklings, goslings, poults, guineas, pheasants, etc.

This superior chick mash was the first commercial poultry feed containing buttermilk—that is why we call it the only ORIGINAL buttermilk starting feed.

Conkey's did not "just happen"—it is a scientifically-balanced feed as clean and wholesome and as conscientiously-prepared as "infant food." Selected, plump grains, ground to proper fineness, are combined with other ingredients so as to make the feed readily digestible, palatable and nutritious. TASTE it, SMELL it, that's the way to judge a chick feed.

Conkey's carries buttermilk in just the right proportion as an aid in prevention of bowel troubles, White Diarrhea, "leg weakness," etc. The buttermilk is Semi-Solid buttermilk, blended with the other ingredients by the ORIGINAL process in such a way as to preserve the-appetizing, tonic, and other properties of the newly-churned product.

The moisture in the buttermilk is drawn off by the exclusive Conkey process in such a way as not to subject it to the terrific heat usually required in "drying" buttermilk.

Lactic acid in buttermilk is described as an "Intestinal broom" which sweeps away unfriendly bacteria and disease germs in the delicate digestive tract. Buttermilk is also rich in one of the vitamins necessary to growing birds. It is a wonderful appetizer, aid to digestion and flesh builder.

FEED IT FIRST 8 WEEKS

Conkey's is all the chicks need the first eight weeks except greens, charcoal, grit, clean water and some fine scratch grains in the litter for exercise. Give grit and water from the start. During the second week add green stuff and in the fourth week finely cracked chick grains, like Conkey's Chick Grains.

Packed in convenient sizes from 2½ lbs. up. Buy 1½ lbs. for every chick. Ask or write for prices.

CONKEY'S *The Original* BUTTERMILK GROWING MASH

This mash—second link in the Conkey Chain—is fed after the chicks are eight weeks old. It is balanced for rapid and even development of muscles, bone, vital organs and feathers. Like all Conkey mashes it is low in fibre, clean and always uniform.

Raising chicks to healthy and profitable maturity—this difficult problem is solved by the Growing Mash. Just as the Starting Feed is balanced to carry baby chicks safely through the critical first eight weeks, so is the Growing Mash a complete mash ration for developing birds to maturity.

The Growing Mash differs materially from the Starting Feed—meat scraps are added, bone is increased, and corn decreased—growing birds demand a heavier diet than delicate baby chicks.

The UNBROKEN CHAIN system of feeding originated by Conkey—one mash for starting chicks, one for developing, one for laying—teaches an invaluable lesson in demonstrating the need of three different rations for most economical poultry feeding.

GUARANTEED ANALYSIS

Crude Protein, 12%; Crude Fibre, 4%;
Crude Fat 3%; Nitrogen Free Extract, 56%;
Carbohydrates, 60%.

Ingredients

Semi-Solid Buttermilk, pinhead oatmeal, a special wheat middlings, whole corn meal, corn feed meal and granulated bone.

However, it is not the buttermilk nor the other ingredients alone that causes people to declare that their chicks grow twice as fast on Conkeys. It is not the buttermilk alone that protects the chicks from disease during the first critical eight weeks. The secret is in the combination of these materials by the Conkey method—the balancing of the ration, as Conkey alone knows how.

Don't be influenced by "cheaper" imitations labeled "buttermilk"—that word may be used to deceive unwary buyers—to cover up a multitude of "sinful" grains, mill sweepings, poisonous weed seeds, musty screenings, worthless by-products, or other poor material having little or no nutritive value.

Conkey's is so palatable that one poultryman said it ought to be used for "breakfast food." One woman wrote: "My chicks just love Conkey's. It is so tasty, and my, how they do grow! Better still, we didn't have a single loss in the present hatch, no White Diarrhea or other bowel troubles like before we began using Conkey's."

GUARANTEED ANALYSIS Conkey's Buttermilk Growing Mash

Crude Protein, 18%; Crude Fibre, 5%; Crude Fat 4%; Nitrogen Free Extract, 50%; Carbohydrates, 55%.

Ingredients

Semi-Solid Buttermilk, wheat middlings, wheat bran, corn feed meal, ground barley, hulled oats, bone meat scraps, bean meal and oil meal.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Poultry and Chick Feed

The object of scientific feeding of poultry and chicks is to start the chicks right and then follow up this course till the fowl produce eggs, and then to keep them at it.

Chicks when first hatched should have nothing but Grit and pure water for 36 to 48 hours, and after that the very best thing is finely chopped boiled eggs, or the sterile eggs from the incubator. Then after that coarsed Grains can be fed. Conkey's Buttermilk Starting Food one of the best.

WYANDOTTE CHICK FOOD

After the chicks are a few days old the best food in the world is our specially prepared Wyandotte Chick Food made from the choicest Grains. A scientific feed which contains everything which the little chicks should have except drinking water and a little Grit.

We have manufactured this food for many years, and it will be better than ever the present year. Some of the largest poultry raisers in the state use the Wyandotte Chick Food, and nothing else. Mixed in the right proportion to insure strong, healthy and lively Chicks.

Price: 25-lb. bag, \$1.10; 50-lb. bag, \$2.00; 100-lb. bag, \$3.75. Send for special circular.

WYANDOTTE CHICK GROWER

Designed for chicks that have reached the age where they do not need a little chick food. This will carry them through to maturity, without any other grain. Skimmed milk (if it can be had) and beef scraps should also be fed, and plenty of fresh clean water. Price on application.

WYANDOTTE SCRATCH FOOD. This can be used to follow Wyandotte Chick Grower, either as an every day food or more especially as an egg producer. It consists principally of whole grains, such as wheat, oats, barley, corn, huckwheat, sunflower, Kaffir corn, charcoal and oil cake. Beef scraps can not be used in Scratch Food because they will crumble up and go into flour and are lost. We therefore use the oil cake, as it contains nearly as much protein as Beef Scraps. Feeding Wyandotte Scratch Food regularly will produce bone, muscle, and eggs, especially the latter. It contains no oyster shells or grit. No waste material. The fowls will always find something for which to scratch. A small amount of this thrown into the litter after they have gone to roost at night will start them to work early in the morning. Keep the hens busy with Wyandotte Feeds and you will not lack eggs. Simply because a feed looks good to the naked eye is no sign it will produce eggs.

Price, 100-lb. bag, \$2.65.

WYANDOTTE MASH FOOD. In extreme cold weather we recommend feeding a little hot mash just before night. At other times during the cold weather keep Wyandotte Mash Food before your fowls at all times. This can be best done by using the Sexton Dry Food Hopper. There is absolutely no waste in using one of these feeders and there is no waste material used in mixing Wyandotte Mash Food. This is sold under a guarantee to contain 16 per cent protein, 3½ per cent fat, 10 per cent fiber. It contains those grains that are high in egg making qualities. You are safe in buying food with the name Wyandotte, as we are the sole manufacturers.

Price, 100 lbs., \$2.75.

DOMINO DRY MASH with dry buttermilk. This mash is very high in protein and is fed either wet or dry with the very best of results by poultrymen who have given it a trial.

Price, 100 lbs., \$3.65.

SEMI-SOLID BUTTERMILK

One hundred per cent pure adulterated Buttermilk with nothing added to it, only the surplus water removed. It is sterilized and keeps always. For baby Chicks, dilute four to eight times, from the time they are hatched. For growing stock, can be used as for chicks or with the wet mash. For laying and breeding stock, three to four pounds per day, per 100 birds, either as a drink or a wet mash. Takes the place of Beef Scraps and is a wonderful stimulator for chicks and growing stock and a wonderful egg producer for hens. Equally good for pigs and cattle.

5 pounds in Paper Cans.....\$0.65
10 pounds in Paper Cans.....1.10
50 pounds in Steel Pail.....5.50

Not available.

Barrels, about 400 lbs., per lb.....7½¢

SHREDDED ALFALFA. This is one of the best foods for all kinds of poultry yard hogs. It is alfalfa pure as can be had, finely ground, and should be mixed with other kinds of feed, and being very light, it makes a very nutritive food and is also an egg-producer. 100 lbs. \$3.00.

PIGEON FOOD. A mixture of Kaffir corn, wheat, etc. 10 lbs., 50 cts., 100 lbs., \$4.50.

OLD FASHIONED BEEF SCRAPS. Very high in Protein (per 100 lbs.) \$4.00.

GRANULATED BONE. Fresh cracked bone, without any meat, will keep for any length of time. Should always be kept in a box where the hens can get to it. 100 lbs. \$4.50.

FINE CRACKED BONE. For small chicks; made from best selected white bones, finely cracked and screened. 8 lbs. 60 cts., 50 lbs. \$2.60, 100 lbs. \$5.00.

CRUSHED OYSTER SHELL. For poultry or chicks. 100 lbs. \$1.25.

POULTRY GRIT. Cracked in three sizes. No. 2 for poultry; No. 3 for pigeons; No. 4 for small chicks. 100 lbs. \$1.25.

LAMBERT'S DEATH TO LICE. As its name implies, it is sure death to lice on hens and chickens. It is harmless to human and animal life. Should be used on setting hens; it will not injure the eggs or harm the youngest chick. 15-oz. size 25 cts., 48-oz. size 50 cts., 100-oz. size \$1.00.

DR. HESS' INSTANT LOUSE KILLER. Kills lice. Put up in round cans with perforated top ready for use in one and three-pound packages. The large size is the cheaper. You get three pounds for 60 cts., and, with the handle, it is just as convenient as the smaller size. Large size 60 cts., weight 5 lbs.; small size 25 cts.

PRATT'S LOUSE KILLER. Put up in one-pound size. It kills the lice. Small size 25 cts., large size 50 cts.

KAFFIR CORN. A good food for hens, chickens or pigeons. Market price.

DRY GROUND FISH. For poultry. This is a great egg-producer, and takes the place of beef scraps. 100 lbs. \$5.00.

WYANDOTTE BONE AND MEAT SCRAPS. These scraps are ground fresh for us and do not contain any oyster shell or tankage, but are good fresh bone and meat. 100 lbs. \$4.00.

WYANDOTTE DAIRYMAN'S CLEANER. An absolute necessity in every dairy. A powder, easy to use, and recommended by everyone that ever tried it. Price: 5-lb. bag 45 cts., 80-lb. keg \$5.36, 230-lb. barrel \$15.26.

KOW KARE. Prevents and cures abortion and barrenness. Increases the flow of milk. It is for cows only. 65 cts., weight 2 lbs. \$1.25, weight 4 lbs.

COW RELIEF. Cures caked bags and sore teats. Should be in every stable. 60 cts. and \$1.20.

CALF CORDIAL. Sure cure for scours and other similar complaints. 75 cts.

WYANDOTTE EGG PRESERVATIVE

Enjoy summer prices of eggs in winter. A harmless preparation in granulated form, easy to handle and economical to use. Will keep eggs 2 to 3 years in as good condition as when packed if directions are followed carefully. One quart will make four gallons of solution.

Price 25 cts., shipping weight 2½ lbs.

WATER GLASS

A transparent liquid for preserving eggs. Comes in pints, quarts and gallons. Pint can mixed with 11 pints of boiled water will preserve from 6 to 10 dozen eggs.

This preparation is used by many in preference to the dry powder. The preservative will preserve eggs perfectly.

Price: 1 pt. 25 cts., 1 qt. 40 cts., 1 gal. 90 cts.

EVERYBODY KNOWS ROSS' SEED GROWS

Raise all Your Baby Chicks Pratts Buttermilk Baby Chick Food

This original "baby food for baby chicks" has taken all the guess, worry and loss out of raising baby chicks. Made of sweet, wholesome, purest ingredients in the most modern poultry feed mill in America and mechanically predigested, it is life insurance for chicks. Millions of pounds of

Pratts Buttermilk Baby Chick Food

Beware of imitations, there are none so good. Pratts is guaranteed to raise every livable chick. Equally good for young turkeys, guineas, ducks, pheasants and game birds. A perfect "baby food" for young fowls.

25c and 50c packages and 14, 25, 50 and 100-lb. bags.

are used annually by successful poultrymen all over the world. Use it for your chicks for the first month or six weeks and watch results. Every ounce is full of bone, muscle, feather and health builders. Chicks grow strong, uniform, vigorous and sturdy, and are free from leg weakness, pasting up and digestive troubles. You'll pay for the food in the chicks you'll save.

Successful Poultrymen Use Pratts Poultry Preparations

For Health and Eggs Pratts Poultry Regulator

has no equal. It is the world's original poultry regulator and has been the standard for over 50 years. It is a natural tonic supplying numerous health necessities required by heavy laying hens. Tones up system, regulates bowels, aids digestion, sharpens appetite, wards off disease and increases vitality. Use it the year round for breeders, layers and growing stock.

25c, 50c, \$1.10 packages; 12-lb. pail, \$1.65; 25-lb. pail, \$3.00; 100-lb. drum, \$10.00.

Cleanliness Means Poultry Health Pratts Poultry Disinfectant

insures poultry health. It is a cheap, powerful, non-poisonous disinfectant. Spray it about poultry houses, roosts, dropping boards, nests and wherever a strong disinfectant is needed. A deodorizer, germicide and liquid lice killer. Effective in the treatment of roup, cold and contagious diseases.

Quart, 55c; half-gallon, 95c; gallon, \$1.60.

Save Your Birds from Heavy Roup Losses

Pratts Roup Tablets (or Powder)

Use it as a treatment or a preventive. A simple, powerful remedy with a long record of success in the treatment of colds, roup, diphtheria, catarrh, etc. Guaranteed to give satisfaction or your money back.

25c and 50c packages.

Pratts Powdered Lice Killer

is powerful, economical, non-poisonous and non-irritating. For use on poultry, in dustbaths, nests, etc. Rids poultry of all ages, dogs, cats, horses, cattle, hogs and sheep of lice, ticks and other insect pests. Can also be used on vines, plants and flowers.

In sifter top cans at 25c and 50c.

See our offer on page 96 for Poultry and Garden Books

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

BABY CHICKS

HUSKY DAY OLD CHICKS

Guaranteed safe arrival when shipped
direct from our hatchery.

Every indication points to a large increase in the poultry industry for 1923 and we see no reason why there should not. The poultry business is a business that pays 100% profit when handled right and there is a wonderful opportunity for this increased business. Our advice is to get your order in early for day old chicks and not be disappointed the way many were last year, not being able to get their orders when wanted.

Beginning March 15th, we will have on hand the following breeds, which we can furnish at prices named.

	Per 100	Per 50	Per 25
White Wyandottes	20c	22c	24c each
White Plymouth Rocks..	20c	22c	24c each
Rhode Island Reds.....	20c	22c	24c each
Barred Plymouth Rocks.	20c	22c	24c each

These prices are based on the retail price of eggs at 70 cts. If eggs are cheaper, deduct \$1.00 per hundred on chicks for each 5c per dozen on eggs.

Above prices are f. o. b. Worcester or delivered by parcel post from the hatchers. The breeds mentioned are what we carry in stock at our store, but we can furnish almost any others from the hatchers. Let us book your order now. How Many?

DR. HESS & CLARK

Carry the poultry through the molting season quickly. Tone up the birds for quick laying by feeding **POULTRY PAN-A-CEA**.

1½ lb. Pkg. 36 in. cs.....	\$0 25 ea.
5 lb. Pkg. 36 in. cs.....	.75 ea.
12 lb. Pkg. 12 in. cs.....	1.50 ea.
25 lb. Pails	3.00 ea.
50 lb. Drum	5.50 ea.
Dr. Hess' Roup Remedy.....	25 cts and 50 cts.
Dr. Hess' White Diarrhoea Remedy,	
.....	25 cts., 50 cts. and \$1.00
Dr. Hess' Worm Powder.....	50 cts.

DR. HESS' INSTANT LOUSE KILLER. Kills lice. Put up in round cans with perforated top ready for use in one and three pound packages. The large size is the cheaper. You get three pounds for 60 cts., and, with the handle, it is just as convenient as the smaller size. Large size 50 cts., weight 5 lbs.; small size, 25 cts.

Success in the poultry business is entirely within the grasp of anyone who will take the time to master its underlying principles. It is a science, not a game of chance.

We can furnish you a list of poultry books, which give the different phases of poultry breeding and poultry keeping for profit. Whether you have a small coop or have thousands of fowls, it will certainly be of interest to you and in all probability to read any one of these books will be a source of profit. We have the following list which we can furnish promptly.

Profitable Culling and Selective Flock Feeding. By Homer W. Jackson.....	Price \$1.50 Postpaid
The Production of 300-Eggers and Better by Line Breeding. By M. E. Atkinson.	
Price with Art Cover.....	\$2.00 Postpaid
Cloth Bound	\$3.00 Postpaid
Use of Artificial Light to Increase Winter Egg Production. By Grant M. Curtis.....	Price \$1.50 Postpaid
Poultry for Exhibition. By J. H. Robinson.....	Price \$2.00 Postpaid
High Egg Production. By Grant M. Curtis.....	Price \$2.00 Postpaid
Fundamentals in Poultry Breeding. By John H. Robinson	Price \$2.00 Postpaid
How to Feed Poultry for Any Purpose With Profit. By John H. Robinson.....	Price \$1.25 Postpaid
Successful Back-Yard Poultry Keeping. By Homer W. Jackson.....	Price \$1.00 Postpaid
Poultry Houses and Fixtures. By Homer W. Jackson	Price \$1.00 Postpaid
Artificial Incubating and Brooding. By Homer W. Jackson	Price \$1.00 Postpaid
The Plymouth Rocks. By Wm. C. Denny.....	Price \$1.00 Postpaid
The Wyandottes. By J. H. Drevenstedt.....	Price \$1.00 Postpaid
The Leghorns. By J. H. Drevenstedt.....	Price \$1.00 Postpaid
The Orpingtons—Black, Buff, White and Non-standard. By J. H. Drevenstedt.....	Price 75 cts. Postpaid
The Asiatics, Brahmans, Cochins and Langshans. Price 50 cts. Postpaid	
American Standard of Perfection. Price (cloth binding) \$2.50 Postpaid	
Plymouth Rock Standard and Breed Book. By H. A. Nourse.....	Price \$2.50 Postpaid

A Pair of Buttercup Fowls

One of the best breeds to come into the market is the Sicilian Buttercups. They are called the 300-egg bird. The name Buttercup was given them because of the peculiar shape of the comb. The male birds are mahogany red, similar in shape to the Leghorns, while the females are a light yellow with black spots on the end of each feather, making a very showy and attractive bird, but unlike the Leghorns they are very docile and like company. They are non-setters and the pullets commence laying when about four months old. We can supply only a limited number of settings.

Price, setting 15 eggs, \$3.00 postpaid.

A Practical Poultry Library

The Wyandotte Standard and Breed Book. By H. A. Nourse.....Price \$2.50 Postpaid

FARM AND GARDEN BOOKS

We supply all standard books relating to American farming and gardening. If the list below does not contain your wants, write us.

Dairy Cattle for Official Production. By Morris H. Roberts, Jr.....	Price \$3.75 Postpaid
Dairy Record and Feeding Chart. By Morris M. Roberts, Jr.....	Price \$3.00 Postpaid
Entomology. By John B. Smith.....	Price \$2.00 Postpaid
Farm and Garden Rule Book. By L. H. Bailey.....	Price \$3.00 Postpaid
Farm Animals. By L. H. Bailey.....	Price \$6.00 Postpaid
Farm Crops. By L. H. Bailey.....	Price \$6.00 Postpaid
Farm Management. By F. W. Card.....	Price \$2.00 Postpaid
Manure and Fertilizers. By H. J. Wheeler.....	Price \$2.50 Postpaid
Soiling Crops and the Silo. By Thomas Shaw.....	Price \$2.00 Postpaid
Annals. By Alfred Carl Hottes.....	Price \$1.25 Postpaid
Fruit Grower. By Prof. M. G. Kains.....	Price \$1.00 Postpaid
Garden Guide	Price \$1.00 Postpaid
Landscape Gardening. By Robt. B. Cridland.....	Price \$2.50 Postpaid
Plant Propagation. By Alfred C. Hottes.....	Price \$2.00 Postpaid

EVERYBODY KNOWS ROSS' SEED GROWS

Fig. 135

A **SUBSTANTIAL FENCE** plays an important part to the profitable side of farming and the neatness in appearance of a well put up wire fence adds more than double the cost of the fence to the price of the farm. They are to the farm in general what paint is to the buildings. **PUT UP FENCES** and let the hogs and other animals go after the waste places and turn into profit what would otherwise go to waste.

Our general purpose farm fence is the 1047x12, and the dimensions contained in the above figures are explained as follows: Figure 10 represents the number of horizontal wires, 47 represents the height in inches and 12 represents the distance apart of the upright bars. The top bars are No. 9 wire, the bottom bar No. 10, and the intermediate bars and stays No. 11 wire. This makes an ideal up-to-date farm fence, strong enough for any use. It is heavily galvanized and will last for years and is much more sightly than the old ramshackle stone walls or wooden fences. When this fence is used in connection with steel posts, all of the weeds, etc., can be burned right up to the fence which is another great advantage in keeping the field entirely free from refuse matter.

We have a good stock on hand at all times of the following numbers:

1047x12	10 rods	\$7.00	1047x6	10 rods	\$10.00
845x12	10 rods	5.50	635x12	10 rods	4.60
832x6	10 rods	7.85			

AMERICAN STEEL FENCE POSTS

Too much cannot be said of the American Steel Fence Post. While the first cost of the steel post and the wood post is practically the same, the steel post can be set in about 5 minutes, while the wood post takes surely a half hour. With the American Steel Post the fence line can be burned off every year, thus getting rid of insects, weeds and rubbish. The clean farm grows the best and biggest crops and with the least labor and expense.

We carry a good stock, but the following are the best sellers:

No. 13.	7½ feet.	Each.....	\$0.90
No. 16.	6½ feet.	Each.....	.75

Send for complete fence catalogue giving all details.

AMERICAN POULTRY FENCE

This fence combines the same features entering into the manufacture of the American Farm Fence, viz.: the Hinge Joint, Tension Curve, amply providing for connection and expansion, and its adaptability to uneven ground, without cutting or mutilating the fence.

In comparing the price of this fence with other nettings don't forget that you are getting a fence as strong as the regular stock fence.

Made of No. 11 and No. 14 Wire. This fence is much stronger than any other fence sold as a poultry fence, the Top and Bottom Bars No. 11 Galvanized Steel Wire, Intermediate Bars No. 13 Galvanized Steel Wire. Stay Wires No. 14 Galvanized Steel Wire.

At the bottom are four spaces of 1½ inches each; the higher spaces graduated to 5 inches.

Design No.	of Bars	Height	Weight	Price
2158	21	58 in.	129 lbs.	\$8.50
2053	20	53 in.	122 lbs.	8.00
1948	19	48 in.	115 lbs.	7.50

Send for special fence catalogue. promptly to those in this vicinity.

Fig. 136

Fig. 137

TWO-POINT BARB WIRE

Fig. 138

TWO-PLY TWISTED WIRE

Fig. 139

We carry a large stock of barb wire, both two or four point, regular and thick set. Also two-ply twisted wire (no barbs). This we have on 80 rod spools, \$5.00 each.

RIBBON WIRE

Fig. 140

Per pound, \$0.09

BALE TIES

Fig. 141

We carry the 9-ft. No. 15 cross head ties in stock. We find this to be the most popular size as it makes the most convenient bale of hay. It is made of large tough wire. Per bundle of 250 wires, \$3.25.

Estimates on field, farm and lawn fences all put up furnished

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

GALVANIZED POULTRY NETTING

Combination 1 in. and 2 in. Mesh Netting. A popular method of erecting Poultry Netting for yards where small chickens are to be kept on one side and fowls on the other side. Erect a strip 18 or 24 inches wide of 1-inch Mesh Chicken Netting at the bottom and a strip 36 or 48 inches wide of 2-inch Mesh Poultry Netting above the finer mesh, as illustrated in cut.

Fig. 142

PRICE FOR ROLL OF 150 RUNNING FEET No. 19 Gauge Wire No. 20 Gauge Wire

1 ft. 2 in. mesh.....	\$ 1.65	1 ft. 2 in. mesh.....	\$ 1.40
1½ ft. 2 in. mesh.....	2.35	1½ ft. 2 in. mesh.....	2.00
2 ft. 2 in. mesh.....	3.00	2 ft. 2 in. mesh.....	2.50
2½ ft. 2 in. mesh.....	3.50	2½ ft. 2 in. mesh.....	3.00
3 ft. 2 in. mesh.....	4.10	3 ft. 2 in. mesh.....	3.50
4 ft. 2 in. mesh.....	5.40	4 ft. 2 in. mesh.....	4.70
5 ft. 2 in. mesh.....	6.75	5 ft. 2 in. mesh.....	5.90
6 ft. 2 in. mesh.....	8.00	6 ft. 2 in. mesh.....	7.00
1 ft. 1 in. mesh.....	4.15	1 ft. 1 in. mesh.....	3.25
1½ ft. 1 in. mesh.....	5.85	1½ ft. 1 in. mesh.....	4.70
2 ft. 1 in. mesh.....	7.50	2 ft. 1 in. mesh.....	5.85
2½ ft. 1 in. mesh.....	8.75	2½ ft. 1 in. mesh.....	7.00
3 ft. 1 in. mesh.....	10.00	3 ft. 1 in. mesh.....	8.00

As Certain-teed goes up, roofing costs come down. Certain-teed costs less to buy and less to lay than any other type of good roofing. It reduces roof maintenance to practically nothing.

Certain-teed reduces labor costs, because it is easily and quickly laid. It reduces roof renewals, because it is proof against most forms of attack which shorten the life of other types of roofing. It is spark-proof and fire-resisting.

Certain-teed Roofing is guaranteed 5, 10 or 15 years, according to thickness. You will save money when you buy Certain-teed. See us before you buy.

1 Ply Light	\$2.00 per roll
2 Ply Medium	2.65 per roll
3 Ply Heavy	3.25 per roll

Each roll lays 100 sq. feet and contains nails, cement, etc.

Individual Shingles, 8x12¼ in., red or green, slate surfaced, \$7.25 per M.

Strips of 4 wide shingles, slate surfaced, red or green, \$6.25 per M.

EXCELSIOR POULTRY FENCE

Fig. 145

Graded from 1¼ in. to 4 ins. for chicks and all poultry. Made of No. 19 wire.

Height Inches	Number of Horizontal wires	Approximate lbs. per 10-rod roll	Price per roll
48	19	33	\$3.85
60	22	38	4.50
72	25	43	5.00

For light stock fence made of No. 17 wire with No. 14 selvage.

48	19	49	\$5.25
60	22	56	6.00
72	25	67	7.00

PERFECTION FLOWER BED BORDER

Fig. 146

Fits any shape or size of flowerbed. No posts required. Bottom left straight to be inserted in the ground. Taken up in Fall and used from year to year. 22-in. height, 13 cts. per foot.

Fig. 143

THE AMERICAN FENCE TOOL

The best, and most useful all around fence tool. It is a hammer, staple and nail-puller, wire cutter, and splicing tongs combined. The tool is drop forged from tool-steel, highly and skillfully tempered. We guarantee each tool.

Weight 3 lbs.
Price, \$1.50 each.

PERFECTION TRELLIS

A most attractive and practical flower and vine trellis. Low priced and durable; the cost is trifling.

19 in. 10c ft.

Single Trellis

Fig. 144

Stormtight

FOR USE ON ANY ROOF IN ANY WEATHER

any weather and stay leakproof many years.

It requires but one coat on a wet or dry surface. It comes ready for use—no mixing, thinning or heating is necessary.

Absolutely warranted in every way, shape and manner. Satisfaction guaranteed.

	Black	Maroon	Green
1 gal.	\$2.00	\$2.50	\$2.50
5 gal.	1.90 per gal.	2.40 per gal.	2.40 per gal.
10 gal.	1.80 per gal.	2.30 per gal.	2.30 per gal.

Stormtight - Liquid furnishes a sturdy, one-piece coating. 1/32-inch in thickness without a lap, seam or nail-hole, which will resist the attacks of

EVERYBODY KNOWS ROSS' SEED GROWS

INTERNATIONAL TYPE M KEROSENE ENGINE

Fig. 147

1½, 3 & 6-HORSE POWER
This is the most economical engine that you can buy. At the present price of gasoline, the cost of fuel is one of the most important questions in buying an engine. For that reason the International people have built this to operate with kerosene and in buying, it is well to consider this one important fact, for the fuel

consumed is the main item of expense in operating any engine.

Here are some of the good points. When taken apart the engine is in ten units or groups of parts, so that any trouble can be easily detected and remedied. The base crank case and cylinder water-jacket are cast in one piece. This means perfect alignment of parts. There are three openings into the crank case that gives access to every part. The crank case can be drained of oil. This means a clean engine. The piston has four rings that hold compression perfectly. The connecting rod has wide, thick bearings. The mixer adjustments are so simple that the engine can be operated by an inexperienced person.

1½ Horse Power, Weight 341 lbs.....	\$ 78.00
3 Horse Power, Weight 494 lbs.....	108.50
6 Horse Power, Weight 869 lbs.....	177.50
30 Horse Power, 5% cash.....	395.00

THE MIDWEST UTILITOR TRACTOR

This hand tractor is designed for the small farm or home garden where there isn't work to necessitate keeping a horse. It plows, harrows and does all kinds of garden work.

Can also be used as a substitute for gasoline engine for operating with belt any machinery such as a Corn Sheller, Root Cutter, Washing Machine, etc. Send for complete catalogue.

Disc Harrowing

FROM AN ACTUAL PHOTOGRAPH

Fig. 148

THE IMPROVED KELLEY-DUPLEX GRINDING MILLS

The Product of a Quarter of a Century's Experience in manufacturing Grinding Mills.

A Continuous Record of Superiority.

The Kelly-Duplex is the Best Mill in the World.

BECAUSE it is provided with a double set of grinders or burrs, for which reason it is called the Duplex.

BECAUSE it is the only mill manufactured which has double or duplex grinders.

BECAUSE it has a grinding surface of just double that of any other mill of equal size, and can therefore do twice as much work.

BECAUSE it can do as much work as any other mill of double its size.

BECAUSE it is very economical in the use of power, running much easier than any other mill.

BECAUSE it will grind any kind of grain, cotton seed, ear corn and cob, with or without shucks, velvet beans, pea vine hay, kafir corn and heads, alfalfa clover hay etc. equally well, and produce a grit of any desired quality, coarse, medium or fine. Capacity.

Fig. 149

	Bu. Per Hr.	Horse Power.	Price.
No. 50 with pulley.....	1½	1 to 6	\$25.00
No. 1	10 to 20	3 to 6	67.50
No. 2	20 to 30	7 to 10	85.00
No. 3	30 to 40	10 to 15	105.00
No. 4	50 to 75	15 to 20	140.00
Freight paid to your station. 5 per cent cash.			

WORCESTER MOUNTED PORTABLE SAW RIG

This outfit makes an ideal equipment to use for home work or for going out sawing wood. The engine is mounted on Worcester Farm Truck with steel wheels, fitted with tilting table saw mounted on the rear. The balance wheel on the saw may be taken off for sawing long wood. Each equipment is fitted with 5" 4 ply rubber belt and belt tightener and is operated by handle with latch. This prevents belt from slipping. A convenient seat directly in front of the engine with foot rest. Easy to travel on the road. A first-class engine. Can be furnished with any size engine, but 6 H. P. is the usual size used for sawing wood and general farm work.

Fig. 150

All complete with 6 Horse engine, belt, etc., ready to use, \$325.00. 5% discount for cash.

ROSS TILTING TABLE WOOD AND POLE SAW

The above will give you an excellent idea of the high type of these saws. They are made of good material throughout and are built in a thoroughly workmanlike manner in every respect. The arbors are of steel, the bearings long and well babbitted. The balance wheels are heavy and well balanced. This machine is finished in an attractive manner. It has a tilting table pivoted so that it balances perfectly, and is therefore a great favorite with the sawyer. Weight, 275 lbs.

Fig. 151

MITING TABLE WOOD SAW FRAME with 95 lb. balance wheel\$27.50

With pole saw attachment with 95 lb. balance wheel..... 37.50

(This pole saw attachment is attached underneath the frame so that anybody can easily saw long wood and being out of the way does not interfere with the working of the saw.)

INTERNATIONAL FEED GRINDER

Fig. 152

Grinding means saving feed and saving feed means saving money. You know from your own experience that when feeding whole corn or oats to your stock, a large portion of it passes through the intestinal tract undigested. By experiment this has been found to be from 12 to 26 per cent. That means that 26 out of every 100 bushels of corn and 12 out of every 100 bushels of oats fed to farm animals is wasted. It fills the stomach and satisfies the hunger, but does not nourish them or increase their weight. The above figures are the results of experiments at Government stations and the tests were made on animals with good teeth and otherwise in healthy condition.

6 inch, No. C Grinder 175 lbs.....	\$30.00
8 inch No. C Grinder 225 lbs.....	35.00
Elevator	15.00

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

WRIGHT'S ANIMAL TETHER

The cut shows the advantage of this invention, which is designed to obviate the danger of horses and other animals becoming entangled in the rope with which they are fastened. It consists of a pole about ten feet in length, connected with an upright bar, upon which it turns in any direction. The animal is fastened to the end of this pole by a rope, which is kept taut above his head by means of a spring at the base of the pole; this keeps the pole high in the air, until in reaching for the feed the animal pulls it down, thus at all times keeping the rope from under his feet.

Price, \$4.25

Fig. 153

THE CHICOPEE CORN SHELLE

Has hardwood frame, well mortised and painted, large hopper adjustable to all sizes of ears, heavy fly wheel separator which separates the ears from the shelled corn, and chaff sieve. Can be furnished with pulley which bolts to flywheel. Price, \$16.50.

Fig. 154

Pyrene Fire Extinguishers

The Fire Extinguisher That Puts Out Any Kind of Fire.

Every automobile should have one and every set of farm buildings should have two or three, one in the house and one in the barn. They will not freeze and will pay for themselves with what they can save from insurance. Price, Nickel \$11.00; Brass, \$10.00.

PHOENIX FIRE EXTINGUISHER.
A dry powder tube. Will stand freezing. Each, \$1.50.

Fig. 155

KRAUT CUTTERS

Fig. 156

PRICE LIST

Number	Knives	Size.	Each
55E	3	9x26	\$2.25
65E	3	11x30	3.25

THE RAPID SLAW AND VEGETABLE CUTTER

There is need of a Rapid Slaw and Vegetable Cutter in every kitchen, every week of the year. Cuts rapidly and uniformly—

Slaw
Potatoes
Beets
Corn off Cob
Green Tomatoes
Pineapple
Chocolate
Cheese

Kraut
Onions
Cucumbers
Horseradish

Cocoanut
Bananas
Apples
Carrots

Fig. 157

The "Rapid" is guaranteed to stay sharp and rust-free for ten years. It is endorsed by Good Housekeeping Magazine. Price \$1.75.

HORN TRAINERS

(Patented October 2, 1906)

Symmetrical horns add to the selling value of an animal. By the timely use of a horn trainer a perfect in-curving horn is obtained.

Breeders should keep a set of four sizes on hand, enabling them to fit at any time any animal of the Jersey or Guernsey breeds. If a single pair only is desired, measure the horns from tip to tip and order the smallest size that will bridge the span when fully opened.

Fig. 158

STOCK SIZES

No. 1 Closes to 5 3/4 inches.	Opens to 7 3/4 inches.
No. 2 Closes to 7 3/4 inches.	Opens to 9 3/4 inches.
No. 3 Closes to 9 3/4 inches.	Opens to 11 3/4 inches.
No. 4 Closes to 11 3/4 inches.	Opens to 13 3/4 inches.

Sent postage prepaid for \$8.50 for a set of four sizes, or \$2.50 each.

ECONOMY BOILERS

No Farmer can afford to be without a farm boiler or large kettle of some kind. The Economy, shown in cut, is the cheapest of any on the market.

For out door use only, as it has no grate.

Prices: 33 gal., net cash price, \$20.00; 48 gal., net cash price, \$22.00; 65 gal., net cash price, \$30.50. Other sizes furnished if desired.

Fig. 159

The kettle of the BARSTOW Caldron Stove is cast with smooth bottom to prevent the contents from scorching.

Whenever a quantity of liquid must be heated the BARSTOW Caldron Stove comes in handy. Druggists, chemists and butchers use it. At the seashore it is used for making chowder and heating water. On the farm it is almost indispensable for cooking feed, rendering fats, etc.

Fig. 160

Size	Inside Diameter of Kettle at Top	Height of Stove	Collar	Price
16	20 1/2"	31 1/2"	5 1/2"	\$33.00
21	22 1/2"	35 1/2"	5 1/2"	\$4.60
30	25 1/2"	33 1/2"	6"	\$9.50
45	31 1/2"	37"	6"	\$0.00

For wood grate deduct \$2.00 each.

EVERYBODY KNOWS ROSS' SEED GROWS

McCORMICK-DEERING ENSILAGE CUTTER

"A Safety First" ensilage cutter with a boiler plate fly wheel. This type of boiler plate wheel is especially strong, insuring safety at all speeds. The feed throats on this machine are high as well as wide, giving the machine a very great capacity, so arranged that the tians blow straight up the pipe.

Extra set of knives packed with each machine. Come regularly equipped with straight knives, but curved knives can be furnished on special order. Knives and cutter bar instantly removable.

G. \$225.50; F. \$164.00. 5% discount for cash.

	Diameter of Flywheel	Diameter of Flywheel Shaft	Width of Feed Throat	Height of Feed Throat	Length of Cuts	(PULLEYS ALL COVERED)				SPEED Rev. per Minute	Power	Capacity (Same for both cutting and shredding) (Based on 1" Cut)	Approx. Weight	Trucks
						Cat. No.	Diameter	Face	Bore	Used				
Type G	36"	1 1/4"	11"	5 1/2"	3/8"-1/2"-3/4"-7/8"	392L	10"	8"	1 1/2"	Regular	800-900	10-15 H.P. Gas. or Kerosene	10-12 Tons Per Hour	3" Tire Wheels 22" Front and Rear
Type F	30"	1 1/4"	9"	3"	(Two knives) 1"-1 1/2"-2"-2 1/2" 1 1/2"-2"-2 1/2"-3" (Four knives) 1 1/2"-2"-2 1/2"-3" 7/8"-1 1/2"-2"-2 1/2"	1127L	8"	6"	1 1/2"	Regular	800-1000	4-6 H.P. Gas. or Kerosene	3-6 Tons Per Hour On Truck, 1,180 lbs. On Skids, 925 lbs. These are weights with conveyor, Hand feed, about 50 lbs. less.	3" Tire Wheels 22" Front and Rear

THE HARDER SILO

The American dairyman is too well informed to longer doubt that the profit of his business is dependent largely upon the contents of a silo, for he recognizes the fact that in order to make good he must use the returns from his farm.

The Harder silo stands in a class by itself and is the only one recommended by the state and dairy authorities the country over. The rigid, strong door frame not only adds to the stability of the silo, but affords absolutely tight doors, which is necessary for all silage and a continuous ladder. This ladder feature is a valuable addition to the Harder Silo and is not used in connection with any other. It is safe, strong, rigid and affords ample room for a sure footing. The mill work and general construction of all these silos is perfect. Every stave, no matter whether for an 8- or 25-foot silo, is built for that particular silo and has just the correct bevel with a heavy half-inch tongue and groove. As every piece is marked, there is no trouble whatever in putting up one of these silos.

Send for complete catalogue.

Fig. 162

THE CHICOPEE CORN HUSKER

With Safety Device

Fig. 165

This is the most useful machine for the individual farm for both stalk and picked corn. A six horse-power gasoline engine will run it to its full capacity and will husk from 25 to 50 bushels an hour, according to condition and quality of corn. The Chicopee is guaranteed to husk the corn and separate the ears from the stalks without material injury to the grains of corn. Price, \$177.50.

Testimonial letter from a satisfied customer, written December 2, 1915.

Ross Bros., Worcester, Mass.

Dear Sirs:—The corn husker I bought from you last fall gave grand satisfaction. Would recommend it to anyone.

Very truly yours,

JOSEPH ADAMS.

BLIZZARD BLOWERS WITH TRAVELING TABLE

Fig. 164

Wheel Mounted Truck \$54.00

This illustration shows the latest pattern Blizzard Cutter and Blower with self-feed table. The endless apron is composed of two steel chains on which are riveted hardwood slats. These chains are propelled and travel over sprocket wheels secured to a separate shaft directly in the rear of the lower feed roll. The bearings on this shaft are made adjustable, to take up the wear on the drive. The lower feed roll and the traveling table are driven from the same shaft, each by its own sprocket wheel and chain. This device reduces the strain on the drive chain to a large extent. This machine can be operated successfully with a smaller amount of power than any similar cutter on the market.

Length of knives	Capacity	Power H. P.	Speed	Weight	Price with 30 ft. Pipe and Angle Deflectors
L9-11 in.	4-6 tons	3 1/2 - 5	900-1100	700	\$212.20
L11-14 in.	5-8 tons	4 - 7	800-1050	1100	\$251.20
M13-16 in.	7-12 tons	7 - 10	650-1000	1300	\$321.50

Extra pipe for above in 2, 4 and 10 ft. lengths at 85 cts. per foot. Angle joints, \$1.10 each.

THE VICTOR LEVER CUTTER

The best lever cutter made. Knife always up to its place. Prices. No. 1, \$7.25; No. 2, \$7.50; No. 3, \$10.00; No. 2 1/2, \$8.00.

OHIO HAND-POWER CUTTERS

Nos. 8 1/2 and 10 1/2

Fig. 167

BEST HAND CUTTER MADE

No.	Knives	Length of cut	Price
8 1/2	8 1/2	2..... 3/4, 3/8, 3/4 in.	\$40.00
10 1/2	10 1/2	2..... 3/4, 3/8, 3/4 in.	\$60.00

Fig. 163

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

HINMAN ELECTRIC MILKER

Fig. 166

A complete milking equipment, no installation. Operates from any electric light circuit, either direct or alternating current. It is a light, portable unit, containing all Hinman famous designed pump with relief valve. All moving parts are enclosed and all that is necessary to do is to attach plug, turn on current and milk. Let us give you a demonstration.

Price, \$110.00.

STAR AUTOMATIC DRINKING FOUNTAIN

Fig. 170

Can be used in connection with either wood or metal stanchions. The drinking cup for the up-to-date stable. These come drilled and threaded for one inch pipe and are furnished with valve controlled by the animal.

Price, \$3.65 each.

CORNER RACK

Fig. 171

Price, cast iron.....\$2.75
Price, wrought iron..... 2.75

CATTLE AND HORSE SALT FEEDERS

Fig. 167

This method of feeding pure salt to stock has been adopted in the largest stables and grows in favor daily. Salt brick, 25 cts. each; weight, 5 lbs. each; \$2.50 per doz. Salt brick holders, 40 cts. Weight, 3 lbs.

ROTO SALT

Bricks and Holders

Fig. 168

Consists of round container with round salt which automatically feeds down as used.

Salt, 25c each.
Holder, 40c.

CAST IRON FEED BOX

Fig. 174

Price, \$2.75. Weight, 31 lbs.

THE BANNER ROOT AND VEGETABLE CUTTER

Fig. 173

The "Banner" root cutter contains features found in no other machine. It has a self-feeder; separates the dirt from the cut feed and leaves the cut food in such condition that the stock cannot choke.

No. 20—For hand power.....\$20.00

THE RED CHIEF CORN SHELLER

Fig. 169

A substantial but low priced corn sheller, made of iron, painted red. Can be attached to a barrel or box. Adjustable for large and small ears. Has attachment for shelling pop corn. Price, \$2.75.

Pop Corn attachment, 50 cts.

CAST IRON CORN SHELLER

Fig. 172

For convenience and general utility this little corn sheller will be found one of the handiest tools imaginable. It is so simple that there is absolutely nothing about it to get out of order, and so strong that it will not break. Net price, \$2.50. Weight, 15 lbs.

Fig. 175

No. 30—For hand power.....\$35.00

Fig. 176

No. 7
For
Poultry

No. 7—For hand power.....\$8.00

EVERYBODY KNOWS ROSS' SEED GROWS

No. 10 STAR STEEL STALL

(Unit System)

Equipped with Giant Star Stanchion, Star Curb Clamps, Star Automatic Sure Stop and Star Alignment Device.

Fig. 178

The Star Alignment Device, with which this stall is equipped, lines the cows up at the gutter. You can't buy cows all the same length, but the eleven-inch adjustment of the stanchion afforded by the Star Alignment Device solves the difficulty.

Price of Stall, \$12.60. For name plate (if desired) add \$1.05.

STAR LITTER CARRIERS

Take the hard work out of chores

Fig. 179

A Star Litter Carrier will preserve all the fertilizing value of your "pay dirt"—will get it out of the barn where it does harm—ready for the fields where it does good.

One man operating a Star Litter Carrier can clean a barn as quickly as three with the old fashioned wheelbarrow method.

Price, 2 Tub size.....\$40.70
4 Tub size.....41.70
6 Tub size.....43.70

Send diagram of barn and without obligation to you we will gladly give you an estimate of a carrier all complete. One of the greatest labor saving devices in the barn.

THE STAR STEEL STANCHION No. 999

Fig. 180

The cut above shows the Star Steel Stanchion which has given the best of satisfaction. Absolutely sanitary, easily hitched and unhitched and very strong.

Price, plain steel, \$3.40

FLEXIBLE SHAFT HAND POWER CLIPPER

Fig. 181

No stable is complete without one of these outfits for clipping cattle or horses. Inexpensive, easily operated and indispensable on the farm. Insures sanitary conditions of making grade A milk.

Weight, 15 lbs. Price, \$14.00

Extra Blades\$ 1.00
Top Plate2.00
Bottom Plate2.00

STAR FEED TRUCK

Fig. 182

16 Bushels Capacity.....\$35.50
25 Bushels Capacity.....43.90

BUCKLEY'S PATENT WATERING DEVICE

For Watering Stock in Stables

Fig. 183

Water where cattle can get it at any time during the day or night is a necessity in every first-class stable. With the Buckley Basins the water is always there and at the proper temperature.

Not so high price as the Star shown above. Will answer every requirement. Thousands sold. Threaded for 3/4 in. pipe.

Price, each, \$2.00; per doz., \$21.60.

WARRINER'S PATENT CHAIN CATTLE STANCHIONS

These Fasteners are in use in a large number of stables and give universal satisfaction. The cut shows the device; a short chain secures the fastener to the top beam so that it suspends 1 1/2 inches clear of the bottom sill. It is also fastened to the bottom sill by a chain to allow it a free and easy motion and rotation, giving the cattle freedom, yet it is securely fastened. It keeps them clean and gives liberty of action.

Price, each, \$2.50.
Doz. lots, \$28.00.

Fig. 184

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

IMPROVED DE LAVAL CREAM SEPARATORS AND CLARIFIERS For Both Hand and Power

The Standard Separator. A Money
Maker for Any Farmer

De Laval Cream Separators are
guaranteed to be as represented and
to fulfill all the claims made for
them, being sold subject to the
guarantee of their unquali-
fied superiority in every
material feature of separa-
tor practicability inclu-
sive of the production of a greater
value of cream and of a greater
quantity of butter of better qual-
ity than is possible through the
use of any other separator or
creaming system.

Improved No. 5, actual
capacity, 225 lbs.
per hour, \$65.00.

Improved No. 10, ac-
tual capacity, 350
lbs. per hour, \$80.00.

Improved No. 12, actual capac-
ity, 500 lbs. per hour, \$90.00.

Improved No. 15, actual capac-
ity, 750 lbs. per hour,
\$110.00.

Improved No. 17, actual capac-
ity, 1,000 lbs. per hour,
\$125.00.

Improved No. 19, steam turbine, actual capacity, 750 lbs.
per hour, \$180.00.

Improved No. 20, steam turbine, actual capacity, 1,000 lbs.
per hour, \$175.00.

Send for complete catalogue.

Fig. 185

Fig. 188

The above cut shows a motor
power attachment which is used
in connection with all styles of
De Laval separators. With
electricity on the farm at the
present time, your separator can
be changed to power style at a
little additional expense. State
whether you have direct or al-
ternating current, voltage, cycle
and phase.

Price, direct current, \$50.00.

Price, alternating current, \$55.00.

THE BELL BARREL CHURN

Fig. 191

White oak, thoroughly seasoned and kiln dried,
having galvanized iron rim in head, making it
as strong as a barrel with two solid heads.

No churn works so easily, no churn cleaned
more quickly, having no dashers nor paddles.
The churning is done by revolving the churn,
which agitates the cream and makes the butter
separate from the milk.

0, 6 gal. will churn 1 to 3 gal. cream. Weight,	
27 lbs. Price, \$8.00.	
1, 10 gal. will churn 1 to 5 gal. cream. Weight,	
33 lbs. Price, \$9.00.	
2, 15 gal. will churn 1 to 7 gal. cream. Weight,	
38 lbs. Price, \$10.00.	
3, 20 gal. will churn 2 to 10 gal. cream. Weight,	
46 lbs. Price, \$11.00.	
4, 25 gal. will churn 2 to 12 gal. cream. Weight,	
48 lbs. Price, \$14.00.	
5, 35 gal. will churn 3 to 17 gal. cream. Weight,	
80 lbs. Price, \$16.00.	

VARNISHED CYLINDER CHURNS

Designed for those having a small dairy.

Fig. 192

No.	Capacity	
0	1 gal.	\$3.75
1	2 gal.	4.25
2	4 gal.	4.85
3	6 gal.	5.50
4	8 gal.	6.50

20th CENTURY BABCOCK HAND MILK TESTER

Complete with glassware

Fig. 186

6-bottle	\$16.50
8-bottle	17.50
10-bottle	18.50
12-bottle	19.50

BLANCHARD BUTTER MOLD

Fig. 189

Initial engraved 25 cts. extra. Weight 1 lb.	
One-half pound	\$0.85
One pound	1.00
Two pounds	1.25

WATER'S BUTTER WORKER

Fig. 190

No. 0, 1-15 lbs. \$18.50	No. 3, 5-50 lbs. \$21.00
No. 1, 5-30 lbs. 19.50	No. 4, 10-80 lbs. 21.50
No. 2, 5-50 lbs. 20.50	

FLAT WIRE BOTTLE CARRIER

Fig. 193

New Style and Improve-
ment.
6 1-qt. Bottle Carrier, \$1.75.
Weight, 3 oz., 8 1-qt. \$2.25

WIRE BOTTLE CARRIER

Fig. 194

6 1-qt. Bottle Carrier, \$1.50.	
4 1-qt. 2 pint Bottle Car- rier, \$1.50.	
4 1-qt. Bottle Carrier, \$1.25.

Fig. 187

DAIRY SCALES

Graduated in
1 oz. Weighs 30
lbs. Made espe-
cially for dair-
ymen. Has ad-
justment for
taking out
weight of pail.
Price, \$7.50.
Weight, 4 lbs.

EVERYBODY KNOWS ROSS' SEED GROWS

Fig. 195

Heavy Tin Mixing Can with removable strainer hoop and faucet; 6, 8 and 10 can.

	Price
6 can	\$14.00
8 can	15.00
10 can	16.00

HORNE VERTICAL CAN STRAINER

Fig. 196

Is warranted to filter milk through filtering flannel as fast as poured and remove the finest trace of sediment, leaving the milk absolutely clean.

Filtering flannel is superior to absorbent cotton when used with the vertical process. Note illustration showing air vents for the free circulation of air.

Were it not for the air circulation milk could not be successfully strained through filtering flannel, as a quart of air must escape as fast as a quart of milk is poured.

Price of strainer with double flannel, \$3.00. Price of double flannel, 50 cts.

THE R. B. MILK BOTTLES

This bottle is a great improvement over any other style of bottle made, from the fact that it has no corner for the dirt to stick in. The bottom inside being made round, it cleans very easily. We have them made expressly for us, and every bottle is extra quality glass, and stamped on the side: "This bottle to be washed and returned."

Fig. 197

Prices

	Doz.	Gross
One quart ...	\$1.00	\$9.50
Pint	.90	7.50
One-half pint .	.75	6.25

THE IDEAL MILK COOLER

Fig. 198

The Ideal Milk Cooler and Aerator does what no other cooler does, namely, thoroughly cools the milk and at the same time aerates it perfectly, so that it is ready to ship or peddle at once. No time is lost in stirring morning's milk and getting it ready for customers, as it is cooled as fast as milked.

No. 2. Suitable for 10 to 15 cows. Price, \$11.00.

No. 3. Suitable for 25 to 40 cows. Price, \$12.75.

Fig. 199

Very heavy tin milk or cream pails with wood grip. Riveted ears.

12 quart	\$1.45
14 quart	1.55
16 quart	1.65

COMMON SENSE MILK PAIL

Fig. 200

This is a pail we sold in quite large quantities previous to the war. Since then we have not been able to get it until this coming season. The manufacturers have resumed making it and we will, therefore, be able to supply the demand in the future. It is made of extra heavy tin, strainer removable, easy to clean and keep in repair. Price, \$2.75.

Fig. 201

The Dumas square box holds five lbs.; the only box that butter can be turned out of and left in good shape. We also have the five pound round boxes at \$2.00.

MILK CANS

Hi-grade Worcester Pattern Cans with wood bung.

	Ea.	Doz.	by 100
10 qt.	\$2.20	\$2.10	\$2.00
8 qt.	1.85	1.75	1.65
			Ea.
6 qt.			\$1.60
4 qt.			1.45
2 qt.			1.00
1 qt.			.85
1 qt. Funnels..			.25

Fig. 202

THE NEW DOVER SANITARY MILK PAIL

Fig. 203

The Breast on our Pail has a guard which absolutely prevents dirt from falling from the breast into the pail.

Capacity, 14 qts.; diameter bottom, 9 7/8 in.; diameter top, 12 3/4 in.; extreme height, 13 3/4 in. Net weight, 4 1/2 lbs. each. Shipping weight, 6 lbs. each. Price, \$3.25 each.

GEM COMBINATION MILK BUCKET

With Removable Strainer

It has no equal in its simplicity.

Made of the best IX tin, with Steel Strainer Frame. The Gem Combination Milk Bucket can be used for milk with strainer, or the strainer can be removed by a single turn of the latch and the bucket used for any other purpose. The Strainer is constructed of Steel, with Fine Brass Wire Cloth and can be readily converted into a cloth or muslin strainer by simply covering the frame with the cloth and inserting the frame in place.

Prices, 10 quarts, each \$1.10; 12 quarts, each \$1.25; 14 quarts, each \$1.40. Weight, 3 lbs.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

LIGHTNING GLASS CHURN

A—LIGHTNING GLASS CHURN.

This churn is designed for farm use and is indispensable in the kitchen. It whips cream, beats eggs, makes butter, has a lot of other uses and is always handy.

1 quart	\$1.75	4 quart	\$3.00
2 quart	2.25	8 quart	3.25
3 quart	2.75	Extra glasses, 35c and 85c.	

B—DANDELION BUTTER COLOR.

Made for nearly a half century by the Wells-Richardson Co. of Burlington, Vt. There is no better butter color made. It gives to butter the rich June shade which always finds a ready market at top prices. Price, 35c.

C—JUNIOR BABCOCK TESTER.

The most widely used machine for rapidly and accurately determining the percentage of butter fat in milk and milk products, such as cream, skim milk, butter-milk, etc. For an open machine, nothing can be better than this strong up-to-date Babcock tester.

2 Bottle Tester, complete for testing milk.....	\$7.50
2 Bottle Tester, complete for testing milk and cream.....	8.50
4 Bottle Tester, complete for testing milk.....	8.50
4 Bottle Tester, complete for testing milk and cream.....	9.00

Shipping weight, about 13 lbs.

Come all complete with a full set of glassware with directions for using.

D—BOTTLE BRUSHES.

- No. 61. 10" Hickory Handle Bristle Brush, 40c.
- No. 82. Grey Bristle, 50c.
- No. 121. Hickory Handle Pure Bristle Brush, 50c.

E—LEATHER HALTERS.

- Black or Russet, riveted and sewed.
- Horse Halters, \$1.50.
- Cow Halters, either black or russet, \$1.35.

F—8 BAR, SOLID BACK, ENAMELED CURRY COMB.

Price, 35c.

G—REFORM CURRY COMB.

Three rows of crimped oval steel cleaners.
Price, 30c.

CATTLE CARDS.

- Small card, backed with leather, 40c.
- Small card, backed with cardboard, 30c.
- Large card, backed with cardboard, 35c.

H—BUTTER BOWLS.

Made of polished maple.	
13 inch.....	\$0.60
15 inch.....	.80
17 inch.....	1.25
19 inch.....	1.85

I—LARGE BUTTER SPAT.

Price, 40c.

J—SMALL BUTTER SPOON.

Price, 40c.

LARGE BUTTER SPOON.

Price, 60c.

K—CORRUGATED BUTTER SPAT.

Price, 25c.

L—BUTTER PAPER.

This parchment butter paper is used by most of the butter packers. Made of very strong fibre and will stand any amount of hard use.

9 inch rolls, weighing 5 to 6 lbs., 30c per lb.

Cut 8½"x11" for ½-lb. molds, 30c per lb.

Cut 9"x12", 30c per lb.

M—BOTTLE CAPS.

Made of strong paraffined cardboard, guaranteed to be absolutely satisfactory.

Per box of 1,000, 50c.

Per box of 5,000, \$2.25.

Per barrel of 50,000, \$20.00.

LIPPED CAPS.

Add 2c per 1,000 to the above prices.

N—POURING PULL CAPS.

Seal Right Caps with patented pull feature. Nationally advertised and a very useful cap.

Per 1,000, 55c.

Per 5,000, \$2.50.

A

B

C

D

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M

N

EVERYBODY KNOWS ROSS' SEED GROWS

THE MYERS JUNIOR POWER SPRAY OUTFIT

Fitted with 2 inch Horizontal Double Acting Force Pump.
Complete Except Engine. Belt Driven.

Fig. 205

Myers Junior Power Spray Outfit as furnished complete except the engine.

TANK, cypress, 100 gallons, fitted with semi-rotary agitator swung from top of tank and connected direct to face-plate on the pump.

FRAME, 3 inch channel steel.

DECK (on which engine and pump are mounted), plank 30x47 inches.

PUMP, double acting, back geared 5 to 1.

CAPACITY, 5½ gallons per minute at 50 revolutions; 6½ gallons at 60 revolutions.

PLUNGER, brass, telescope pattern, hemp packed; handles hot or cold mixtures.

VALVES and SEATS, brass beveled and ground in.

PULLEY, 14x2½ inch, crown face.

Price, \$110.00; 5 per cent discount for cash.

Fig. 208
Fembro Nozzle
(Paied) \$0.60

Fig. 209
Fembro 45° Nozzle (Prince) \$0.65

MYERS' PNEUMATIC COMPRESSED AIR SPRAYER

This Sprayer is made of heavy galvanized iron with ¾ in. brass tube cylinder. The manufacturers claim that a small cylinder operates easier than a large one.

The nozzle is one of the special features of this sprayer. by means of the small lever the spray can be adjusted from a broad, fine spray, covering the ordinary distance, into a complete long distance spray throwing water 25 feet, by means of which the tops of any ordinary fruit tree can be reached.

One of these sprayers will answer not only for the low growing shrubs and vines and also for anyone who has a few tall trees to spray.

Price, \$8.50.

Fig. 210

THE AUTO SPRAY PUMP

The "Auto Spray" works automatically for six to fifteen minutes, according to the nozzle opening. It may be charged in fifteen seconds by a few strokes of the plunger, and two pumpings will usually discharge the entire contents. Simply fill two-thirds full of solution and pump up air pressure. Diameter, 7 inches; height, 2 feet; capacity, 4 gallons; weight, 16 lbs. with all attachments. Price with stop-cock: Brass, \$9.00; Galvanized, \$7.00.

AUTO HOSE COCK No. 1. Price, \$1.25.

TWO ROW ATTACHMENT. Price, \$1.85.

TWO FOOT BRASS EXTENSION. Price, 65 cts.

BRASS ELBOW. Price 65 cts.

Patented.

Fig. 212

ROCHESTER SELF-OPERATING SPRAYERS

THE "KANT-KLOG" SPRAYER

Sprays Trees,
All Kinds of
Small Fruit
and Garden
Vegetables,
Disinfect ants,
Whitewash
and Many
Other Uses

Fig. 211

"Kant-Klog" Nozzle. The only nozzle that can be successfully cleaned without stopping the spray or removing nozzle. The only nozzle ever made to give both flat and round sprays or solid streams.

Sprayer Hose Cock. A slight pressure starts the spray. Remove it and spray stops instantly. Saves time, labor and fluid.

Sprayer Body. Made of Galvanized Steel or heavy Polished Brass as desired. Top and bottom dome shaped—joined to body under heavy pressure make a complete double seam. Tested under high pressure thereby avoiding troubles experienced with other constructions.

Air Pump. Heavy Brass two inches in diameter.

Hose Couplings. Solid Brass, standard cut threads. Hose high grade three-ply.

Safety Valve. Allowing air to escape after desired pressure has been obtained.

PRICE: Galv., \$6.75; Brass, \$8.50.

Spraying Calendar on inside of back cover

Fig. 206

Illustrates the Spray Gun. This gun discharges a long distance spray, by means of which the top of the highest fruit tree can be reached, a slight turn of the handle widens the spray and another short turn throws off spray entirely when ready to move to next tree.

Price, \$6.00.

MYERS' WHITEWASH AND PAINTING MACHINE AND GENERAL PURPOSE SPRAY PUMP

The most durable spray pump for white-washing and applying cold water paint there is made. All parts are of the best material and with proper care will last for a lifetime. Price, \$12.75.

DAISY TIN FORCE PUMP (not shown)

This is a good, low-priced force pump; used for sprinkling vines and shrubs; also used for whitewashing and other similar uses. Made of tin and has two nozzles.

Price, \$1.25.

Fig. 207

BORDEAUX SPECIAL

Fig. 213

This nozzle will throw a fine fan-shaped spray and will readily free itself should it become clogged, by turning cock-handle. It will throw a solid stream or it may be shut off altogether if desired. Price, 90 cts. Wt. 1 lb.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Hand and Power Sprayers For All Purposes

THE WORCESTER DOUBLE ACTING COG GEAR SPRAY PUMP

Mounted on skids with 50-gallon barrel, and mechanical agitator. This is a pump with nearly the same capacity as those operated by power, but at a very low price and designed for those having a large orchard and do not care to invest \$100 or \$200 in a spray pump. This pump can be loaded on a wagon or stoneboat and spraying can be done under heavy pressure. It occupies a small amount of space, but has power and capacity sufficient for running 8 nozzles at one time. It is fitted with brass seats, 2-inch seamless brass removable. The pump complete is, one 50-gal. barrel mounted on skids, pressure-gauge, 15 ft. $\frac{1}{2}$ in. hose, 8 ft. extension pipe with lever shut-off, mechanical agitator with fembro nozzle, or any nozzle selected. The price of the complete outfit, \$50.00.

We can furnish hose for this pump in 25 and 50-foot lengths.

Four row spraying attachment, to be used with the above pump or with any pump which can be used successfully to spray three rows at once. Equipped with four nozzles, one to each row; is adjustable to any height or width giving a spray up or down. Indispensable for large acreage of potatoes and can be easily used with Myers' Double Acting Cog Gear Spray Pump.

Price, complete with hose, nozzles, etc., \$22.50.

Fig. 214

ASPINWALL DOUBLE CYLINDER HIGH-PRESSURE FOUR-ROW SPRAYER

Fig. 215

parts are easily accessible, is very durable, and there are a large number of them in use in large potato growing districts. It is also specially designed for handling Bordeaux mixture and other heavy preparations used in spraying for blight. The nozzles are in front of the wheels, which permits of the vines being sprayed to the end of the row. They are also where the operator can watch them easily. Price, \$156.00.

Since the introduction of this machine the most flattering reports of its success have been received, and we believe there is no better or more satisfactory automatic sprayer on the market. It is light draught, all working

Fig. 216

For washing windows and sprinkling lawns where there is no water pressure. Has foot rest, best hose and spray nozzle. Price, \$4.50. Weight, 6 lbs.

Spraying Calendar on Inside of back cover.

BRASS SPRAY PUMP

The construction of this pump is the best possible and we believe it is unequalled for the money. Bronze ball valve, with brass seat, the plunger is brass with hemp packing, and it will handle hot, cold or any caustic mixture. Cylinder and discharge pipes are brass. The air-chamber is 30 inches long. Uniform and constant stream; pump set inside the barrel, entirely submerged. Complete including barrel, extension pipe, nozzle, mechanical agitator, and 15 feet of hose all ready for work. Has cog gear, which saves fully $33\frac{1}{3}$ per cent of pumping labor. Price, complete, all set in barrel, \$20.00; pump only, less barrel, \$16.00.

Fig. 217

"IDEAL" SPRAY OUTFIT

This outfit is light, compact and easy to operate. The tank holds fifteen gallons, is mounted so that the liquid will not slop or spill, and in a way that makes it easy to handle. The pump spreads across the top of the tank and is held firmly in place by a thumb nut. It has the largest air chamber of any spray pump of corresponding size. This enables the operator to keep a uniform pressure at the nozzle.

A mechanical agitator keeps the liquids well stirred. A fine strainer at the opening in the suction pipe prevents anything getting into the working parts of the pump.

The pump has the following equipment: 10 feet $\frac{3}{4}$ -inch Pressure Hose; 8 feet Pipe extension, in 2 pieces; 1 "Ideal" Nozzle; 1 Brass Shut-off Cock. Shipping weight, crated, 60 lbs. Price, \$25.00.

Fig. 218

MYERS KNAPSACK SPRAY PUMP

The tank of this pump, made of copper, holds 5 gallons and is fitted with lid and strainer, which can be removed. The pump is made of brass with large air chamber, brass ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. The pump can be removed easily. The pump is also fitted with handle so the operator can use it the same as a tank with bucket pump if desired and the handle lever can be shifted from right to left shoulder at will. Has brass stop cock at end of hose.

A general purpose pump for all low growing shrubs and vines. Price, Copper, \$22.50; Galvanized, \$12.50. Weight, 16 lbs.

Fig. 219

BAMBOO SPRAY RODS

The Bamboo Extension is made of selected bamboo, 8 ft., 10 ft. and 12 ft. in length, through which is placed a special brass tube of 5/16 inch inside diameter; the shut-off lever and male end are attached to the brass tube by heavy threads (no solder) and has wide shield at top to prevent solution running down the pole.

PRICE LIST

8 foot bamboo extension, with lever shut-off cock. Price, each, \$4.50
10 foot bamboo extension, with lever shut-off cock. Price, each, 4.75
12 foot bamboo extension, with lever shut-off cock. Price, each, 5.00

EVERYBODY KNOWS ROSS' SEED GROWS

THE ACME ATOMIZER

Fig. 220

Used largely for spraying cattle, with the different mixtures on the market, to keep off the flies; spraying Paris Green and other insecticides on potato vines, shrubs, small trees, house plants live stock, and poultry. Price, tin, 60 cts.; with brass cup, Price, \$1.00.

THE HOUGHTON SPRAYER

For spraying different insecticides for both greenhouse and outside use. By this construction the cartridge

presents an equal area of surface at all times to the action of the water passing through the sprayer, thereby delivering a spray of the same strength at the finish as there was at the beginning of the cartridge. Cartridges of different varieties are inserted in the holder and as the water passes through the insecticide dissolved and delivered onto the foliage of the plant. This is a Worcester made product, guaranteed to give perfect satisfaction. No clogging of the nozzle and if you want your plants and shrubs free from insects, you will make no mistake in buying one of these outfits. Cartridges supplied as follows:

- Sulphur and Lime.
- Whale Oil Soap.
- Arsenate of Lead.
- Pyrethrum Soap.
- Disinfectant Soap.
- Clean-up Soap (for ferns and palms).
- Tobacco (Nicotine Soap).

Hellebore Soap.
Kerosene Emulsion.

Price, Sprayer, \$6.00 Cartridges, 50 cts. each

No. 5 AUTO SPRAY

Fig. 225

Pump made entirely of brass. Valves easily taken apart if they become clogged. Every valve has a positive action. Nozzle designed so the operator can get any variety of spray necessary, either solid stream for washing windows or fighting fires, a long distance spray for trees or a fine mist for bushes, potatoes, etc. This pump is double acting, thereby giving a continuous spray.

Auto-Spray Pump, hose, nozzle and strainer, complete with tank, \$8.00.

Extension, extra, 60 cts.
Less tank, \$5.00.

ACME POWDER GUN

A simple, practical implement for the extermination of potato-bugs and all kinds of insects, flies, etc.; the pests of home and garden.
Net price, single, \$1.50.

Weight, 4 lbs.

For parcel post rates see inside front cover.

Fig. 226

A New Idea

In this Junior Spray and Force Pump we do away entirely with the objectionable footrest, clamps, leather suction, packing, etc. This pump requires no fastening of any kind. All the operator need do is press the plunger down—a flexible coil spring making the upward stroke.

Solid Brass except handle and hose. Even the suction is solid Brass with expanding spring rings similar to an engine piston. No leather suction or packings to dry up and give trouble.

JIM DANDY SPRAYER

JIM DANDY SPRAYER works twenty-five times more rapidly than any hand sprayer and is more efficient. To operate, simply work plunger handle slowly; one stroke will cover a large area and no liquids wasted. Sprays anything and everything.

The reservoir is made of heavy galvanized iron, capacity two quarts; all other parts are entirely of brass, including hall check valves and nozzle. The Golden Spray Nozzle furnished is adjustable for large fine mist spray or long distance coarse spray, as desired.

When empty it weighs 2 pounds, and when loaded ready for work the weight is 6 pounds. Holds half gallon. Price, \$3.50.

Fig. 229

LITTLE GIANT DUSTER

Fig. 222

Distributes all kinds of powder. Weight, 12 lbs. Price, \$12.00.

BOSTON SPRAY NOZZLE

Fig. 227

Will throw a spray, a large or a small solid stream.

Price, 85 cts.

Fig. 228

A Brass Atomizer which gives a continuous spray. Made of heavy brass. Nozzle can be instantly cleaned should it become fouled. Adapted for all uses, where one wishes an up-to-date hand sprayer.

Every one warranted.
Price, \$1.25.

AMERICAN BEAUTY DUST SPRAYER

Spraying with powder instead of liquid is becoming more popular every season. The American Beauty Sprayer is the best outfit for that purpose. Has large bellows giving absolute control of the blast. Construction of the machine is very simple. Few working parts to wear out. The feed of duster is simple and effective. Can be regulated for a wide range. The sifting device crushes all lumps so all material will pass over the fine screen. This very fine dust clings perfectly to every part of the tree, plant or vine. This machine is so developed that it carries the dust to every crack and crevice. It will pay for itself even in a small orchard. Has wire wound hose that will not kink, crack or break. Has strong comfortable shoulder straps for carrying. Built of best material. Write for complete circular.

Price, \$25.00.

Fig. 230

LITTLE MIDGET SPRAYER

Fig. 221

This is a small sized, powerful atomizer for use in the home or poultry house. Very convenient for applying dust layers or disinfectants. 40 cts. each.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

TANGLEFOOT ANT-DESTROYER. Guaranteed to drive ants from any lawn. Put up in powder form and used by scattering on the ant-hills. The ants never come back. 10 cts. and 25 cts.

ARSENATE OF LEAD. The best insecticide known for leaf-eating insects because it kills quickly. Trees or plants sprayed with arsenate of lead and water are quickly freed from their insect pests. It can not injure the most delicate foliage. Re-spraying after rains is the bane of the fruit-grower's life. Arsenate of lead dries on the leaves to a varnish-like film, which is not affected by dew or rain. One thorough spraying will protect the foliage for an entire season. 1-lb. 35 cts., 5-lb. pails \$1.50, 10-lb. pails \$2.25, 50-lb. wooden pails, \$8.00, 100-lb. kegs at \$14.00.

DRY ARSENATE OF LEAD. We carry Arsenate of Lead both paste and dry. The trade seems to demand this in the dry state as it has so many advantages over the paste. The dry will keep forever, is less bulky, does not freeze and spoil. Send for descriptive catalogue which gives valuable information for every tree grower. ½ lb. cans 30 cts., 1-lb. cans 50 cts., 5-lb. cans \$2.00, 10-lb. cans \$3.20.

BLACK LEAF 40

(Nikoteen Sulphate, Nikoteen 40 per cent.)

BLACK LEAF 40 is the best known remedy for Potato Lice and other similar insects. Is perfectly soluble in cold water. Can be used in combination with lime, sulphur, arsenate of lead, Bordeaux mixture. Is used as safe and effective for plant lice, thrips, leaf hoppers, etc. Highly recommended by State and Government Experts. Use about 1 to 1,000, or 1 oz. will make six gallons of solution. 1 oz. 35 cts., ½ lb. \$1.25, 2 lbs. \$3.50, 10 lbs. \$13.50.

BORDEAUX MIXTURE. (Liquid.) This mixture is put in one gallon patent cans. One-gallon will make 50 gallons by the addition of 49 gallons of water. Gallon cans \$2.00. Weight, 9 lbs.

DRY BORDEAUX MIXTURE AND PARIS GREEN. It kills potato bugs and all plant-eating pests, prevents blight and rust, keeps potato and tomato vines and other foliage in a green and vigorous condition. In one box. Lb. 50 cts.

DRY BORDEAUX POWDER. For preventing blight on grapes, potatoes and other crops that are subject to rust, mildew and black rot; applied dry with bellows. Lb. 45 cts., 5 lbs. \$1.75.

Pat. in Canada Nov. 2, 1897. Pat. Mar. 16 and Nov. 9, 1906.

BUG DEATH. We can say to our customers that we give Bug Death our fullest endorsement. While the first cost to kill the bugs on an acre of potatoes is rather more than that of arsenical insecticides, the results at harvesting time are entirely satisfactory, and where practical tests have been made, the extra yield of marketable potatoes has more than paid the entire expense. It is non-poisonous, which makes it perfectly safe to use on all plants or vines. 1-lb. package 20 cts., 3-lb. package 45 cts., 5-lb. package 75 cts., 12½-lb. package \$1.50, 100-lb. package \$9.50.

CARBONOL. Used as a general disinfectant in the hen-house. Dilute 1 to 100 (about 2 tablespoons to a gallon of water), will keep it clean and healthful. Small bottles 25 cts., 16-oz. bottles 50 cts., 1 gal. \$1.75. Weight, 11 lbs. Sample will be mailed free on receipt.

COAL TAR. In quart tin boxes. For tarring corn to prevent crows from pulling it. Pt. 15 cts., qt. 30 cts. Shipping weight 2 lbs. and 4 lbs.

CREOSOTE FOR GYPSY MOTHS. For the destruction of the eggs of gypsy moth. Qt. 50 cts., shipping weight, 3 lbs.; gal. \$1.00, weight, 9 lbs.

CUTWORM FOOD. Rid your garden and farm of the Cutworm pest. There was a time when Cutworms were not considered very seriously by farmers and market-gardeners, but in late years it seems they have come to stay. Cutworm food can not harm plants and is safe and easy for the operator. Put up in one-, five- and ten-pound packages. Directions for using on every package. 1 lb. 40 cts. Shipping weight, 2 lbs.

FLY CHASER. A new and different preparation for getting rid of flies which pester cattle. The new NorStar Fly Chaser is the result of two years' work and its success has been great. A long series of tests in one of the largest dairy farms in the East has

proved that it will completely exterminate cattle lice, and also that it prevents the spread of mange or barn itch. Does not gum up or stain the hair. Does not leave unpleasant odors. Price, \$2.00 per gal.

FLYOSAN

DID YOU EVER HEAR OF A FLUID

That will DRAW ROACHES and ANTS out of every hole, crack or crevice before killing them, and NOT POISON FOOD?

That will KILL BED-BUGS instantly and not leave an odor?

That will KNOCK FLIES OFF THE WALL, kill them, and not harm paint or paper?

That will KILL MOSQUITOES and NOT harm baby?

That will bring MOTHS OUT OF CLOTHES and closets, kill them, and not harm your clothes?

That will take FLEAS OFF A DOG, kill them, and not harm the dog?

That will take LICE OFF A HEN, kill them, and not harm the hen?

That as a general disinfectant is stronger than the ordinary Carbolic Acid Solution and yet cannot injure the smallest child?

Used with sprayer forms a gas which KILLS Flies, Mosquitoes, Roaches, Moths, Fleas, Lice, Bed-Bugs, Spiders, Ants, Hornets, etc.

On the farm it kills Flies on Horses and Cattle, Lice and Fleas on Cats, Dogs, Chickens and Hogs.

Positively guaranteed not to contain the slightest trace of Carbolic Acid (Phenol), Nitro Benzol (Oil of Myrbane) or any other poisonous chemicals.

HOW TO USE FLYOSAN

Hold the sprayer about two feet from the cracks or surfaces to be sprayed. Best results are obtained if doors and windows are kept closed for about ten minutes. Flyosan will quickly bring insects from their hiding places. Spray them again and they will quickly die. Do not leave Flyosan cans open. Flyosan gas escapes that way. Keep after the insects systematically. Flyosan will prevent your neighbor's vermin from entering your house. 1 pt. 75 cts., 1 qt. \$1.25, 2 qts. \$2.25, 4 qts. \$4.00.

GRAFTING WAX. Prices, ¼ lb. 15 cts., ½ lb. 25 cts., lb. 40 cts.

HELLEBORE. Sure death to the currant worm. Lb. 50 cts., ½ lb. 30 cts., ¼ lb. 20 cts.

"HERBICIDE"—THE WEED EXTERMINATOR

"HERBICIDE"—THE WEED EXTERMINATOR. Kills grass and weeds of every kind on roadways, gutters, tennis courts, etc., by one application. Its use will save much labor and expense in the long run. 2 qt. cans \$1.00, 1 gal. cans \$1.75, 2 gal. cans \$3.25, 5 gal. cans \$7.50, 10 gal. cans \$13.50, 30 gal. cans \$30.00, 50 gal. barrel \$45.00. Full directions accompany each package.

IN-A-MINUTE. Will destroy bugs, roaches and similar vermin. Used for cleaning clothing, ink stains, etc. Price 14 oz. bottle, 50 cts.

KEROSENE EMULSION. Not injurious to foliage and a sure remedy for lice, scale insects and most soft-bodied insects. Very valuable for washing domestic pets. Kills by contact. Qt. 40 cts., gal. \$1.00.

LEMON OIL. One of the cheapest, safest and most effectual insecticides. Dilute with 40 to 50 parts water. An excellent wash for dogs, curing mange, killing insects. ½ pt. 25 cts., pt. 40 cts., qt. 75 cts., ½ gal. \$1.25, gal. \$2.00.

DRY LIME SULFUR. All the old disagreeable features of spraying with liquid lime sulphur is done away with by using the new sulphur compound. It is not caustic, does not freeze, is good till used and is fully 25 per cent cheaper to use than that in the liquid state. Put up as follows: 1-lb. cans 45 cts., 5-lb. cans \$1.65, 10-lb. cans \$2.50, 25-lb. cans \$4.55, 100-lb. cans, \$14.50.

CONCENTRATED LIME SULPHUR. Kills San Jose Scale, Oyster Shell, Bark Lice, etc., and gives the tree a thorough "house-cleaning." It should be applied any time after the leaves drop in Autumn and before the buds start in the spring. Needs only to be diluted with cold water and it is ready to apply. 1 gallon makes 10 gallons of spray. Guaranteed under the National Insecticide Act. 1 qt. 45 cts., weight, 3 lbs.; 1 gal. 85 cts., weight 12 lbs.; 5 gals. \$3.25, 50 gals. 18 cts. per gal. f. o. b. Boston or 25 cts. gal. f. o. b. Worcester.

EVERYBODY KNOWS ROSS' SEED GROWS

WHY RAISE ROSES TO FEED BUGS?

Melrosine—the only remedy—endorsed by leading authorities. The **GENERAL CONTACT INSECTICIDE** that **KILLS ROSEBUGS** and other insects. Used with any good spray-pump, diluted with from 20 to 25 parts of water. Pleasant and harmless to use. Guaranteed effective when used according to directions on can. Gal. \$6.00, half-gal. \$3.25, qt. \$1.75, pint \$1.00. Trial size 50 cts. By mail or express at customer's expense. Or Trial Size, sufficient to make one gallon when diluted, and care for several plants for the season, postpaid for 60 cts.

MELROSINE—IT KILLS ROSEBUGS

"ELECTRIC" WORM ERADICATOR

From one to two ounces to each gallon of water brings worms, grubs, etc., to the surface of the ground within a few seconds, where they die.

24 oz. \$1.00, 2 qt. \$2.25, 1 gallon \$4.00, 5 gallon \$17.50, 10 gallon \$34.00.

"NICO-FUME" LIQUID

(Nicotine Solution)

Has the advantage of being suitable **BOTH** for Spraying and for **Fumigating Purposes**.

"Nico-Fume" Liquid is packed in screw-top cans, and is sold in the following sizes:

Can containing 8 lbs., price \$15.00 Can containing 1 lb., price \$2.35
Can containing 4 lbs., price 8.00 Can containing 1/4 lb., price .75

HALL'S NICOTINE FUMIGATOR

12 1/4% Nicotine guaranteed. It costs only 25c to fumigate the average greenhouse.

10 lb. tins.....\$8.50
2 1/2 lb. tins.....2.50
1 lb. tins.....1.25

Send for complete circular.

PARIS GREEN. A poisonous, insoluble powder for preventing the ravages of potato-bugs, codling moth, caterpillars, slugs and bugs. Mix one pound to 100 pounds of plaster, or 200 gallons of water. May be used clear with the Leggett Gun. Lb. 60 cts.

PINE TAR. Used in the stable for cuts and bruises. Pt. cans, 50 cts., qt. 85 cts.

PRATTS DISINFECTANT. Is the greatest disinfectant, deodorizer, detergent (cleaner), insecticide, bactericide and antiseptic, and is needed by house-keepers, cleaners, janitors, hotel proprietors, doctors, nurses, gardeners, laundrymen, poultrymen, horsemen, sheep-raisers, and by everyone seeking health, comfort and cleanliness. Price 1 qt. 55 cts., 2 qts. \$0.95, 1 gal. \$1.60.

PROTEXOL. Of the numerous preservative compounds on the market Protexol stands alone as time-tried and thoroughly tested. It is the only superficial preservative method that has been used the world over and demonstrated its value in the thirty years past. It is the only one that has received recognition and met with the approbation of engineers of Europe and America—the only preparation favorably reported along with the reliable but expensive and inconvenient Creasoting and Burnetizing process. Gallon can, \$1.75. Weight, 11 lbs.

BOWKER'S PYROX

A powerful fungicide; it controls fungous diseases, even some serious ones that other fungicides do not control.

A strong poison insecticide; it kills chewing insects, even those which are hard to kill, like the hard-shelled potato beetle.

Over twenty years of practical farm use have proved Pyrox the most effective remedy against both serious fungous diseases and chewing insects. It contains the essential copper in proper quantity for safe use and in most active form for greatest fungicidal value. In Pyrox the poison insecticide is chemically blended with the copper fungicide which increases the effectiveness of both.

Simply mix with cold water and spray.

It goes farther; it is so smooth and fine that the finest nozzle can be used without clogging. The resulting mist-like spray covers more surface.

It gives more lasting protection; it sticks like paint and stays on for weeks. Even hard rains do not wash it off once it is thoroughly dry.

It helps to increase yields; the copper fungicide in Pyrox stimulates the leaves, makes them greener and more vigorous and helps to increase yields even when there is no disease.

1 lb. jar	\$0.45	50 lb. drum	\$11.00
5 lb. drum	1.65	100 lb. keg	18.50
10 lb. drum	3.00	300 lb. barrel	51.00
25 lb. drum	6.00		

"READEANA" ROSE BUG EXTERMINATOR

A most effective insect killer that is absolutely harmless to even the most delicate flowers or foliage.

8 oz. 50 cts., 24 oz. \$1.00, 1 gal. \$4.00, 5 gal. \$17.50, 10 gal. \$34.00
Full directions accompany each package.

SOAP, SULPHO-TOBACCO. 3-oz. pkg. 10 cts., mailed postpaid, 13 cts., per doz. \$1.00, 1/2 lb. pkg. 20 cts., mailed postpaid 28 cts., per doz. \$2.00.

SCALECIDE. A petroleum oil that mixes at once with cold water in any proportion and stays mixed. It is not necessary to use an extra tank or barrel and no hot water should be used. Can be prepared in an instant, adding one gallon of Scalecide for every fifteen or twenty gallons of water. Qt. can 60 cts., weight 3 lbs.; gal. can \$1.45, weight 7 lbs.; 5-gal. can \$6.45, 10-gal. can \$11.00, half bbl. (30 gal. tin) \$27.00, bbl. (50 gals.) \$39.00.

SLUG-SHOT. A fine powder used for potato-bugs and other insects. Recommended for cabbage worms. 5-lb. package, 60 cts.

FUMIGATING TOBACCO. Pure tobacco ground very fine. Prepared especially for fumigating. 100 lbs. \$4.50.

TOBACCO DUST, in tight sealed package for dusting plants for lice, etc. 1 lb. 25 cts.

TOBACCO DUST (bulk). Kills Green and Black-fly, etc., if dusted on when the plants are moist. Also good to mix in the soil to destroy ground insects. 5 lbs. 35 cts., 50 lbs. \$1.50, 100 lbs. \$2.75.

TOBACCO STEMS. Indispensable for fumigating greenhouses and conservatories; for destroying aphids; should be dampened before using, and use a small handiul on some dry shaving, and light it. 100 lbs. \$5.00.

TANGLEFOOT FLY RIBBON is sanitary and non-poisonous. Made of paper of unusual strength so ribbons can be opened without tearing, which is a common annoyance with ribbons. Tanglefoot Ribbons are now more evenly coated than ever before. Size 1 1/4x26 in. Price, each 5 cts., case of 50 \$1.50.

TREE TANGLEFOOT

A perfect safeguard for trees against gypsy, brown-tail and tussock moth, canker worm, ants, and all creeping things. It will remain sticky about three months, fully exposed to the weather. 1-lb. can 50 cts., 5-lb. can \$2.25, 10-lb. can \$4.50, 20-lb. can \$8.75, 25-lb. pail \$10.50.

DOLGE WEED KILLER

A minute a day keeps the weeds away.

Kills all growth on Tennis Courts, Walks and Drives. Destroys Ivy, etc., on walls, fences and court yards.

PRICES

1 qt. can (enough for 10 gals.).....	\$ 0.60
1 gal. can (enough for 40 gals.).....	1.75
5 gal. can (enough for 200 gals.).....	8.50
10 gal. can (enough for 400 gals.).....	15.00
30 gal. bbl. (enough for 1,200 gals.).....	37.50
50 gal. bbl. (enough for 2,000 gals.).....	52.50

WHALE OIL SOAP. For destroying insects on plants, etc., in small boxes. Lb. 25 cts.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

Fig. 231

HILL'S CHAMPION DRYER. Made of selected wood, neatly painted. Ground box, has galvanized cover. A very attractive dryer, one that will last. Can be folded and put away easily.

Wood post, 115 ft.....	\$14.50
Wood post, 150 ft.....	16.75

Fig. 232

THE HILL DRYER is acknowledged by all architects, builders and users to be the most convenient clothes-drying arrangement possible for apartment houses, flats or private dwellings. It is hung from the piazza posts, as seen in illustration, or from side of building, and so arranged that each line is easily reached. The swing arms are made of steel, and will support a great weight. The Dryer top is fastened, opened and locked to the post by a patented device which makes it impossible for it to be blown off.

Hill Balcony Dryers have four arms, 5 feet 6 inches long, and hold 110 feet of line.

PRICE
Upright Style, as in cut.....\$20.50
Inverted Style.....22.00

WORCESTER SPECIAL OUTDOOR DRYER
Made of best stock; cotton line, 110-ft. line, 150-ft. line. Above includes box to go into the ground.

Price, 110-ft.....	\$8.00
Price, 150-ft.....	9.00

Fig. 233

WHITE MOUNTAIN ICE-CREAM FREEZER

PRICES

1 qt.	\$3.00
2 qt.	3.60
3 qt.	4.25
4 qt.	5.00
6 qt.	6.25

THE HESSLER MAIL BOX

Fig. 237

Conforming in every way to the Post Office requirements, for rural delivery box. Dimensions, No. 1 18 1/2" long, 6 1/4" wide and 7 1/2" high; No. 2 23 1/2" long, 11" wide and 14" high.

Inside measurements, No. 1 weighs 10 lbs., No. 2 weighs 25 lbs.

Price of No. 1 is \$1.75; No. 2 \$3.00.

HAGER TOOL RACK

Designed for store or stable. Made in three styles for shovels, hoes or forks. Combination racks for stores can be used for all. Price 75 cts. each. Weight, 3 lbs.

Fig. 235

SUCCESS ASH SIFTER

Fig. 234

Keep the Home Fires Burning, but sift your coal and save every piece.

Rightly named, for it does the work in half the time with no dust or noise and with very little work.

No. 1. Family size\$3.50
No. 2. Large furnace size7.50
No. 1. Complete with galvanized ash can5.00
Galvanized Ash Can 17x26.....1.85

Fig. 241

RITTENHOUSE OUT-DOOR FLY TRAP

Is 19 inches high and 11 inches in diameter. The framework is galvanized sheet metal covered with black painted wire cloth.

One of the best traps yet invented ridding the stable of flies. Price, \$1.75 each.

The government requires everyone to have a mail box. The above cut shows a strong, warranted box made by the Corbin Cabinet Lock Co.

Weight Price
\$1.40 each

Fig. 238

CORN POPPERS

Fig. 239

Made up of heavy woven wire, with stained handle. Everybody should have one.

1 qt.....	25c
1 1/2 qt.....	30c
2 qt.....	35c
4 qt.....	65c

Special price on 12 1-qt. packages of Tanager Brand Pop Corn with 2-quart popper, \$1.15. Add for parcel post first zone 20 cents.

MAJESTIC ROTARY WASHER

Fig. 240

Ball bearings and balance fly-wheel almost make it run itself. Price, \$12.50.

SMALL'S CALF FEEDER

The original calf feeder. Price, \$5.00. Weight, 4 lbs.

Fig. 236

EVERYBODY KNOWS ROSS' SEED GROWS

No.	Price
114	\$1.25
R65	1.65
R170	2.20
R275	2.35
R170	2.20
9	2.00
50	.75
165	1.70
R85	2.35
R165	1.85
65	1.45
R50	.90
90	1.00

Add 10 cts. per pr.
for packing and post-
age.

Fig. 242

Budding Knife

1 1/2 inches long. Price,
\$1.00. Bone. 1 Blade.

Fig. 243

McKinney Pruners

Fig. 244

Latest, strongest and best hand pruner made. Very powerful
and easy to operate. Small size \$4.50, large size \$6.00.

California Curved Pattern

Fig. 245

14 in. long, made of crucible steel. Warranted, \$1.15.

Hack Saw Pattern

Flat steel frame. Beech
handle. Blued steel blade.
14 1/2 inches between
centers of holes. One of the
best sellers. \$1.65.

Extra Blades 30 cts each,
\$2.75 doz.

Fig. 246

Pruning Knife

Warranted, \$1.25.

Fig. 247

Heavy Polished Hedge Shears

Fig. 248

Price \$2.25, with notch for heavy
work \$2.50. 5 lbs.

Higley's Pruners

Indorsed by the
Moth Commission
of the State of
Massachu-
setts, also by
tree wardens gen-
erally. No wire
or metal from the
blade to electro-
cute the user.
We have them in
all sizes from 10
ft. up, both of
the plain and
self-holding type.

Price, plain, 10
ft. \$1.00, 12 ft.
\$1.10, 14 ft. \$1.20,
16 ft. \$1.30, 18 ft.
\$1.40, 20 ft. \$1.50.
Self Handles, 10
ft. \$1.25, 12 ft.
\$1.35, 14 ft. \$1.50,
16 ft. \$1.65, 18
ft. \$1.75, 20 ft.
\$1.85.

Fig. 249

Fig. 254

STEEL BLADE TREE
SCRAPER, 75 cts. each.
2 lb.

Fig. 256

RHODES TREE PRUNER
with pole, \$5.00.

Double Edge Straight Saw

Fig. 250

Very popular. 16 in. \$1.00, 18 in. \$1.15.
Same pattern as above, crucible steel. Warranted. 16 in. \$1.65,
18 in. \$1.75.

Fig. 251

Has narrow point. Easy to use between close limbs. 16 in. \$1.25,
18 in. \$1.35.

Clyde Pruners

Fig. 253

A heavily constructed pruner with an absolute broad cut, made
for heavy duty work. 24 inch handle. Price each, \$4.00.
Every pair warranted.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

TREE SAWS

Fig. 257

Simonds Hollow Back Pattern.
5 ft., \$3.45; 5½ ft., \$3.80; 6 ft., \$4.30.
Same as above, only two gauges thinner on back.
5 ft., \$3.80; 5½ ft., \$4.15; 6 ft., \$4.60.
Common V-Tooth.
5 ft., \$2.15; 5½ ft., \$2.65; 6 ft., \$3.25.

SAW HANDLES

Triumph pattern. Clamps on end of saw with thumb nut. Per pair, 50 cts.
Loop pattern, loop made of welded steel. Per pair, 60 cts.

Fig. 260

WOOD SAWS

No. 120
Fig. 258

No. 120. Our best wood saw. High curved frame. Natural wood, extra thin blade. \$2.35.
No. 103. Stained walnut frame. 1¾ in. thin blue blade. \$1.75.
No. 104. Double braced frame. Natural wood. 2¾ in. blade. \$1.85.
No. 107. Red frame. 2 in. blade. \$1.25.

ONE MAN SAWS

Fig. 261
3½ ft., \$3.75; 4 ft., \$4.25

SAW BUCKS

Extra grade saw buck. Made from heavy maple stock, folding. Can be closed and put away in a small space. Each, 75 cts.

Fig. 263

EXTENSION LADDERS

Made from white spruce and recommended by telephone and telegraph folks who use these. Allow 4 ft. for lap.

Price per ft.:-
20 to 30 ft., 40 cts. per ft.
32 to 40 ft., 43 cts. per ft.
42 to 44 ft., 46 cts. per ft.

Fig. 264

COMMON TAPER LADDERS

Made of white spruce. Very strong and durable.

Price per ft.:-
8 to 16 ft., 30 cts. per ft.
18 to 22 ft., 33 cts. per ft.

Fig. 259

PARIS STEP LADDERS

These ladders are made by the Paris Mfg. Co., which is sufficient guarantee for their durability and workmanship. Every ladder heavily trussed and reinforced. We carry all lengths.

3 ft.	\$2.10
4 ft.	2.80
5 ft.	3.50
6 ft.	4.20
7 ft.	4.90
8 ft.	5.60
10 ft.	7.00

PLAIN GALVANIZED ASH CAN

Fig. 259a

No. 1. 17x26 inches, a medium weight can suitable for all purposes. Used by the poultrymen for grain cans and the like. Price, \$1.85.

CORRUGATED GALVANIZED ASH CAN

Fig. 259b

No. 0100. A medium weight can, corrugated, which makes it extra strong. Price, \$1.85. Covers, 90 cts.

EVERYBODY KNOWS ROSS' SEED GROWS

CEDAR PLANT TUBS

Nicely painted.

Pat. Drop Handles

Cast Iron Feet

Flat hoops with lugs and standard.

Fig. 269.

3 18 3/4" 16 1/4" 18" 3 1/4" 3" 28" \$10.50

RICHMOND PLANT TUBS

Painted, green rd. wire hoops.

Fig. 270

No.	Top Dia.	Bottom Dia.	Depth	Thick- ness	Hoops	Weight	
1	11"	9"	11"	3/8"	12	1"	\$0.75
2	11"	9"	11"	3/8"	12	1 1/2"	.85
3	11"	9"	11"	3/8"	12	2 1/2"	1.00
4	11"	9"	11"	3/8"	12	3 1/2"	1.10
5	11"	9"	11"	3/8"	12	4"	1.25
6	11"	9"	11"	3/8"	12	4"	1.40
10	15"	11 1/2"	14"	5/8"	12	8"	2.65
11	16"	12 1/2"	15"	5/8"	12	9"	3.00
12	17"	13 1/2"	16"	5/8"	12	12"	3.50

JUMP TRAP WITH CHAINS

Light in weight, open up flat and used extensively by lots of trappers. The Nos. 91 and 91 1/2 have double jaws which catch the animal high on leg and prevent gnawing off leg.

Fig. 267

Sizes	Each	Dozen
0	\$0.25	\$2.50
1	.30	3.00
1 1/2	.45	4.50
2	.75	7.50
91	.45	4.50
91 1/2	.55	5.50

SANITARY GLASS MOUSE AND RAT TRAPS

Fig. 275

These rat and mouse traps are just the thing to have in the house and absolutely sanitary. Rats and mice when caught can be drowned. A wonderful trap.

Mouse Traps.....Price, \$0.25

HOLD-EM WIRE RAT AND MOUSE TRAPS

Made of steel wire. Had patent trigger attachment to catch the first rat which is the hardest to get. The first one used as a decoy for others.

Fig. 268

Rat Traps. Weight, 1 lb.....Price, \$1.00
Mouse Traps. Weight, 1 lb.....Price, .50

CORN HOOKS

Fig. 272

Fig. 273

- A. Vt. Corn Hooks, plain handle, plain blade.....Price, \$0.40
B. Spring Steel Corn Hooks, curved handle.....Price, .60
Spring Steel Corn Hooks, plain handle.....Price, .50

Fig. 274

- Solid steel with off-set blade. Weight 1 lb.....Price, \$0.60
Plain Blade. Weight 1 lb.....Price, .65

VICTOR TRAPS WITH CHAINS

Fig. 271

Cut shows Victor traps with double jaw. No gnawing or pulling out of these traps.

Sizes	Each	Dozen
0	\$0.20	\$2.00
1	.25	2.50
1 1/2	.35	3.50
91 (double jaw)	.35	3.50
91 1/2	.50	5.00

GOODWIN GRASS SHEARS

Fig. 276

This up and down shear is easy to operate. Made strong and cannot get out of order and is the right way to trim the grass. Polished.
Weight 2 lbs.....Price, each, \$1.75

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

PURIFIES BY AERATION.
Fig. 277

THE BUCKET PUMP

We will guarantee it to purify any well in five days, or we will refund the money. Cannot freeze. Can be set up without going below platform. Price for 10-foot well \$12.50, for each additional foot of well add 50 cts.

ROUND END STOCK WATERING AND STORAGE TANKS

Fig. 278

Well braced. These prices are f. o. b. Worcester or delivered by freight to your nearest station from the factory.

No.	Width	Height	Length	Capacity	Weight	Price
101	2 ft.	2 ft.	4 ft.	3 bbls.	65 lbs.	\$ 8.50
101a	2 ft.	2 ft.	4½ ft.	3½ bbls.	70 lbs.	9.50
102	2 ft.	2 ft.	5 ft.	3¾ bbls.	75 lbs.	10.50
103	2 ft.	2 ft.	6 ft.	4½ bbls.	90 lbs.	12.25
104	2 ft.	2 ft.	7 ft.	5½ bbls.	105 lbs.	13.50
105	2 ft.	2 ft.	8 ft.	6¾ bbls.	120 lbs.	14.50
106	2 ft.	2 ft.	10 ft.	8 bbls.	150 lbs.	18.00
107	2 ft.	2½ ft.	8 ft.	8 bbls.	147 lbs.	16.50
107a	2 ft.	2½ ft.	7 ft.	7 bbls.	130 lbs.	15.50
107b	2 ft.	2½ ft.	6 ft.	5¾ bbls.	110 lbs.	14.50
107c	2 ft.	2½ ft.	5 ft.	4¾ bbls.	195 lbs.	13.50

Fig. 279

THE RICE CALF WEANER

Does not hinder the animal from eating or drinking. Endorsed by all users. Works like a charm. Three sizes. Small, price each, 40 cts. Med. price each, 55 cts. Large, price each, 80 cts.

ASPARAGUS BUNCHER

Price \$4.00
Mailing weight, 5 lbs.

Fig. 280

HOUSE PUMP

(6x6 Stock)
(3½-inch Bore)
7 ft. Porcelain-lined.....\$11.25
7 ft. Unlined..... 9.25
8 ft. Porcelain-lined..... 12.00
8 ft. Unlined..... 10.00
Tubing 4x4 \$0.35 per ft.
Used 4x4 inch pipe for above pump. Price, 35 cts. per foot.
Couplings and bands for the above \$1.00 each.

STOCK PUMP

Use 4½x4½ inch pipe 40 cts. per foot. Couplings and bands for the above, \$1.10 each.
8-foot lined.....\$14.00
8-foot plain..... 12.00

Fig. 281

NORCROSS IMPROVED HAND GARDEN CULTIVATOR

Fig. 283

A very handy garden tool, 5 prongs, \$1.00, 3 prongs, 75 cts. Hand, 40 cts. Mailing weight, 3 lbs.

NO MORE HUNTING
FOR TIN CANS

RUBBER BUCKET CHAIN PUMP

Fig. 282

They are the best cheap pumps. Price, Curbs, \$5.00 each. Chain (3 ft. to lb.) 15 cts. per lb.

Wood Tubing, 15 cts. per ft. Rubber Buckets, 15 cts. each.

THE BOX THAT MAKES THE PLANT GROW

GALVANIZED STEEL WINDOW BOX, painted green, with water receptacle, an ornament to any house. Also used with best of results in the cemetery or for Living Boquets. 30 in. long, 8½ in. wide and 6¼ in. deep, \$1.65.

Fig. 284

GALVANIZED STEEL PLANT TUBS, built on the same principle as the Galvanized Steel Window Box with water receptacle. Can also be hung from the ceiling and makes a very attractive hanging pot.
10 in. square, 7½ in. deep.....\$1.25
12 in. square, 8¾ in. deep..... 1.75
14 in. square, 10¼ in. deep..... 2.50

Our cut shows an Ever-Ready Frost Protector made from a black shiny weatherproof paper, which will last indefinitely. They come flat, packed in packages of 50 with stakes for locking the edges and anchoring the cone to the ground. Once assembled they can be nested for storage and used from year to year.

Per package of 50.....\$2.25
Per 1000 35.00

Shipping weight 10 lbs. per package of 50. Have your postmaster figure zone rate and include sufficient postage with your order.

THE FOLLOWING IS A PARTIAL LIST OF THE LARGE LINE OF HAND TOOLS WE CARRY

In ordering, give name, number and size.

Fig. 1. Hoes.

7½-8 in. Field Socket....	\$.95
7½-8 in. Field Shank....	.90
8 in. Meadow Socket....	1.10
8½ in. Meadow Socket....	1.10
9 in. Meadow Socket....	1.15
9 in. Meadow Socket....	1.15
8 in. Meadow Shank....	.95
8½ in. Meadow Shank....	.95
9 in. Meadow Shank....	1.00
Ladies'	.75
Boys'	.85
Square Top Onion.....	1.00
9 in. Mortar.....	1.10
10 in. Mortar	1.20

Fig. 2. Manure Forks.

4 Tine, Long Handled, Strapped	1.35
5 Tine, Iron D Handle, Plain	1.50
5 Tine, Wood D Handle, Plain	1.80
5 Tine, Long Handled, Strapped	1.45
5 Tine, Iron D Handle, Strapped	1.70
5 Tine, Wood D Handle, Strapped	1.80
6 Tine, Iron D Handle, Plain	1.80
6 Tine, Wood D Handle, Plain	1.95
6 Tine, Long Handle, Strapped	1.75
6 Tine, Iron D Handle, Strapped	1.90
6 Tine, Wood D Handle, Strapped	2.15

Fig. 3. Spading Forks.

4 Tine, Iron D Handle, Plain	1.35
4 Tine, Wood D Handle, Plain	1.50
4 Tine, Long Handle, Strapped	1.35
5 Tine, Iron D Handle, Strapped	1.95
5 Tine, Wood D Handle, Strapped	2.10

Fig. 4. Coke Fork.

10 Tines, 1¼ in. between Tines	2.40
12 Tines, 1¼ in. between Tines	1.80

No. 5 Scythe.	Mailing	
Clipper	Wgt.	
Foster, all steel	1.65	3
Solid Steel	1.85	3
	1.75	3

No. 6 Brush-Scythes	1.65	2
---------------------	------	---

No. 7 Scythe Snath.

Ash	1.50
Bush Snaths	1.60

No. 8. Steel Rake.

12 Tooth, iron	\$.60
12 Tooth, steel	.90
14 Tooth, iron	.65
14 Tooth, steel	.95
16 Tooth, iron	.70
16 Tooth, steel	1.00

No. 9. Rake.

2X, 3 Bow, Bent.....	.80
No. 1, 3 Bow, Bent.....	.70
Lawn Rake, 24 Teeth, XX	.90

No. 10 Drag Rake..... 1.50

No. 11. Wrench.

8 in.	1.15
10 in.	1.35

No. 12. Foster Axe..... 1.65

Black Jacket Axe..... 1.75

No. 13. Cant Hooks..... 2.75

No. 14. Lawn Shears..... 4.25

No. 15. Grass

Shears, .35 and .75

No. 16. Lawn Shears..... 4.50

No. 17. Garden Trowel.

6 in. Steel.....	.30
------------------	-----

No. 18. Secor Weeder.... .12

No. 19. Noyes Weeder... .25

No. 20. Watering Pot.

4 quart	.70
6 quart	.80
8 quart	1.00
10 quart	1.10
12 quart	1.30
16 quart	1.50

No. 21. Cow Tie.

3½ feet	.40
4 feet	.45
4½ feet	.50

No. 22. Garden Sets.

1. 3 pieces.....	.15
2. 3 pieces.....	.75
3. 3 pieces.....	1.00
4. 4 pieces.....	2.00
4 Piece set (not shown) a fine warranted set....	2.75

No. 23. Cattle Card.

No. 02, large leather, bound	.35
No. 04, small leather.....	.30

No. 24. Rattan Brush
Broom.

5 row, 14 inches.....	1.25
5 row, 16 inches.....	1.40
6 row, 16 inches.....	1.50

No. 25. Revolving
Harness Punch.

4 Tube	.70
5 Tube	.90

No. 26. Harness Snaps.

	.05 to .15
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For parcel post rates see page one.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

A

B

C

D

E

G

WIRE RUBBISH
BURNERS

H

J

L

K

M

I

A. Queen Reversible Wire Lawn Rake with handle. A strong substantial lawn rake for all purposes. Price\$0.75

B. Curved Tooth Steel Rake.
12 tooth\$1.00
14 tooth1.05
16 tooth1.10

C. Garden Fork25

D. Long Handled Steel Garden Trowel..... .50

E. Short Handled Steel Garden Trowel..... .30

G. Turf Edger for lining walks, etc..... 1.00

H. Wire Rubbish Burners.
No. 2 15x22\$2.50
No. 3 18x26 2.75
No. 4 21x31 3.75

I. Folding Wire Rubbish Burner. Knocks down flat, can be put away in a small space.
Small size\$4.00
Large size 5.00

J. Peerless Fruit Picker..... .50
Handle50

K. Steel Grafting Chisel..... 1.00

L. Hazeltine Hand Weeder. Price..... .30

M. Solid Steel Garden Trowel with offset shank.
Price\$1.25

N. Sunnyside Hoe. The best strawberry hoe.
Price\$0.65

O. 6-in. Cheap Trowel. Price..... .18

Q. Cast Dibble. Price..... .75
With wood handle..... .75

R. Weeding Hook, 3 tine. Price..... .75

S. Cotton Gloves for Garden Work. Per pair .25

T. Bouquet Holder..... .50; .60; .70

U. Asparagus Knife. Price\$0.50

V. Garden Reel.
200 ft. capacity.....\$2.85
300 ft. capacity..... 3.85
Garden Line, 100 ft..... 1.00

W. Arlington Slide Hoe.
6 in.\$1.50
7 in. 1.50
8 in. 1.50
9 in. 1.65
10 in. 1.75

MULTI-TOOL

This tool comprised of 5 distinct tools has a ball and socket joint on the head. Tools are instantly angled to suit any condition. Market gardeners in general are highly elated over this tool.

Every tool warranted.

P. Price, \$5.00 each.

N

O

P

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R

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T

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V

W

EVERYBODY KNOWS ROSS' SEED GROWS

BURLAP HOTBED MATS

Fig. 285

Made of burlap filled with hair felt, 76x76. Preferred by many market gardeners, to the straw mats. Each, \$4.00; doz., \$44.00. Straw hotbed mats (not shown) 6x6, each, \$2.50.

CELERY BLEACHING PAPER

Fig. 286

This picture shows method of handling R. & D. Bleacher. No heavy boards to carry or dirt to shovel. A Bleaching material that saves TIME, LABOR, MONEY. An improvement over boards and other bleaching material.

Rolls are 10 inches and 12 inches wide. Rolls contain 100 feet and weigh only 30 pounds.

Fig. 286A

10 inch (100 running feet), per roll, \$2.80
12 inch (100 running feet), per roll, 3.00
A Tasteless, Odorless, Indestructible Waterproof material especially prepared to withstand extremes of heat and cold.
Price includes wires or arches.

A. B. C. PLANT PROTECTOR

Fig. 296

This illustration shows the A. B. C. Tarred Felt Pad used to protect Cabbage, Tomato and other plants from cutworms, maggots and insects that will destroy plants. Easy to apply. They lie on the top of the ground and can be used either for outdoor or greenhouse use. Excellent for protecting carnations from cutworms. Especially adapted for Cabbage and Tomato outside. They will save practically the entire crop of cabbage if used at the time plants are set. The cutworms and other insects do not like the smell. Only the best tarred felt is used and great care is taken to accurately cut the pads so no defects will allow the fly to deposit the egg which does the damage. Packed 1,000 in good strong fibre box.
Price: 1,000\$2.50
25,000 lots 2.25 per 1000

PLANT TRELLISES

Fig. 290
20 in. stick, 3 1/2 in. wide. Per doz., \$2.50.

Fig. 291
24 in. stick, 5 in. wide. Per doz., \$3.50.

PLANT STICKS

For pot or garden use; square painted green.

	Each	100
1 1/2 ft.	\$.02 1/2	\$2.10
2 ft.	.04	3.75
2 1/2 ft.	.06	5.50
3 ft.	.08	7.50
3 1/2 ft.	.10	9.00
4 ft.	.12	12.00
5 ft.	.18	18.00
6 ft.	.20	20.00

VERANDA TRELLIS

High	Wide	Each
6 ft.	18 in.	\$2.75
8 ft.	18 in.	4.00
10 ft.	20 in.	5.00
12 ft.	20 in.	5.50

Nurserymen's Stake

16x2 in. Extra quality. No paint. 4 cts. each; \$3.50 per 100.

BAMBOO STAKES
50c. doz.; \$2.50 per 100.

Fig. 250

Fig. 287

"PEERLESS" GLAZING POINTS

Fig. 293
PEERLESS GLAZING POINTS. Improved Van Reyper. Per box, 1,000 points, 90 cts.

TOMATO SUPPORTS

34 in. high, 20 in. in diameter at the top.
Price, 30 cts. each.
\$3.50 per doz.

Fig. 294

Fig. 295

Tree Labels

Copper Wire, 3 1/4 in. Per 1,000, \$3.00.

Pot Labels

	100	1000
4 in.....	\$0.20	\$1.85
6 in.....	.25	2.85

Garden Labels

	100	1000
8 in.....	\$1.00	\$8.25
10 in.....	1.50	13.00

HOT BED SASH

Fig. 288

3x6x1 1/4 in., with sides projecting, glazed with thick glass painted two coats, \$6.50 each; in lots of 6 \$75.00 doz., in lots of 25 or over, \$70.00 doz.

Can furnish unglazed sash in quantities at short notice. Ask us for price; we only carry glazed in stock.

PLANT TRELLIS

Fig. 292

24 in. stick, 7 1/2 in. wide. Per doz., \$7.00.

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

GARDEN WHEEL BARROW 8 SPOKE WOOD WHEEL

These wheelbarrows are made specially for us, are well constructed throughout, of hard wood and strongly ironed. Finished with two coats of paint and one coat of varnish. This is the best garden barrow on the market. Price, \$7.00.

Fig. 297

TUBULAR STEEL BARROW

Tubular steel barrow, with pressed steel bowl, and steel frame; double braced and made for heavy work. 3 cu. ft. Price, \$8.75 each.

Fig. 298

WOOD DUMP BARROW

Fig. 299

Without doubt the most durable dump barrow on the market. Either wood or steel wheel. Price, Steel wheel, \$1.50 each.

Wood wheel, \$4.25.

CONTRACTOR'S ANGLE LEG BARROW

The very best all-round contractor's barrow made. Tray pressed from one solid piece, 29 x 36 at top. Frame of hard wood and thoroughly braced and bolted. 16 in. steel wheel; tire 1 3/4 x 5/16; 5/8 in. axle. Heavy rod rolled in edge. Weight, 825 lbs. per doz. Each, \$8.25.

Fig. 300

PICKS, MATTOCKS, SHOVELS, STEEL BARS

Fig. 301

Fig. 302

No. 7 Contractors' Picks. \$1.25
No. 8 Contractors' Picks. 1.25
No. 9 Contractors' Picks. 1.40
No. 6-7 Railroad Picks. 1.00
No. 7-8 Railroad Picks. 1.00
Long Cutter Mattocks. 1.25
Pick Mattocks. 1.25
Bog Hoes. 1.00

Each
Pound

Wedges. .12
Crow Bars. .12

THE FOLLOWING SHOVELS ARE ALL AMES' MAKE

Fig. 303

No. 2, Ames Special, D. H., square, each \$2.10; No. 2, Ames Special, D. H., round, each \$2.10; No. 2, Our Best, D. H., square, each \$1.70; No. 2, Our Best, D. H., round, each \$1.70; No. 3, Our Best, D. H., square, each \$1.70; No. 3, Our Best, D. H., round, each \$1.70; No. 2, Sunnyside, D. H., square, each \$1.50; No. 2 Sunnyside, D. H., round, each \$1.50, doz. \$18.00. Nos. 3, 4, 5 and 6, add 5 cents each.

EUREKA STUMP PULLER AND ROCK LIFTER

This is by far the simplest and most efficient device on the market for pulling stumps, lifting stones and handling heavy bodies, and will be found very useful. Price, No. 1, weight 22 lbs., capacity 4 tons, \$20.00. No. 2, weight 26 lbs., capacity 6 tons, \$22.00. No. 3, weight 32 lbs., capacity 8 tons, \$24.00. This price includes the metal part only.

Fig. 304

CAST IRON BOAT HEAD

32 in. wide

The illustration below shows a simple device whereby a stone-boat can be made in a few minutes by using a straight plank with the addition of the Iron Head. Anyone in need of a stone-boat will readily see how easy it is done, and as one head will last for years, it is not only cheap, but durable.

Price, \$6.50; Bolts, 75 cts. per set.

Fig. 305

ALL WOOD BOAT

BOAT COMPLETE

7 ft. long.

All Wood, \$10.50.

Fig. 306

STEEL SCRAPER WITH RUNNERS

No. 1 carries 7 ft. of earth. \$14.50
No. 2 carries 5 ft. of earth. 14.00

Fig. 307

Fig. 308

KNOT CLIPPER AXES

2 3/4, 3, 3 1/4 and 3 1/2 lbs. Absolutely guaranteed. \$1.75 each.
Handled, with extra 28-inch handle, \$2.25.
Double Bit, \$2.25.
Double Bit Handled, \$2.50.

FOSTER AXES

Polished blade, head painted red. Price, \$1.65.

BLACK JACKET

Ebony natural finish. Price, \$1.75.

BOYS HANDLED AXES

26-inch. Price, \$1.50.

HOUSE AXES

Price, \$1.50.

BOY SCOUT AXES

Price, \$1.50.

EVERYBODY KNOWS ROSS' SEED GROWS

Fig. 309

Fig. 310

Fig. 311

No. 2121 Market Scale, 13" tin pan, weighs 30 lbs. by 1/4 oz., 7" dial, \$9.00.

No. 1030 Fish Scale (similar to the No. 2121), 15" blue and white enamel pan, weighs 30 lbs. by 1/2 oz., 8" dial, \$12.00.

No. 81 1/2 Circular Spring Balance, brass dial, weighs 30 lbs. by oz., galvanized scoop, \$8.50.

No. 1001 Market Scale, 13" round white enamel pan, nickel bows, weighs 30 lbs. by 1/2 oz., \$12.00.

No. 16 Heavy Straight Spring Balance, weighs 25 lbs. by 1/2 lb., 60 cts. each.

No. 26 Round Spring Balance, weighs 50 lbs. by 1 lb., \$1.00.

LIST OF STANDARD POTS, PANS AND SAUCERS

Inside measurement, width and depth equal.

In.	POTS			SAUCERS			BOTH		
	Ea.	Doz.	100	Ea.	Doz.	100	Ea.	Doz.	100
3	\$0.05	\$0.35	\$ 2.50	\$0.05	\$0.30	\$ 2.35	\$0.08	\$0.60	\$ 4.35
4	.07	.55	4.00	.05	.35	2.95	.10	.80	6.25
5	.10	.95	7.00	.05	.50	3.90	.13	1.25	9.85
6	.12	1.25	10.00	.07	.70	5.85	.17	1.75	14.00
7	.20	2.25	17.50	.10	.95	7.80	.25	2.75	22.00
8	.30	3.25	25.00	.12	1.75	10.72	.37	4.00	32.00
9	.40	4.25		.18	1.80		.52	5.56	
10	.60	6.25		.20	2.25		.75	7.50	
11	1.00			.25			1.15		
12	1.25			.28			1.35		
13	1.35			.35			1.55		
14	1.75			.45			2.00		
15	2.75			.55			2.85		
16	3.90			.75			4.20

BULB PANS

	Each	Doz.	100
6 inch	\$0.15	\$1.50	\$10.50
7 inch	.25	2.25	17.50
8 inch	.35	3.50	25.00
9 inch	.50	5.00	39.00
10 inch	.60	6.00	52.00
12 inch	1.00		
14 inch	1.75		

DIETZ LANTERNS

Fig. 312

"LITTLE WIZARD" (Cold Blast). 11 1/2 in. "Little Wizard" Loc-nob Globe. 6 C. Power. Burns 18 Hours. Bright Tin. Price, \$1.15.

With brass top and fount, \$1.75.

Fig. 313

"MONARCH." 13 1/2 in. high. 5/8 inch Wick. "Fitzall" (No. 0) Globe. 4 C. Power. Burns 19 Hours. Bright Tin. Price, 95 cts.

Fig. 314

No. 2 "ROYAL." 13 1/2 inches high. 1 inch Wick. "Fitzall" (No. 0) Globe. 5 C. Power. Burns 20 Hours. Bright Tin. Price, \$1.25.

Fig. 315

"EUREKA" DRIVING, with Ruby Rear Signal (Hot Blast). 7 1/4 inches high. 5/8 inch Wick. Plain Lens—3 C. Power. Optical Lens—5 C. Power. Burns 10 Hours. Black Enamel Finish with Nickel Plated Door Rim. Price, \$1.85.

Fig. 316

"JUNIOR" WAGON, with Ruby Rear Signal. (Cold Blast). 12 inches high. 5/8 inch Wick. "Junior" Globe. 10 C. Power. Burns 13 Hours. Black Enamel Finish. Price, \$1.85.

Lantern Globes

Patent "Loc-Nob"

A globe that actually locks fast and will not fall out when the globe holder is tipped back. No. 0 Globe 20 cts. Ruby Globe 40 cts.

Fig. 317

Fig. 318

The ideal package for keeping butter and putting down eggs in water glass; also fruits and vegetables.

1 gal....\$0.75	5 gal.... 2.25
2 gal.... 1.00	6 gal.... 2.50
3 gal.... 1.50	8 gal.... 3.00
4 gal.... 2.00	10 gal.... 4.00

Butter Jars and Covers

Fig. 319

1 pt., 25 cts.; 2 qt., 30 cts.; 3 qt., 35 cts.; 4 qt., 40 cts. Jugs: 1 gal., 30 cts.; 2 gal., 60 cts.; 3 gal., 90 cts.; 5 gal., \$1.50.

Bean Pots With Cover

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

ORNAMENTAL LAWN FENCE

Fig. 320

The above cut shows style 600 with the following specifications:
Upright or picket wires are No. 9, heavily galvanized, spaced $2\frac{3}{4}$ inches apart at top with an additional No. 9 galvanized picket interwoven so as to give an extra close spacing of $1\frac{1}{2}$ inches at the bottom.

Per foot, 25 cts. Per roll, 330 feet, 20 cts. per foot.

We also carry style No. 100 with the following specifications:
Upright or picket wires are No. 9, heavily galvanized, spaced $2\frac{3}{4}$ inches apart. Cable line wires are No. 12 $\frac{1}{2}$, heavily galvanized, spaced 6 inches apart, except the two top cables which are $2\frac{3}{4}$ inches apart.

Both fences 42 inches high.

Per foot, 22 cts. Per roll, 330 feet, 18 cts. per foot.

Fig. 321

CYCLONE LAWN SPRINKLER

12 inches high, made in fine workmanship manner. Lasts a life time. Price, \$2.50.

Fig. 326

COOPER HOSE MENDER.
(All brass.) $\frac{1}{2}$ in. and $\frac{3}{4}$ in., 8 cts. each; 75 cts. doz.

Fig. 328

SURE GRIP HOSE BAND.
 $\frac{1}{2}$ in. and $\frac{3}{4}$ in. 3 cts. each; 2 for 5 cts.

GARDEN HOSE

Fig. 318

BULL DOG HOSE (Pictured above). For the very best hose that it is possible to buy, we recommend the Bull Dog manufactured by the Boston Woven Hose and Rubber Co. A 7-ply hose unconditionally guaranteed by the manufacturers. Is made of the best quality of materials which makes it last.

TIGER HOSE, 6 ply, and for general purpose a very fine piece of goods. Warranted.

LEADER HOSE, 5-ply.

COTTON HOSE, a dried, clean hose which is used not only for service but to beautify a green lawn.

SPRAY HOSE. The Bull Dog Spray Hose is made equally as well as the Bull Dog Garden Hose, built up to stand pressure up to 300 lbs. to the square inch. The inner core is made of especially prepared rubber to take care of the acids used in spraying, such as Scaleside, Lime of Sulphur, Arsenates, etc. Per foot, 20 cts.

TIGER SPRAY HOSE. Where hand power is used a very economical hose for this purpose. Price, per foot, 15 cts.

Both of these spray hose come in $\frac{1}{2}$ " size, not coupled. In using with power it is quite necessary to have longer tail couplings which are supplied extra at \$1.25 per coupling.

Brand	Weight, lbs. per 25 ft.				Price, cts. per ft.		
	$\frac{1}{2}$ "	$\frac{3}{8}$ "	$\frac{3}{4}$ "	Ply	$\frac{1}{2}$ "	$\frac{3}{8}$ "	$\frac{3}{4}$ "
Bulldog	10	7	7	7	20	15	15
Tiger	6	9	6	13	14	15	15
Goodluck	6	9	5	11 $\frac{1}{2}$	13 $\frac{1}{2}$	13	15
Leader	6	9	5	11 $\frac{1}{2}$	13 $\frac{1}{2}$	13	15
Cotton	7	9	5	11 $\frac{1}{2}$	13 $\frac{1}{2}$	13	15

THE RING LAWN SPRINKLER

Fig. 325

pressure. Weight, 1 lb. Price, \$1.00.

Our "Ring" Lawn Sprinkler is made entirely of sheet brass and stamped into the form shown. Measures about 8 inches in diameter. The "Ring" throws a fine mist; covers a large circle and can be conveniently moved about without shutting off the water. Cannot be forced apart even under the heaviest

Fig. 322

REVOLVING LAWN SPRINKLER

6 $\frac{1}{2}$ inches high, low down, does not vibrate. Polished brass arms and head, japanned base. Price, \$2.25.

Fig. 324

TUBULAR METAL HOSE REEL

The most durable reel of made. Holds 100 feet of hose.

Price, \$3.00

Fig. 323

A handy and well-made Hose Reel, mounted on wheels, can be easily moved from one place to another. Hose should always be wound on a reel, as it prevents it from rotting. Price, 90 cts.

WORCESTER LAWN SWING

Four Passenger

The Worcester Lawn Swing is made of selected hard wood, thoroughly seasoned. The standard is made of 4 posts, 2x3 inches, firmly braced and screwed together and is painted vermilion red before varnishing, the rest of the swing being varnished in the natural color of the wood. The platform has four full braces. The swing hangs on steel rods by steel hangers and may easily be removed from the standard and packed for shipment or storage.

Size Open—8 feet high. 5 feet wide. 9 feet spread. Price, \$12.00 each.

Fig. 322A

RAIN KING LAWN SPRINKLER

Different from any other sprinkler made. Any combination of sprays—circular, stationary, fine, coarse, large or small. Takes care of them all. Nozzles turn in any direction. Will throw a spray from 8 to 70 feet long, diameter according to pressure. Price, \$3.50.

Fig. 327A

EVERYBODY KNOWS ROSS' SEED GROWS

The Ideal Power Lawn Mower fills a long-felt want, for it works on an entirely different principle from most power lawn mowers. The cutting cylinder operates entirely independent of the truck as the mower is pushed the same as any hand mower and is as near fool proof as any machine can be. Other methods of operating have proven themselves a failure. Experience has taught us that the obstructions which the mower will pick up on the lawn break under the old method where the cutting reel is driven direct. This cannot occur with the Ideal operated, as it is without any chain or gear connection with the mower.

Specifications—Width cut 30 in.; Diameter mower wheels 11 in. Number of cutting blades, 5; Weight 610 lbs.; Diameter roller, 14 in.

Price, \$340.00, extra cutting reel \$50.00, Riding attachment \$20.00.

IDEAL POWER LAWN MOWER

Fig. 332
Ideal Power Lawn Mower

Fig. 333

IDEAL JUNIOR LAWN MOWER

The Ideal Junior will nicely care for 2 or 3 acres of grass and will prove a paying investment in caring for lawns as small as 150 to 200 feet square. It is a machine especially well adapted to the work in cemeteries. **Price, \$225.00, extra cutter \$35.00.**

Junior Specifications—Diameter of Drive Roller 10 in.; Corrugated Rollers; Width of Cut 22 in.; Diameter of Drive Wheel 10½ in.; Number of Blades, 5.

THE IDEAL TRACTOR TRIPLEX MOWER

For maintaining Golf Courses and to get all the full enjoyment out of the game, a carefully kept fairway is very necessary. This mower is especially adapted for cutting large areas of land.

Tractor can be detached from mower and used for hauling light trailer for moving goods.

Traction is secured by the corrugated steel wheel designed to give a grip on a smooth lawn without injury to the grass. Each cutting unit operates independent of the other. It cuts a path 84 inches wide. Is fitted with 4 cylinder, 15 H. P. engine. **Price, \$1,225.00.**

Fig. 334

THE TOWNSEND TRIPLEX GOLF MOWER

Fig. 335

Here is a mower much lighter than the ordinary horse lawn-mower, but which cuts three times as wide a swath. One man and one horse, with a Triplex, will cut more grass in a day, than three men and three horses with three ordinary lawn-mowers, thus saving the wages of two men, the cost of two horses and the cost of their care and keep. **Price, \$400.00. Extra unit, \$105.00.**

BIEDER ADJUSTABLE GRASS CATCHER

Gathers grass without the use of a rake, and without time or labor. Made of best striped canvas on a galvanized frame. They are adjustable in height and width, to fit all sizes and makes of mowers.

No. 7 Fits all low Wheel Mowers, 18 inches and smaller. **Price, \$1.75. Weight, 2 lbs.**

No. 13 Fits all High Wheel Mowers, 24 inches and smaller. **Net Price, \$2.60. Weight, 2 lbs.**

Fig. 314

Fig. A

KNOLLWOOD GRAND LAWN MOWER

To our already complete line of lawn mowers we have added one additional, known as the Knollwood Grand. This is an improved type of Knollwood Jr., which we have sold for the last 10 or 15 years. This mower has a 1-inch higher wheel, or an 11-inch wheel, with extra blade. Where anybody wishes their lawn cut very close, we think this is a decided advantage. We are offering this for the first time this year. Every mower is guaranteed and should it prove otherwise we will refund your money or supply you with another machine. We will make the customer absolutely satisfied. This guarantee is given not only by ourselves but by the manufacturers.

Price: 16-inch \$16.50, 18-inch \$18.00

THE CAPITOL LAWN TRIMMER

Fig. B

The CAPITOL Lawn Trimmer and Edger does what lawn mowers leave undone. It trims and edges your lawn with remarkable speed and perfection; the shield over the blades protects the flowers. A trial will convince you, as it has thousands of others, that the day of shears, clippers, etc., is past. Four crucible steel blades, six inches in length, tempered in oil, swivel hushings, double adjustment.

Price: Plain \$10.00. Complete with Edger \$11.00.

Hand Lawn Mowers

THE KNOLLWOOD JR. BALL BEARING HIGH-WHEEL SPADE-HANDLE LAWN MOWER

We offer our customers this machine, not as an experiment, but as a guaranteed article, one that we have tested ourselves during the past 10 years, and know what we are talking about. This machine runs on ball bearings (and all first-class machines ought to). The balls are of the very best quality and will last for years. They are enclosed in steel cups, which protect them from wear. The main axle is steel and lathe fitted and is adjusted as nice as any high-priced piece of machinery. The end of the axle where it comes in contact with the balls is cone-shaped, and any possible wear can be easily taken up. The machine has a nine-inch wheel, four knives of the best quality of steel, and last, but not least a handle that is made to fit your hands. (See the spade handle in cut.) After giving you the best mower it is possible for us to get, we have put on it a handle we have been looking for. With this Spade Handle the operator has perfect control over the machine and can handle it perfectly on a side hill or on narrow borders. We agree to take back any machine that is not satisfactory, after a fair trial. This machine is the best one on the market for private homes; it is especially adapted for parks, cemeteries, and large lawns.

14-inch \$13.75, 16-inch \$14.50, 18-inch \$15.25, 20-inch \$16.00

ROSSMOYNE LAWN MOWER. NINE-INCH WHEELS

This machine has four knives, high wheels. It runs on ball bearings of the same quality as those used on other machines. It is a first-class, medium-price mower. All parts are fitted on a lathe, and we warrant every machine we sell. For a medium-price machine, you will make no mistake in buying this one.

14-in. \$13.00, 16-in. \$13.75, 18-in. \$14.50, 20-in. \$15.25.

THE LITTLE GIANT LAWN MOWER

For the benefit of those who want a low-priced mower or those who have but a small amount of grass to cut, we offer this machine, and we think we are safe when we state that it is as good as one-half of the mowers sold at a high-grade machine, and being a light-running

mower, is preferred by many to the higher grade styles. We warrant every machine and have never had to replace one. 8-inch wheel.

Net prices: 12-inch \$9.00,
14-inch \$9.50, 16-inch \$10.00,
18-inch \$10.50.

Fig. C

EVERYBODY KNOWS ROSS' SEED GROWS

For the first time in many years great improvements have been made in strawberry baskets. We offer the new metal rim baskets at a less price than the old style basket. The principal advantages of this metal rim basket from the old style are:

Saving of 60% in storage.

Fig. 316C No sharp or rough points from stapling or tacks. Pack in crates much easier; rims do not catch each other. Show more surface on top and give fruit better appearance. Every basket made accurate and same size.

Weigh about one-half as much as the old style basket.

Each crate contains 2,000 baskets. Price \$8.50 per M.

14 QT. MASS. STANDARD PEACH BASKET

Each stave on the basket is secured to the hoops by 6 double pointed staples, which makes the basket much more rigid.

Per 100 \$8.00.
Per 1,000 \$75.00

Fig. 324

FOUR-QUART PONEY BASKET

Fig. 325

4-qt. with wooden bottom, 100, \$6.25; 1,000 \$60.00.

(For Retail and Roadside Trade.)

4-qt. WIRE BAIL ROADSIDE BASKETS
Per 100, \$7.25; per 1,000, \$70.00.

BAMBOO GROCERS' DELIVERY. Fig. 326
Extra Heavy

(With Block)

No.	Size	Dimensions	Price
1	pk.	18x11x6	\$1.00
2	1/2 bu.	20x12x6 1/2	1.10
3	3/4 bu.	22x14x7	1.15
4	1 bu.	24x14x9	1.25
5	1 1/2 bu.	25x16x10	1.40

OK MARKET BASKETS

(With Wood Handle)

Same dimensions and prices as above.

BERRY BASKETS

All white, \$9.00 per 1,000; 10,000 lots, 25 cts. less per 1,000. Close corner (for blueberries) \$10.00 per 1,000.
Oval pints, \$9.00 per 1,000.

4-qt. VIRGINIA TILLS

For roadside containers. Per 100 \$2.60, per 1,000 \$24.00.

Fig. 320

OXFORD OAK BASKET

Fig. 314

1 Bushel as above.....\$1.25
1/2 Bushel, drop handle..... 1.00
3/4 Bushel, drop handle..... .75
These baskets are woven very close, will almost hold water. A very serviceable basket and the 1/2 bushel is the best basket for picking peaches, as it does not bruise the fruit.

WET WASH CLOTHES BASKET

Fig. 322

No.	Dimensions	Price
2	25x16x10	\$1.50
3	27x18x10	1.65
4	30x20x11	1.75
5	32x22x12	2.15

ROUND CLOTHES BASKET

Each 90 cts.

DIAMOND MARKET BASKET

Fig. 319

VERBENA AND PANSY BASKET

With Wire Handle. Used largely for pansies, 100, \$2.25; 1,000, \$20.00.

Special prices in 25M lots.

With Flat Wood Handle. Per 100, \$2.50; per 1,000, Price \$22.50.

Fig. 317

THE WORCESTER BASKET

Fig. 316A

Hand made baskets. Made of pounded ash all clean white stock with board bottom. Will outlast the common machine made baskets. Order one of these baskets and be convinced you are getting the best basket in the market at the present time.

Fig. 316B

Prices:

1 Bushel (Iron Bound).....	\$1.75
1/2 Bushel (Drop Bail).....	1.35
3/4 Bushel (Drop Bail).....	1.10

STRAPPED BUSHEL BASKET

Size	Price
4 bu.	\$3.25
3 bu.	\$2.75
1 1/2 bu.	\$1.50
2 bu.	\$2.00
1 bu.	\$1.25

Fig. 323

WOVEN PICKING BASKETS

1/4 bu. drop basket, each, \$1.35.

Fig. 321

COVERED LUNCH BASKETS

Fig. 318

1 9x6x5.....	\$0.65	4 14x 8x6.....	\$0.90
2 10x7x6.....	.75	5 16x 9x7.....	1.05
3 12x8x6.....	.80	6 18x10x8.....	1.20

ANNUAL CATALOGUE OF ROSS BROS. CO. WORCESTER, MASS.

WORCESTER SENIOR CIDER MILL

Fig. 343

The most up-to-date and best mill on the market. Meets the demand where large capacity is wanted. Powerfully built with heavy hardwood frame strongly bolted together, best grade of iron and steel in working parts. Furnished with two tubs 14 in. high x 17 in. diameter, fitted with two cranks. This mill, as are all of the Worcester Mills, even to the special small capacity mill "POSITIVE FORCE FEED." The grinding mechanism consists of a hardwood cylinder in which is securely imbedded a series of steel knives for cutting and grating the fruit. Capacity: 6 to 12 bbls. of cider per day. Weight 330 lbs. Price, \$50.00.

5% Discount for Cash.

MEDIUM AND JUNIOR MILLS

Absolutely forced feed, constructed in a heavy manner, frame strongly bolted together.

These mills, as in other Worcester Mills, have a grinding cylinder which consists of hardwood cylinder with steel knives which makes the best possible cutter and grater. No iron comes in contact with the fruit which does not discolor the cider.

Both the Junior and the Medium Mills are built on the same principle of the Senior Mill pictured above and are guaranteed absolutely satisfactory in every way, both by the manufacturers and ourselves.

The Medium furnished with two tubs 12 $\frac{3}{4}$ x14 $\frac{1}{2}$, capacity 4 to 6 bbls. per day. Weight 215 lbs. Price, \$37.50. 5% Disc. for Cash.

The Junior Mill with two tubs 10 $\frac{1}{2}$ x11, capacity 2 to 4 bbls. per day. Weight 155 lbs. Price, \$32.50. 5% Disc. for Cash.

STONE JUGS

1 Gal.	\$0.30
2 Gal.	.60
3 Gal.	.90
5 Gal.	1.50

WORCESTER SPECIAL CIDER MILL

A first class single tub cider and wine press.

Frame is hardwood, working parts best grade of iron and steel with 1 $\frac{1}{2}$ in. steel press screw.

Fitted with large balance wheel, making it run easy. Size of tub 10 $\frac{1}{2}$ in. high by 11 in. diameter.

The Special Mill has the "Positive Force Feed" grinder as have the other Worcester line of mills, wood cylinder which does not discolor the fruit, capacity 1 to 2 bbls. of cider per day. Weight 130 lbs. Price \$25.00. 5% Discount for Cash.

All the Worcester Mills can be furnished with pulley for power at a slight additional expense.

Fig. 344

WORCESTER FRUIT PRESSES

Fig. 345

This illustration shows No's. 2 and 3 Presses.

	Height	Diameter	Weight	Price
No. 1	10 $\frac{1}{2}$ inches	11 inches	60 lbs.	\$10.00
No. 2	10 $\frac{1}{2}$ inches	11 inches	55 lbs.	12.50
No. 3	12 $\frac{3}{4}$ inches	14 $\frac{1}{2}$ inches	95 lbs.	15.00
No. 4	10 $\frac{1}{2}$ inches	11 inches	60 lbs.	16.00
No. 5	12 $\frac{3}{4}$ inches	14 $\frac{1}{2}$ inches	105 lbs.	17.00
No. 6	13 $\frac{1}{2}$ inches	16 $\frac{1}{2}$ inches	170 lbs.	20.00

5% Discount for Cash

EVERTIGHT OAK KEGS AND BARRELS

(Paraffined)

Fig. 347

New Kegs, every one warranted O. K.

5 Gal.	\$2.25 each
10 Gal.	2.75 each
15 Gal.	3.25 each
20 Gal.	4.00 each
25 Gal.	5.00 each
30 Gal.	5.50 each
50 Gal.	8.00 each

Fig. 348

BUTTERNUT KEY FAUCETS

8 inch. Price each.....	\$0.25
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METAL KEY FAUCETS

8 inch. Price each.....	\$0.40
9 inch. Price each.....	.45

DETACHABLE METAL KEY FAUCETS

8 inch. Price each.....	\$0.50
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EVERYBODY KNOWS ROSS' SEED GROWS

ICE TOOLS

THE WORCESTER DAIRY ICE PLOW

Fig. 350

These plows are manufactured especially for dairymen, farmers, butchers, country estates who wish the best possible tools for their use. Has five cutting teeth, one Clearer tooth. Will cut 2 inches at a time to a depth of 8 inches. Are guaranteed to give satisfaction. 8-inch Plow with adjustable guide and case, \$45.00.

Send for Special Ice Tool Catalogue.

Fig. 351

CAST IRON TANK HEATER

Place this heater in one end of your stock tank and in a few minutes have water with the chill off, so the stock will drink all they want. Cows ought not to drink cold water and without water will not produce milk. This heater burns anything. Ashes can be easily removed. Price, \$12.50.

ICE HOOKS

Boston Pattern

Each Doz.

3½ ft...	\$1.60	\$17.00
4 ft...	1.70	18.00
4½ ft...	1.80	18.50
5 ft...	1.90	19.25

Splitting Fork Ring Handle

2 Tine...	\$7.50 each
3 Tine...	8.00 each

Splitting Chisel, with Ring Handle, \$4.50 each.

Caulking Bar, with Ring Handle, \$4.00 each.

Fig. 352

Fig. 353

BOSTON PATTERN SWELL HANDLE ICE TONGS

Every Tong Warranted

16½ inch.....	\$3.00 pair
24 inch.....	3.50 pair
26 inch.....	3.75 pair

ONE-PIPE HEATING SYSTEMS

VICTORY PIPELESS FURNACE

The manufacturer behind this furnace should be sufficient guarantee as to its performance; but VICTORY needs no other sponsor than its in-built quality. Oxidized cast floor register, triple castings (all galvanized), one-piece ribbed firepot, extra large feed door, are some of the features of this remarkable all-cast furnace. VICTORY'S first cost is much lower than its quality and workmanship would lead you to believe, and in economy of operation as well as durability, it equals and even excels the highest priced pipeless furnaces on the market. It is a worthy descendant of a long and distinguished line of furnaces that has made heating history for the past generation. To the user, VICTORY means warmth—every room heated alike, and every room comfortable. Warmth, easily controlled in all weather, ample on coldest days, in new homes or old, at about half the usual fuel expense. To all it means a nationwide movement for better homes and better living conditions.

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SPRAYING CALENDAR

The most effective spray is one at the proper time. Then with a slight knowledge of the bugs or diseases to be controlled, it is quite easy to secure results. Do not spray when trees are in blossom. Use nozzle with fine mist, with good pressure.

For plant diseases, spraying prevents rather than cures, so it is necessary in that case to spray early before any disease is apparent. All leaf-eating insects are controlled by poisons, as Arsenate of Lead (dry or paste), Paris Green, Hellebore, etc. Sucking insects, as plant lice, San Jose Scale, etc., are controlled by contact sprays such as Lime Sulphur, Nicotine Spray, Miscible Oil, etc.

Bordeaux Mixture and Lime Sulphur are used to spray for diseases of plants, etc.

What to spray	For what to spray	With what to spray	WHEN TO SPRAY				Remarks and cautions
			First Spraying	Second Spraying	Third Spraying	Fourth Spraying	
Apple	Bitter rot and black rot	Weak Bordeaux	With first appearance of rot, about July 1st	Two weeks later	Two weeks later	Not required	These follow spraying for scab; danger of russetting. Twigs killed by fire blight are attacked by black rot
	Scab	Bordeaux or Lime Sulphur	Pre-blossom spray weak Bordeaux	Calyx-cup spray, Lime Sulphur	Same 7 to 10 days later	Rarely needed	The pre-blossom spray just before the blossoms open is very essential for scab. Stronger Bordeaux advised for first spraying on varieties susceptible to scab
	Twig blight	Cut out and burn	Cut out and burn on appearance				Bacterium lives over in blight cankers. Remove all in pruning.
	Aphis	Nicotine Sulphate or Soluble Oil	As buds are swelling	Pre-blossom spray	Just after bloom if necessary		Nicotine sulphate may be combined with lime-sulphur or Bord. mixture. Soluble oil should not be used after leaves appear
	Bud moth	Arsenicals in Bordeaux or Lime Sulphur	With opening of buds				
	Canker worm	Arsenate of Lead alone, 6 lbs. to 50 gal. Band with tree tanglefoot	With first young worms	2 or 3 days later if worms remain	Same as second		Bands should be in place by Feb. 15
	Coddling moth and curculio	Arsenites or Arsenates in weak Bordeaux or Lime Sulphur solution with arsenate of lead, 3 lbs. to 50 gal.	As soon as blossoms fall	7 to 10 days later	30 days later		Third spraying, arsenate of lead alone on light-colored apples. Summer sprays may be combined with those for bitter rot and blotch
	San Jose scale	Lime Sulphur or Scalecide	Late in winter, early spring or late in fall				In case of bad infestation spray in fall and repeat in spring
	Oyster shell scale and Scurly scale	Lime Sulphur or Kerosene Emulsion	Early spring with Lime Sulphur	June 1 to 15 with Lime Sulphur	For Oyster Shell scale Aug. 1 to 15 with Kerosene Emulsion		
Cucumber	Woolly aphis	Nicotine Sulphate	When trees are in full leaf	In fall			
	Downy mildew	Weak Bordeaux	Last two weeks in July	8 to 10 days later	8 or 9 days later	8 days later	Repeat at weekly intervals
	Spot on fruit	Weak Bordeaux	After first blossoms	10 days later	2 weeks after second	2 weeks after third	
	Cucumber beetle	Arsenate of Lead in weak Bordeaux, or sprinkle and mulch freely with tobacco dust	Soon as plants appear	Week later	Week after second	Week after third	Apply to fruit carefully week after fourth
Peach	Leaf curl	Weak Bordeaux	In fall or March with Bordeaux	As buds are opening			
	Scab	Weak Bordeaux	As buds are swelling	Just after calyx drops off with stronger solution of Bordeaux or with Lime Sulphur	2 weeks later with Bordeaux or Lime Sulphur	Repeat third	
	Rot	Bordeaux or Lime Sulphur	As buds are swelling	Just after calyx drops	3 or 4 weeks later	Repeat third	
	Bud moth	Arsenicals in Bordeaux	With opening of buds				Use only half usual amount of poison
	Curculio	Arsenate of Lead	Arsenate of Lead 10 days after bloom falls	Arsenate of Lead 10 days later			
	San Jose scale	Lime Sulphur	In late fall or early spring				
Pear	Scab	Weak Bordeaux	When leaves are half grown	After blossoms drop			
	Canker worm	Arsenate of Lead					See apple
	Coddling moth	Arsenicals in Bordeaux	As with the apple	Same as first			See apple
	San Jose scale	Lime Sulphur or Scalecide	In winter or early spring

GRASS GARDEN
AND FLOWER
S E E D S