

1902

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SEED MANUAL

E. J.
BOWEN'S
SEED *
STORES



PORTLAND, OR. SEED STORES SAN FRANCISCO, CAL.

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REFERENCE TABLES.

Number of Plants or Trees to the Acre at Given Distances.

Dis. apart.	No. plants.	Dis. apart.	No. plants.	Dis. apart.	No. plants.	Dis. apart.	No. plants.
12x 1 in.....	522,720	24x24 in.....	10,890	36x36 in.....	4,840	60x60 in.....	1,743
12x 3 in.....	174,240	30x 1 in.....	209,088	42x12 in.....	12,446	8x 1 ft.....	5,445
12x12 in.....	43,560	30x 6 in.....	34,848	42x24 in.....	6,223	8x 3 ft.....	1,815
16x 1 in.....	392,040	30x12 in.....	17,424	42x36 in.....	4,148	8x 8 ft.....	680
18x 1 in.....	348,480	30x16 in.....	13,068	48x12 in.....	10,890	10x 1 ft.....	4,356
18x 3 in.....	116,160	30x20 in.....	10,451	48x18 in.....	7,790	10x 6 ft.....	726
18x12 in.....	29,040	30x24 in.....	8,712	48x24 in.....	5,445	10x10 ft.....	435
18x18 in.....	19,360	30x30 in.....	6,970	48x30 in.....	4,356	12x 1 ft.....	3,630
20x 1 in.....	313,635	36x 3 in.....	58,080	48x36 in.....	3,630	12x 5 ft.....	736
20x20 in.....	15,681	36x12 in.....	14,520	48x48 in.....	2,723	12x12 ft.....	302
24x 1 in.....	261,360	36x18 in.....	9,680	60x36 in.....	2,901	16x 1 ft.....	2,722
24x18 in.....	15,520	36x24 in.....	7,260	60x48 in.....	2,178	16x16 ft.....	170

Weight of Various Articles.

	Per bush.
Barley	48 lbs.
Beans	60 lbs.
Buckwheat	48 lbs.
Blue Grass, Ky.....	14 lbs.
Blue Grass, English.....	24 lbs.
Canary Seed.....	60 lbs.
Cheat	34 lbs.
Clover Seed	60 lbs.
Corn-wheat	60 lbs.
Corn, Shelled	56 lbs.
Charcoal	22 lbs.
Flax Seed	56 lbs.
Hemp Seed	4 lbs.
Hungarian	48 lbs.
Millet	50 lbs.
Oats	32 lbs.
Orchard Grass	14 lbs.
Peach Pits	45 lbs.
Peas, smooth	60 lbs.
Peas, wrinkled	56 lbs.
Perennial Rye	20 lbs.
Potatoes, heaping	
measure	60 lbs.
Rape	50 lbs.
Rye	56 lbs.
Red Top	14 lbs.
Speltz	46 lbs.
Timothy Seed	45 lbs.
Vetches	60 lbs.
Wheat	60 lbs.

Quantity of Seed requisite to produce a given number of Plants and sow an Acre.

	Quantity per acre.		Quantity per acre.
Artichoke, 1 oz. to 500 plants.....	.6 oz.	Grass, Orchard, Perennial Rye,	
Asparagus, 1 oz. to 800 plants.....	.1 lb.	Red Top, Fowl Meadow and	
Asparagus Roots	5000 to 7250	Wood Meadow .....	.2 bu.
Barley	2½ bu.	Horse Radish Roots.....	10,000 to 15,000
Beans, dwarf, 1 pint to 100 ft. of		Kale, 1 oz. to 5000 plants.....	.2 oz.
drill .....	.1 bu.	Kohl Rabi, 1-3 oz. to 100 feet of	
Beans, pole, 1 pint to 100 hills.....	½ bu.	drill	4 lbs.
Beet, garden, 1 oz. to 100 feet of		Leek, 1-3 oz. to 100 feet of drill....	4 lbs.
drill .....	.7 lbs.	Lettuce, ¼ oz. to 100 feet of drill...3 lbs.	
Beet, Mangel, 1 oz. to 100 feet of		Millet, for seed, 15 lbs.; for hay, 30 lbs.	
drill .....	.5 lbs.	Melon, Musk, 1 oz. to 100 hills.1 to 3 lbs.	
Brocoli, 1 oz. to 5000 plants.....	.2 oz.	Melon, Water, 4 oz. to 100 hills	
Brussels Sprouts, 1 oz. to 5000		plants .....	.1½ to 4 lbs.
plants .....	.2 oz.	Nasturtium 2 oz. to 100 feet of	
Buckwheat .....	.1 bu.	drill .....	.15 lbs.
Cabbage, 1 oz. to 5000 plants.....	.2 oz.	Oats .....	.2 bu.
Carrot, ¼ oz. to 100 feet of drill...2½ lbs.		Okra, 1 oz. to 100 feet of drill.....	8 lbs.
Cauliflower, 1 oz. to 5000 plants...2½ oz.		Onion Seed, 1-3 oz. to 100 feet of	
Celery, 1 oz. to 15,000 plants.....	.2 oz.	drill .....	.4 to 5 lbs.
Cheat .....	.2 bu.	Onion Seed for Sets.....	.40 to 80 lbs.
Chicory .....	.4 lbs.	Onion Sets, 1 qt. to 40 ft. of drill...8 bu.	
Clover, Alsike and White.....	8 to 10 lbs.	Parsnip, ¼ oz. to 100 feet of drill...3 lbs.	
Clover, Lucerne .....	.15 to 25 lbs.	Parsley, ¼ oz. to 100 feet of drill...3 lbs.	
Clover, Crimson Trefoil.....	.10 to 15 lbs.	Peas, garden, 1 pint to 100 feet of	
Clover, Large Red and Medium.		drill .....	.1 to 3 bu.
.....	.10 to 15 lbs.	Peas, field .....	.2 bu.
Collards, 1 oz. to 5000 plants.....	.2 oz.	Pepper, 1 oz. to 1500 plants.....	.3 bu.
Corn-wheat	100 lbs.	Pumpkin, 1-3 qt. to 100 hills. 3 to 4 lbs.	
Corn, rice (shelled).....	.2 qts.	Radish, 2-3 oz. to 100 feet of drill.	
Corn, sweet, ¼ pint to 100 hills.....	.6 qts.	.....	.5 to 10 lbs.
Cress, ¾ oz. to 100 feet of drill.....	.1 to 3 lbs.	Rape .....	.1½ bu.
Cucumber, 1 oz. to 100 hills.....	.12 lbs.	Salsify, ¾ oz. to 100 feet of drill...3 lbs.	
Egg Plant, 1 oz. to 2000 plants.....	.4 oz.	Speltz .....	.100 lbs.
Endive, ¼ oz. to 100 feet of drill...4½ lbs.		Sprague, ½ oz. to 100 feet of drill...8 lbs.	
Flax, broadcast	½ bu.	Sunflower .....	.8 lbs.
Grass, Blue, Kentucky.....	.2 bu.	Squash, Summer, 4 oz. to 100 hills.2 lbs.	
Grass, Blue, English.....	.1 bu.	Squash, Winter, 8 oz. to 100 hills...2 lbs.	
Grass, Hungarian and Millet.....	½ bu.	Tomato, 1 oz. to 4500 plants.....	.1 oz.
Grass, Mixed Lawn.....	.3 to 5 bu.	Tobacco, 1 oz. to 5000 plants.....	.2 oz.
Grass, Red Top, Fancy Clean		Turnip, 1 oz. to 250 feet of drill	
.....	.8 to 10 bu.	.....	.1 to 3 lbs.
Grass, Timothy	¼ bu.	Vetches .....	.2 bu.
		Wheat .....	.2 bu.

E. J. BOWEN'S

ILLUSTRATED, DESCRIPTIVE AND PRICED

CATALOGUE for 1902

To Our Friends and Patrons:

After another successful year we come before our friends and patrons with our **Seed Annual** for 1902.

Feeling very much encouraged over the returns from our last season's Catalogue, we have endeavored to make this book still more attractive and useful than our former issues.

It has never been the policy of this house to resort to highly colored cuts of extraordinary vegetables, grains, grasses, etc., with exaggerated descriptions of what they will produce. We endeavor to set forth only plain, straightforward statements, based upon experience and study, and will not, for the sake of fancy prices and unwarrantable profits, fill our Catalogue with fake pictures and descriptions. Our prices are for good goods, and nothing short of such goods should satisfy you. Especially is this of importance in the seed line.

In order to accommodate our growing business we have found it necessary to double our floor space. This, with the improving and remodelling that we have done, leaves us in a position to handle, with greater dispatch than ever, any and all orders that may be entrusted to our care.

Before closing we wish to thank, not only those new customers who so kindly favored us with their orders last season, but also those friends who have expressed so many kind words about our goods.

With best wishes for the coming year, and trusting that we may be favored with a liberal share of your valued patronage, we are,

Yours very truly,

E. J. BOWEN.

Stores at { **SAN FRANCISCO, CAL.:** 815-817 Sansome Street.
PORTLAND, OREGON: Cor. Front and Taylor Streets.
SEATTLE, WASH.: 319 First Avenue South.

HOW TO SEND MONEY. Remittances should be made by Postoffice or Express Money Order, Bank Draft, or Registered Letter. Postage stamps will be received for small amounts. Remittances in any other way are entirely at sender's risk.

HOW TO ORDER. Please use the order sheets found in the front part of every Catalog, carefully filling out the blank spaces at the top for shipping directions.

BE SURE AND SIGN YOUR NAME, and give Postoffice and State. And to avoid mistakes, do not write letters on the same sheet as orders.

SEEDS POSTPAID BY MAIL. We send all vegetables and flower seeds in quantities of one pound or less by mail, postpaid, to any Postoffice in the United States, at the prices named in this Catalog, unless otherwise stated.

BY FREIGHT OR EXPRESS. In ordering vegetables or flower seeds to be sent by freight or express at your expense, deduct 10 cents per pound from single pound prices, where postage has been added.

WHEN TO ORDER. New goods are all in, and we are prepared to fill orders as soon as this Catalog reaches you. Send in your combined orders for seeds, plants, supplies, etc., at once, and if you do not want all sent now we will send part now and balance of order later.

The advantage of this is that your order is entered and filled, or stock reserved for it; and when you do want it it can be sent upon notice to do so with no delay.

If you want part or all of your order held, state it distinctly, with date when shipment is to be made.

ERRORS. We make them—so does every one—and we will cheerfully correct them if you write to us. Try to write to us good naturedly, but if you cannot, then write to us anyhow. Our best efforts will be put forth in filling all orders carefully, and with the additional room and facilities we hope to get along the coming season without an error of any kind. Let us have your orders early, and we promise to please you.

VEGETABLE SEED DEPARTMENT.

The following-named varieties may be relied on as distinctive and valuable, and the directions given for culture, if practically followed, will insure success.

ASPARAGUS.

Soak the seed 24 hours in warm water, and sow early in drills one foot apart. An ounce of seed will sow about 30 feet of drill. Keep the soil mellow and free from weeds. After one year's growth, transplant into permanent beds. A warm, sandy soil is the best, and one which has for some years been cultivated in garden crops and heavily manured is greatly to be preferred to a fresh soil. But at no period of its growth should the asparagus crop be allowed to lack for manuring. Furrows should be opened four feet apart, by going twice in a furrow with a turning plow, and then cleaning it out with shovels to a depth of eight inches at least, if the object is to grow white asparagus; but if green shoots are wanted, the roots should not be more than three or four inches under the surface. The plants should be set with their roots spread out in a natural position, and about a foot apart in the row. In setting the plants, be careful to cover the crown of the root not more than two inches at first, as the first shoots from the young roots are not strong enough to force through a deep mass of earth. Gradually fill the furrows as the shoots advance in growth.

All manuring should be done just before the plants begin to shoot. Fertilizer should be used at the rate of 1,000 pounds per acre. We mix a fertilizer expressly for asparagus. Ask for quotations on same, stating quantity wanted.

BOOK ON ASPARAGUS CULTURE.

This Book will be a great help to any one raising Asparagus for table or market. It is written by Barnes & Robinson, two old Asparagus growers, and is well worth the price. By mail, postpaid, 50c.

COLUMBIAN MAMMOTH WHITE.

A newer, distinct and valuable variety. The stalks are white, of the largest size; very productive and early. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

COLOSSAL.

Has long been the standard variety, on account of its large size, great productiveness and superior quality. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

PALMETTO.

About the same size as Colossal, quite early and shades towards bright green in color.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 65c;

For plants see page 64.



ASPARAGUS.

ARTICHOKE.

LARGE GREEN GLOBE.

The variety used as a table vegetable. The edible portion is the thick end of the leaf of the flower head. Sow early in drills one foot apart, and when about 10 inches high, transplant into rows four feet apart each way. It will produce only a small crop the first year, but will continue in good bearing five years. Cut before the bud opens.

Pkt., 5c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; lb., \$3.25.



ARTICHOKE.



ARTICHOKE TUBERS.

This variety is not produced from seed, but is cultivated for its tubers, which are especially valuable for stock feeding, on account of their fattening properties; they are well adapted to any soil where corn and potatoes can be grown. They are the best hog food known; a preventive of cholera and other hog diseases. Two bushels of tubers are sufficient to seed one acre; cut to one eye, the same as potatoes, planting in April or May, in rows three feet apart and two feet in the rows, and cover about 2 inches deep.

Red Jerusalem. 1 lb., by mail, 20c; 100 lbs., market price.

Large White French. The favorite kind. 1 lb., by mail, 20c; 100 lbs., market price.

If wanted in larger quantities write for special prices.

Beans, Dwarf or Bush, Green podded kinds

CULTURE.

Plant after danger of frost is past, in rich, mellow loam, or highly manured soil, finely pulverized. The bush varieties yield best when planted four to six inches apart in two and one-half to three feet rows. Keep the ground moist and cultivate thoroughly, being careful not to work among nor handle them when wet or damp with rain or dew.

EARLY CHINA RED EYE.

One of the earliest. For snaps gather young; later they are good green shelled, and excellent dry for winter use. The bean is rather large, and white with red blotches around the eye.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

If ordering Beans by mail, add 10c per pound for postage.

EARLY MOHAWK.

The hardest of the bush kinds, and may safely be planted a week earlier than any other. The pods are pale green, large and broad. The vines continue in bearing a long time, and will withstand a light frost. The bean is large, dark purple and brown mottled.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

ROUND YELLOW SIX WEEKS IMPROVED ROUND POD.

Thick, fleshy pods, and quite stringless; very early and hardy; superior to the old Yellow Six Weeks. Dry beans yellow drab, and nearly round.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

OUR LIST OF BEANS.

Our list comprises the Best Known Varieties, of which we furnish Hand Picked Seed, which is Unsurpassed in Quality and Known to be True to Name.

We do not put in "Novelties" for the sake of Fancy Prices, for they generally prove a disappointment to the planter.

If ordering by mail, add 10c per pound for postage.

Extra Early Red Valentine.

IMPROVED ROUND POD.

Is of healthy, vigorous growth, and has no superior in any respect among the green podded kinds. The pods are round, very fleshy, tender, rich and quite stringless. The bean is rather small, and when ripe usually irregular in form and red in color. Considered a very fine bean for canning green.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.



IMPROVED RED VALENTINE.

**STRINGLESS
GREEN
POD.**

A new green podded variety, the pods of which are claimed to be

Perfectly Stringless.

The pods are long, light green in color, and slightly curved; crisp, tender, and of the best quality. One of the very earliest beans, and remains in good condition a long time.

Pkg., 10c; lb., 25c; 10 lbs., \$2.00.



NEW EXTRA EARLY REFUGEE BEAN.

10 DAYS EARLIER THAN THE "OLD" REFUGEE.

EXTRA EARLY REFUGEE.

Said to be the earliest green podded variety, fit for the table two weeks in advance of the old Refugee, and retaining all the good qualities of that standard sort.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

Refugee, or Thousand to One.

The best late kind for snaps and very productive. The pods are dark green, veined with purple, tender and crisp, and considered the best variety for pickling. The bean is rather small, oblong, dark purple to black, mottled with light yellowish brown.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

DWARF HORTICULTURAL.

Stock erect, strong and shrubby. The bean is highly prized, green shelled, being preferred by some to the Lima. It is rather large and plump and beautifully mottled yellow and red.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

BROAD WINDSOR.

Stock erect, strong and shrubby. The bean is large, broad and flat; it is best green shelled. To insure well-filled pods, pinch off the top of the stalk and the ends of the shoots when the pods are forming.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

ROYAL DWARF KIDNEY.

This bean is large, long, slightly curved, and pure white. It yields a heavy crop, and is one of the best, either green shelled or dry.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.



NEW STRINGLESS.

GREEN PODDED BEANS—(Continued.)

Oregon Tree Bean.

Undoubtedly the most prolific bean grown, and it will yield a larger crop under ordinary circumstances than any variety that we have seen. One customer says that with conditions not usually considered favorable, it yielded a crop of 41 bushels per acre. The beans are pure white, of small size, greatly resembling the "Navy" and command the highest market price. Plant grows upright about 20 inches high, with stiff stem and branches held well up from the ground on good bean soil, though if the ground is very rich they do not stand up so well. Unusually free from rust and mildew. Will make about as profitable a crop as you can put in. Pkt., 10c; lb., 15; 10 lbs., \$1.25.

CASTOR BEAN.

Used for medicinal purposes and by some claimed to keep moles away. Pkt., 10c; lb., 25c.

Beans, Dwarf or Bush, Wax or Yellow Podded Kinds.

Davis' Wax.

This new variety is rapidly achieving popularity with canners and market gardeners.

A hardy, rustless and immensely productive bush variety. The pods are long, nearly straight, white and handsome; cooked when young they are tender, juicy and of fine flavor. The dried bean is kidney shaped, clear white, and a favorite for baking and canning.

We sold more seed of this variety last season than any other.

It is without question a most profitable bean for gardeners.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.



DAVIS' WAX.

EXTRA EARLY CHALLENGE BLACK WAX.

Extremely Early, about a week in advance of any other wax variety, and considered one of the most desirable for first crop.

The plants are vigorous and very productive; the pods resemble those of the Prolific German Wax, but are a little flatter. Ripe beans, medium size, jet black. Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

Black-eyed Wax.

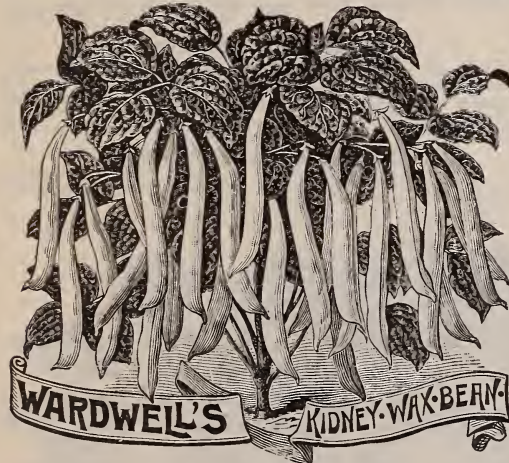
One of the earliest. They are of vigorous growth. The pods are rounder than those of the Golden Wax and terminate in an olive-green tip; are fleshy, tender, of excellent quality, and borne well up from the ground on strong stalks. The bean is medium size, of a creamy tint, with black spots around the eye, and very handsome. A popular variety. Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

Golden Wax.

A standard wax variety, earlier than the old wax kinds. The pods are stringless, very tender and excellent. The bean is of medium size, purple and white marbled, and one of the best quality, green shelled or dry. Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

DETROIT WAX (Rust Proof).

Excelling in some respects any other wax variety. Is not likely to rust, even when exposed to very wet weather. Pods flat, good length and very broad. Its quality of keeping fresh and crisp a long time after being picked makes it valuable for shipping long distances. It is extra early; quality in the pod all that can be desired, and also excellent green shelled. Pkt., 10c; lb., 15c., 10 lbs., \$1.25.



This most prolific and hardy dwarf wax bean is one of the best and earliest. Vines are of medium size, with long, flat pods of a delicate waxy yellow, very brittle and entirely stringless. We recommend this bean highly. Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

GERMAN WAX (White Seeded).

Much resembling the Black Seeded, except that pods are larger. The bean, being white, is preferred dry by some for winter use.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

MARKET GARDENERS AND TRUCK FARMERS who use large amounts of seeds should make up a list of their wants and let us quote prices.

We make a specialty of this kind of trade and can save you money.

CLIMBING OR POLE BEANS.

The pole or running kinds require greater care than the dwarf or bush varieties, but continue in bearing all summer and yield a much larger crop. They should be planted in rich, mellow soil, in hills four feet apart each way, and well supported with frames or poles firmly placed in the ground. Plant five or six beans in each hill, but allow only three or four vigorous plants to mature.

If ordering by mail, add 10c per pound for postage.

White Grease Back.

This variety is especially valuable for its extreme earliness and its habit of perfecting all of its pods at the same time. Vines small to medium, but vigorous, and in good soil wonderfully productive, bearing pods in clusters of from four to twelve. Pods medium length, silvery green, of the best quality as snaps and stand shipping better than most sorts. The beans are too small to be of much value when shelled green, but are of very superior quality baked. When dry they are small, oval, very white and hard.

Pkt., 10c; lb., 20c; 10 lbs., \$1.50.



ASPARAGUS.

ASPARAGUS.

The Best Green-Podded Pole Bean.

This is a splendid variety. Vine vigorous, climbing well and very productive, bearing its pods in large clusters; blossoms white; pods green, very long, often reaching nine or ten inches, nearly round when young, and very crisp. Dry beans long, oval, dun-colored. An early and very prolific sort, with showy pods which are most excellent for snaps. An excellent kind for canning. Pkt., 10c; lb., 20c; 10 lbs., \$1.75.

Early Golden Cluster Wax.

A well known, early and very beautiful sort. Vines large, strong growing, vigorous, hardy; pods six to eight inches long, borne in abundant clusters, each containing from three to six pods, which are broad, very thick and fleshy, deeply creased along the edge to which the beans are attached, much curved; color bright golden yellow. Of the very best quality, and staying in condition for use a long time. The beans are also excellent shelled green. We recommend this variety as furnishing the largest and handsomest pods of any sort in the list.

Pkt., 10c; lb., 20c; 10 lbs., \$1.75.

✓ Kentucky Wonder.

A vigorous good climber, very prolific, bearing in clusters extremely long and very fleshy, succulent pods, round, thick, and remarkably tender. A first-class pole variety. Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

INDIAN CHIEF, OR TALL BLACK WAX.

Considered by many the best pole wax kind. The pods are wax-like, fleshy, excellent as snaps, and continue tender and in condition for table use a long time. Beans very blunt, roundish, and of a deep indigo color. Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

DUTCH CASE KNIFE.

Produces large, flat pods that are excellent for snaps, cut young. The bean is white, large, flat, and of superior quality green shelled or dry.

Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

✓ LONDON HORTICULTURAL, OR SPECKLED CRANBERRY.

Very desirable for the family garden. Vines vigorous, bearing light green pods, streaked with red. The bean is large, oval, cream colored, beautifully splashed with red, and has no superior for cooking, either green shelled or dry.

Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

SOUTHERN PROLIFIC.

A very productive kind, continuing in bearing until frost. The pods are very tender, as they grow rapidly, and are ready for the table earlier than any other pole variety. They are produced usually in clusters of four, and are in every respect superior as snaps. The bean is small, and of a dark dun color.

Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

✓ SCARLET RUNNER.

A rapid grower cultivated both for its beautiful scarlet blossoms and for table use. The pods have an approved flavor of their own cooked as snaps. The bean, which is very large, is handsomely variegated with dark purple and black, and is used by many green shelled.

Pkt., 15c; lb., 30c.

✓ Lima Beans—Pole.

KING OF THE GARDEN, LIMA.

Comes to its highest state of perfection in the rich valleys of the Pacific Coast, and in the Southern States. Of vigorous growth, continues long in bearing, producing a large crop. Its quality is unsurpassed, whether cooked green shelled or dry. The favorite Lima Bean with our market gardeners.

Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

CHALLENGER LIMA.

Resembles Dreer's, but thought by many to be an improvement. Quite early; the beans are thick and the pods long.

Pkt., 10c; lb., 20c; 10 lbs., \$1.75.

✓ Lima Beans—Bush.

HENDERSON'S BUSH LIMA.

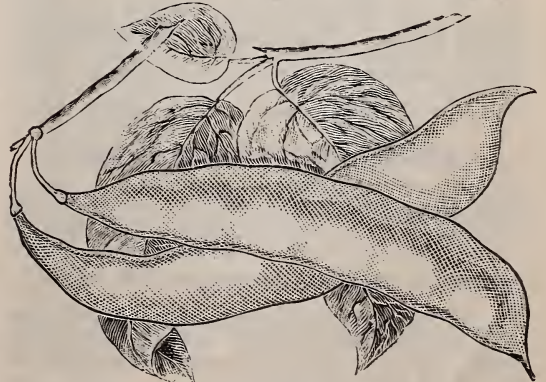
A small Lima Bean, early and prolific; desirable for early use, but not equal in quality to the different Large Limas.

Pkt., 10c; lb., 25c; 10 lbs., \$1.80.

BURPEE'S BUSH LIMA.

This is a dwarf form of the Large Lima, producing beans as large and as fine in quality as the pole varieties. It is also a heavy yielder.

Pkt., 10c; lb., 25c; 10 lbs., \$2.00.



LIMA BEANS.

BEETS==Table Varieties.

The beet is prepared in various ways for the table, and is palatable and healthful. The White Sugar and Mangel Wurzels are more valuable for stock feeding, yielding enormous crops, but are also used for the table when young and tender. The White Sugar varieties are the kinds used in the manufacture of sugar.

The round or turnip-shaped varieties, of which there are several kinds, are the best and most used for the table. The Long Dark Blood is also a table variety, though sometimes used for stock.

CULTURE.

The Beet is hardy and may be planted as soon as the ground can be well prepared, doing best in rich, sandy soil, sown in rows of sixteen inches apart, covered one and one-half inches deep. The seed will sprout better if soaked twenty-four hours in warm water before planting. Thin out by using the largest ones when they are of sufficient size, continuing until they are six to eight inches apart in the row. For field crop the rows should be far enough apart to permit the use of a horse cultivator.

EDMAND'S EARLY BLOOD TURNIP.

Dark red flesh, zoned with a lighter shade; very crisp and tender; keeps sufficiently well to be used as either a summer or winter variety; very desirable addition to the list of turnip shaped sorts.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

DEWING'S EARLY BLOOD TURNIP.

Similar to the Early Blood Turnip, but thought to mature a little earlier. Has small top, smooth root; flesh dark red, fine, tender and sweet. A good keeper.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 45c.



EARLY BLOOD, TURNIP-SHAPED.

Early Blood Turnip.

The leading turnip shaped variety, of medium size, rapid growth, not liable to become woody, keeps well. Flesh bright red, tender and sweet.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

Half Long Blood.

A new variety of excellent quality. One of the very best for winter use; does not become woody, and keeps equally as well as the Long Dark Blood. The root is smooth and handsome, and the flesh as brilliant in color and good in quality as the best Blood Turnip varieties. We advise our customers to give it a trial.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

Long Smooth Dark Blood.

The leading late variety, keeping well all winter. Should be planted in rich, warm soil to secure rapid growth, which makes them tender. Top small, root long and smooth. Flesh deep purple, fine and sweet.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

SWISS CHARD, OR SEA KALE BEET.

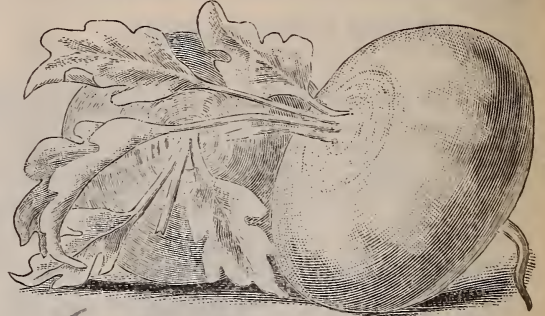
Cultivated exclusively for its leaves and leaf stalk, which are prepared and served similar to asparagus, and are tender and delicious. If cut frequently, the young leaves reappear and make excellent greens, taking the place of spinach.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

Extra Early Eclipse Blood Turnip.

An improved early kind, having a small top and taproot. The flesh is bright and dark red, tender and sweet. It attains a good size without becoming woody, and is a good keeper.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.



EXTRA EARLY ECLIPSE BLOOD TURNIP-SHAPED.

Early Egyptian Blood Turnip.

Excellent for forcing, maturing early; of medium size, flattened on top; flesh deep red, fine grained and sweet; best used when young.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

EARLY BASSANO BLOOD TURNIP.

This variety produces a large top and leaf stalks that are excellent cooked with the young roots. They should be used as soon as large enough, as they become coarse and tasteless with age. Flesh light red, shaded with circles of white.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

SUGAR BEETS.

One of the coming industries of the Pacific Coast is the manufacture of sugar from beets. Every farmer should plant a few to determine if they will do well on his farm. Ground that will produce a good crop of corn or wheat can be made to grow a good crop of sugar beets.



Klein
Wanzleben.

Vilmorin's
Improved
White
Sugar.

A hardy and easily grown variety, which is generally acknowledged to be the best to grow for the manufacture of sugar. We offer very choice seed of this strain.

Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 40c.

A medium sized white sugar beet, claimed to be the result of scientific selection from sugar-producing varieties. Uniform in size, form and color, and of a high percentage of sugar.

Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 40c.

KLEIN WANZLEBEN.

SUGAR BEET SEED.

There is no crop where the quality of the seed used is of more importance than this. Our Stock is raised by the very best growers, and we supply only the Choicest Strains.

German Imperial White Sugar.

This is the variety mostly grown in California and used in the manufacture of sugar. It gives the best results raised in sandy soil free from alkali. It is very profitable as a sugar beet, and equal to the best for stock, or for the table when young.

Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c.

LANE'S IMPERIAL SUGAR.

An improved variety of the French sugar beet, recommended as being hardier, and as containing more sugar, than the old variety. Large and excellent for stock.

Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

French White Sugar Red Top.

Large and excellent. The flesh is of a fine grain, tender and sweet, but not equal to some others for the production of sugar. Superior for stock feeding and for the table when young.

Pkt., 5c; ¼ lb., 15c; lb., 35c.

French Yellow Sugar.

Slightly ovoid in shape, grows to a large size, is sweet and nutritious, excellent for stock feeding and for the table when young.

Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 40c.

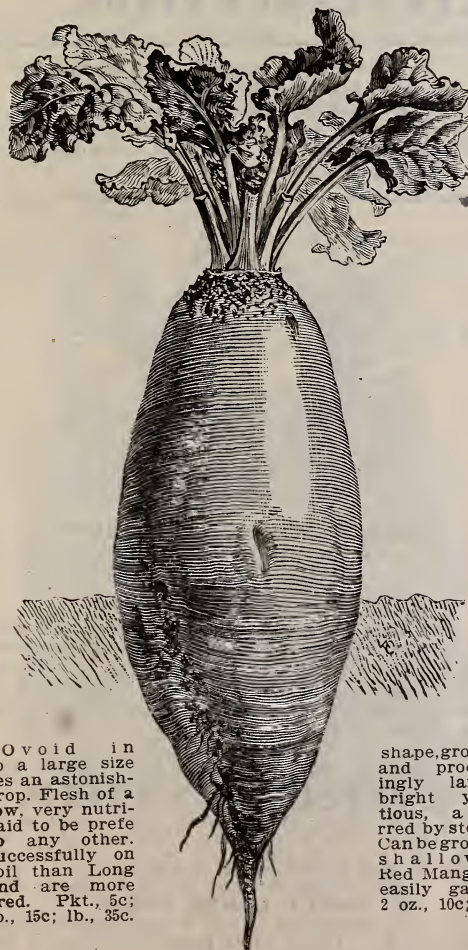
If wanted in larger quantities write for special prices.

MANGEL WURZEL BEETS.

Grown for Feeding Stock.

The value of these for stock feeding cannot be overestimated. The results from their use are wonderful, as is shown in the improved health and condition of animals, the increased yield of milk in cows, and the great saving in hay. They can be raised at a trifling cost.

Golden Tankard Mangel Wurzel.



Ovoid in to a large size ces an astonish-crop. Flesh of a low, very nutri-said to be prefe to any other, successfully on soil than Long and are more ered. Pkt., 5c; lb., 15c; lb., 35c.

shape, grows and produ-ingly large bright yel-tious, and rred by stock Canbegrown shallower Red Mangels easily gath-2 oz., 10c; ¼

GOLDEN TANKARD.

YELLOW GLOBE MANGEL WURZEL.

An excellent, large, or-ange - colored variety; very productive and a good keeper. Particular-ly adapted for growing on shallow soil.

Pkt., 5c; 2 oz., 10c; ¼ lb., 15c; lb., 35c.

RED GLOBE MAN-GEL WURZEL.

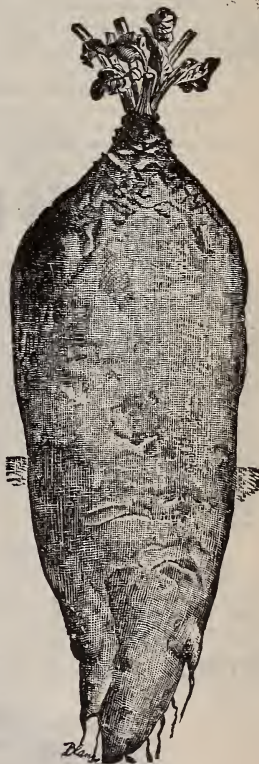
Similar in form and size to Yellow Globe, but reddish in color.

Pkt., 5c; 2 oz., 10c; ¼ lb., 15c; lb., 35c.

YELLOW GIANT, INTERMEDIATE, LEVIATHAN, OR GATE POST.

An improved variation from Yellow Ovoid; smooth skin, sweet, firm flesh; heavy cropper and good keeper.

Pkt., 5c; 2 oz., 10c; ¼ lb., 15c; lb., 35c.



MAMMOTH LONG RED.

Improved Mammoth Long Red.

An improvement on the Long Red Mangel Wurzel. Roots of more uniform shape; flesh darker in color and generally better relished by stock. Produces an enormous crop. Pkt., 5c; 2 oz., 10c; ¼ lb., 15c; lb., 35c.

Yellow Ovoid Mangel Wurzel.

Similar to the Yellow Globe, but grows to a much larger size, and more of a half-long shape. Yields an enormous crop. One of the most desirable stock-feeding mangels.

Pkt., 5c; 2 oz., 10c; ¼ lb., 15c; lb., 35c.

Any of the above Stock Beets in 10-lb. lots at 23c per pound, purchaser to pay express charges.

BROCCOLI.

Broccoli is a species of cabbage so nearly resembling the cauliflower as to be hardly distinguishable from it, being, however, harder and more easily grown. Treatment and cultivation the same as for cauliflower.

EARLY PURPLE CAPE.

A popular sort, hardy and heads well. The heads are large, of a brownish tint, and of excellent flavor. Pkt., 5c; oz., 35c; 2 oz., 65c; ¼ lb., \$1.15; lb., \$4.00.

Large White French.

A valuable variety, with large white heads, firm and of good flavor.

Pkt., 5c; oz., 35c; 2 oz., 60; ¼ lb., \$1.00; lb., \$3.50. For plants, see page 64.

BRUSSELS SPROUTS.

Cultivated for the small heads, which are very sweet and of excellent quality, growing in great numbers on the tall stem of the plant. Particularly valuable for our climate, as a few plants will supply a constant succession during the whole year. Cultivate the same as cabbage.

DWARF, IMPROVED.

The best. Produce abundantly.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.50. For plants, see page 64.

COLLARDS.



COLLARDS.

A species of cabbage, known also as Cole, or Colewort, grown throughout the south for greens. Sow in autumn, in rows a foot apart, and treat the same as cabbage.

TRUE GEORGIA, OR SOUTHERN.

The leading and best variety.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 30c; lb., \$1.00.

CABBAGE, EXTRA EARLY KINDS.

Cabbage is the most universally cultivated of all garden vegetables, and will thrive in almost any soil; but to bring it to the greatest perfection, the soil should be deep, rich and moist. For early use, sow in hotbed or cold frame in winter, or very early in the spring. For general culture sow in beds, and transplant, the early varieties one and a half to three feet apart, and the large, late kinds, three to four feet apart each way. In transplanting, set the plants deep up to the first leaf, no matter how long the stem may be. Keep the ground well stirred and free from weeds, and the earth drawn up around the stock. To keep the late varieties over winter, dig a shallow trench in light, dry soil, cover the bottom with straw, place them head down, put a little straw over the leaves, and cover all with earth, allowing the roots to project above. In this manner the heads keep well, and are easily removed.

EXTRA EARLY EXPRESS.

Said to be the earliest in cultivation, and a rapid grower. It resembles somewhat the Jersey Wakefield, but is rather larger, not quite so pointed, and of a more creamy tint. The heads are firm, tender, and of fine quality.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

HENDERSON'S EARLY SUMMER.



HENDERSON'S EARLY SUMMER.

About ten days later than the Jersey Wakefield. The head is round, and the largest of the early kinds; can be set close in the row, as the outer leaves are small. It remains long without bursting, is firm, and of the best quality.

Pkt., 5c; oz., 25c; 2 oz., 45c; ¼ lb., 75c; lb., \$2.75.

CHARLESTON, OR LARGE WAKEFIELD.

Larger and a little later than the Early Jersey Wakefield, but having the same general shape.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 70c; lb., \$2.50. For plants, see page 64.

To prevent the attacks of Cabbage Fly on small plants, dust thoroughly with plaster, air-slacked lime, or use wood ashes freely over the young plants. For the Cabbage Worm try Slug Shot. See sprays, etc., page 76.



EARLY JERSEY WAKEFIELD.

EARLY JERSEY WAKEFIELD.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 70c; lb., \$2.50.

SELECT.

EARLY JERSEY WAKEFIELD.

The favorite early cabbage with our market gardeners. Heads conical, of medium size, very solid, crisp and tender. A sure header. It will stand more cold and frost on account of its thick outer leaves and compact growth than any other variety.

SELECT:

Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00; lb., \$3.50.

EARLY YORK.

A leading early kind. Being rather small, it can be set closer than most others. The heads form rapidly, and are very tender and sweet. Usually not quite as large as the Jersey Wakefield.

Pkt., 5c; oz., 15c; 2 oz., 30c; ¼ lb., 50c; lb., \$1.50

EARLY LARGE YORK.

A little larger and usually a week later than the Early York. It is of hardy growth, the head is conical, firm, and of good quality.

Pkt., 5c; oz., 15c; 2 oz., 30c; ¼ lb., 50c; lb., \$1.50.

CABBAGE—Second Early Varieties.

DON'T FAIL

To have a sack of our Complete Fertilizer on hand and put a tablespoonful to each plant when you set them out. See page 77.



EARLY WINNIGSTADT.

Early Winnigstadt.

A desirable kind, having conical solid heads; a sure header under almost any conditions, and keeps better than most early varieties. Fine, and of excellent quality.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

ALL SEASONS.

Medium early, heads large, slightly flattened, grows low on the stem, and resembles the Early Summer, except that the heads are usually larger; of fine flavor, tender and sweet, and superior for all purposes. It is also a good keeper, and can be used as a fall and winter variety.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.

Sure Head.

Remarkable both for its certainty to head, and the ability to withstand drought. Compact, medium to large.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

FOTTLER'S DRUMHEAD, OR BRUNSWICK SHORT STEM.

Produces the largest heads of the medium early kinds, which are round, flattened on top, very solid, do not crack, and keep better than any other variety, maturing early. Crisp, tender and sweet.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.

GERMAN FILDERKRAUT.

Heads rather larger and more pointed than the Winnigstadt, which it resembles. It is of superior quality, and highly esteemed for making kraut.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.

EARLY DRUMHEAD.

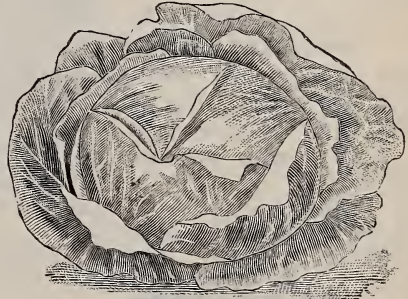
A standard medium early variety. Heads large, round, slightly flattened, and excellent for the family or market garden. It does not crack, and keeps well on in the winter.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.

Early Dwarf Flat Dutch.

A medium early kind, much resembling the Early Drumhead. It grows low on the stem, and is a sure header; firm, fine-grained, tender and excellent. Keeps almost as well as the late kinds.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.



EARLY FLAT DUTCH.

SUCCESSION.

A medium early variety, producing large, round heads slightly flattened, which do not crack readily, and are solid and of excellent quality.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 70c; lb., \$2.25.

LATE, OR WINTER CABBAGE.



PREMIUM LATE FLAT DUTCH.

Premium Late Flat Dutch.

A leading late variety. Produces large, round heads, flattened on top; heads sure to form, keep well, and of excellent flavor, tender and sweet. One of the best late market kinds.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.

Premium Late Drumhead.

An improvement on the Large Drumhead, grows lower on the stem, is larger and matures earlier, but keeps quite as well, and has no superior in any respect for family and marketing purposes, either for medium early or late crop. The seed we offer is unsurpassed by any in the market.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.

Stone Mason Marble Head.

A large Drumhead variety; sure to head, fine-grained, tender, and remarkably sweet and delicious. It is very hardy, enduring severe frost and easily kept all winter.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.

HOUSEMAN DRUMHEAD.

A variety of Drumhead Cabbage having large, solid heads. Desirable on rich soil for late crop.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.

CABBAGE PLANTS.

Persons not having the time or place to raise cabbage plants can buy any quantity of us. Ours are all Hardy Transplanted plants that will live and grow. See price list on page 64.

LATE OR WINTER CABBAGE—Continued.

Drumhead Savoy.

Forms a larger and more compact head than the Globe Savoy, but is similar in quality and flavor, having the peculiar curled appearance of the Savoy varieties.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.



SAVOY CABBAGE.

GREEN GLOBE SAVOY.

Forms a large cluster of dark green, finely curled leaves, but not a solid head. It is tender and delicately flavored. It is hardy and improved by frost.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.

RED DUTCH.

Forms a round, solid head, of a deep red or purple color. Hardy and keeps well; used mostly for pickling and salads.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.



RED DUTCH FOR PICKLING.



DANISH BALL HEAD.

Danish Ball Head, or Hollander.

This is one of the hardiest cabbages in cultivation and endures both frost and drought that would destroy other varieties.

Plants very hardy, rather long stemmed, but compact; the leaves are very smooth, but thick; the head is of medium size, round and very solid, being

The hardest heading cabbage we know of and of the very best quality.

Matures quite late, keeps well and is considered by many the best cabbage to hold over for spring markets.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.50.

MARBLEHEAD MAMMOTH DURMHEAD.

The largest variety known, cultivated mostly on account of its enormous size, usually averaging thirty pounds, but sometimes attaining double that weight. It is hardy and a good keeper, but coarser, and not as well flavored as most other kinds. Its common English name of Cow Cabbage indicates one of the uses of this variety.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$1.75.

For price list on Cabbage Plants see page 64.

CHERVIL.

A sweet, aromatic plant, used as a salad while young and tender; also as parsley for garnishing, seasoning soups, etc. Sow thinly early in spring in drills a half inch deep and one foot apart; as the plants grow, they may be thinned out, or transplanted, if desired.

CURLED.

The principal variety grown.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 30c; lb., 90c.

CHICORY.

Extensively used to adulterate coffee, and as a substitute for it. The culture is the same as for carrots. Dig at about the same time as carrots, wash, slice, and dry by artificial heat. The blanched leaves are used by some for salad.

LARGE ROOTED, OR COFFEE.

The best kind.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

CORN SALAD.

Fetticus, or Lamb's Lettuce.



CORN SALAD.

A refreshing salad used extensively in winter and spring as a substitute for lettuce. It is often cooked like spinach. Sow in drills one foot apart, in the spring or fall.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

CAULIFLOWER.

The cauliflower belongs to the cabbage family, and owing to its superior qualities as a table vegetable is fast growing in favor. To insure success, a rich, moist soil should be selected. For early crop start in hotbed; for later use sow in open ground, transplanting to fifteen inches apart, in thirty-inch rows. Cultivate thoroughly, hilling up the earth around the stalks at each hoeing, and water well while the heads are forming.



SELECT EARLY SNOWBALL.

In buying Cauliflower seed the BEST brings the largest returns. There is no vegetable where the quality of the seed has so much to do with the success of the crop as in Cauliflower. There is no finer seed offered than our SELECT Strain.

TESTIMONIAL.

From one of our gardeners:
E. J. Bowen—I have bought cauliflower seed from many seed houses, but the SELECT strain I purchased of you last spring produced larger, firmer, better-colored heads of finer quality than any I ever planted.
JOE NOLE

Market Gardener, Portland, Ore.

Mr. Nole is one of our most successful market gardeners, and knows a good thing when he gets it.

EARLY LONDON.

A leading early variety; a sure header, hardy and easier of cultivation than many other kinds. The heads are large, solid, very white, tender and delicious. Pkt., 5c; oz., 40c; 2 oz., 75c; ¼ lb., \$1.25.

EARLY FAVORITE.

A certain header; large white heads; tender and delicately flavored. A standard variety for early or late crop, and a good keeper. Pkt., 5c; oz., \$1.00; 2 oz., \$1.50; ¼ lb., \$2.50.

Lenormand's Short Stem.

One of the largest and most reliable for general cultivation. The heads are well protected by leaves so that it is particularly valuable for growing in dry, hot localities. Pkt., 5c; oz., 75c; 2 oz., \$1.25; ¼ lb., \$2.25.

LARGE ALGIERS.

Upright, large, a sure header, heads well protected by leaves in the event of frost; has no superior in quality as a late variety. Pkt., 5c; oz., 80c; 2 oz., \$1.50; ¼ lb., \$2.75.

SELECT EARLY SNOWBALL

VERY EARLY

And one of the surest to make those Fine, LARGE, SOLID, White Heads so much sought after.

This variety is the favorite with market gardeners for both early and late planting.

Pkt., 5c; ¼ oz., 60c; oz., \$1.75;
2 oz., \$2.75; ¼ lb., \$5.00.

HALF EARLY PARIS.

Pkt., 5c; oz., 60c;
2 oz., \$1.00; ¼ lb., \$1.85.

SELECT

Extra Early Dwarf Erfurt.

Very dwarf, sure to head, and one of the earliest. The heads are of good size, pure white, very solid, of excellent quality and delicate flavor.

Pkt., 10c; ¼ oz., 65c; oz., \$2.00.



EARLY ERFURT.

EARLY DWARF ERFURT.

Pkt., 5c; oz., 60c; 2 oz., \$1.00; ¼ lb., \$1.85.

EARLY PARIS.

A popular early sort. The heads are large, white, tender and excellent. Early and compact growing. Pkt., 5c; oz., 60c; 2 oz., \$1.00; ¼ lb., \$1.75.

To avoid Club Root in Cabbage and Cauliflower, do not plant them in the same ground year after year.

PLANTS.

Our Cauliflower Plants are raised from our Choice Seed. See list on page 64.

The farmer who does not grow carrots for his horses and milch cows makes a great mistake. In nutritive qualities they stand at the head of all roots. Our carrots for seed are selected with the greatest care; only smooth, true specimens are saved, and you can rely on our seed coming true to name.



CARROTS.

The Carrot is nutritious and healthful and deserves to be more extensively cultivated, both for the table and stock feeding.

Sow as soon as the ground can be thoroughly prepared, in rows fifteen inches apart, and when well up, thin to from four to six inches apart, according to the kind you are growing. The seed germinates slowly, requiring sometimes three weeks for the young plants to appear. To get a start of the weeds, soak the seed a day or two in tepid water, and roll it in sand, plaster or wood ashes before sowing, or let the ground lie several days after it is prepared for the seed, when the weeds can be killed. The soil should be rich and loose and it will produce smoother carrots if it is manured the year previous. Sow three pounds to the acre, or one ounce to one hundred and fifty feet of row.

FRENCH FORCING.

Earliest—best forcing variety.

Tops small, finely divided. The reddish-orange colored roots are nearly round, with a groove about the crown, and when fully matured they are about two inches in diameter, but should be used before they are full-grown, when they are tender and delicious.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 30c; lb., \$1.00.

Early Ox-Heart, or Guerand.

A new variety, having a small top, but rather large, thick, heartshaped root. The flesh is deep orange fine grained, and excellent for either the table or stock-feeding.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 30c; lb., 90c.

EARLY SCARLET HORN.

The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 35c; lb., \$1.00.

EARLY HALF LONG SCARLET.

(Stump Rooted.)

Excellent for early market or table use; of medium size, flesh bright scarlet, brittle and of fine flavor.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 35c; lb., \$1.00.

CHANTENAY.

One of the most perfect and uniform in shape; always very smooth and fine in texture; the flesh is of a deep golden orange color, very tender and sweet. For table use one of the best. A great favorite with market gardeners. Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; lb., \$1.00.



CARROTS—Continued.

Danvers Orange Half Long.

In form, about midway between Long Orange and Short Horn. It is of a rich, dark orange color, very smooth and handsome, and easier to dig than most carrots. First class in every respect, both for the garden and field crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 85c.

FINEST LONG ORANGE.

The leading large scarlet-fleshed variety, grown extensively for stock feeding as well as for table use. For size of root, quality of flesh and quantity of crop, it has no superior. Requires a deeper soil than the short and half-long kinds.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

LARGE WHITE BELGIAN.

Extensively grown for stock feeding. The most productive of all. Grows much above-ground, so that the entire crop can be pulled by hand. The white Belgian has recently been much improved, in the same manner as the Finest Long Orange, and is now larger and of finer quality than formerly. The stock we offer has no superior.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

IMPROVED SHORT WHITE.

Half long, thick, smooth, very productive, the heavier part above-ground, the root tapering to the point; flesh of good flavor, white, solid and crisp.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

CRESS, WATER.



A delicate, pungent salad plant, very agreeable alone, or mixed with other salads. Entirely distinct from common cress, thriving only where its roots are submerged. Sow the seed thinly along the banks of any shallow stream, early in spring. It will increase rapidly, if the conditions are favorable, and reappear every spring, with no further attention.

TRUE WATER.

Pkt., 5c; oz., 30c; 2 oz., 55c; ¼ lb., \$1.00; lb., \$3.00.

Cress, or Pepper Grass.

The leaves, when young, have a warm, pungent taste, and are used as salad, either alone or mixed with other salad plants. The seed germinates quickly, and the plants grow rapidly. As they are milder and more tender when young, the seed should be sown at intervals of ten to fifteen days, making the first sowing as soon as the ground can be prepared. May be cut several times.

CURLED.

The best garden variety.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

CELERY.

Celery is justly coming into very general use on account of its healthfulness. The seed germinates slowly, and should be started in rich, mellow, open beds, in rows, to avoid crowding the young plants, and more easily to keep them free from weeds. When two or three inches high, transplant to furrows, and when eight to ten inches high, fill up the furrows, continuing at intervals to hill up till fully matured, and blanched, taking care not to get earth between the stalks. The vigor and quality of the stalk is improved by partially topping when transplanting. Cultivate thoroughly and keep well watered.

WHITE PLUME.

A new variety; popular on account of its naturally white leaf stalks, which require less blanching than other kinds. Tie the tops together and hill up the earth slightly. Its handsome, plume-like top is very ornamental on the table. It is quite early and a fine market sort.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

CELERIC or Turnip-Rooted Celery.



A variety having turnip-shaped roots, which are used principally for seasoning meats and soups; also used for salads.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.25. For plants, see page 64.



WHITE PLUME.

PINK PLUME.

Just like the White Plume, excepting that the stalks are suffused with pink, and possessing the crispness, rich nutty flavor and long keeping qualities peculiar to red sorts.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.25.

CELERY—Continued.

Evans' Triumph.

Of vigorous growth; having the fine nutty flavor for which celery is so much admired more fully developed than most varieties. Very white, crisp, tender, and fine flavored. One of the best late varieties.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.50

BOSTON MARKET.

Forms a cluster of small stalks, instead of a few large ones. Fine, crisp, and superior flavor.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; lb., \$1.50.

Large White Solid.

A standard variety and one of the largest. A strong, vigorous grower, crisp, tender, and of good flavor; firm, and keeps longer than most others.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.25.

DWARF WHITE SOLID.

Remarkable for its keeping qualities. A standard variety of good flavor, solid and crisp. Being dwarf it can be planted closer together than most other kinds.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; lb., \$1.50.

HARTWELL'S PERFECTION.

A little taller than the Half Dwarf and a little later in maturing but one of the best flavored varieties. The stalks are medium size, very crisp and tender, and of a fine nutty flavor.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; lb., \$1.50.

Giant Pascal.

A new variety. It is large and of unusually rapid and vigorous growth. The stalks are easily blanched, firm, crisp, and tender; of a beautiful golden tint, and possessing in a high degree the rich, nutty flavor which is the chief characteristic of superior quality in this popular salad plant. Our stock is the very best in the market.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; lb., \$1.50.

DWARF GOLDEN HEARTED.

A new variety of great value; splendid keeper, remarkable for its fine quality. Heart of bright golden color.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; lb., \$1.50.

CELERY SEED FOR FLAVORING.

Seed used for flavoring soups, stews, pickles, etc.

2 oz., 10c; ¼ lb., 15c; lb., 35c.

For plants, see page 64.



GOLDEN SELF-BLANCHING.

Golden Self-Blanching.

A variety somewhat resembling the White Plume, and, like it, requiring but little earthing up to secure perfect blanching. Is of a rich golden tint when ready for the table; very handsome and of excellent quality.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 90c; lb., \$2.75.

CORN—Sweet or Sugar.

Corn thrives best in warm, rich soil. The smaller varieties may be planted ten inches apart in drills made two and a half feet apart. The larger kinds should be planted a foot apart in drills made three and a half feet apart, or may be planted in hills three and a half feet apart each way, allowing three or four stalks to remain in a hill, the latter is the usual way, though in drills the product is greater per acre. Success can only be secured by thorough cultivation.

In cooking the varieties having red cobs, the ears should be dropped into boiling water, and removed as soon as done, or the kernels will become stained.

If ordering by mail, add 10c per pound for postage.

EARLY EVERGREEN.

The Best Second Early Sweet Corn.

As is well known, the famous Evergreen Sweet Corn originated over twenty years ago, but while it is the best variety of late sweetcorn, no effort has ever been made to improve it in earliness until now. In the New Early Evergreen we have a selection possessing every good quality of Stowell's Evergreen and resembling it in every respect except that the stalk is about one foot shorter, more closely jointed, and that it will mature for market ten to fourteen days earlier. It is certainly a valuable addition to the corn list and we advise all our customers to try this variety.

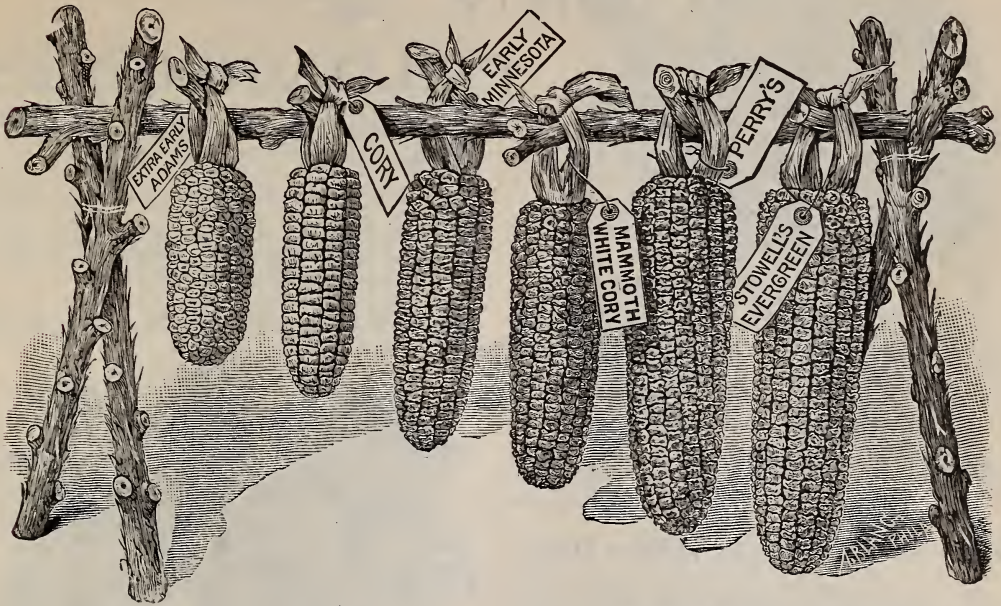
Pkt., 10c; lb., 15c; 10 lbs., \$1.25.



EARLY EVERGREEN.

For Hand
Corn
Planters
See
Page 69.

CORN—SWEET OR SUGAR—Continued.



EXTRA EARLY ADAMS.

A very early variety, not strictly a sweet corn, but white and tender, and extensively used for the table. Can be planted earlier than the sweet varieties.

Pkt., 5c; lb., 10c; 10 lbs., 80c.

EXTRA EARLY CORY.

One of the earliest sweet varieties. It produces good-sized ears very early. When ripe, the grains have a peculiar yellowish pink color.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

White Cob Cory.

An improvement on the Red Cobbed Cory; as well as being equally early. The ears are larger, and it has the further advantage of having both a white cob and white grain. A splendid market garden variety, and excellent for the table.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

MAMMOTH WHITE CORY.

Largest and Best Extra Early Sweet Corn.

Stalks medium size, with two or more large, fine-shaped ears of excellent quality. A ready seller in the market and a favorite with market gardeners.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

Early Minnesota.

One of the earliest kinds of sweet corn. The ears are of the best quality; it is very productive. A popular early variety.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

EARLY PEE AND KAY.

Quite large ears for so early a variety. Ten or twelve rowed, straight and handsome. Fit for the table about the same time as the Early Minnesota.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

Crosby's Early.

An early kind, producing well-filled ears of ten to twelve rows. It is remarkably sweet and tender, and considered by many superior to most other kinds.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

STOWELL'S EVERGREEN.

Remarkable for remaining a long time in a fresh condition, suitable for the table. Hardy and productive, tender and sugary, and the best late variety for general use.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

MOORE'S EARLY CONCORD.

Sweet, medium early, producing large, handsome ears, of excellent quality, that grow low on the stalk.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

Early Eight-Rowed Sweet, or Sugar.

Excellent for general crop. Medium early, remaining in condition for the table a long time, tender and sweet.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

PERRY'S HYBRID.

A new variety; stalk of medium height. The ears are large and grow low on the stalk. Kernels large, very white, tender and sweet.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

Early Mammoth Sweet.

Produces the largest ears of any variety, which are filled to the tip with large, full kernels, sweet, tender and delicious. The most popular variety for canning; also good for market or home use. The leading variety for a large and certain crop.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

HICKOX.

Ears long and extremely fine looking. Kernels large and flat. A late variety.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

Black Mexican.

One of the sweetest and best for the table. It is remarkably productive, and well suited to a warm climate. It is white and beautiful when in condition for cooking, but the kernels are bluish-black when ripe. Said to be less subject to the attacks of worms than other sweet kinds.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

Country Gentleman.

Ears of good size, small white cob bearing irregular rows of pointed kernels, something on the shoe-peg order. Very sweet and much sought after.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

COMMON SWEET.

Used for general field crop for fodder. Sometimes sown thinly broadcast, but usually planted in hills or drills.

Pkt., 5c; lb., 10c; 10 lbs., 80c.

EVERGREEN FODDER.

A valuable crop for stock and dairymen. Remains green and sweet for a long time.

Lb., 10c; 10 lbs., 80c; 25 lbs., \$1.75.

If wanted in larger quantities, write for special prices.

CUCUMBER.

Cucumbers need a warm, sandy soil, and should not be planted in open ground until the weather is settled and warm, as they will not thrive until the ground is thoroughly warmed. Plant in hills four feet apart each way, thinning to three or four of the strongest plants, after danger from insects is passed. Sprinkle the young plants with fine ashes, plaster, or air-slaked lime, to protect them from bugs. As fast as the cucumbers attain a suitable size, they should be taken from the vine, whether required for use or not, as their ripening soon destroys the vine's fruitfulness. The fruit should be carefully shaded, as exposure to the sun causes the flesh to become bitter and tinted with green. When preparing cucumbers for the table all flesh so affected should be removed.

EARLY CLUSTER.

A productive early kind. The fruit, which is not large, is borne in clusters, and is crisp, and of good flavor. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

Boston Pickling.



BOSTON PICKLING.

This variety is very popular with our gardeners to grow for pickles. Fruit small, smooth, bright green, and good quality. A great producer.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 55c.

Thorburn's New Everbearing.

It is of small size, very early, enormously productive and valuable as a green pickler. The peculiar merit of this novelty is that the vines continue to flower and produce fruit until killed by frost, whether the ripe cucumbers are picked off or not, differing in this respect from all other sorts in cultivation. The one vine exhibits at the same time cucumbers in every stage of growth, the small ones being perfect in shape, of a fine green color, and just the size for pickling.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.



SHORT GREEN.

EARLY SHORT GREEN, or EARLY FRAME.

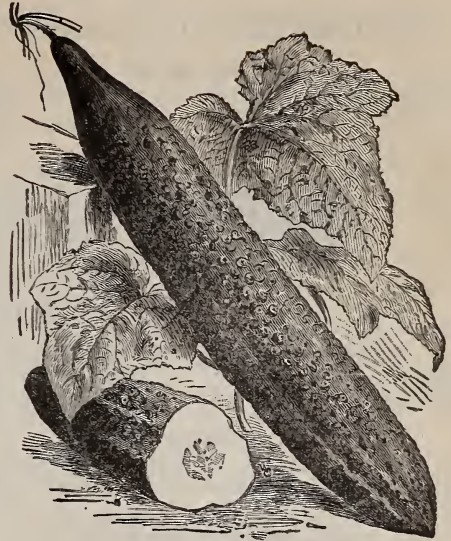
A vigorous and productive variety, producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table, or for pickling while small.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

EARLY OR PEERLESS WHITE SPINE.

Even in shape at both ends, and uniform in size and color. In great demand for pickling, being the variety almost universally grown for the pickle factories of San Francisco. Also a fine market and table sort.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 55c.



BEST LONG GREEN.

Best Long Green.

The leading large variety. Fruit from ten to twelve inches long, dark green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles. We offer the "Best Strain" that will grow long and uniform in shape.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 55c.



JAPANESE CLIMBING CUCUMBER.

Japanese Climbing Cucumber.

This is a strong and vigorous grower, the vines attaining nearly twice the length of common varieties. The young plants soon begin to climb, and may be grown on fences, poles or trellises, thus saving much valuable space in small gardens. It is estimated that with this cucumber the product of a given area can be increased three-fold. The fruits are from ten to twelve inches in length, of a fine green color; the flesh is thick and firm, never bitter, and fine for pickling as well as slicing. It is very prolific, and the fruits being raised well above the ground never suffer from wet weather or insects; proof against mildew, bear till late.

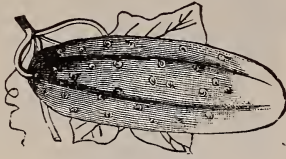
Pkt., 10c; oz., 15c; 2 oz., 25c; ¼ lb., 35c; lb., \$1.25.

CUCUMBERS—Continued.

COOL AND CRISP.

Related to White Spine, but longer and more pointed at the ends.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 55c.



WHITE SPINE.

EARLY LONG WHITE SPINE.

Has the characteristic White Spine qualities, but is longer than other varieties. A favorite early sort for forcing.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 55c.

NICHOL'S MEDIUM GREEN.

A variety of recent introduction, producing an abundant crop of smooth, handsomely formed fruit of medium size and excellent quality, either for pickling or slicing.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 55c.

GHERKIN, FOR PICKLES.

A very small, oval, prickly sort, distinct from all others. It is grown for pickles only. It is the smallest of all the cucumbers and should be picked when young. The seeds germinate slowly.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 80c.

EGG PLANT.

The Egg Plant, though not universally grown, is fast winning its way to more general use, and properly served is a most excellent dish. It will grow in any good garden soil, but the best results are obtained in a deep, rich, warm loam. The seed germi-



EGG PLANT.

nates slowly, and should be started in a hotbed, or well-protected, warm place, kept very moist. Do not transplant till the weather is settled, and the ground thoroughly warm. It thrives with the same treatment as that given the tomato.

EARLY LONG PURPLE.

Fruit rather long, usually largest at the blossom end; a hardy kind, productive and of good quality.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

EARLY ROUND PURPLE.

Fruit large, oval round, deep purple, tender and excellent. Desirable for the family or market garden.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

Large New York Improved Purple.

Similar in form to Early Round Purple, but a little later. Fruit of good quality and produced abundantly.

Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00; lb., \$3.50.

BLACK PEKIN.

Oval round, of medium size, very dark, glossy and handsome. Flesh delicate and excellent. Prized for the family garden.

Pkt., 5c; oz., 30c; 2 oz., 55c; ¼ lb., \$1.00; lb., \$3.00.

ENDIVE.

The garden Endive is much cultivated in Europe for winter salad. It is bitter until properly blanched, when it makes a fine salad, and is also used for greens. Sow at any time during spring, or later for winter use, in drills a foot apart. Thin from ten to twelve inches apart. Keep the ground clear of weeds until the plant has attained its full size, when it is blanched by gathering the leaves and tying them by the tips in conical form. The light and air are thus excluded from the inner leaves, which will be blanched in two or three weeks.



LARGE GREEN CURLED.

GREEN CURLED.

The hardiest variety. Dark green, beautifully curled leaves, crisp and tender.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.50.

WHITE CURLED.

Coarser and less tender than Green Curled, but very attractive on account of its color, even the outside leaves being very light colored, often white.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.50.

BROAD-LEAVED BATAVIAN SCAROLLE.

Has broad, thick leaves which form a large, loose head. Fine for soups and stews. If blanched, by tying the outer leaves together, it makes excellent table salad.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.25.

KOHL-RABI.

Kohl-rabi is a vegetable partaking somewhat of the nature and flavor of both the cabbage and turnip. The stem, just above the ground, swells into a bulb resembling a turnip, which is the edible part. It should be cut for the table before it is fully grown, as it becomes tough and stringy if allowed to grow too long. Sow in drills, the same as Turnips, as soon as the ground can be prepared. Thin to six inches in the row, or transplant like cabbage.



KOHL-RABI.

EARLY WHITE VIENNA.

Best table sort—pure white, medium-sized bulbs.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

LEEK.



The Leek belongs to the onion family, and on account of being milder and less pronounced in flavor, is preferred by many for soups and stews. It is very hardy, and may be sown as soon as the ground can be prepared, in drills fifteen inches apart, covering 1 inch deep. When six inches high, hill up the earth to cover up the neck; or, for blanching very white, plant in trenches and earth up like celery.

LARGE ROUEN, OR AMERICAN FLAG.

A large, strong-growing variety, of good quality, and hardy. The leading market kind.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.25.

Monstrous Carenton.

Rather larger than the Flag, and very tender and mild, on account of its rapid growth.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; lb., \$1.50.

LETTUCE.

Lettuce will thrive in any good garden soil and requires so little care that all who have the ground at their disposal should raise enough for their own use, and especially as the quality depends almost entirely on its crisp freshness.

Simpson's Early Curled.

A leading market variety, used for very early planting and forcing. Forms a dense mass of finely curled and wrinkled leaves that are excellent and tender, and do not wilt readily.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; lb., \$1.00.

EARLY BOSTON MARKET.

For forcing, and one of the best for that purpose. Similar to the Tennis Ball in quality, but rather larger and lighter colored. Matures quickly, and is crisp and tender.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 40c; lb., \$1.20.

Early Prize Head.

An early variety not strictly forming a head, but a dense cluster of beautifully bronzed leaves that are remarkably tender and sweet. Slow to run to seed, remaining long in condition for the table. Too delicate and tender for market gardening, but for family use, where it can be taken from the garden and immediately prepared for the table, it has no superior.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; lb., \$1.00.

Grand Rapids.

A forcing variety of superior quality and beautiful appearance, a strong grower, free from rot, and keeps crisp and tender without wilting when exposed for sale, longer than any other forcing lettuce. It is also a desirable variety for sowing in the open ground.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.25.

Hanson.

This variety forms the most perfect heads of any. They are small creamy white inside, and very tender, but should be used young, as they are liable to become bitter with age, or when they mature slowly. An excellent market kind, longer in running to seed than any other.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; lb., \$1.00.

KALE, OR BORECOLE.

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves that are tender and of excellent flavor. It requires the same treatment as cabbage; is very hardy, being improved by frost.

GREEN CURLED SCOTCH.

Produces an abundance of dark green, curled leaves, very hardy.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 80c.

DWARF GREEN CURLED, or GERMAN GREENS.

A dwarf variety, finer and more compact than the Scotch. Can be sown in the fall, for use early in spring. One of the best sorts for table.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 30c; lb., \$1.00.

DWARF GERMAN PURPLE.

A variety much prized by the Germans, and similar to German Greens, except that it has a deep purple tint. Very handsomely curled, and of good quality. Also hardy and can remain in the garden all winter.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 30c; lb., \$1.00.



DWARF GREEN CURLED KALE.

EARLY CURLED SILESIA LETTUCE.

This variety forms more of a loose head than Simpson's Early Curled, and is rather larger. It is an erect, strong grower, and good market kind. The small plants can be used very young, as the inner leaves scurf form.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; lb., \$1.00.

SIMPSON'S EARLY BLACK SEEDED.

An excellent variety, and not as generally grown as its merits justify. It has all the good qualities of Simpson's Early Curled, which it resembles, but is larger, lighter colored, and the leaves are less curled. It is one of the tenderest and sweetest, and remains so longer than most other kinds.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 40c; lb., \$1.20.



HANSON.

LETTUCE—Continued.**EARLY TENNIS BALL.****(Black Seeded.)**

The plant is small, of rapid growth, and should be used as soon as large enough, as it quickly runs to seed. Leaves dark green, thick and crisp. One of the best for growing under cover, and for forcing.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.00.

DEACON.

An excellent variety that forms heads similar to the Philadelphia Butter, but firmer and of a deeper green. It is a good market kind, slow to run to seed, and withstands heat better than most others.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.00.

LARGE DRUMHEAD.

One of the largest heading kinds, but the heads are not as solid as the Hanson or Deacon.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.00.

DENVER MARKET.

This sort has a beautifully curled savoy-like leaf; a Drumhead variety of very excellent quality and extremely early.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.00.

PHILADELPHIA BUTTER.

Forms a close, firm head, with few outer leaves, which are dark green. A fine variety for the family or market garden.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.00.

**SAN FRANCISCO MARKET.**

Large, solid heads, bearing transportation well. Color beautiful medium light green; opens very white; tender and sweet. Undoubtedly a desirable acquisition as a market or family variety.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.00.

LARGE PASSION.

A Drumhead sort; outer leaves tinged with brown.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.00.

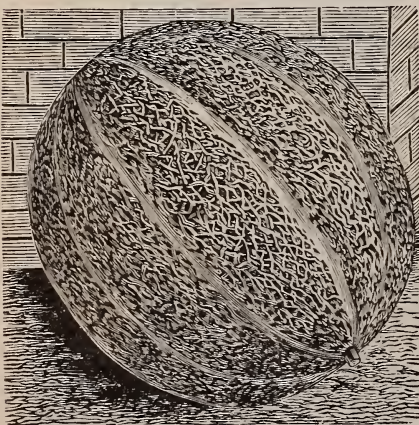
WHITE PARIS COS, OR ROMAINE.

A distinct variety, forming oblong, upright heads, largest near the top. Hardy, tender and crisp.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.00.

MELON, MUSK.

Of semi-tropical habit, it comes to its full state of perfection in the rich sandy loams and warm valleys of the Pacific Slope and Southern States. Under the above head all the green and yellow fleshed Cantaloupes and Nutmeg Melons are classed. As the kinds are very liable to intermix with each other, as well as with cucumbers, gourds, pumpkins and squashes, and thus deteriorate, they should not be planted near each other. Plant when danger of frost is past and the weather settled and warm, in rich, mellow soil, in hills six feet apart each way, allowing three or four healthy plants to remain in a hill. If the soil be too light and sandy, enrich with a little well-rotted manure, thoroughly spaded into the bottom of the hill. Sprinkle the young plants with fine ashes, plaster, or air-slaked lime, to protect them from bugs. Old seed fruits most. Our list includes—both in Musk and Water Melons—the very best varieties.



NETTED GEM.

HACKENSACK.

A large, prolific variety, growing in favor; oval round, flattened at the ends, deeply ribbed and netted. The flesh is green, delicious, juicy and sweet. A good market kind.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; 1b., 60c.

NETTED GEM, OR ROCKY FORD.

A kind that has attained great popularity. The fruit is medium size, almost a globe in shape; flesh light green in color, thick, very sweet and highly flavored. Regularly ribbed and covered with coarse netting. We advise our customers to try this variety.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; 1b., 80c.

EARLY JENNY LIND.

A small, very early variety; flattened at the ends; small to medium in size. The flesh green, is very sweet and juicy.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; 1b., 60c.

SMALL GREEN NUTMEG.

A variety resembling the Jenny Lind, and ripening nearly as early. The flesh is green, fine and very sweet. Superior for the early market, or family garden, and a favorite for hotels and restaurants.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; 1b., 60c.

SURPRISE.

The earliest of the yellow fleshed varieties. Oval round, medium size, rather smooth, the salmon colored flesh is highly flavored and delicious. Excellent for early marketing.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; 1b., 55c.

PAUL ROSE, OR PETOSKEY.

Something new; created by a cross between the Netted Gem and Osage; fruit oval, about five inches in diameter, rich orange in color, sweet and high flavored.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; 1b., 80c.

MUSK MELON—Continued.

OSAGE, or Miller's Cream.

The meat of this Melon is VERY DEEP FLESHED and EXTRA GOOD FLAVOR. Is considered by many the most profitable market variety in cultivation. It is of medium size, nearly round, salmon-colored flesh, finely netted, of rich, luscious flavor, gains favor with both growers and consumers. All lovers of good melons should try the Osage.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 80c.

EMERALD GEM.

Medium size, rather deeply ribbed, not netted, but smooth and handsome. The flesh is orange colored, thick, very sweet and delicate flavor. It ripens early and is very prolific.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

BAY VIEW.

Fully as large as the Casaba, but a handsomer melon, ripening earlier. The flesh is green, rich and melting, and will ripen well if taken from the vine a little green. One of the best market kinds.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.



OSAGE, OR MILLER'S CREAM.

CASABA.

The largest of the green fleshed kinds, and one of the most desirable; long, rounded at the ends. Flesh thick and firm, but juicy, sweet and delicious.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

Musk Melons or Cantaloupes.

	Pkt.	oz.	¼ lb.	lb.
Large Green Nutmeg. Good size, thick, green flesh of fine flavor and quality.....	5c	10c	20c	55c
Extra Early Hackensack. Ten days earlier than Hackensack, which it resembles..	5c	10c	20c	60c
Large Netted Cantaloupe. Large variety, medium early, excellent quality	5c	10c	20c	60c
Early Baltimore or Acme. Early; oblong; pointed; flesh light green, sweet.....	5c	10c	20c	50c
Montreal Nutmeg. Medium early; flesh thick, firm and excellent	5c	10c	20c	50c
Early Yellow Cantaloupe. Similar to the Surprise but not quite so early.....	5c	10c	20c	45c
Orange Christiana. A distinct variety, early; flesh deep yellow, highly flavored.....	5c	10c	20c	55c
Long Yellow. A large, deeply ribbed, oval melon; yellow flesh, musky flavor.....	5c	10c	20c	45c

MELON, WATER.

The Water Melon, in its origin and habits, is similar to the Musk Melon, and should receive the same cultivation and treatment, except that the hills should be farther apart.

Ice Cream, or Peerless.

Rind pale green, mottled, nearly round; flesh bright scarlet, very sweet and delicious; excellent for the family garden. A standard variety.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

Florida Favorite.

Large and long, mottled, dark green with lighter stripes. Rind firm; flesh deep red. Popular in the South generally.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

Cuban Queen.

The largest variety known, having attained a weight of one hundred pounds in California. Oval round, dark and light green mottled stripes of pronounced shade; vines not large but vigorous; flesh deep scarlet and firm, ripening well to the core. A good shipper for so large a melon.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.



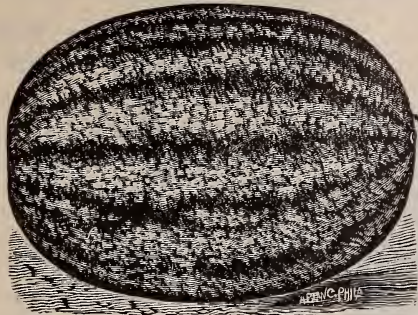
KOLB'S GEM.

Kolb's Gem.

Very large, oval shaped, deeply mottled, vines vigorous and remarkably productive. Flesh bright scarlet, solid and sweet. Rind thin, but very firm. Can be safely shipped long distances.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

WATER MELONS—Continued.



SWEETHEART.

- The Boss.** Oblong; skin dark green; flesh deep scarlet; of very superior quality.....
- Dark Icing.** Early, round, solid, with thin dark green skin; of superior quality.....
- Black Spanish.** Round, dark green melons; flesh of fine quality
- Gray Monarch, or Long White Icing.** Very large, long; crimson flesh.....
- Mammoth Ironclad.** Long striped; very large; late; red flesh; good shipper.....
- Lodi.** A great producer; large, sweet and very popular in California.....
- Seminole.** Very large; long; light skin; quality first-rate; intermediate
- Mountain Sweet.** An old reliable sort; flesh red; of extra fine quality.....
- Gypsy, or Georgia Rattlesnake.** Oblong, dark and striped; bright red flesh.....
- Green Citron.** (Red Seed.) Round and handsome; for preserving only

SWEETHEART.

Takes almost first place as a favorite in the East. Large, handsome, and a good shipper. In color bright mottled green, in form almost oblong. Its thickness about two-thirds its length. Flesh bright red, firm, crisp and sweet.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

DIXIE.

This is a new melon of excellent quality. Flesh red and tender, ripening evenly and all good; size medium to large; skin dark green, beautifully mottled and very attractive. A heavy cropper and fine for shipping or home use.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

PHINNEY'S EARLY.

A valuable early kind, producing an abundant crop. Rather long, rounded at the ends. It is mottled with stripes of dark and light green; thin, firm, rind, flesh of excellent grain and quality.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

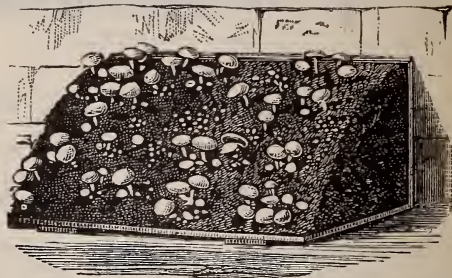
All at the Uniform	
Price of	
5c	big package
10c	ounce.
15c	2 ounce.
20c	4 ounce.
50c	per lb.

POSTPAID.

MUSHROOMS.

The Mushroom is an edible fungus that does not produce seed, but is propagated from the white fibers, termed Spawn, resembling roots, that spread from the base of the stool. It is grown in outbuildings, cellars, caves, or wherever a uniform temperature of 60 to 70 degrees can be maintained. Make beds of fermenting manure, which should be large and deep enough to acquire a heat of about 70 degrees. When at the proper temperature, insert bits of spawn at intervals of six inches. One brick will plant about 10 square feet. As soon as signs of growth appear, place two inches of soil over them, and cover all with straw. Water is used if necessary, which should be warmed to the temperature of the bed. Mushrooms appear in six to eight weeks, and should be collected when at the proper size for the table. More complete directions are contained in each box.

French, 3-lb. boxes, by express, at buyer's expense, \$1.50 per box.
English, 1-lb. bricks, by mail, postpaid, 30c each.



MUSHROOMS.

Book on MUSHROOMS AND HOW TO GROW THEM. Price, 10c. Free with an order for five bricks or one box spawn.

MUSTARD.

A hardy, pungent plant, highly esteemed by many as an appetizing salad, for which purpose it should be cut when two or three inches high. It is also used when larger as greens. The seed has an extensive use and is used in both its natural and prepared state. It should be sown in rich, mellow soil, as early as the ground can be well prepared, in drills fifteen inches apart.

Southern Giant Curled.

Produces enormous bunches. Excellent for salad, and very generally used for greens, for which it is largely cultivated.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 80c.



SOUTHERN GIANT CURLED.

YELLOW CALIFORNIA, OR WHITE ENGLISH.

Leaves mild, tender when young, and generally preferred for salad. The seed, which is light yellow, is largely used with pickles and in salads.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 35c.

Mustard Seed for flavoring and pickling.
Pkt., 5c; ¼ lb., 10c; lb., 25c.

NASTURTIUM.

(*Trapezeum Majus.*)

The Nasturtium is very popular as an ornamental plant, and also for the table. The leaves when young are used as salad, and also in connection with the flowers for garnishing, and the seeds for capers and pickles, for which purpose they should be gathered while green and tender. It is hardy, and may be planted as soon as the ground can be prepared, beside a fence, trellis, or other convenient support, where it will grow rapidly and climb high.

TALL VARIETIES, MIXED.

Mostly used, as they produce the largest seeds.
Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

For Lobbianums and fine Dwarf Varieties, see Flower List.

ONION SEED.

CULTURE.

The Onion thrives best in a rather deep, rich, loamy soil, and, unlike most vegetables, succeeds well when cultivated on the same ground for successive years. The best culture requires that the ground should be deeply dug and heavily manured with well rotted manure the season or two previous. As soon as the ground can be prepared in the spring, sow thinly in drills about a quarter of an inch deep and

one foot apart; cover with fine soil and press down with the back of a spade or a light roller. When the young plants are strong enough, thin gradually so that they stand three or four inches apart. Keep the surface of the ground open and free from weeds by frequent hoeing, taking care not to stir too deeply, or to collect it about the growing bulbs.

One ounce for 100 feet of drill; 4 or 5 pounds in drills for an acre.



SPANISH KING, OR PRIZE TAKER.

A handsome, fine flavored sort, of a clear, bright straw color, and uniform perfect globe. Produces enormous crops, which keep wonderfully well. They ripen up hard and fine, and present a handsome appearance. Flesh pure white, fine grained, mild and delicate in flavor.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 55c; lb., \$1.75.

LARGE RED WETHERSFIELD.

A standard variety, one of the most productive kinds, even on poor soil. Its good keeping qualities render it one of the best for shipping. Large, slightly flattened, deep purplish red. Flesh coarser and stronger than the Early Red Globe, but rich and nutritious.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.25.

Yellow Globe Danvers.

A very handsome, round or globe shaped variety of large size, with thin, yellowish skin, white flesh, fine grained, mild, very firm, and the best of keepers. It ripens early and sells readily at the highest prices.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; lb., \$1.10.

EXTRA EARLY LARGE RED GLOBE.

A large, early, rapid growing kind. Skin deep purplish red; flesh white, mild, and unusually sweet. Best for early use, as it does not keep long. If the old ripe onions of this variety are set out in the spring, the old onion will run up to seed and the bottom disappear; but one or more new onions will grow from it, and quite a crop can be produced in this way with very little trouble.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 30c; lb., \$1.00.

WHITE GLOBE.

A handsome white, globe shaped variety; flesh fine, very white, rich and sweet. It is also one of the best keepers of the silver skinned kinds.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

EL PASO, OR LARGE MEXICAN.

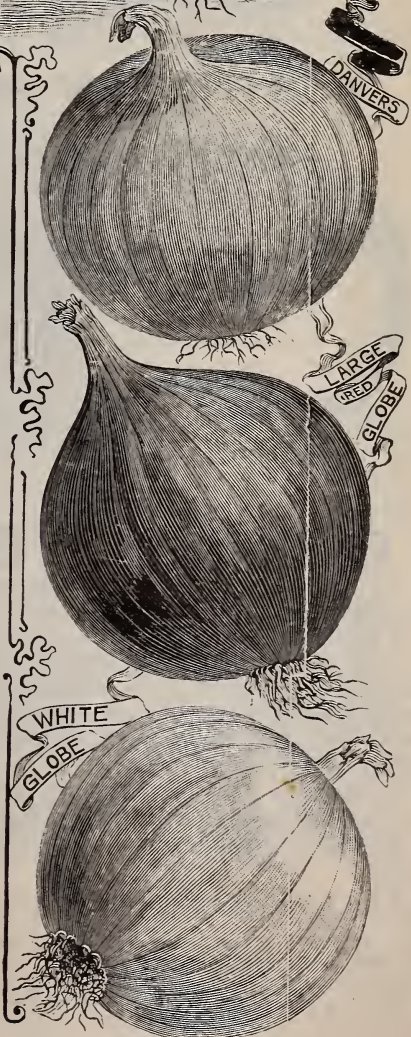
One of the largest onions grown, frequently attaining a weight of three pounds or more. Color mostly white, but sometimes tinged with yellow and red. Flesh rather coarse, but of excellent flavor, mild, rich and sweet. Very popular in Mexico, where it is the leading variety grown.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 65c; lb., \$2.00.

WHITE PORTUGAL, OR SILVER SKIN.

A large flat kind. The best keeper of the large varieties; flesh mild and sweet. Good for fall and early use.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.



ONIONS—Continued.

OUR PRIZE STRAIN

Of ONION SEED is pronounced by our many market gardeners and onion growers to be THE BEST they ever planted. We take the greatest care in the selection of our seed bulbs, only the true, uniform and best keepers are saved, which, with the proper care, produce seeds that have GREAT GERMINATING POWER, and pay handsome returns.

Beware of cheap and inferior onion seed offered at low prices.

EXTRA EARLY RED FLAT.

Deep red in color; resembles the Red Wethersfield, except that it is much earlier, and somewhat smaller; desirable for early market.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.15.

YELLOW DANVERS.

A standard variety. Flesh fine grained, mild, rich and sweet. Good keepers and very productive.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 30c; 1b., \$1.00.

YELLOW DUTCH, OR STRASBURG.

One of the old varieties. Flat; flesh white, fine grained, mild and well flavored.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.10.

SOUTHPORT RED GLOBE.

Medium size, globular, with small neck; deep red; extra quality; a deserving favorite.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 40c; 1b., \$1.25.

QUEEN.

White, handsome, and a good keeper. If sown thick, produces small, very firm bulbs, the best of all for pickling; if given more room matures an excellent onion that will keep all winter.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; 1b., \$2.25.

GIANT ROCCA.

Light yellow, of immense size and globular form. It is of rapid growth, and yields enormously; flesh mild and sweet.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; 1b., \$1.75.

GIANT WHITE ITALIAN TRIPOLI.

Flat, pure white, mild and of good flavor.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; 1b., \$2.00.

GIANT RED ITALIAN TRIPOLI.

Similar to the last in shape and size, and differs from it only in color, which is a moderately deep red.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; 1b., \$1.50.

MAMMOTH SILVER KING.

An immense white onion of mild flavor, very thick through, but inclined to be flat rather than globe shaped.

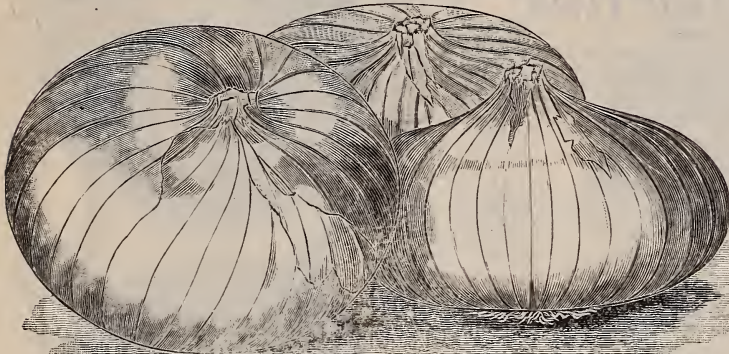
Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; 1b., \$2.00.

SOUTHPORT YELLOW GLOBE.

A large globe shaped kind. An excellent keeper and shipper. Skin brownish yellow; flesh fine, mild and sweet.

Pkt., 5c; oz., 15c; 2 oz., 20c; ¼ lb., 35c; 1b., \$1.15.

AUSTRALIAN BROWN, THE NEW LONG KEEPER.



AUSTRALIAN BROWN, TWO-THIRDS ACTUAL SIZE.

This new onion, introduced into the United States a few years since, has met with wonderful success, and is pronounced the best keeper of all onions. The shape and size are well shown in our cut alongside. The outside skin is of a deep amber brown, distinct from all other onions, extremely hard and firm, of fine flavor and will keep almost indefinitely. We offer choice American-grown seed from the original importation.

Pkt., 5c; oz., 25c; 2 oz., 35c; ¼ lb., 60c; 1b., \$1.75.

OREGON YELLOW DANVERS.

Originated in the State of Oregon.

This is the variety planted almost entirely in the Northwest, particularly in Oregon.

They are A HANDSOME, LARGE, YELLOW, ROUND and SLIGHTLY FLATTENED ONION, VERY RICH and SWEET, rather mild, and FINE GRAINED. One of the BEST KEEPERS AND SHIPPERS.

OUR SEED OF THIS VARIETY IS GROWN IN OREGON and is UNSURPASSED.

Pkt., 5c; oz., 25c; 2 oz., 35c; ¼-lb., 60c; 1-lb., \$1.75.



OREGON YELLOW DANVERS.

If you buy Onion Seed in larger quantities, write for Special Prices.



BOTTOM ONION SETS.

Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown direct from the seed. Yellow sets are most in demand, but Red and White are used to some extent. Sow forty to sixty pounds of black seed to the acre, to raise sets.

By mail, per lb., 30c.

TOP ONIONS.



TOP ONIONS.

These are produced in clusters on the tops of the stalks instead of seed, and are separated and planted like onion sets; to be used on the table when green, or left to grow into a large ripe onion; color of the full grown onion light red. To obtain mature, full sized onions, plant top onions, and to obtain top onions, plant those that are mature. Useful for a small early crop, but not recommended for the main crop.

By mail, per lb., 30c.

SHALLOTS.

Valuable for bunching or an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium-size bulbs. Light brown skin; mild, white flesh. It is the earliest, most vigorous in growth, and easiest to cultivate of all onions from sets.

Price per lb., by mail, 30c.

IF SETS ARE WANTED IN LARGER QUANTITIES, WRITE FOR SPECIAL PRICES.

Try our **COMMERCIAL FERTILIZER** on your garden. It's a great saver of time, labor and money, as it contains no weed seed, like barnyard manure. See page 77.

OKRA, or GUMBO

Extensively grown in the Southern States and California, where it may always be seen in the markets, either green or dried. Its peculiarly ribbed seed pods are much used in soups, and may be stewed and served as Asparagus. It is of easy cultivation, bearing well in any good soil. Sow thinly in shallow drills two feet apart, thinning to 10 inches apart in the row. The pods should be gathered when about three inches long, and can be used fresh, or sliced and dried as apples, for winter use.



OKRA.

DWARF.

Best for general crop. The plant is dwarf, but the pods are as long as the larger growing kinds, and are produced much more abundantly.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

WHITE VELVET.

A new, handsome and very productive variety. The pods are smooth, or very slightly ribbed, large, remain tender a long time, and are of the best quality.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

PARSLEY.

Parsley is very generally used for garnishing, and seasoning soups and stews. It can be used fresh from the garden, or dried and rubbed into a fine powder, when it can be bottled for winter use. It becomes finer and more beautifully curled if cut frequently. As the seed germinates slowly, it should be soaked a few hours in warm water, and sown in drills a foot apart, and half an inch deep, as early in spring as possible. Thin to three or four inches apart. Thrives best in deep, rich soil.



TRIPLE CURLED PARSLEY.

MOSS CURLED, OR FERN LEAVED.

A beautiful fern or moss-like variety. Fine for garnishing.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

FINE TRIPLE CURLED.

Grows compact and is very curled and finely cut. Of a bright green color. The favorite variety.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 65c.

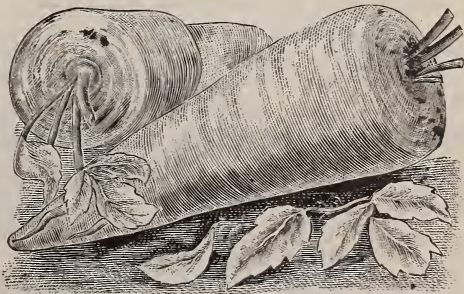
TURNIP ROOTED, OR HAMBURG.

The edible portion is the fleshy root, which resembles a small parsnip, and is highly esteemed for flavoring soups, stews, etc.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

PARSNIP.

The Parsnip is nutritious and wholesome, with a sugary sweetness peculiar to itself, and is superior both for the table, and for stock feeding. It yields a large crop, and is said to be more valuable for dairy cows than either the carrot or turnip. As the seed germinates very slowly, sow as early in spring as possible, in drills fifteen inches apart, on deeply cultivated, rich, loamy soil. Keep clear of weeds, and thin to three or four inches apart. The roots are improved by freezing.



HOLLOW CROWN.

LONG DUTCH SUGAR.

A fine flavored, standard variety. Long, large roots. Sweet and sugary.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

HOLLOW CROWN.

Fine, smooth roots. The best for general use. Productive and excellent.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

PEAS.

Our Garden Peas

ARE NORTHERN GROWN from selected seed, are true to name, have been carefully HAND PICKED and are fit for gardeners' use at once. We ask our customers not to confound them with the common peas usually found in the market at a low price, which are only fit for field use, or for feeding stock. Our list includes the BEST KINDS, and is sufficiently varied to meet the wants of all.

If ordering by mail, add 10c per pound for postage.



AMERICAN WONDER.

One of the earliest sweet wrinkled kinds in cultivation; constantly coming into more general use. It is a wonderfully productive dwarf variety, the pods being large and well filled. The pea is rather above the average in size, and very sweet and delicious. Height nine inches. Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

FIRST AND BEST.

Unsurpassed for early and even ripening. One of the best for market gardeners, as the whole crop ripens within a few days, so that the ground may be cleared and another crop planted. About forty-five days is the average from planting until the whole crop is ready for market.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

EARLIEST OF ALL, OR ALASKA.

Earliest and best of all the blue, smooth varieties, coming into pod as soon as the Extra Early. Height two to two and a half feet. A great favorite with our market gardeners for fall and early spring planting.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

BLUE PETER, OR BLUE TOM THUMB.

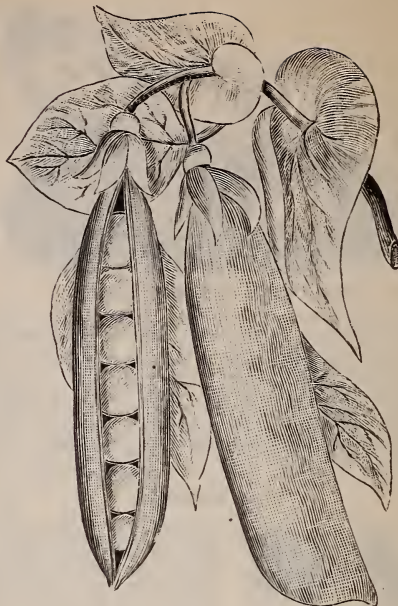
Grows about nine inches high; extremely early; pods good length and well filled; the ripe peas are blue, smooth, round, fair size.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

McLEAN'S ADVANCER.

A green wrinkled sort, bearing fine, broad pods. Comes in next after the Gem. Popular market kind and used extensively by canners. Height two and a half feet.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.



NOTT'S EXCELSIOR.

NOTT'S EXCELSIOR.

One of the best Extra Early sweet wrinkled kinds. Resembles the American Wonder, but the plants are larger and more vigorous; quite distinct from that of the Premium Gem.

Pkt., 10c., lb., 20c; 10 lbs., \$1.50.

PREMIUM GEM.

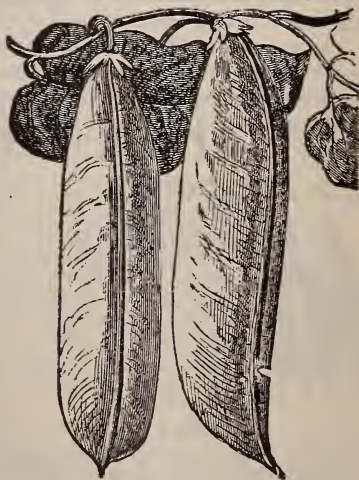
One of the earliest dwarf, green, wrinkled varieties. Prolific and of fine quality. Similar to the Little Gem.

Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

GRADUS.

This valuable creation fills a place not heretofore occupied by any kind of Peas, especially for the home garden. It is extra early, producing immense pods that are filled with large sweet wrinkled, dark green Peas of finest quality. Every family and gardener should try it.

Pkt., 15c; lb., 30c; 10 lbs., \$2.50.



McLEAN'S LITTLE GEM.

A sweet, wrinkled Pea, coming in a little later than the American Wonder; grows taller, and continues in bearing longer. The quality of the pea is very superior. Height fifteen inches.

Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

Gardeners who want peas in large quantities will get special prices on request.

Telephone.

Immensely productive, of the finest quality, and excellent, sugary flavor; vines very strong, the pods are of large size, filled with large delicious peas; height 4 feet.

Pkt., 10c; lb., 15c; 10 lbs., \$1.40.

We pay postage on Peas only in 10c packets. If ordering by mail in larger quantities, add 10c per pound for postage.

Champion of England.

The leading sweet wrinkled pea. Vines large, luxuriant and very prolific. For either family use or the market garden it has no superior; five feet.

Pkt., 10; lb., 15c; 10 lbs., \$1.25.

LARGE WHITE MARROWFAT.

Of vigorous growth; pods long, and well filled with large, smooth peas; four feet.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

BLACK EYED MARROWFAT.

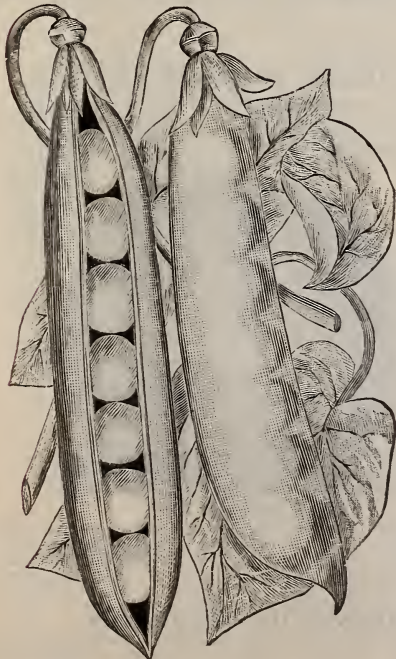
Similar to the White Marrowfat, but the vine is smaller, and the pea has a black eye. Yields heavily; three feet.

Pkt., 10c; lb., 15c; 10 lbs., \$1.00.

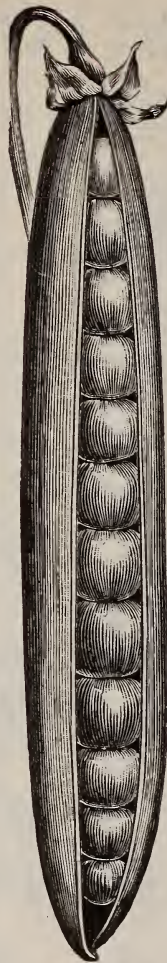
Improved Stratagem.

A sweet, wrinkled variety, introduced from England. Vines not large, but of vigorous growth, producing a heavy crop; beautiful, long pods, well filled with large peas of good quality; two feet. A paying kind for the market gardener to plant.

Pkt., 10c; lb., 20c; 10 lbs., \$1.50.



IMPROVED STRATAGEM.



TELEPHONE.



Yorkshire Hero.

One of the largest sweet wrinkled kinds; vines strong and spreading; pods of good size and well filled; much in use, and has enjoyed a long popularity; medium late; bears a long time; height two and a half feet.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

A PLANET JR. Seed Drill will be a great help to you in planting Peas. Makes straight rows, and saves seed. See pages 66-67..

Everbearing.

Large sweet wrinkled; medium early; large pods; cooks quickly; perhaps not quite as sugary as some others, but very desirable. Height 1½ to 2 feet.

Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

Other Good Varieties.

	Pkg.	lb.	10 lbs.
Horsford's Market Garden—Vines medium height, very prolific; peas medium size, dark green, fine flavored.....	10c	15c	\$1.25
Abundance—Medium early; very sweet and wrinkled; peas fair size.....	10c	15c	\$1.25
Pride of the Market—Large peas of fine flavor, borne in large, handsome dark green pods.....	10c	15c	\$1.25
Heroine—Extremely productive; medium height; large, well filled pods, of large wrinkled, very sweet peas. Quality superior in all respects.....	10c	20c	\$1.50

Melting Sugar.

The kind that have sweet, brittle pods, and are used the same way as snap or string beans.

This is the most popular of the edible podded kinds. The pods are large, straight, very tender and fine flavored. Vines medium height.

Pkt., 10c; lb., 25c; 10 lbs., \$2.00.

GIANT SUGAR (Gray Seeded.)

Taller and larger than the above kind.

Pkt., 10c; lb., 25c; 10 lbs., \$2.00.

For Field Peas, see page 56.

PEPPER.

Sow the seeds early in hotbeds, or later, when the weather becomes warm, in open beds; when two or three inches high, transplant to a warm, mellow soil, in rows eighteen inches apart and a foot apart in the row. Guano and hen manure are excellent fertilizers, and will greatly increase the yield.

RUBY KING.

An improved American sort, reaching the largest size, yet retaining the symmetrical shape of the smaller sorts. It is very bright colored, beautiful, sweet and mild flavored.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.50.

LARGE BELL, OR BULL NOSE.

A large, mild, thick fleshed variety. One of the best for stuffed pickles.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.



LARGE BELL OR BULL NOSE.



CHILI.

CHILI.

Produces small, pointed pods, that are a brilliant scarlet, and very pungent when ripe. Used largely in the manufacture of pepper sauce.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.25.



LONG RED CAYENNE.

Brilliant coral red pods, three or four inches long, and a prolific bearer. Very pungent, and used very largely with pickles when green.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.25.

LARGE SQUASH, OR TOMATO SHAPED.

Pods short, thick and ribbed at the point. They are very productive; fleshy and mild, and excellent for pickling.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.25.

SWEET SPANISH, OR MOUNTAIN.

Similar to the Large Bell, but usually larger. Excellent for pickling and stuffing.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.25.

RED CHERRY.

The pods are small, round, glossy scarlet, and very handsome when ripe. Excellent for mixing with pickles.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

PUMPKINS.

Care should be taken to keep the different varieties apart, and also to keep them well separated from other vining plants, as they readily amalgamate and deteriorate.

SUGAR, OR PIE.

This we recommend as one of the best pie pumpkins; an excellent keeper and enormously productive. It is very finely netted and in color it is a golden russet. Flesh fine grained, very sweet, thick and rich. Medium size.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.



SUGAR, OR PIE PUMPKIN.

LARGE SWEET CHEESE.

Large, flat, dishing at the ends; flesh very thick, sweet and nutritious. More nearly related to the Squash than the Large Yellow. Fine for the table.

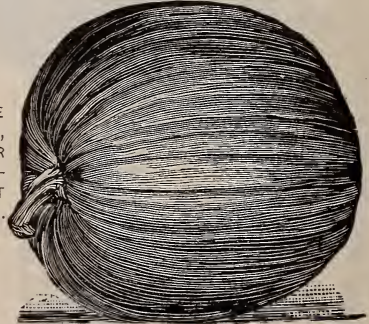
Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

LARGE YELLOW, OR CONNECTICUT FIELD.

A large, round variety, sometimes depressed at the ends; rind of a deep, glossy yellow. Vines vigorous and very productive. If protected, will keep well till midwinter.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 35c.

LARGE YELLOW, OR CONNECTICUT FIELD.



MAMMOTH.

The largest known, often weighing over one hundred pounds. Oval round, deep orange, slightly mottled, flesh not thick, but on account of its enormous size yields a very large amount of feed per acre. Also used for the table.

Pkt., 5c; oz., 10c; 2 oz., 20c; ¼ lb., 30c; lb., \$1.00.

CUSHAW, OR CROCKNECK.

A large, productive kind, having a solid neck, resembling the Winter Crockneck Squash. Fleshy and excellent.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

RADISH.

They should be sown for early use as soon as the ground can be well prepared, and for succession, at intervals of two or three weeks throughout the season, in rich, loose, warm soil, as the quality depends largely on its rapid growth.

Our RADISH SEEDS produce a QUICK CROP of SMOOTH, CRISP and TENDER roots, UNSURPASSED.

Early Olive Shaped, or Half Long Searlet.

An excellent variety, of rapid growth, skin thin, flesh rose tinted and very tender; two or three inches long, with slender taproot.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

EARLY WHITE TURNIP ROOTED.

The best white turnip shaped variety; pure white, small top, mild and crisp. Ready for the table in six weeks after planting.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

EARLY DEEP SCARLET HALF LONG.

A handsome variety, somewhat resembling the Olive Shaped, but of a deeper scarlet, and having a smaller top. Flesh tender and of the best quality; good for forcing.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 55c.

EARLY LONG SCARLET.

The leading variety either for the family or market garden. From six to eight inches long, standing partly above ground; bright scarlet, smooth, crisp, tender, and mild.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

Long, Brightest Searlet, White Tipped.

This is the brightest and handsomest colored scarlet radish known, and a decided improvement in earliness and color over other varieties of this class. The lower one-third of the root is snow white; very attractive. It is extra early, and the flesh is very tender. Valuable for forcing or open ground.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 65c.



LONG, BRIGHTEST SCARLET, WHITE TIPPED.

FRENCH BREAKFAST, OR HALF LONG WHITE TIPPED.

Medium size, of quick growth, crisp and tender; terminates more abruptly than the Half Long Searlet; lower end and taproot white.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.



EARLY SCARLET TURNIP, WHITE TIPPED.

Early Searlet Turnip, White Tipped.

The favorite variety for outdoor cultivation. Medium size, uniform shape, color bright scarlet, sharply contrasting with white tip, which makes it most attractive. It grows quickly. Flesh white, crisp and of the best quality.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

EARLY ROUND DEEP SCARLET.

A handsome early kind. Deep scarlet, smooth, crisp and highly flavored. One of the best for forcing.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.



EARLY SCARLET TURNIP ROOTED.

Early Searlet Turnip Rooted.

The leading turnip shaped kind. Deep scarlet, small taproot; very crisp and tender. Of rapid growth, and if sown with others, the first ready for the table. Good for forcing.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

Long White Vienna, or Lady Finger.

The best long white radish grown; pure white, long, tender and sweet; a favorite also for its beauty of form and rapid growth.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

WHITE STRASBURG.

One of the best of the large summer sorts; it covers a long season, as it is good when quite small. The roots are long, very white, crisp and tender.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

Improved Chartier.

Roots long, tapering rather abruptly and attaining a very large size. Of rapid growth, it is soon ready for the table, remaining crisp and tender till fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

RADISHES—Continued.**WINTER RADISHES.****ROUND BLACK SPANISH.**

Roots round or top shaped; skin black; flesh very white, fine grained, and highly flavored. An excellent sort for winter, as the roots keep a long time.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

LONG BLACK SPANISH.

Very hardy, and good for winter use. If stored in sand will keep good all winter. The roots, which present a rusty black appearance, are large, firm and not liable to become pithy.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 55c.

Mammoth California, or White China.

Extensively grown by the Chinese, who introduced it into California. Very large and cylindrical, terminating abruptly, with little taproot; mild and tender, and keeps well all winter. The skin and flesh are of a transparent white.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 65c.

SCARLET CHINA.

A half long variety, largest near the taproot; skin bright scarlet, flesh firm and more pungent than most others. It is easily kept all winter.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 65c.

RAPE.

DWARF ESSEX, SEE PAGE 57.

SPINACH.

A wholesome, palatable, hardy vegetable, much used for greens. It is easily grown, and may be had during the entire season. It will grow in almost any soil, but is more tender and succulent when grown in soil heavily manured and well pulverized. For a summer crop, sow early, in drills a foot apart, and thin gradually to six inches apart. For early spring use, sow in the fall, and protect in cold climates with a covering of straw. It should be cut back, using only the young leaves, the old ones are tough and stringy.



SPINACH.

Round Summer.

An excellent variety for early spring sowing. The leaves are round, thick and fleshy. Good for early market gardening.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 35c.

Improved Thick Leaved.

The leaves of this variety are unusually thick, fleshy and tender. It is also hardy, and may be sown as soon as the ground can be thoroughly prepared.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 40c.

SAVOY LEAVED.

A very early variety, of upright growth and pointed leaves, which are crinkled, like Savoy Cabbage. Grows quickly and seeds early. Plant in autumn for early spring use.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 40c.

VICTORIA.

This variety produces the largest leaves of any, yielding an enormous crop. Excellent for the family or market garden.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 40c.

LONG STANDING.

An improved variety, having thick leaves that remain tender longer than any other, and on this account one of the best for market gardeners.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 40c.

LARGE PRICKLY SEEDED.

The hardiest kind, and may be sown in the fall, only requiring protection during the most severe frosts. The seed is prickly, the leaves rather long and pointed, but thick and succulent. Second early.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 35c.

RHUBARB, OR PIE PLANT.

RHUBARB.

Rhubarb is extensively raised near all large cities, and should be more generally grown, as it is ready for use before most kinds of fruit are in the market. Its culture is very simple, and it yields every spring an abundance of leaf stalks, which are delicious when made into pies, tarts and sauce. Sow in drills 18 inches apart, and thin the plants to six inches. In the fall, trench or subsoil a piece of ground, manure very heavily, and transplant the young roots into it, three feet apart each way. Give a heavy dressing of manure annually, and cut off the seed stalks as they appear, to prevent the plants from exhausting themselves by running to seed. The seed cannot be relied on to produce the same variety.

GIANT, VICTORIA, OR MAMMOTH.

All very much alike, good producers, good quality.

Pkt., 5c; oz., 10c; ¼ lb., 40c; lb., \$1.25.

LINNAEUS.

An early large, tender kind.

Pkt., 5c; oz., 10c; ¼ lb., 40c; lb., \$1.25.

For roots of the above kind, see page 64.

Salsify, or Vegetable Oyster.

SALSIFY.

Salsify is a nutritious and wholesome vegetable, having the appearance of a small parsnip; in flavor closely resembling oysters, for which it is, in that respect, a good substitute. It is rapidly coming into more general use. Sow early in spring in drills a foot apart, and when two or three inches high thin out to three or four inches. Its general culture is the same as that recommended for carrots. The roots are perfectly hardy and may remain in the ground during winter, or may be stored in dry earth or sand.

Mammoth Sandwich Island.

The leading variety; produces a large crop of straight, smooth roots.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.35.

LARGE WHITE.

An early kind; tender and excellent.

Pkt., 5c; oz., 10c; 2 oz., 20c; ¼ lb., 30c; lb., \$1.00.

SQUASH—SUMMER VARIETIES.

Squashes are extensively grown, and embrace many distinct varieties. Their easy cultivation, enormous yield and nutritious qualities render the larger kinds one of the best and most profitable crops for stock feeding. The summer varieties are ready for the table early in the season, while the winter sorts can be kept until the early kinds are again in the market. All kinds thrive best in loose, rich soil, under the same treatment as that recommended for melons. The seed should not be planted till danger of frost is past, and the ground is warm. Plant the summer varieties four feet apart each way, and the winter kinds eight feet.



EARLY WHITE BUSH SCALLOP.

EARLY WHITE BUSH SCALLOP.

The leading early Bush Scallop variety; round, flat, with scalloped edges. The skin is white; the flesh is of excellent quality, and ready for use as soon as it is large enough.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 55c.

Mammoth White Bush Scallop.

An improvement on the preceding in point of size, being twelve to fifteen inches across; very productive, and uniform in growth.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

SUMMER CROOKNECK.

An early prolific kind, having a solid, curved neck; the skin is yellow, thin, hard, and very warty; flesh tender and of good quality.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.



SUMMER CROOKNECK.

Mammoth Summer Crookneck.

Twice the size of the ordinary Summer Crookneck; also earlier and more warty; a decided advance on the old kind.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 70c.

PERFECT GEM.

A variety coming into bearing later than the early summer kinds; rather small, round, slightly ribbed; flesh pale yellow; dry when cooked; rich and sweet. A prolific bearer.

Pkt., 5c; oz., 10c; 2 oz., 20c; ¼ lb., 25c; lb., 70c.

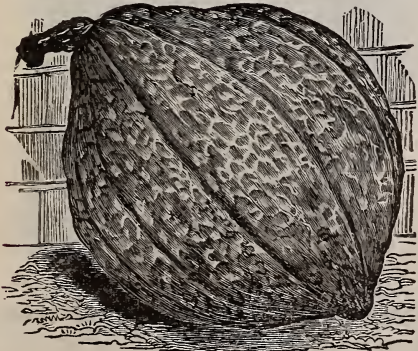
SUGAR CANE or Sorghum. See Page 57.

Winter Squashes.

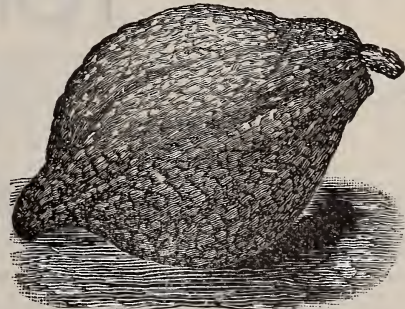
HUBBARD.

THE BEST SELLER AND MOST POPULAR VARIETY IN OUR LIST. RIND DARK GREEN, WARTY and VERY HARD. Flesh light orange, very dry, sweet and rich flavored. Has no superior for winter use, as it keeps perfectly through the winter.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 35c; lb., \$1.25.



BOSTON MARROW.



HUBBARD.

GOLDEN HUBBARD.

The same in size, shape and quality as the well known Hubbard Squash, except that it is of a bright red or golden color, and somewhat earlier. It is also a long keeper. Considered by expert judges to be one of the very best fall and winter sorts yet introduced.

MATURES BEFORE THE FROSTS, IS VIGOROUS and WONDERFULLY PRODUCTIVE.

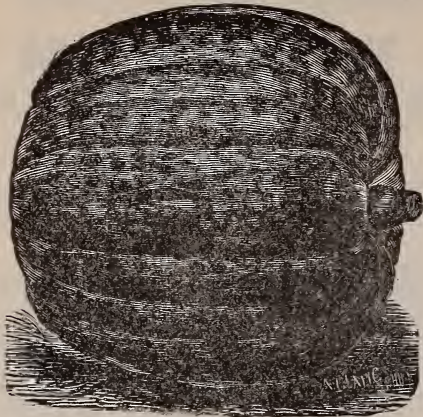
IN FLAVOR IT HAS NO EQUAL.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 35c; lb., \$1.25.

BOSTON, OR VEGETABLE MARROW.

A leading variety, ripening early in the fall, but keeping well through the winter; oval round; mottled dark and light yellow; flesh salmon colored, remarkable for its rich, sweet flavor.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

SQUASH—Continued.

MAMMOTH CHILI.

MAMMOTH CHILI.

The largest variety grown, having attained a weight of over two hundred pounds. Round, flattened at the ends; rind deep orange; flesh dark yellow, thick and very nutritious. Sometimes used for the table, but more desirable for stock feeding. It is a good keeper.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 30c; lb., 80c.

AMERICAN TURBAN, OR ESSEX HYBRID.

A medium sized variety; rind dark orange colored; flesh deep yellow, thick, fine grained, rich and sweet. It can be kept without difficulty till late in the season.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

FIELD MARROW.

A mixture of marrow varieties to be planted for feeding dairy cows and other stock. Yields a large crop.

Pkt., 5c; 2 oz., 10c; ¼ lb., 15c; lb., 35c.

EARLY PROLIFIC MARROW.

A new fall and winter variety, ripening two weeks earlier than the Vegetable Marrow, which it resembles in shape, being only a little smaller, and keeping quite as well. It is surprisingly fruitful, yielding nearly twice the quantity of any other winter squash. Mottled deep orange and cream color; flesh dark yellow, thick, fine grained, dry and sweet. Superior for family use or the market garden.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

SIBLEY, OR PIKE'S PEAK.

Said to be a great improvement on the Hubbard. The shell is pale green in color, very hard and flinty, but at the same time so very thin and smooth as to occasion the least possible waste in baking. The flesh is solid and thick, and a brilliant orange yellow color, dry, and has a rich, delicate flavor peculiarly its own. Productive and a good keeper.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 65c.

TOBACCO.

It was at first thought that Tobacco could only be successfully grown in a semi-tropical climate, but the experience of late years has abundantly established the fact that the size of the plants, which diminish in cooler climates, can be compensated for in the increased number of plants to the acre, and that the quality is even superior to that raised in the South. It requires a rich, mellow soil, thoroughly pulverized, and, when possible, enriched with ashes. Sow the seed thinly in beds, as early as they can well be prepared, transplanting when six inches high to rows four feet apart each way. Cultivate thoroughly.

CONNECTICUT SEED LEAF.

Hardy, and the best adapted to cool localities, and for general use.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

HAVANA.

Of fine texture and delicate flavor. Celebrated for its value in the manufacture of fine cigars.

Pkt., 5c; oz., 35c; 2 oz., 65c; ¼ lb., \$1.25; lb., \$4.00.

For Tobacco Plants see Price List, page 64.

TOMATO.

Marked improvement has recently been made in the Tomato. Its value as a table vegetable can hardly be overestimated. Its healthfulness during the heat of summer, and especially for bilious temperaments, is well known, and a diet composed largely of Tomatoes, both raw and cooked, is a powerful aid in warding off the effects of malaria. The first step toward success, after obtaining good seed, is to produce strong, healthy plants. For early crop, sow as soon as desired in hotbeds. When danger of frost is past, transplant to rich, loose soil, keeping well watered and cultivated. For later crop, sow in cold frames or open ground, and transplant when four to six inches high. If possible, support the vines.

Parties not wishing to bother with raising their own Tomato Plants can order any of the leading varieties of us, when they send in their seed order, and we will mail or express them in the right season. We take great pride in our Tomato Plants and produce the STRONGEST and HEALTHIEST plants on the market.

For prices see Price List, page 64.

LIVINGSTON'S BEAUTY.

A distinct variety, uniformly large; color deep crimson, inclining to purple. The vines, which are vigorous, continue to bear large, handsome fruit till the close of the season. It has but few seeds, and its handsomely grained flesh is of superior quality. It has few equals, either for the family or market garden.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

EARLY MICHIGAN.

An extremely smooth, perfectly shaped tomato; solid and without core. Vine large and vigorous. A heavy cropper and one of the earliest. The favorite early kind with our market gardeners.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.



EARLY MICHIGAN.

DWARF CHAMPION, OR TREE TOMATO.

Plant dwarf and compact; fruit medium size; rich, glossy red; smooth and solid. Fine for private gardens.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

TOMATOES—Continued.



ATLANTIC PRIZE.

Atlantic Prize, Extra Early.

A distinctly early variety, of good size and smooth surface. Many of the objections to the usual early kinds such as under size, deep corrugations and rough skin are overcome in the Atlantic Prize.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

Dwarf Aristocrat.

Vines erect and vigorous; fruit of medium size, round, smooth, of excellent quality, very fleshy, approaching purple in color. About as early as any of the purple fruited tomatoes, and very popular on account of its compact and stocky growth. Excellent for family garden.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.



DWARF ARISTOCRAT, OR TREE TOMATO.

 * NITRATE OF SODA, used at the rate of *
 * 50 lbs. per acre, as a top dressing on To- *
 * matoes, will pay well. *

NEW STONE.

A large tomato of good quality; round or apple shaped, and very uniform; deep red in color and exceedingly heavy.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

ACME.

Early and popular. The fruit is smooth, handsome, solid and of good quality. A good bearer. Color dark purplish red.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

Livingston's Favorite.

One of the best for general crop; vines vigorous, continuing in bearing all the season; fruit very large, uniformly smooth, firm, without hard core; ripens medium early; holds its size well till frost. Is very fleshy, with few seeds.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.



FAVORITE.

LIVINGSTON'S PERFECTION.

One of the best medium early kinds; round, uniformly smooth; vines very productive; fruit deep scarlet, firm, and of excellent quality. Vines continue long in bearing.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

TROPHY (Selected Stock).

We offer selected stock of this well known, popular variety. It ripens just after the Perfection; vines vigorous, continuing in bearing till frost; fruit large, bright scarlet, firm, and of the best quality, either fresh for table use or for canning.

Pkt., 5c; oz., 20c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.50.

OPTIMUS.

A second early kind; uniform in size; color bright red; smooth and handsome. Our stock is the very best.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

HUSK TOMATO, OR GROUND CHERRY.

This is liked by many for preserves and for eating from the hand. The seed we offer is that of the true Yellow Ground Cherry, and not the purple fruited sort, which is scarcely edible.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.50.

IGNOTUM.

A good large, smooth kind; of fine flavor and very productive.

Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.

RED PEAR SHAPED, YELLOW PLUM, AND RED CHERRY.

Small handsome tomatoes, resembling the different fruits named; used for pickles, preserves, and ornamentation. Seed sold separate or mixed.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$3.50.

Golden Queen.

Very handsome when prepared for the table; flesh rich and of superior quality. The best of the yellow kinds.

Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.25.

TURNIP.

Early White Flat Dutch, Strap Leaved.

A leading white fleshed variety, and one of the best, either for the family, market garden or field crop. It is medium size, and produces a large crop. The flesh is firm, but tender, and of a superior, rich, buttery flavor. A good keeper.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.



EARLY WHITE FLAT DUTCH, STRAP LEAVED.

WHITE EGG.

An oval or egg shaped variety, growing much above ground. It is pure white, smooth and handsome; flesh tender and excellent. It is of rapid growth, and recommended for early fall planting.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

POMERANEAN WHITE GLOBE.

A pure white smooth skinned Turnip, growing in good soil to a very large size; almost perfect globe shaped; good for stock or table.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

EXTRA EARLY PURPLE TOP MILAN.

This variety is ready for the table sooner after planting than any other yet introduced. Top small, erect, strap leaved, bulb a deep purple above, white underneath; flesh white, firm, and delicate. Remains tender and in condition for the table a long time.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

WHITE MILAN.

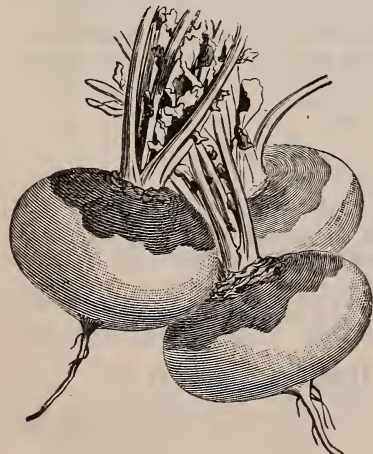
Same as above but pure white.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 25c; lb., 75c.

Yellow Aberdeen.

Round, medium size, light yellow; stained with purple on top. Produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.



PURPLE TOP YELLOW ABERDEEN.

Cow Horn or Long White.

A distinct variety, having a long, slightly curved root, somewhat resembling a carrot. It is white, with a green tint near the top, growing partly above ground. Flesh tender, sweet, and of fine quality. Can be sown early for fall and winter use.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

PURPLE TOP WHITE GLOBE.

A large, globe shaped variety; purple above ground. It is handsome and of excellent quality, and recommended both for the family garden and field crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

SEVEN TOP.

A variety cultivated for its large tops, which are excellent for greens. Much used in the South.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

LARGE WHITE NORFOLK.

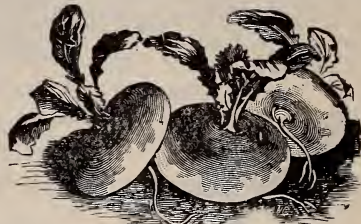
A round, white variety, usually attaining a very large size. Extensively grown for stock feeding. The leaves are also used for greens. It is hardy, and may remain in the ground all winter. Yields a very large crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 45c.

Early Purple Top, Strap Leaved.

One of the best and most universally grown. Small, erect top, round, flat; purplish red above, white underneath; flesh firm, but very tender and sweet. Of quick growth it is soon ready for the table, and keeps well.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.



EARLY PURPLE TOP, STRAP LEAVED.

ORANGE JELLY, OR ROBERTSON'S GOLDEN BALL.

One of the best yellow fleshed kinds; not large; rather globe shaped; flesh fine grained, firm, sweet and of superior flavor. Keeps well all winter.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

YELLOW, OR AMBER GLOBE.

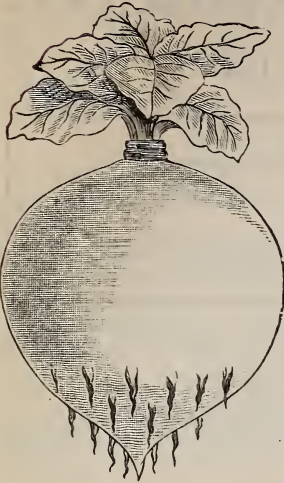
Large, rather globe shaped; yellow, tinted with green on top, flesh sweet and of good quality. It is hardy; produces a large crop, and keeps well. Good, both for the table and field crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.



YELLOW, OR AMBER GLOBE.

RUTA BAGA, OR SWEDES.



Ruta Bagas are a larger and coarser in flesh than Turnips, but yield more weight per acre, and are richer and more nutritious, and for these reasons preferred for stock feeding, for which they are very profitable. They are also used on the table. They yield best in a rich, strong soil.

PURPLE-TOP SWEDE, or YELLOW RUTA BAGA.

A large variety, growing much above ground; is hardy, and should be sown as early as the ground can be prepared; ashy purple on top, yellow underneath. A large cropper and good keeper.

YELLOW PURPLE TOP RUTA BAGA.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

CHAMPION PURPLE TOP YELLOW.

An improved variety of the Yellow Purple Top; oval in form; very large, hardy and productive; flesh deep yellow, sweet and nutritious. Keeps well. One of the best.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

SKIRVING'S PURPLE TOP YELLOW.

A variety closely resembling the Champion, grows to a very large size, and is of excellent quality; flesh very firm. Easily kept all winter.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

MONARCH.

This is a tankard shaped sort; color purplish crimson above ground, yellow below. The flesh is of a rich yellow, fine grained and of the best quality. The roots grow much above ground, making them easier to harvest than most globe shaped varieties.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

BANGHOLM YELLOW.

A smooth, handsome, large variety, introduced from England, where it is much prized for its many good qualities. Superior for stock, and, on account of its flesh, better for the table than some others.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

SWEET RUSSIAN, OR WHITE.

The only white fleshed Ruta-Baga in general cultivation; is hardy, easily grown, large, and yields as heavy a crop as the best yellow kinds; flesh fine grained and solid, but tender and well flavored; good for stock, and desirable for the table.

Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c.

HERBS.

SWEET, MEDICINAL AND POT HERBS.

Those marked with a * are perennial, and, when once obtained in the garden, may be preserved for years.

All in packets at 5 cents each.

	Per oz.	¼ lb.	lb.
ANISE. Seeds aromatic.....	\$0.10	\$0.25	\$0.85
BALM. For culinary purposes.....	.25	.65	2.25
SWEET BASIL, (Broad-Leaved)....	.15	.45	1.50
* CARAWAY .....	.10	.25	.80
CATNIP. (Cat Mint) .....	.35	1.00	3.75
CORIANDER. (Aromatic.) .....	.10	.25	.70
DILL .....	.10	.20	.65
* FENNEL. (Sweet.) .....	.10	.25	.75
HYSLOP. Medicinal qualities .....	.25	.75	2.50
* LAVENDER .....	.20	.50	1.75
* SWEET MAJORAM .....	.15	.50	1.50
* ROSEMARY. Aromatic oil.....	.30	.90	3.25
* RUE. Has medicinal qualities.....	.20	.50	1.75
SAGE. Culinary herb; much used....	.20	.45	1.60
SORREL. (Large Leaved.) Cultivat- ed for acidity; used in salads.....	.10	.35	1.10
SUMMER SAVORY. Culinary herb .....	.10	.35	1.10
THYME. (Broad-Leaved.) .....	.30	.85	3.00

Herb Seeds for Flavoring.

ANISE.

Anise Seed for flavoring. ¼ lb., 15c; lb., 40c.

CARAWAY FOR FLAVORING.

We keep constantly on hand a large stock of well preserved seed for the use of Druggists, Bakers and Confectioners.

¼ lb., 15c; lb., 35c; 100 lbs., market price.

CORIANDER.

Coriander Seed for flavoring.

½ lb., 20c; lb., 35c; 100 lbs., market price.

DILL.

Dill Seed for flavoring. ½ lb., 20c; lb., 35c.

Used to flavor soups and stews, and in pickles. The leaves possess similar qualities, and can be used in the same manner as the seeds.

TREE SEEDS.

Apple Seed, American. For nursery stocks.

1 oz., 10c; ¼ lb., 15c; lb., 40c.

Apple Seed, French Crab.

1 oz., 10c; ¼ lb., 20c; 1 lb., 50c

Pear Seed.

(Pyrus Communis.) Imported. The best for nursery stocks. 1 oz., 15c; ¼ lb., 45c; lb., \$1.50.

Cherry Pits, Mazzard.

(Cerasus.) For nursery stocks.

1 oz., 10c; ¼ lb., 15c; lb., 40c.

Cherry Pits, Mahaleb.

1 oz., 10c; ¼ lb., 20c; 1 lb., 50c

Peach Pits.

For nursery stocks.

1 lb., 20c; 100 lbs., \$2.00.

Plum Pits.

(Prunus myrobolano.)

For nursery stocks.

1 oz., 10c; ¼ lb., 20c; lb., 50c.

Quince Seed.

1 oz., 20c; 2 oz., 30c; ¼ lb., 50c; lb., \$1.65.

Horse Chestnut, or Buckeye.

1 lb., 35c

BLACK OR YELLOW LOCUST.

(Robinia pseudacacia.) The Locust, by many years of trial, has been found to adapt itself to the soil and climate of the Pacific Coast with remarkable facility. If the soil be deep, it will flourish in the driest localities without irrigation. It grows rapidly; its wood resists decay equal to that of any known variety, and for general use, and particularly where this quality is required, it is invaluable. It has also great merit as an ornamental and shade tree, on account of its clean, handsome foliage, and pendant clusters of beautiful white flowers of exquisite fragrance.

1 oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 50c

LOCUST HONEY.

1 oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

MONTEREY CYPRESS.

(Cupressus macrocarpa.) The Monterey Cypress has proved itself one of the most useful, handsome and easily grown of all ornamental evergreen trees. Its merits are abundantly established by more than a hundred years of test around the old missions of California. Its branches extend at right angles to the body, with a slight tendency to droop, turning up at the extremity, the general form being conical. It yields readily without injury to its growth to the most severe pruning, and can be trained into hedges of any desired shape, and into many graceful and fantastic forms to suit the taste. It succeeds well without irrigation, on any deep soil, or where it gets the benefit of the moist sea breeze.

Oz., 20c; 2 oz., 30c; ¼ lb., 50c; lb., \$1.50.

Purchaser to pay transportation charges on all quantities above one pound. Write for prices on large quantities.

FLOWER SEED DEPARTMENT.

NEW AND STANDARD VARIETIES.

Annuals bloom and ripen the first year, and then perish.

Biennials do not generally flower the first year, and are in perfection only one year.

Perennials continue to flower several years in succession.

Hardy Annuals, Biennials and Perennials can be sown in the open ground early in the Spring, if desired, and Biennials and Perennials will not require any protection in Winter.

Half Hardy Annuals, Biennials and Perennials should not be sown in open ground until settled warm weather, though they can be sown in the house, if desired, early, and afterwards transplanted. The two latter need to be protected in the Winter, or carried over until Spring in cold frames or greenhouses.

CULTURE.

Flowers usually succeed best in a sandy loam, made rich with well rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

A hotbed or cold frame is very convenient to start

seeds in, as the temperature and moisture can be so regulated as to make their germination and rapid growth more certain. Most seeds do well if sown in boxes in a sunny window in the house.

Plants are usually ready to be transplanted when they have made a growth of two inches.

Many annuals in warm climates, or when taken in, or protected during winter, become perennial, with but short lives however.

All Flower Seeds Sent by Mail on Receipt of the Price Placed Opposite Each Name.

The figures at the right, opposite each variety, denote the price per packet.

ADONIS.

An easily cultivated, hardy annual, sometimes called Pheasant's Eve, having handsome leaves and deep red flowers.

Dark Red Blood..... 5c

AGERATUM.

Fine for bouquets and useful for beds, borders and pot plants. The flowers are graceful tufts of fine petals that remain fresh a long time after being cut. The plant blooms all summer. Half hardy annual; six to 18 inches high.



AGERATUM.

Mexicanum—Light Blue 5c

Tom Thumb—Dwarf Blue. New and beautiful....10c

White—Dwarf10c

Fine Mixed—All colors..... 5c

ALONSOA.

A half hardy annual, producing a profusion of exceedingly brilliant crimson and scarlet flowers. In warm localities it will bloom in open ground all summer, and, if removed indoors, will continue to bloom throughout the winter.

Fine Mixed—All shades 5c

ABRONIA.

Exceedingly pretty trailing plant, producing fragrant, verbena-like flowers, that remain in bloom a long time. All the varieties are very effective in beds, rock work or baskets. The husk should be removed from the seed before planting. Grows freely in any light, rich soil. Half hardy annual.

Arenaria—Very fragrant, yellow, wax-like flowers.10c

Umbellata—Rosy lilac, white center.....10c

Mixed—The above two varieties.....10c

AGROSTIS.

(Ornamental Grass.)

A hardy annual ornamental grass, delicate and graceful; very beautiful and effective when mixed with everlasting flowers in winter bouquets. Fifteen to 18 inches high.

Nebuolsa—One of the most graceful..... 5c

AGROSTEMMA.

Strikingly beautiful for beds, ribbons and borders. Its graceful pink-like flowers remain fresh a long time after being cut, and are very handsome in bouquets. Thrives in any good soil.

Coronaria—Rose Champion. Perennial..... 5c

Coeli Rosa—Rose of Heaven. Annual..... 5c

ACROLINIUM.

(Everlasting Flower.)

Elegant annual everlastings, producing beautiful daisy-like flowers; resembling the Rhodanthe. Fine for winter bouquets. Gather when partially opened, and dry in the shade. Height, 10 to 15 inches.

Mixed—All colors 5c

AMARANTHUS.

Graceful, easily grown, ornamental foliage plants, for the flower garden or conservatory. The colors are brighter if planted in not too rich soil. Half hardy annuals. Very handsome and effective contrasted with other ornamental foliage plants.

Dwarf—Red foliage 5c

Cruentus—Drooping flowers 5c

Caudatus—Erect flowers 5c

Tri-Color—Beautifully variegated, foliage scarlet, yellow and green 5c

ABUTILON.

(Flowering Maple.)

One of the best perennial flowering plants for the greenhouse and conservatory and thrives outdoors in warm climates. The drooping bell-shaped flowers are crimson, yellow and white, or striped and veined with different colors. If sown early will bloom the first season.

Fine Mixed Hybrids—All colors.....25c

AMMOBIUM.

One of the hardiest everlastings. The flowers are not large, but beautiful in form, and pure white; very desirable for winter bouquets. An easily grown annual. 5 cents..

ANAGALLIS.

Hardy perennial, ornamental, trailing plants, blooming all season. Fine for bedding purposes; also very desirable for the conservatory or greenhouse when cultivated in pots or vases.

Fine Mixed—All colors10c

ARGEMONE.

Showy, free flowering border plants, known also as Mexican Poppy, bearing prickly leaves and large, poppy-like flowers. Easily grown. Hardy annuals.

Fine Mixed—All colors 5c

ASPERULA.

A dwarf hardy annual, bearing a profusion of delicate lavender-colored flowers. Fragrant and desirable for bouquets. Fine for borders.....5 cents.

ALYSSUM.

The Alyssums are well known hardy plants of easy cultivation, effective in beds, and especially fine for borders and edgings. The White Sweet Alyssum possesses a delicate, agreeable fragrance and is very popular for bouquets. They are all free bloomers, especially if the flowers are removed before they begin to fade. If taken in or protected they will bloom all winter.

Maritimum—White Sweet, annual 5c

Saxatile—Golden Alyssum, Perennial 5c



SWEET ALYSSUM.

Fine Mixed—All shades 5c

BEGONIA.

Magnificent ornamental greenhouse plants. Some varieties are remarkable for their beautiful foliage, while others are admired for the beauty and profusion of their flowers. Great improvement has lately been made in this family of plants. Those that were considered fine a few years ago are not to be compared with some of the newer varieties. Should be grown in a loose, rich, loamy soil. Begonia seeds are exceedingly small, and most varieties cost more than their weight in gold. They should be planted in pots and treated with the greatest care till well started.

Pearcei—Beautiful foliage; yellow flowers. A fine bedding variety25c

Sedeni—Large, rich carmine flowers, in clusters....25c

Tuberous Rooted—Mixed. Many shades of crimson and pink25c

Rex—Large, beautiful variegated leaves; for culture in pots25c

Mixed—New hybrids, in great variety.....20c

Bellis—See Daisy.

ASTER.

A splendid class of plants which for a late summer and fall blooming annual has no superior, producing a profusion of flowers of a great variety of rich colors and shades, of varied and beautiful form. The late flowers are usually the best, and to sustain the plant it should have rich soil and abundant moisture. Such marked improvement has recently been made in the Aster that the old familiar kinds are hardly recognized.

Truffaut's Peony Flowered Perfection—Full flower, perfect in form. Choice mixed.....10c



ASTER—TRUFFAUT'S PEONY FLOWERED COLLECTION.

New Washington—Extra double, large flowering, vigorous growth, delicate colors. Extra mixed..15c

Dwarf Bouquet—Grows a mass of choice flowers. Fine for beds and borders. Splendid mixed.....10c

Giant Emperor—Very double flowers of immense size. Eight of the best varieties. Mixed.....10c

Dwarf Chrysanthemum—Dwarf, compact habit. Large flowers. Very free blooming. Mixed.....10c

German Quilled—Best mixed. Curious petals. Much improved. 5c

Betteridge's Quilled—Extra mixed.....10c

Snow White—Desirable for bridal or funeral decoration10c

Fine Mixed—Assorted varieties and colors in great variety.10c

BACHELOR'S BUTTON.

(Centaurea Cyanus.)

A hardy annual, easily cultivated. Has recently been greatly improved, and now produces handsome flowers of a great variety of rich colors. Borne on tall, branching stems, with but little foliage. Striking and handsome.

Pink, Blue, White or Choice Mixed..... 5c

BALLOON VINE.

(Cardiospermum—Love-in-a-Puff.)

A climbing annual, having rather inferior flowers, which, however, are followed by curious puffs, or balls, that are quite handsome.....5c.

BALSAM.

(Ladies' Slipper—Touch-Me-Not.)

Exceedingly attractive and handsome plants, growing either in the conservatory or outdoors, and producing masses of various colored flowers. No plant better repays the attention bestowed upon it. The soil should be very rich and free. The plants can be pinched back, so as to form bushes of any desired shape. Hardy annual, easily grown.



DOUBLE BALSAM.

- Double White—**
Extra choice10c
- Camellia Flowered Double—**Finest mixed..... 10c.
- Dwarf—**
Double mixed ...10c
- Rose Flowered—**
Double mixed..... 5c
- Tall Double—**
Mixed 5c

BARTONIA.

Showy annual, bearing brilliant metallic yellow flowers that are large and gaudy. They require abundant moisture, and will not bear transplanting.

Golden Bartonia—Very fine 5c

BROWALLIA.

Handsome free flowering annual. Covered all summer with bright, rich blue and white flowers. Worthy of more general cultivation. Eighteen inches high.

Mixed 5c

CACALIA.

(Tassel Flower.)

The Cacalias, known by some as Flora's Paint Brush, produce scarlet and yellow tassel shaped flowers during a great part of the summer. Hardy annual.

- Aurea—**Scarlet 5c
- Coccinea—**Yellow ... 5c
- Mixed—**All colors ...5c



BRYONOPSIS.

BRYONOPSIS.

An annual ornamental climbing gourd, bearing green fruit, which, as the summer advances, changes in color to bright scarlet, striped with white. Tender annual, of rapid growth and great beauty.....5c

CALLIRHOE.

A charming genus of hardy annual, summer blooming plants. Commences to bloom when only six inches high, and continues to yield a succession of attractive flowers throughout the summer and autumn.

- Pedata—**Dark red 5c
- Nana Compacta—**New. Very dwarf and compact. A profuse bloomer 5c
- Verticillata—**A trailing variety, bearing a profusion of crimson purple flowers..... 5c

CALLIOPSIS, OR COREOPSIS.

A hardy annual, very showy and attractive. It is branching, and produces a mass of bright flowers, all shades of yellow, orange and gold, with a dark velvety center. Sow where it is to remain, and cut the flowers when in full bloom.

Choice Mixed 5c

CAMPANULA.

Exceedingly handsome, showy flowers. Fine for bedding. Hardy annuals and perennials. Colors blue and white.

Best Mixed—All shades 5c

CANDYTUFT.

(Iberus.)

Well known hardy annual, thriving almost anywhere, and producing a profusion of bright, cheerful flowers. Very useful for cut flowers, borders, ribbons, or for conservatory decoration. Great improvement has been made in the colors during the last few years.

- Umbellata—**Purple 5c
- Alba—**White 5c
- Odorata—**Sweet scented...5c
- Kermesina—**Crimson10c
- Tom Thumb —** Mixed. Compact, symmetrical...10c
- New Carmine—**Carmine flowers. Distinct 10c
- Mixed—**All colors 5c



CANDYTUFT.

CANTERBURY BELL.

(Campanula Medium.)

Very ornamental garden plants. Their large bell-shaped flowers are borne on tall, graceful stalks, and are produced freely throughout the summer. Hardy biennials. Very showy and attractive.

- Double and Single—**Blue10c
- Double and Single—**White10c
- Double and Single—**Mixed 5c

CANARY BIRD FLOWER.

(Tropaeolum Canariense.)

One of the best climbing plants, with graceful foliage of a delicate shade of green, and small yellow blossom, which, when half expanded, has a fancied resemblance to a canary bird. Half hardy annual, of rapid growth. **Yellow** 10c

CALANDRINIA.

Pretty dwarf growing plants for massing. Succeed well in a light, rich soil and sunny exposure. They are annuals, but become perennial in warm climates, or if protected.

- Grandiflora—**Rosy lilac 5c
- Speciosa Alba—**Dwarf. Very fine..... 5c

CALLA.

(Lily of the Nile.)

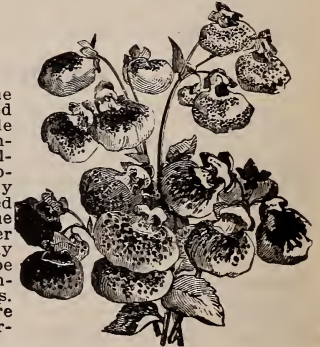
A magnificent perennial, either for the conservatory or garden. It bears large glossy green leaves and majestic creamy white flowers, that remain perfect longer than almost any other flower. Sow the seed early in spring, in rich, warm soil, and pot or plant out the bulbs in the fall. Should have the richest soil and abundant moisture; can be propagated by dividing the roots.

- Ethiopia—**Large white flowers25c
- Alba Maculata—**Large white flowers, and handsome variegated creamy white and green foliage. Very choice 25c

CALCEOLARIA.

(Hybrida.)

A very handsome and much admired perennial, desirable either for the greenhouse or outdoor culture, producing a profusion of beautifully spotted and tigered flowers of unique form. They flower best in a rich, sandy loam, and can be propagated from either seed or cuttings. Some varieties are shrubby in appearance.



CALCEOLARIA.

- Grandiflora—**Large flowered, self-colored, splendid, robust, profuse bloomers25c
- Hybrida—**Tigered and spotted, brilliant. Finest mixture 25c
- Rugosa Hybrida—**Handsome, shrubby, profuse bloomer, most desirable for outdoor culture.....25c

CANNA.

(Indian Shot.)

Majestic appearing plants, broad, massive leaves, and crimson, scarlet and yellow flowers. Perennial, but bloom the first season, if sown early. The roots should be taken up before frost, and placed in a cool, moderately dry place, until planting time. The seed should be soaked several hours in hot water before planting.

Mixed—Best varieties.10c

CARNATION.

(Dianthus Varyophyllus.)

Universally admired, deliciously fragrant, popular favorite. The largest and finest of the family of which the Pink and Sweet William are well known members. Unsurpassed for richness and delicacy of form and color. Young plants produce the finest flowers, and fresh seed should be sown every year or two. Half hardy perennial.



CARNATION.

- Fine Double Mixed**—All colors.10c
- Extra Choice Double Mixed**—From superb varieties, including Flakes, Bizarres and Selves.25c
- Double White**—Very fine25c
- Double Yellow**—Choice25c

CATCHFLY.

A hardy annual, yielding for a long time a profusion of umbels of bright colored flowers. The plant is covered with glutinous moisture, to which flies adhere; hence its name.

- White** 5c
- Red**—Very fine5c
- Fine Mixed**—All colors 5c

COBAEA SCANDENS.

A handsome, rapid growing climbing perennial plant, having large, bell-shaped flowers, beautiful foliage and peculiarly delicate and curious tendrils.

Tender Perennial10c

CASTOR BEAN.

(Ricinus.)

A highly ornamental genus of half hardy annual of stately growth, and large leaves of bronze or glossy green. By planting either singly or in groups, a striking effect is produced on lawns or pleasure grounds.

- Sanguineus**—Brilliant scarlet5c
- Borboniensis Arboreus**—The largest variety. Tall and stately. 5c
- Mixed**—Best varieties5c

CELOSIA.

Graceful, free blooming, half hardy annuals, producing a profusion of beautiful, feathery flowers.

- Plumosa**—Mixed colors of great brilliancy.25c
- Argentea**—Bears long, silver white plumes, which, when dried, are fine for winter bouquets.10c
- Aurea Pyramidalis**—Beautiful golden plumes of pyramidal form10c

CENTAUREA.

(Dusty Miller.)

The genus embraces some of the finest silver foliage plants in cultivation, and when arranged side by side, in figures, or in borders, with dark and other ornamental foliage plants, rival in interest and beauty the finest flowers. Some also produce beautiful and attractive flowers.

- Candidissima**—The finest, handsome silver foliage. Leaves deeply indented. Half hardy perennial 15c
- Gynocarpa**—Foliage silvery gray, drooping, graceful. Perennial.10c
- Americana**—Blue flowers. Annuals. 5c
- Moschata**—Sweet Sultan. Blue, yellow and white mixed 5c

CINERARIA.

Well known, free flowering greenhouse plants. The flowers are very brilliant, and of great variety of colors. One of the brightest and most valuable of early spring flowers. They can be planted out when the weather becomes settled, and propagate readily by dividing the roots. Perennial.

- Hybrida**—Double. Mixed. Extra choice.25c
- Nana**—Mixed. Dwarf. Free flowering.25c

CHRYSANTHEMUM.

The Annual Chrysanthemums are rapidly coming to the front, both as greenhouse and garden plants. They should not, however, be confounded with the Japanese perennial kinds that are being so widely introduced. The annuals have recently been greatly improved.

- Frutescens Marguerite, or Paris Daisy**—White and yellow flowers10c
- Burridgeanum**—Lord Beaconsfield. White and rose. Very fine. 5c
- Venustum**—White, crimson center10c
- Japonicum**—Extra choice mixed, from the finest Japanese varieties. Perennial.25c
- Double White** 5c
- Double Yellow** 5c
- Eclipse**—Tri-color, brown and yellow, choice.5c
- Mixed**—Very choice double 5c

CLEMATIS.

Well known, tall climbing, perennial plants, of great beauty and elegance. Very desirable for arbors, latticework and trellises, on account of their rapid growth.

- Flammula**—Covered with handsome tufts of white flowers 5c
- Mixed Hybrids**—All the choice varieties.10c

CLARKIA.

Handsome, free flowering annuals of easy cultivation. Produce a fine effect massed in beds. Bear both single and double flowers, which are very bright and attractive.

Fine Mixed 5c

COLEUS.

No plant is more universally admired than the Coleus. Seed sown in hotbed early in spring will produce magnificent plants by July. The curious markings of the brilliantly colored leaves continue to improve during the season. The best ornamental foliage plant both for the greenhouse and garden.

Extra Mixed—From named varieties.25c

CUPHEA.

Commonly known as Cigar Plant, on account of the fancied resemblance of its flowers to a lighted cigar. It is a free bloomer, producing its flowers all summer, and if removed indoors will continue to bloom throughout the winter. Half hardy perennial.

Fine Mixed10c

COLUMBINE.

(Aquilegia.)

Commonly known as the Honeysuckle. A hardy perennial, producing handsome flowers of unique form and many bright and attractive colors. They are hardy and the seed may be sown as soon as the ground can be prepared. Can be increased by dividing the roots.

Mixed—Best double and single varieties..... 5c

COCKSCOMB.

(Coesia Cristata.)

Very ornamental and interesting plants, producing crest-like flowers of great beauty, resembling a cock's comb. The tufts of some varieties grow to an enormous size, and their feathery, graceful appearance and brilliant colors render them very attractive. Half hardy annuals, of easy cultivation.

Cristata Variegata—Combs beautifully variegated with crimson and gold10c

Japonica—New and magnificent combs.....10c

Dwarf Mixed—Combs as large as the taller sorts.10c

Tall Mixed—Best varieties.10c

DAHLIA.

The Dahlia is one of the most desirable families of plants known, and is very easily raised from seed. Both the Single and Double Dahlias present a variety of color and perfection of form not exceeded by any other flower. If sown early in spring most of the plants will bloom the first season. The roots or tubers should be taken up in the fall and kept in a dry, cool place over winter.



SINGLE DAHLIA.

Single, Fine Mixed10c
Fine Double Mixed.....10c

COSMOS.

Also known as Mexican Dahlia. A tall branching annual, of easy cultivation, having delicate, needle-shaped foliage. The flowers are produced in profusion and are unusually bright and attractive, resembling Single Dahlias. Colors range through rose and purple to pure white. A desirable and favorite plant.

Hybrids Grandiflora—Choice mixed..... 5c

COWSLIP.

(Dodecatheon Meadia.)

A low-growing, hardy perennial, blooming very early in spring. It is of easy cultivation and can be multiplied by dividing the roots. A popular and very desirable border plant.

Choice Mixed25c

CYCLAMEN.



CYCLAMEN.

Few plants present a neater or more elegant appearance than the Cyclamen, with its curious shaped and various colored flowers and masses of green and variegated leaves. The seed produces a bulb which blooms the second season.

Persicum Gigantum—
 Large and very fine 20c

Extra Mixed—
15c

CYPRESS VINE.

(Ipomea Quamoclit.)

A climbing annual, of rapid growth, having handsome, fern-like foliage and a profusion of bright, attractive flowers. When furnished a suitable support, it becomes very ornamental and showy. Plant the seeds where they are to remain, as soon as the ground becomes thoroughly warmed.

White, Scarlet or Mixed..... 5c

ESCHSCHOLTZIA.

(California Poppy.)

A showy, free flowering genus of plants, bearing handsome, graceful foliage, and flowers of the richest colors. They bloom very early, and should be planted as soon as the ground can be prepared where they are to remain, as they will not bear transplanting. Hardy annual, thriving best in light, warm soil.

Californica—Yellow, orange center 5c

Mandarin—Petals are orange inside, brilliant scarlet outside 5c

Mixed—All colors. Very fine..... 5c

DATURA.

(Trumpet Flower.)

Ornamental, half hardy perennial plants, producing large, sweet-scented, trumpet-shaped flowers. Succeeds in most any soil. The roots may be preserved over winter, like Dahlias.

Mixed Double—All colors. 5c

DAISY.

(Bellis Perennis.)

A well known, half hardy perennial, blooming early in spring. Very desirable for borders. Sow early under cover, if necessary, and transplant, when well started, to a moist, shaded place. They soon spread and the roots can be divided.

Double White10c

Double Mixed10c

FEVERFEW.

(Matricaria Capensis.)

A free flowering, ornamental, hardy annual, desirable for bedding or pot culture. It produces beautiful white flowers, very double. Sow early and plant out into pots or open ground.

Best Double White10c

FORGET-ME-NOT.
(Myosotis.)

Low growing, perennial plants, blooming the first season if sown in the fall or very early in spring. Fine for borders and edgings. A constant and profuse bloomer. Flowers mostly blue, with white or yellow center.

- Palustris**—Light Blue. Handsome 5c
- Dissitiflora**—Very fine 10c
- Mixed**—Choice. All shades 10c

FOUR O'CLOCK.

(Mirabilis—Marvel of Peru.)

Also called Beauty of Night. A well known, hardy annual, growing luxuriantly in any ordinary soil, and bearing a profusion of bright, handsome flowers of various colors, shades and markings.

- Choice Mixed**—Self-colored and variegated. In great variety 5c

FERNS.

Well known, extremely graceful, delicate and handsome plants, producing beautiful foliage, but no flowers; of almost endless variety, from the lovely Maiden Hair, so popular for bouquets, to the gigantic tree fern. The seed is exceedingly fine, and is formed in cells on the back or under side of the leaves. They are hardy perennials, and requires a loose, leafy mold and abundant moisture.

- Ferns**—Saved from 50 of the finest varieties.....25c

FUCHSIA.

A handsome perennial shrub of easy cultivation, bearing beautiful, pendent flowers, of a great variety of colors. The outer and inner petals always differ in color, presenting a very striking and pleasing contrast. It should have a moist soil, and shaded place or northern exposure, as the hot sun, especially if reflected from buildings, injures it. New and handsome varieties are obtained from seed. They are easily multiplied from cuttings.

- Single, Finest Mixed**.....25c
- Double, Choice Mixed**.....25c

FOX GLOVE.

(Digitalis.)

A tall growing biennial, with large leaves, and spikes of vari-colored and spotted flowers. Greatly improved of late, and now a really magnificent plant.

- Extra Mixed**5c

GALLARDIA.

A fine looking plant, flowering in great profusion and brilliancy the entire season. Hardy annual, becoming perennial in warm climates. No flower garden is well supplied without it.

- Choice Mixed**5c

GERANIUM.

(Pelargonium and Zonale.)

One of the best plants for outdoor cultivation. Succeeding almost anywhere, and yielding a constant succession of the most brilliant colored flowers. Some varieties have ornamental foliage almost rivaling the Coleus. Tender perennial.

- Zonale**—Popularly known as Fish Geranium. Splendid mixed. The colors ranging from pure white to darkest crimson, including single, double and ornamental foliage varieties.....25c

- Pelargonium**—Large flowering Lady Washington. Finest mixed. All colors25c

- Odoratissimus, or Apple Scented**—Choice for bouquets 25c

GLADIOLUS.

The most beautiful and popular of all our summer flowering bulbs. The seed produces a small bulb the first year, which usually blooms the next season, if well cared for, and all will bloom the third year. The flowers are borne on long spikes, and all open in one direction, presenting a charming appearance.

- Fine Mixed**—In great variety.....10c
- Extra Mixed**—From over two thousand of the finest new hybrids25c

GOLDEN FEATHER.

Foliage delicate, beautifully fringed, and of a bright golden tint. The flowers are insignificant, and to secure the most elegant borders cut out the spikes, on which the buds are formed, as fast as they appear. Hardy perennial, of easy cultivation.....5c.

GOURDS.
(Cucurbita.)

Extremely rapid growing, tender, trailing annuals, of easy cultivation. Useful for covering walls, fences and unsightly places. The fruit of many of the varieties is elegant and curious, and some of them may be made useful as dippers, bottles and other articles.

- Orange** 5c
- Egg Shaped** 5c
- Dipper, or Bottle** 5c
- Hercules' Club** 5c
- Mixed**—Seed saved from the most useful, elegant and unique varieties 5c

GLOBE AMARANTH.

(Gomphrena.)

Extremely handsome everlasting. The flowers, which should not be cut till fully matured, will keep for years, and are fine for fresh cut flowers, and almost indispensable for winter bouquets. Half hardy annual.

- Purple** 5c
- White** 5c
- Mixed**—All colors 5c

HELIOTROPE.



HELIOTROPE.

Delightfully fragrant, free blooming, tender, perennial plants. Splendid for bedding or pot culture. 1 foot high, of spreading habit. The fragrance of its flowers cannot be excelled in exquisite delicacy. Invaluable for bouquets.

- Mixed**—Choice 10c

HIBISCUS.

Fine, showy, hardy annual, two feet high, with glossy leaves and large, brilliant flowers. In bloom throughout the entire season.

- Mixed** 5c

HONEYSUCKLE.

See Columbine.

HYACINTH BEAN.

(Dolichos.)

Rapid growing, ornamental, climbing annuals, bearing clusters of beautiful purple and white flowers, followed by highly ornamental seed pods. Plant where they are to remain, as they do not bear transplanting.

- Choice Mixed** 5c

HARE'S-TAIL GRASS.

(Lagurus Ovatus.)

A hardy annual, very effective for fresh bouquets in summer; also, when dry for winter use.....5c

HELICHRYSUM.

(Eternal Flower.)

Very ornamental, hardy annuals for garden, and one of the best of all for winter bouquets. Gather when partially opened and dry in the shade. Will thrive in any good garden soil.

- White**—Mixed, dwarf and tall..... 5c
- Mixed**—Dwarf and tall. All colors. Very elegant. 5c

HOLLYHOCK.

(Althea.)

More success has been attained in improving the Hollyhock than almost any other flower, the double varieties being now almost as perfect as Camellias, and quite as varied and brilliant in color. Hardy perennial, six feet high.

- Choice Double Mixed**—Very fine..... 5c
- Golden Yellow**—Double. Choice10c
- White, Double**—Very large10c
- Scarlet, Superb**10c

ICE PLANT.

A dwarf, succulent, trailing plant, for edgings, rockwork, hanging baskets and vases. The stems and leaves are very curiously covered with crystals, resembling globules of ice, from which it takes its name, and which gives it a very remarkable and brilliant appearance in the sun. Tender annual.....5c

IPOMEA.

One of the most beautiful climbing plants in cultivation for the greenhouse or sheltered situations outdoors. It can be planted alone, or is very effective in combination with other vining plants. It belongs to the same family as the Morning Glory. Flowers are of the brightest colors. Tender annual; easily cultivated.

Mixed—All colors 5c

IPOMOPSIS.

(Standing or Tree Cypress.)

Beautiful plants, with fine feathery foliage and long spikes of dazzling orange and scarlet flowers. Very effective for conservatory or outdoor decoration. Prefers a dry, warm situation. Half hardy perennial.

Mixed 5c

LANTANA.

A free flowering, shrubby plant, suitable for outdoor or pot culture. The flowers emit an agreeable odor, and are of many shades of purple, orange and white. Half hardy perennial, two feet high. 5c

JOB'S TEARS.

(Coix Lachryma.)

Half hardy annual ornamental grass, about three feet high, with broad leaves and curious round seed vessels, of a dull olive color, that are very glossy and ornamental. 5c

LILY OF THE VALLEY.

(Convallaria.)

A charming little hardy perennial, of easy cultivation, thriving in any common garden soil. Prefers a shaded locality. Can be multiplied by dividing the root. 10c

LINUM.

(Scarlet Flax.)

Beautiful, slender, free flowering plants of many bright colors. Hardy annuals and perennials, 18 inches high. They flower well in any ordinary soil, and are very showy.

Mixed 5c

LUPIN.

(Lupinus.)

A genus of very desirable, shrubby plants, growing from a few inches to several feet in height, bearing long spikes of various colored flowers. They can be pruned into handsome shapes. Annual and perennial.

Mixed—Best annual varieties of all colors..... 5c

LARKSPUR.

(Delphinium.)

A very ornamental class of profuse blooming plants. Their tall spikes of many colored flowers produce a striking effect when planted in groups. They are very hardy, and the seed may be sown as soon as the ground can be prepared. The perennials can be multiplied by dividing the roots. Height one to three feet; annuals and perennials noted.

Dwarf—Mixed. Annual 5c

Branching Stock Flowered—Mixed Perennial...5c

Bismark—Robust habit, stock flowered, red striped. Very fine. Perennial.....10c

Mixed—Annuals. All colors.....5c

MINA LOBATI.

A summer climber belonging to the Ipomea family. At first the flowers are crimson; later in the season they change to orange and pale yellow. Tender annual, fifteen feet high.....25c

MOON FLOWER.

(Ipomea Grandiflora.)

One of the most rapid growing annuals in cultivation, covering an arbor, trellis, or latticework, twenty feet high, in eight or ten weeks. The flowers are large, of a waxy white appearance, and very showy. They open out on cloudy days and in the evenings. 25c

LOBELIA.

Delicate, low growing annual plants, of the greatest value for borders, ribbons, edgings, rockwork and hanging baskets. The seed is very fine, and can be



I obelia.

sown early in boxes, or a little later in open ground, and the plants transplanted.

Crystal Palace Compacta—Very dwarf. Blue... 5c

Gracilis—Blue. Spreading. Fine for baskets.....10c

Alba—White. Spreading. Fine for baskets.....10c

Finest Mixed10c

MAURANDIA.

A graceful, tender, perennial climber, for the greenhouse, conservatory or flower garden. Blooms the first season from seed. The flowers resemble those of the Foxglove, and are produced abundantly.

Finest Mixed Colors10c

MIGNONETTE.

(Reseda.)

Well known, hardy annual, varying in height from eight to eighteen inches. Easily grown. Produces abundant spikes of exceedingly fragrant flowers of several different colors. The flowers should all be cut when in full bloom, as the plant soon exhausts itself in maturing seed.

Reseda Odorata Grandiflora—

The well known, large flowering Sweet Mignonette...5c

Crimson Grandiflora—

Very fragrant5c

Parson's New White—

New and valuable.....5c

New Hybrid Spiral—

A strong grower, abundant bloomer, and very fragrant 5c

Golden Queen—

Very fine, new variety, with flowers of golden hue. Highly effective5c



MIGNONETTE.

MUSK PLANT.

(Mimulus Moschatus.)

Cultivated on account of its rich musky odor. Annual; becoming perennial indoors and in warm climates. Should have a rich soil and ample moisture 10c

MIMULUS.

(Monkey Flower.)

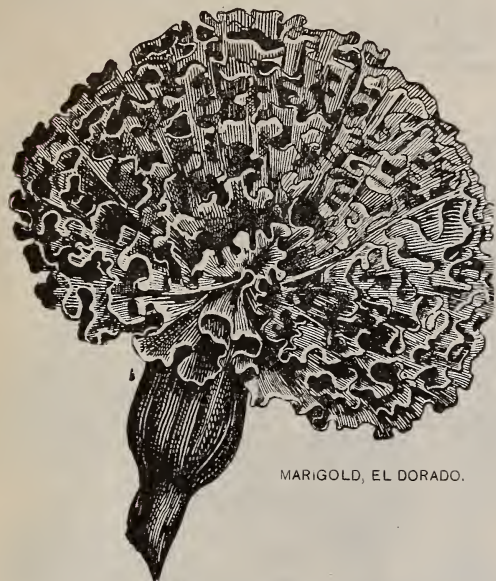
Extremely handsome plant, with large, brilliant, curiously spotted and striped flowers. Sow in the fall for early flowering greenhouse and conservatory plants, and early in the spring for summer blooming. They all like damp, shady situations. Hardy annuals and half hardy perennials.

Mixed 10c

MORNING GLORY.

The tall varieties are popular, well known, rapid growing climbers of the easiest cultivation. Valuable in every garden for trailing on fences, arbors and verandas. The Minor or dwarf varieties flower very freely, and do not require support.

- Choice Mixed**—*Convolvulus Major*. Tall. All colors. 5c
- Giant Japanese Morning Glory**—Flowers of immense size, with an almost endless variety of color and markings10c
- Dwarf Mixed**—*Convolvulus Minor*. All colors....5c



MARIGOLD, EL DORADO.

MARIGOLD.

(*Calandula and Tagetes.*)

The Marigolds are well known, hardy annuals, of easy cultivation, varying in height from the French of a few inches high to the African, two feet. They have responded to the florist's efforts, and are now really magnificent flowers. The colors are gold, orange, and varying shades of these colors. Some are densely double, large, regular in form, and very fine. They flower early, and continue to bloom all summer.

- Meteor, *Calandula***—Flowers striped and light orange. Double. Very fine.....5c
- Prince of Orange, *Calandula***—Choice.....5c
- Calandula***—All shades. Double mixed: Choice.....5c
- African, *Tagetes***—Double mixed.....5c
- Tagetes, Signata Pumila***—Compact5c
- Eldorado *Tagetes***—New, very fine. Mammoth blossoms 5c
- French *Tagetes***—Double mixed..... 5c

PAEONY.

(*Herbacea Chinensis.*)

An exceedingly handsome perennial, producing magnificent, large flowers, that bloom early in spring. They are double and varied in color. The flowers are formed on single stalks, that rise just above a mass of handsome foliage, and are very attractive. The seed should be sown early, and the bulbs transplanted the following spring, when they will bloom.

- Choice Mixed Double**25c

NICOTIANA.

(*Affinis.*)

A very showy plant, producing pure white, star shaped flowers of delicious perfume. Taken up in the fall, cut back and potted, will bloom freely all winter. Half hardy annual, three feet high.....5c

NASTURTIUM.

(*Tropaeolum.*)

These well known flowers need no description. The Dwarf Varieties have also recently been greatly improved and are now among the most attractive bedding and border plants. All *Nasturtiums* are rapid growers, flowering best where the soil is not too rich. Hardy annuals, of easy cultivation, the tall varieties growing five to ten feet high.



NASTURTIUM.

TALL VARIETIES.

(*Tropaeolum Lobbianum.*)

- Scarlet, Yellow or Carmine**, per pkg.....5c
- Lobbianum**—Finest mixed 5c

DWARF VARIETIES.

(*Tropaeolum Minor.*)

- White, Crimson or Yellow**, per pkg.....5c
- Finest Mixed**—All colors. Choice.....5c

PASSION FLOWER.

(*Passiflora.*)

A family of climbers, bearing a variety of interesting and beautiful flowers. Of tropical origin, it is peculiarly adapted to the warm valleys of the Pacific Coast, and the Southern States. Half hardy perennial of easy cultivation.

- Choice Mixed**25c

PENTSTEMON.

Beautiful, hardy, perennial, herbaceous plants, with extremely brilliant blooms. Their bell-shaped flowers are borne on long spikes, and are produced abundantly all summer. Varieties differ in growth from six inches to three feet.....10c

PERILLA.

(*Nanknensis.*)

Ornamental foliage plant, for edging and ribbon bedding; very easily cultivated. Color blackish purple. Very striking when planted with *Centaureas* and other silvery and light ornamental foliage plants. Hardy annual; height ten to eighteen inches.

- Mixed** 5c

PRIMROSE, EVENING.

(*Oenothera.*)

The *Oenothera*, or Evening Primrose, produces large, showy blossoms, which are fully expanded only during the evening and early in the morning. The flowers, which are from three to four inches across, attract much attention on account of their size, beauty, and the rapidity with which they open. They are constant and prolific bloomers. The following are the best perennial varieties:

- Lamarkiana**—Height 4 feet, with gorgeous yellow flowers, three to four inches across.....5c
- Aculis Alba**—Dwarf, producing large, beautiful, pearl white flowers. Hardy perennial, prostrate habit, six inches high.....5c

PHLOX DRUMMONDII.

The blooms of Phlox Drummondii are unrivaled for richness and beauty of color, ranging from white to the deepest scarlet and purple. They are abundant, almost covering the foliage, and of long duration. Very desirable, and easily grown. Hardy annual, one foot high; may be planted in the fall or early spring.

- Alba**—
Pure white10c
- Black Warrior**—
Dark purple10c
- Cocinea**—
Deep scarlet10c



PHLOX.

- Isabellina**—Pale yellow10c
- Finest Mixed**—Large flowering kinds.....5c

PETUNIA.

Too much cannot be said in praise of the Petunia as a bedding plant. Our clear, bright summers seem to bring out its best qualities. During the whole season it is covered with large, showy blossoms, which are always bright and fresh, in spite of heat and drought. The flowers are of an almost infinite variety of colors and markings, and quite as varied in form; large and small, fringed and plain, double and single. Hardy annual, varying in height from nine to eighteen inches.

- Double Mixed**—Choice Hybrids, best, all colors..20c
- Hybrida Grandiflora Fimbriata**—Best mixed, large flowering, fringed15c
- Mirabunda Hybrida**—Beautifully veined. Very fine 15c
- Intus Aurea**—Flowers having yellow throats, showy 15c
- New Dwarf Inimitable**—Variegated, blotched, striped 15c
- Grandiflora**—Best mixed. Large flowering. Many colors and varieties10c
- Pure White**5c
- Fine Mixed**—In great variety.....5c

PINK.

(Dianthus.)

The Dianthus family embraces some of the finest of all flowering plants. The blooms are of the richest and most pleasing colors, and nothing can surpass the exquisite fragrance of some varieties. They are hardy, and become perennial in warm climates and when protected. New seed should be sown every year or two. Old plants fail rapidly; young ones produce much the finest flowers, and the greatest number. One foot high.



PINK.

- Double China Pink**—Finest mixed.....5c
- Double White**10c
- Diadem Pink**—Finest mixed. All colors.....5c
- Double Imperial Pink**—Fine mixed.....5c
- Japan Pink**—Beautiful fringed varieties. Mixed..10c

POPPY.

(Papaver.)

The Poppy is well known and really a magnificent flower; borne separately on tall stalks; both double and single, and of many bright colors. They are hardy annuals, and may be sown as soon as the ground can be prepared. By lancing the flower stalks of the Double Carnation variety, when in bloom, opium is obtained. Ten to twenty inches high.

- Umbrosium**—Rich vermilion, with a glossy black spot on each petal. Single5c
- The Shirley**—A strain of marvelous beauty, with colors ranging from pure white to rose, pink, carmine, and brilliant crimson; some are edged with white. The petals have a glossy, silk-like texture. 5c
- Double Scarlet**—Carnation flowered.....5c
- Double White**—Carnation flowered5c
- Double Mixed**—In great variety.....5c

PRIMULA SINENSIS.

(Chinese Primrose.)

Well known greenhouse and conservatory winter-blooming plants. Nothing can surpass them for pot and indoor blooming plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a sandy loam and leaf mold. Tender perennial.

- Fimbriata**—Choice fringed varieties, mixed.....25c
- Alba**—Pure white25c
- Filicifolia**—Mixed. Fern leaved.....25c
- Extra Mixed**—In great variety.....25c

PAMPAS GRASS.

(Gynerium Argenteum.)

A noble ornamental grass, easily grown from seed, producing majestic plumes, that are inimitable for winter decoration. They are used in their natural silvery state, or dyed any desired color. When well dried they must be taken by the stalk and thoroughly shaken, to bring out their beautiful, plume-like appearance; and when dusty and fading, it will restore them. Half-hardy perennial, ten feet high.....5c

PORTULACA.



PORTULACA.

The brightest of all flowers for bedding purposes. In bloom from early summer until killed by frosts. The single varieties are even more handsome than the double, and a paper of Grandiflora Single Mixed will produce a bed of unrivaled beauty. Thrives best in a sunny exposure and a light, sandy soil. Annual, of easy cultivation, ten to twelve inches high.

- Single Mixed** 5c
- Double Mixed**10c

SALVIA.

(Flowering Sage.)

Very ornamental; flowers borne in spikes of fiery red, crimson or blue, and continue in bloom in open ground until after severe frosts. Start in heat and transplant into light soil one to two feet apart. Tender perennials, but bloom the first season; height two to three feet.

- Salvia Splendens**—Brilliant scarletPkt., 10c

SALPIGLOSSIS.

Pretty ornamental annuals bearing richly colored funnel shaped flowers. Marbled, yellow, crimson, scarlet, purple and blue. A handsome, desirable plant of easy cultivation, deserving more general attention.

- Fine Mixed** 5c

RHODANTHE.

A dwarf everlasting flower of great merit. Succeeds best in a light, rich soil, and a warm, sheltered situation. Cut as soon as fully blown, and dry in the shade. Half-hardy annual.

- Extra Mixed**—All colors 5c



PANSY PLANTS IN SEASON
FROM OUR MAMMOTH
STRAIN.
SEE PLANT LIST.

BOWEN'S MAMMOTH PANSIES

UNSURPASSED IN SIZE AND BEAUTY.

The flowers of this variety are the largest of any pansy yet produced, and for variety and beauty of marking, brilliancy of color and stability have no superior. Mixed. Per pkt., 15c.

- Fine Mixed—Splendid 5c
- Azure Blue 10c
- Emperor William—Indigo; dark center..... 10c
- Faust, or King of the Blacks—Velvety black... 10c
- Mahogany Colored—One of the very best..... 10c
- Odier—New French blotched 15c
- French Large Flowering—Mixed. 10c
- Lord Baconsfield—Purple shading to light blue.
Large and fine 10c
- Pure Yellow 10c
- Snow Queen—Pure white 10c
- Gold Margined—Handsome 10c
- Purple—Silver edged 10c

Mikado—One of the finest Pansies grown; the richly colored and beautifully marked flowers are of enormous size and unsurpassed beauty. Recommended 15c

20,000 PANSY PLANTS.

We will have 20,000 Pansy Plants of the above varieties this spring. While they last you may order them by express, (your expense), at 25 cents per doz. These will be good, hardy, outdoor plants in bud or bloom.



If you want
the Finest
Collection of
Sweet Peas
you ever had,
select from
our list.
The Choicest
ever offered.

Our
Sweet Peas
"The Cream of All."

WE MAKE THE UNIFORM PRICE OF

5c Pkg., 10c oz., 60c lb., Postpaid.

ONE PACKAGE EACH OF ANY 25 VARIETIES \$1.00

WHITE.

Blanche Burpee—

A splendid pure white variety. While not so profuse a bloomer or as hardy a plant as the Emily Henderson, the individual flowers are so fine as to make it a most desirable sort.

Emily Henderson—

The best white in cultivation; the flowers are of the largest size and pure white. A vigorous grower and free bloomer.

Mrs. Sankey—

Although this is classed as a pure white, in some lights it shows a tinge of warm shell pink, which is very delicate and beautiful.

Queen of England—

One of the best of the pure whites.

BLUSH WHITE.

Modersty—

Pale blush; very delicate and beautiful.

Ramona—

Blush and white striped, of good size and form.

Sensation—

Large flowers, light buff, blush and white.

CREAM.

Isa Eckford—

Delicate creamy white, and rosy pink flowers; of beautiful form.

Stella Morse—

Large, finely formed flowers of exceeding beauty. A rich cream in color. Very distinct.

PRIMROSE YELLOW.

Crown Princess of Prussia—

Buff-pink and white.

Emily Lynch—

Rose-pink and primrose.

Lovely—

Large beautiful flowers. A delicate shade of pink, tinged with a soft shade of yellow, producing a color of rare beauty.

Mrs. Eckford—

White, shaded with primrose; delicate and rich.

Lemon Queen—

Blush and lemon; very distinct and beautiful.

Lottie Hutchins—

Primrose, striped with pink. Very beautiful.

LIGHT SHADES OF PINK.

Blushing Beauty—

A soft blush self-colored flower of large improved size and hooded form. It demands the lead among all the pink varieties.

Eliza Eckford—

Large flower. Rosy pink over white ground. Exceedingly delicate.

Katherine Tracy—

Soft brilliant pink in color; a free bloomer, very vigorous and hardy.

Lady Mary Curry—

Bright orange pink. Very distinct and beautiful.

Mrs. Gladstone—

Large beautiful flowers; standards, delicate soft pink; wings bluish edged with pink. Distinct and exquisite.

◆ **Culture.**—Early in spring
◆ make a trench about six
◆ inches deep, in rich, mellow
◆ soil, so arranged that no wa-
◆ ter can stand in it, and plant
◆ the seed in the bottom, taking
◆ care not to cover it more than
◆ two inches. When the plants
◆ are about five inches high, fill
◆ up the trench, and furnish
◆ some support for the vines to
◆ run upon. The flowers should
◆ be picked before they form
◆ pods, or the plants will soon
◆ stop flowering.

SWEET PEAS—Continued.**LIGHT SHADES OF PINK.**

Venus—A soft salmon-buff self-color, of large size and hooded form. While a vigorous grower, it is graceful, delicate and decidedly attractive.

Prima Donna—Very large perfect flowers of a brilliant yet soft shade of pink.

DARKER SHADES OF PINK.

Apple Blossom—Bright pinkish rose; beautiful.

Her Majesty—A rosy pink of large size, vigorous and a free bloomer. The color is rich and striking, and very desirable in a bouquet effect.

Lady Penzance—A large and striking flower of a peculiar and beautiful shade of rose pink, with a slight tinge of orange.

Miss Hunt—A bright rosy pink with laced surface. An attractive variety of bright glowing color, which alters considerably as it grows older on the vine.

Oriental—Deep orange pink, of good substance, very large and finely formed.

Orange Prince—Standards, pink, suffused with orange; wings bright lake pink. Very distinct in color.

Royal Rose—Standard, deep rose pink; wings a lighter shade of the same color. One of the largest and best of the pink sorts.

Royal Robe—Bright, rose-pink flowers, very large hooded form.

PINK AND WHITE.

Blanche Ferry—The earliest Sweet Pea in cultivation; the large pink and white flowers are very showy; the plant is vigorous and an exceedingly free bloomer.

RED AND CRIMSON.

Cardinal—Deep, rich, carmine red flowers, of robust habit and one of the brightest reds in cultivation.

Firefly—An intense crimson scarlet, of large open and expanded form. One of the best bright reds yet offered, and its fiery coloring makes it a most desirable bouquet variety.

Ignea—Of good substance, large size, slightly hooded form; color deep scarlet crimson, changing to black as bloom matures. Black seed.

Mars—Bright crimson scarlet. Beautiful in form; very rich in color.

Ovid—Light carmine laced with rose.

Princess Beatrice—Beautiful carmine rose. Vigorous, and a free bloomer.

Prince Edward of York—Bright scarlet and crimson.

Salopian—Flowers are of grand size and well-expanded form. Standards quite broad, of good substance, slightly pointed, with the upper edges well recurved. Coloring is a vivid red. The wings are large, slightly recurved, deep red, tinged with rose.

CLARET AND MAROON.

Boreatton—Deep wine or chestnut color, very large and one of the best dark varieties.

Crown Jewel—Violet-rose and primrose. A very beautiful sort.

Captivation—Beautiful deep wine color.

Duke of Clarence—Very deep rosy claret. One of the largest flowering varieties, and the very best of the dark colors.

Fashion—Light purplish carmine; a distinct color and very pretty.

Shazada—Beautiful rich flowers. Standards deep maroon; wings indigo blue.

Monarch—Splendid large flowers. Standards bronzy crimson; wings deep rich blue; distinct and beautiful.

Splendor—A large, finely shaped flower; color coppery crimson suffused with rose.

Stanley—A beautiful self-colored flower of deep maroon.

Waverly—A bright rosy scarlet, not very dark colored; of large improved size and hooded form. Very vigorous.

LAVENDER AND LIGHT BLUE.

Butterfly—Standards a combination of shades of violet and lavender; it is often notched on the sides. Wings white, shaded and edged with blue.

Countess of Radnor—Self-colored in a very distinct and beautiful shade of lavender. The best of the lavender shades.

Coquette—Large flower. Standards warm primrose, shaded with violet; wings primrose. Distinct and beautiful.

Dorothy Tennant—A peculiar shade of rosy mauve; very large; a vigorous grower and free bloomer. Its large blossoms and odd coloring make it a very attractive variety.

Lottie Eckford—Standards a delicate shade of magenta blue; wings shaded lavender, deepening to violet at edge.

Lady Nina Balfour—Lavender, suffused with primrose. Large and finely formed.

BLUE AND PURPLE.

Black—Standards deep maroon, wings deep blue. medium size; good substance, black seed.

Captain of the Blues—One of the largest of the blue-flowered sorts. Standards bright purple blue; wings a little lighter shade of blue.

Emily Eckford—Rose purple, suffused with blue.

Indigo King—A large, fine-shaped flower, and one of the darkest, deep maroon standards and indigo blue wings.

Navy Blue—Very large and of fine form. A true navy blue.

STRIPED AND VARIEGATED.

America—White, nearly covered with splashes, stripes and dots of bright carmine. Very brilliant.

Anrora—Striped and flaked with delicate orange-salmon pink over white ground. Very brilliant and beautiful.

Captain Clark—Pure white, with penciled lines of carmine.

Gaiety—Striped with purple-pink on white ground. Of large improved size and expanded form; its soft, blending colors make it one of the most desirable of striped sorts.

Gray Friar—Large, perfect-shaped flowers of delicate mauve color, tinged, marbled and dotted with darker shade. Distinct and beautiful.

Juanita—Large, beautiful flowers. Pure white ground, striped with a delicate shade of lavender.

Maid of Honor—A large and striking flower. Pure white, edged with a bright shade of blue. Very distinct and beautiful.

Mrs. Joseph Chamberlain—White, striped with bright rose-carmine. Very distinct and striking.

Princess of Wales—White ground, shaded and striped with lavender and mauve.

Queen of the Isles—White ground, distinctly striped and splashed with carmine and bright scarlet.

Senator—A large hooded variety. White ground striped with chocolate. It is a wonderful bloomer; very attractive and odd on account of its peculiar stripe.

CUPID SWEET PEAS.

Dwarf in plant only, the blossoms being as large as the tall kinds. They grow from four to six inches high, and are beautiful grown in pots or planted for borders. Their fragrant blossoms are borne in clusters of two or three on long stems above the foliage.

Pink Cupid—

The same in color as the Blanche Ferry. A strong and vigorous bloomer. Seeds dark and of stronger vitality than the white. Pkt., 5c; oz., 10c; 4 oz., 25c; lb., 90c.

White Cupid—

A genuine dwarf, plant only a few inches high; bloom of good form and substance, and pure white. Originated in California. Seeds white. Pkt., 5c; oz., 10c; 4 oz., 25c; lb., 80c.

Alice Eckford Cupid—

This is a distinct Cupid or dwarf variety. The flowers have a peculiarly delicate beauty. They are creamy white, blended with shades of pink, and are borne on stiff stems well above the foliage.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.50.

Beauty Cupid—

An exceedingly large and perfectly formed flower of a beautiful rose color, shaded with carmine. A very free bloomer.

Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.50.

SCABIOSA.

(Mourning Bride.)

Handsome flowers, of delicious fragrance, borne on long, branching stalks, that have but little foliage. The flowers resemble in appearance some varieties of dahlias, and are very symmetrical. Colors, various, from white to purple and scarlet. Half hardy perennial, of easy cultivation.

Finest Double Mixed Dwarf—All colors.....5c

SENSITIVE PLANT.

(Mimosa.)

A peculiar plant, with globular heads of pink flowers, interesting on account of the irritability of its leaves and stalks, which will, on being touched or shaken, close and droop as if dead. Tender annual. 5c

SMILAX.

The most useful and beautiful of all climbing plants for florists. Its graceful form and elegant foliage are admired by all. It can be trained from pots or hanging baskets around windows and over ceilings with charming effect. Useful for cut flowers and vases. It may be made to climb or droop, as desired. Tender perennial. 5c

SUNFLOWER.

A well known plant, adapted by its stately growth for a background to the lawn, or a screen to hide unsightly places. It is also grown as an absorbent of miasma, in damp or ill-drained situations. The flowers, especially of the double varieties, are really quite attractive.

Californicus—Double Orange5c

Globosus Fistulosus—Large, deep yellow. Very double 10c

SNAPDRAGON.

(Antirrhinum.)

One of the most useful and showy of border plants. Of almost every color, and striped as beautifully as Carnations. They have recently been much improved, and are now really magnificent. The flowers are singular in form, and when taken between the thumb and finger, and alternately pressed and released, will open and close with a snapping motion, from which they take their names. Hardy perennials of easy cultivation.

Tall Varieties, Mixed5c

Dwarf Varieties, Mixed5c



CUPID.

Sweet Peas in Mixtures.

Our Own Special Mixture—Contains 25 of the choicest named varieties grown separately and then mixed in just the right proportions to make

The Cream of all Mixtures—

Put up in 1 oz. pkts., 15c; 2 oz., 25c; 4 oz., 40c; lb., \$1.

All Colors Mixed—

A great variety of colors; the best for the money. Per pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

Eckford's New Sweet Peas, Finest Mixed—

This strain, although not embracing the latest novelties, contains a beautiful assortment of the famous Eckford Sweet Peas.

Per pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.



SWEET WILLIAM.

SWEET WILLIAM.

(Dianthus Barbatus.)

A well-known remarkably free-flowering plant, of brilliant colors, ranging from snow white to darkest crimson and purple. They emit a very delicate and refreshing fragrance. Hardy perennial. New plants should be raised from seed every year or two, as the old ones deteriorate. They are hardy, and the seed may be sown as soon as the ground can be prepared. They spread rapidly, and the roots can be divided.

Single Mixed—Very beautiful5c

Dunetti—Dark crimson10c

Pure White 5c

Double Mixed10c

STOCKS.

The Stock, known by some as Gilliflower, has in recent years been so greatly improved as to be considered almost indispensable for bedding and edgings. Its varied and brilliant colors, profusion of blooms, and delicious fragrance, render it a popular favorite. Hardy annuals, except where noted.

- Double German, Ten-Week—Mixed**.....5c
- Double, Ten-Week—Pure white**.....10c
- Emperor, or Perpetual—Beautiful colors. Mixed**
perennial 15c
- Brompton—Mixed, all colors**.....15c
- Mixed** 5c

ZINNIA.

A large-flowering, branching annual, in bloom the latter part of the season. The flowers are as double as Dahlias, which they resemble, and of almost as great a variety. The flowers are beautifully rounded on top and very symmetrical. Easily grown and transplanted, and remarkably showy for beds or as a low hedge. Half hardy annuals.

- Mixed** 5c

VIRGINIA CREEPER.

A hardy, ornamental, rapid-growing perennial climber, bearing abundant and beautiful foliage, which, in late autumn, turns crimson and yellow. The flowers are small, but are followed by clusters of purplish black berries, that remain on the vine a long time, and are handsome and attractive. Easily grown from seed.

WALL FLOWER.

A well-known, half hardy perennial, producing spikes of beautiful flowers.

The petals are velvety, the color deep orange, shading to brown, rich and handsome. If taken in or protected, they will bloom all winter.

- Finest Double Mixed**.....10c
- Large Brown** 5c
- Single Mixed** 5c

WISTARIA.

(Glycine Sinensis.)

Rapid-growing, hardy, perennial climber, bearing long, drooping clusters of porcelain blue flowers in abundance. Thrives best in a light, loose soil and a southern exposure. Often grows 15 feet in a season.

Persons not having the time or place to devote to the raising of plants from seed can get any of the popular flowering or ornamental plants from us at a very reasonable price (see plant list, pages 53 to 65). Prices on plants not in that list will be furnished on application, if obtainable.

FLOWER SEEDS IN BULK.

We offer the following kinds in bulk by the ounce or pound. Those of our customers who wish to use larger quantities than are contained in the papers, will find this method very cheap for producing large masses of flowers or foliage. Sent by mail, postage paid, at these prices.

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Four O'clock	15																																																																																																																																			
Gourds, mixed, useful and ornamental	20																																																																																																																																			
Gourds, bottle or dipper.....	25																																																																																																																																			
Gourds, egg shaped.....	25																																																																																																																																			
Heliotrope, dark varieties, mixed	1 25																																																																																																																																			
Hollyhock, double mixed, great variety of colors	75																																																																																																																																			
Hollyhocks, double white.....	1 25																																																																																																																																			
Lobelia, mixed	60																																																																																																																																			
Marigold, Meteor	15																																																																																																																																			
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Mignonette, large flowering sweet (per lb., 75c)	15																																																																																																																																			
Mignonette, Golden Queen.....	30																																																																																																																																			
Morning Glory, tall per lb., 50c)	10																																																																																																																																			
Morning Glory, dwarf	20																																																																																																																																			
Nasturtium, Lobbianum, tall mixed	15																																																																																																																																			
Nasturtium, dwarf mixed.....	15																																																																																																																																			
Pansy, extra large flowering mixed	2 50																																																																																																																																			
Pansy, extra quality mixed, containing many named varieties	1 00																																																																																																																																			
	<table border="0" style="width: 100%;"> <tr><td>Per oz.</td></tr> <tr><td>Pansy, Emperor William.....</td><td>1 25</td></tr> <tr><td>Pansy, King of Blacks.....</td><td>1 25</td></tr> <tr><td>Pansy, Pure Yellow</td><td>1 25</td></tr> <tr><td>Pansy, Lord Beaconsfield.....</td><td>1 25</td></tr> <tr><td>Pansy, Snow Queen.....</td><td>1 25</td></tr> <tr><td>Pansy, Mahogany Colored.....</td><td>1 25</td></tr> <tr><td>Petunia, fine mixed</td><td>50</td></tr> <tr><td>Phlox Drummondii, fine mixed.</td><td>60</td></tr> <tr><td>Phlox Drummondii, Grandiflora, mixed</td><td>75</td></tr> <tr><td>Pink, mixed double China.....</td><td>30</td></tr> <tr><td>Poppy, carnation flowered, double mixed</td><td>15</td></tr> <tr><td>Poppy, carnation flowered, double white</td><td>15</td></tr> <tr><td>Portulaca, fine mixed</td><td>35</td></tr> <tr><td>Smilax</td><td>40</td></tr> <tr><td>Sunflower, double</td><td>15</td></tr> <tr><td>Sweet Peas, named varieties (per lb., 60c).....</td><td>10</td></tr> <tr><td>Sweet William, fine mixed.....</td><td>25</td></tr> <tr><td>Sweet William, double mixed..</td><td>50</td></tr> <tr><td>Verbena, fine mixed, all colors.</td><td>75</td></tr> <tr><td>Violet, sweet scented.....</td><td>1 00</td></tr> <tr><td>Wall Flower, fine mixed.....</td><td>40</td></tr> <tr><td>Zinnia, choice double mixed....</td><td>30</td></tr> </table>	Per oz.	Pansy, Emperor William.....	1 25	Pansy, King of Blacks.....	1 25	Pansy, Pure Yellow	1 25	Pansy, Lord Beaconsfield.....	1 25	Pansy, Snow Queen.....	1 25	Pansy, Mahogany Colored.....	1 25	Petunia, fine mixed	50	Phlox Drummondii, fine mixed.	60	Phlox Drummondii, Grandiflora, mixed	75	Pink, mixed double China.....	30	Poppy, carnation flowered, double mixed	15	Poppy, carnation flowered, double white	15	Portulaca, fine mixed	35	Smilax	40	Sunflower, double	15	Sweet Peas, named varieties (per lb., 60c).....	10	Sweet William, fine mixed.....	25	Sweet William, double mixed..	50	Verbena, fine mixed, all colors.	75	Violet, sweet scented.....	1 00	Wall Flower, fine mixed.....	40	Zinnia, choice double mixed....	30																																																																																						
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VERBENA.

No plant surpasses the Verbena as a bedding plant. The colors are rich and distinct. A packet of our new hybrid seed will produce flowers of every shade and color known to the Verbena. They spread rapidly, and can be divided, and will set readily. Half hardy perennial trailer.



VERBENA.

- Hybrida—Saved from one of the finest collections in the world**15c
- Scarlet—Very brilliant**10c
- Niveni—White, sweet scented**10c
- Montana—Hardy variety, producing brilliant rose and lilac flowers** 5c
- Fine Mixed—Brilliant colors** 5c

VIOLET.

(Viola Odorata.)

A species of extremely fragrant, early blooming, low growing plants, very useful for borders, rockwork and bedding. They are exceedingly fragrant, a few flowers being sufficient to fill a room with their delicious fragrance. Can be multiplied by dividing the roots. Thrives best in a cool, shady place. Hardy perennial, of easy cultivation.



VIOLET.

- White—Large. White blossoms**.....10c
- Purple Queen—Deep purple**10c
- Mauve Queen—Deep mauve blue**.....10c
- The Czar—Fragrant, large blue**.....10c
- Sweet Scented—Blue and purple**.....10c



GRASS AND CLOVER SEEDS.

PRICES PER POUND INCLUDE POSTAGE.

We cannot print prices on larger quantities good for any length of time, as the market is constantly changing. We have listed the present average selling price of the different grasses, but they are subject to change without notice. If you want Grasses or Clover Seeds in large quantities, write for special prices; or if you do not wish to take the time to write, you may send us your orders at the prices printed herewith, and we guarantee that we will give you the best market prices, whether they be higher lower than those printed.

As the country becomes settled and lands that have been used for grazing only are inclosed and devoted to agriculture or the growing of fruits, the question of economically raising and fattening stock for market becomes a most important one. To solve the problem the farmers are fast turning their attention to the raising of grass, clover and forage plants. The region over which our business extends is so vast, and the soil and climate so varied, that no direction can be given suited to all. OUR FACILITIES for supplying all kinds of grass and clover seed are UNSURPASSED. OUR STOCK of the kinds most in demand is ESPECIALLY HEAVY. The GREAT CARE we take to supply the BEST QUALITY at MODERATE PRICES has resulted in a RAPIDLY INCREASING BUSINESS from year to year. Fully appreciating the growing importance of this branch of husbandry, we are constantly adding to our facilities to meet every requirement of our largely increasing trade.

We are the only seed house in the Northwest equipped with a large No. 6 Clipper Seed Cleaner, (capacity 300 bushels an hour). This enables us to reclean all our seeds that are not positively free from fowl weeds. We offer you only the Best, New Crop Recleaned Seeds at the right prices. Our grass seeds have a reputation equalled by no other firm.

This cut was made from a photograph of one root of Alfalfa, gathered by one of our men on July 9th. We have the original plant, as well as a great many other grasses and clovers, on display in our salesroom and you are invited to call and examine them. This plant was over eight feet in height, and there was over half an acre more just like it. This specimen is remarkable not alone for its great growth, but from the fact that it was grown near Portland and never received a drop of artificial moisture, nor a particle of fertilizer, and was not even cultivated. It has been generally supposed that Alfalfa would not do well in Western Oregon, but we believe the time is not far distant when large quantities of it will be grown in most every section.

ALFALFA.

(Medicago Sativa.) Alfalfa, also known as Lucerne and Chili Clover, is one of the most valuable forage plants, yielding a prodigious amount of feed, which is relished by all kinds of stock, and is very nutritious. It should be cut just before coming into bloom. The hay is especially valuable for dairy cows. As soon as cut it immediately commences to grow,



and during the hottest and driest weather, when other grasses are parched and withered, it remains fresh and green and grows as rapidly as ever. On the low lands it is not an unusual thing to harvest five or six crops of hay from the same field in one season without irrigation, and the same result is obtained on high, dry lands where irrigation is resorted to. Notwithstanding its great yield, it does not ex-

haust the soil, but rather improves it, making barren land fertile and productive. It will not succeed on hard, clayey soils. It sends down a strong taproot, and soils suited to this peculiarity of the plant are best adapted to its complete success. Its roots, in seeking moisture, penetrate to incredible depths. It should not be sown where water stands near the surface. Where taproots can reach moisture, if a good stand be obtained, even though the surface remains dry, a luxuriant growth will be sustained. When well set it will endure severe winters, and has proved itself a valuable and profitable crop in every state in the Union. Experience has demonstrated that in most soils reseedling should be resorted to at intervals of about six years. Prepare the land by deep plowing and thorough harrowing. Sow from fifteen to twenty pounds of seed to the acre, and harrow or brush it in well. Seeding thick will produce fine stalks—a desirable feature, either in hay or pasture. The seed should be sown in spring, after danger from freezing the young plants is over, or in the fall, early enough to give it a good stand before frost.

Per lb., postpaid, 25c; 10 to 25 lbs., 11c per lb., 100 lbs., write for price.

CLOVERS.



RED CLOVER.

RED CLOVER.

(*Trifolium Pratense*.) The standard Clover for all purposes, either pasture, hay or for improving and enriching the soil. It is hardy, and may be sown at any time when the ground is in condition to receive the seed. It succeeds well on any good soil, and thin, light lands are made fertile and rich by allowing them to remain seeded to it for a number of years. It yields the heaviest crop of any Clover, except Alfalfa, and makes superior hay—especially if mixed with Timothy—either for dairy cows or general use. Sow from twelve to fifteen pounds per acre, being careful to get it evenly distributed over the ground.

Per lb., postpaid, 30c; 10 to 25 lbs., 15c per lb., 100 lbs., \$14.00.

MAMMOTH RED CLOVER.

(*Trifolium Pratense*.) Similar to Red Clover, but coarser and taller, and considered of more value for reclaiming and enriching waste lands, as it sustains itself, and succeeds sometimes when Red Clover fails. Sow from twelve to fifteen pounds per acre, in time to get the benefit of ample moisture.

Per lb., postpaid, 35c; 10 to 25 lbs., 16c per lb.; 100 lbs., \$15.00.

ESPERSETTE CLOVER, OR SAINFOIN.

(*Onobrychis Sativa*.) A hardy variety, the flower stalks of which grow from two and one-half to three feet high. It is perennial, and yields a heavy crop, having some of the characteristics of Alfalfa, and possessing about the same nutritive value.

Per lb., 25c; 100 lbs., \$12.50.



ALSIKE, OR SWEDISH CLOVER.

(*Trifolium hybridum*.) A perfectly hardy variety which is rapidly growing in popular favor. It yields large crops of excellent hay, and, under favorable conditions, may be cut several times during the season. It is also valuable for bees. It is well calculated to resist both drought and excessive moisture. The hay of this variety is greatly preferred by some to that of Red Clover, for the reason that it is generally finer, brighter and not so dusty, making it better for horses. It is perennial, and produces a mass of long, fibrous roots, which hold the soil, making it useful for permanent pasture on hillsides which are liable to wash. When used alone sow from eight to ten pounds per acre.

Per lb., 35c; 10 to 25 lbs., 25c per lb.; 100 lbs., \$18.00.

WHITE DUTCH CLOVER.

(*Trifolium repens*.) A small variety, having a white blossom. It is of a vining nature, spreading rapidly, and will soon cover bare spots if the stand be uneven. It does not attain sufficient height to be profitable for hay, but is superior for pasture, either for cattle or sheep, and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. If sown alone, use six to eight pounds per acre. Harrow the soil until it is very fine before sowing.

Per lb., 35c; 10 to 25 lbs., 21c per lb.; 100 lbs., \$19.00.



WHITE CLOVER.

BOKHARA CLOVER.

The Bee Clover.

Grows 3 to 5 feet high, covered with small, white flowers of great fragrance. Very valuable for Bee Pasture. Sow 10 lbs. to the acre. Per lb., 25c.

CRIMSON, OR SCARLET CLOVER.

(*Trifolium Incarnatum*.) Highly commended for pasture, hay and fertilizing purposes. It is a thrifty annual, growing from twenty to thirty inches high, and has a beautiful crimson bloom of from two to three inches in length. It germinates quickly, grows rapidly, and stools abundantly. It is said to be of so rank a growth that it will make a heavy crop on land too poor to give common clover a decent stand. After working the ground thoroughly to a good depth sow from twelve to fifteen pounds to the acre, and harrow in with a light harrow. Cut for hay when in full bloom. Per lb., 25c; 100 lbs., \$11.50.



CRIMSON CLOVER.

TIMOTHY.

(*Phleum pratense*.) Very nutritious, and relished by all herbivorous animals, either as pasture or hay. In moist soils it affords excellent pasture in the fall after the hay has been harvested. It should be cut just before or immediately on coming into bloom, as it loses much of its strength and flavor, and becomes hard and strawy if allowed to ripen. It is perennial, sows readily on any good soil, and does not fall even on clayey lands when well prepared. It yields a moderately heavy crop of hay that should be well cured to prevent molding, and salted as it is mowed or stacked. To secure a good stand, ten to fifteen pounds should be sown to the acre.

Per lb., 25c; 10 lbs., 85c; 100 lbs., \$9.50.

RED TOP.

(*Agrostis vulgaris*.) Also known in some sections as Herd's Grass, and by some as English Grass, and Rhode Island Bent Grass. It is perennial, and the best yield is obtained on wet and even marshy land. The blades and stalks are fine, and generally preferred for grazing, but where a good stand is secured it affords a profitable hay crop. The seed is fine and light and care should be taken to get it sown evenly. The proper quantity is thirty pounds per acre.

Per lb., 20c; 100 lbs., \$8.00.

FANCY RED TOP.

The cheapest to buy. No chaff. No waste.

This is the common Red Top, recleaned until all the light chaff and dust is taken out. One pound of this will go as far as three of the above kind.

Per lb., 30c; 100 lbs., \$15.00.



BROME GRASS.

BROME GRASS.

(*Bromus Inermis*.) A GREAT GRASS FOR HOT, DRY, SANDY SOILS.

It will stand the longest drought of all forage plants; will grow on gravelly clay, fresh marl, or even on yellow sand, although, of course, it does not produce so extravagantly; but even under these less favorable conditions it gives a very large yield.

This grass has been experimented with for the last six years, and has proven such a success on the semi-arid regions of the Northwest that it is now being planted in very large quantities.

As a pasture grass it has no equal on account of its root striking qualities. It grows luxuriantly, is freely eaten in either the dry or green state by cattle, and yields enormously, making the BEST OF HAY for horses or cattle. Fields have been known to be mowed for thirteen or fourteen years and afterwards pastured for several years. It is a perennial and yields from four to six tons to the acre. Can be sown in the fall or spring, when there is a slight breeze, so that the seeds as they fall will be well distributed. Sow twenty to thirty pounds per acre.

Per lb., 35c; 100 lbs., \$18.00.

BEWARE!

On account of so much inferior Brome Grass being offered, buyers should be very careful what they buy.

Our Seed is carefully harvested and tested.

ITALIAN RYE GRASS.

(*Lolium Italicum*.) A quick growing grass attaining a greater height than English Rye and is very desirable for meadows or permanent pastures. Thrives best on rich soils that are slightly moist. Sow at the rate of 20 pounds per acre. Grows easily, and bears an abundance of foliage that makes the best hay imaginable.

Price per lb., 25c; 100 lbs., \$10.00.

Prices per hundred pounds subject to market changes. Remember that above pound prices INCLUDE POSTAGE.



RED TOP.

FANCY CLEAN KENTUCKY BLUE GRASS.



(*Poa pratensis*.) One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year. It is perennial, and in warm localities, where the ground is kept moist, and it is pastured or frequently cut to prevent the seed from ripening, will continue to grow luxuriantly the entire year. It is also incomparably the best grass known for lawns and parks, and where covered with fine manure every fall, watered well and evenly, and cut frequently, will furnish a handsome, velvety lawn for years, requiring no resowing. For pasture, sow 25 to 30 pounds to the acre, but to secure a fine lawn, much heavier seeding is required, and not less than 80 pounds should be sown.

Per lb., 30c; 10 to 25 lbs., 17c per lb.; 100 lbs., \$13.00.

ENGLISH PERENNIAL RYE GRASS.

(*Lolium perenne*.) A strong growing, hardy perennial grass, noted for its nutritive qualities. Is equally valuable both for grazing and hay, and will succeed on any good tillable land, if well prepared. It is easily cured and kept either in the mow or stack. Also makes a fine lawn, and for large grounds and parks is very successful. Does not require the close care that Blue Grass does, and will flourish better under trees or in shady locations. For field crop sow 30 to 40 pounds to the acre, and if used for lawns, not less than 75 pounds. Lb., 20c; 100 lbs., \$9.



PERENNIAL RYE GRASS.

MESQUITE.

(*Holcus Lanatus*.) A variety native in Western Texas. It is much used by lumbermen along the northern coast of California and Oregon, and on Puget Sound. It is peculiarly strong and nutritious, and oxen will render more service and remain in better condition if pastured on it than on any other. It is usually sown on virgin soil, without cultivation, after the timber is removed and the ground burned over. It will grow on any loose soil. The seed is light and chaffy, and care must be taken in sowing, the best time being just before rain. Use about 30 to 40 pounds per acre.

Per lb., 20c; 100 lbs., \$6.50.

TALL MEADOW OAT GRASS.

(*Avena Elatior*.) Strong growing species of grass that often attains a height of three or four feet by the middle of June, and by many preferred to Timothy. Makes splendid hay and thrives on sandy loam, but makes its best growth where there is some clay. Can be fed as a pasture grass, and will generally bear cutting three times. For mixing with Perennial Rye and Alfalfa for sandy soils it is excellent. Sow about 30 to 40 pounds per acre alone or half that amount if mixed with the above varieties.

Per lb., 30c; 100 lbs., \$18.00.

ORCHARD GRASS.



ORCHARD GRASS.

(*Dactylus glomerata*.) Also known as Cock's Foot. A tall grass, having large glossy blades. It is justly becoming more popular, as it is one of the best forage grasses known on account of its rapid growth, being ready for grazing ten to fifteen days earlier than most other kinds, and where the ground is kept moist continues to grow vigorously as fast as eaten off, till late in fall, and in warm localities all winter. It yields a heavy crop of hay, and succeeds well in open timber lands. If intended for hay only, it is usually mixed with Clover, as they both bloom at the same time, and can be cut when at their best. It is perennial, and has a tendency to grow in tufts, and should be sown thick. It succeeds on any good soil, and requires twenty to thirty pounds per acre to secure the best results.

Per lb., 25c; 100 lbs., \$13.00.

 ♦ Broadcast ♦
 ♦ Grass Seed Sowers. ♦
 ♦ Page 69. ♦

HARD FESCUE.

(*Festuca Duriuscula*.) A fine, rather dwarf growing variety, justly noted for its drought resisting qualities. It is prized by some for lawns, and is especially valuable as a pasture for sheep, as it succeeds well when sown on uncultivated land where the soil is loose. Sow 20 pounds per acre.

Per lb., 30c; 100 lbs., \$16.00.

FINE LEAVED FESCUE.

(*Festuca tenuifolia*.) One of the best of all grasses for sheep, and should be used in all mixtures for permanent pastures. It is still finer than the Hard Fescue, and, like it, succeeds on virgin soil. Sow 20 pounds per acre, if possible just before rain.

Per lb., 45c.

MEADOW FESCUE, OR ENGLISH BLUE GRASS.

(*Festuca Pratensis*.) A perennial variety, growing from three to four feet high. It roots deep, and on this account resists drought better than most grasses. It succeeds in any ordinary soil, and well repays the labor of deep plowing and thorough harrowing in preparing the land. It yields a heavy crop of superior hay, and is one of the best kinds for pasture, as it comes early and remains green until late. It is valuable to mix with other kinds, as it sometimes succeeds where others fail. Use 20 pounds per acre when sown alone.

Per lb., 35c; 100 lbs., \$19.00.



MEADOW FESCUE, OR ENGLISH BLUE GRASS

 ♦ A MISTAKE. ♦
 ♦ When you seed a new piece of ground ♦
 ♦ do not make the mistake of seeding too ♦
 ♦ lightly. You may save a little in seed, but ♦
 ♦ returns from first crop will be much less. ♦
 ♦ ♦

LAWN GRASS SEED.

PUREST, CLEANEST, HEAVIEST EVER OFFERED. NO WEED SEEDS.



THE LAWN.

Nothing adds a greater air of refinement to the home than a well-kept lawn. It need not be large to be attractive. A small lawn well kept will afford more pleasure than a large lawn not properly cared for. To have a good lawn, the soil must be fine and rich and it must be leveled well. Then the best seed obtainable should be used on it. You need not expect to make a fine lawn with cheap seed. The best lawn grass mixture will cost more at first than the poorer substitutes but it will be found much the cheaper in the end. Sow our Fancy Mixed Extra Choice thickly, as we advise, and you will have a fine, thick, velvety, green turf in a short time.

It is impossible to have a fine lawn without taking good care of it. The idea seems to prevail that it will take care of itself after it is once made. Not so; it will soon fail if neglected; weeds will get into it; the coarser grasses will crowd out the finer sorts and the sward will lose the velvety depth and softness which is its chief charm. To keep it in fine condition it is necessary that it should be fed well by frequent and liberal applications of a fertilizer rich in the elements of plant food. Such a fertilizer is found in our Lawn Fertilizer. A richer, deeper, darker and in every way finer lawn can be secured by the use of our Lawn Fertilizer than by the best barn-yard manure, and in using it you run no risk of introducing weed seeds, which, when once established in a lawn, you will find it impossible to get rid of. The best results will be secured by scattering this fertilizer over the lawn at the rate of 50 pounds to a lot 50x100. While you are ordering, we advise you to get more than you will need for your lawn so as to have some to put around the plants and shrubs, where it will do a vast amount of good. This fertilizer can be applied most any time during the year. It is best to use it just before a shower. If the soil is poor, two or three applications will be found beneficial. For prices on Fertilizers see page 77.

LAWN GRASS SEED.

We take great pride in putting up a choice Lawn Grass Seed. Our Fancy Mixed, Extra Heavy for lawns, grass plats, parks, etc., will produce a thick, green, velvety lawn in a few weeks' time, if the ground is properly prepared. We use only the purest, cleanest and freshest seeds, free of weeds, in our lawn grasses. The seed must be sown thickly to produce a fine lawn. Sow at the rate of one and one-half pounds to 20 feet square, or 80 to 100 pounds to the acre.

Fancy Mixed, Extra Choice, 1 lb., 35c; 10 lbs., \$2.00; 100 lbs., \$18.00.

Mixed Lawn Grass, unequaled at the price, 1 lb., 30c; 10 lbs., \$1.75; 100 lbs., \$15.00.

Persons who are going to seed large lawns, golf links, tennis courts, or parks, will do well to write us for prices and information. Give us a description of the location and kind of soil you are going to seed and we will tell you what kind of grass seed to plant. It costs you nothing and you get the benefit of our study and experience.

SWEET VERNAL, TRUE PERENNIAL.

(*Anthoxanthum odoratum*.) A fine perennial grass, growing well on any ordinary soil, requiring but little moisture. It does not yield a large amount of feed, but comes early, and is noted for its sweet odor, especially when drying. It should form a part of all mixtures for pastures, and particularly for lawns and parks, on account of its fragrance. When sown alone, use 10 to 15 pounds per acre. Per lb., 90c.

SWEET VERNAL.

(*Anthoxanthum odoratum puelli*.) An annual, very similar to the True Perennial, but not maturing as early. It is also fragrant, and makes an excellent pasture for sheep. Sow early on virgin soil, twenty pounds per acre. Per lb., 30c.

BERMUDA GRASS.

(*Cynodon dactylon*.) Suitable only for climates where the winters are not below the freezing point. Particularly adapted to the Southern States, as it stands the hottest and driest season, and is very valuable for stock, being exceedingly nutritious, and for summer pasture is very valuable. Sow five to six pounds per acre on well prepared land; rolling in is all that is necessary to make a sufficient covering. It is slow to germinate, requiring at least thirty days under favorable circumstances.

Per lb., 90c; 10 lbs., \$7.00

JOHNSON GRASS.

(*Sorghum halapense*.) A perennial of luxuriant growth. It has strong roots that penetrate to considerable depth, enabling it to withstand drought well. It belongs to the Sorghum family, and is sweet and nutritious, and much relished by stock. If the soil is well prepared 30 pounds per acre will secure a good stand. Per lb., 25c; 100 lbs., \$12.00.

HUNGARIAN GRASS.

(*Panicum Germanicum*.) See list of Millets.

DO YOU SEND EAST

for your seeds? It's bad policy. Spend your money on this Coast. Here's where you sell your products. Our seeds are of highest quality.

SPURRY.

(*Spergula arvensis*.) An old fashioned annual forage plant which is coming again into popular favor on account of both its sterling forage qualities and its thrifty growth on light, sandy, and other poor lands. The seed is fine; when germinated it speedily takes good hold of the soil. Sown in March it is in good condition for pasture in four or five weeks. Sow 15 pounds to the acre. Per lb., 25c; 100 lbs., \$12.50.

Above pound prices include Postage.

GRAIN, FARM AND FIELD SEEDS.



The above cut is from a photograph taken by Prof. Leckenby. It shows a combined harvester at work in Eastern Oregon. It is drawn by thirty-two horses, and cuts, thrashes and sacks the wheat as it goes along

If ordering the following seeds by mail add 10 cents per pound for postage. These prices are SUBJECT TO CHANGE WITHOUT NOTICE.

BUCKWHEAT. SILVER HULL BUCKWHEAT.

A very good and popular variety. Grain is of a light gray color, rounder than the common variety, has a much thinner husk, earlier, and yields more.

Per lb., 5c; 100 lbs., \$3.25.



JAPANESE BUCKWHEAT.

Japanese Buckwheat.

The best, most productive and most profitable variety in cultivation. From one-half bushel of seed sown a crop of 40 bushels has been harvested. In color the grain is a rich, dark brown. Flour from Japanese buckwheat is fully equal in quality to that from any other variety. It ripens a week earlier than Silver Hull, and yields two or three times as much. Excellent for bee pasture.

Per lb., 5c; 100 lbs., \$3.50.

Broom Corn.

IMPROVED EVERGREEN.

An improvement on the common Evergreen. The result of many years' careful selection. Does not grow as tall as the old variety. The brush is fine and of light green tint.

Per lb., 10c; 100 lbs., \$7.00.

BIRD SEED.

Bowen's Mixed Bird Seed HAS NO EQUAL. We use nothing but fresh, strictly first class seed, free from dust and must. Our mixture keeps the birds healthy and makes them sing.

Canary—

- | | |
|--------------------------|----------------------------|
| Best re-cleaned | Per lb., 10c; 10 lbs., 60c |
| Hemp | Per lb., 10c; 10 lbs., 70c |
| Millet | Per lb., 10c; 10 lbs., 50c |
| Rape | Per lb., 10c; 10 lbs., 55c |
| Cuttle Bone | Large bone. 2 for 5c |

Corn Wheat,

or German Roggen.

A new cereal that will out-yeild corn and double the yield of wheat. It makes the same kind of meal as corn and has superior fattening qualities to either corn or wheat. Corn Wheat solves the problem of fattening hogs and cattle in a wheat country. It yields 50 to 100 bushels of richer food than corn.

It will place the Pacific Coast on an even footing with the corn-producing East to fatten hogs and cattle.

Corn Wheat makes an excellent green pasture. Some plant and cut it the same as rye, taking advantage of the great amount of green feed it produces. It makes about twice the average amount that rye does. Last season the demand was so great for Corn Wheat that our stock was entirely exhausted early in the season. Farmers who tried it season before last bought it in large quantities last year. Corn Wheat has come to stay. We have a larger stock on hand this year and hope to have enough to supply all of our customers.

Culture.—Prepare your ground the same as you would for oats or wheat and sow in the spring or fall at the rate of 75 to 100 pounds to the acre.

Price of Seed. Per lb., 10c; 10 lbs., 75c; 100 lbs., \$5.00

BEARDLESS BARLEY.

WASCO BEARDLESS BARLEY.

This Barley yields enormously, 80 to 100 bushels having been harvested per acre. It is a strong grower and does not blow over like the common barley. Valuable for fodder cut green. No beards.
Per lb., 10c; 50 lbs., \$1.25; 100 lbs., \$2.00.

BARLEY FOR SEED.

100 lbs., market price.

CHEAT SEED.

Cheat makes a good crop on low lands. Good for hay if cut before it gets too ripe.

100 lbs., \$1.50.

FLAX SEED.

Recleaned seed for planting.

Per lb., 10c; 100 lbs., \$6.00.

Flax for other purposes. Per lb., 7c; 100 lbs., \$4.50.
Ground Flax, for medical uses. Per lb., 10c
Flax Seed Meal for feeding purposes. 100 lbs., \$1.50.

FIELD PEAS.

A most profitable crop for fattening stock, especially hogs. Valuable as a soil renovator and forage plant; also for marketing as dry or split peas for food purposes. Sow, if alone, 120 pounds to the acre. If with other grain, 60 pounds.

WHITE CANADIAN.

The most popular variety, probably more used than any other. A heavy yielder.

10 lbs., 40c; 100 lbs., \$3.00.

BLUE PRUSSIAN.

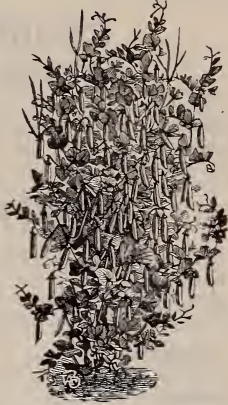
Very much like the above, except in color. This variety is generally preferred for soup peas.

10 lbs., 45c; 100 lbs., \$3.50.

SWISS.

A three-cornered pea, excellent for cooking purposes. Vines small.

10 lbs., 65c; 100 lbs., \$5.00.



FIELD PEAS.

KAFFIR CORN.

An excellent fodder plant, yielding two crops of fodder during a season. Grows four to five feet high, upright stalk with numerous large leaves. Greatly relished by cattle and horses. The seed crop is also heavy, sometimes yielding sixty bushels to the acre. It does better sown in drills three feet apart, using six to eight pounds of seed per acre.

Per lb., 10c; 10 lbs., 75c.

SEED OATS.

We aim always to keep a stock of the well known varieties, such as Shoshone, Mortgage Lifter, Banner, Side Oats and Gray Oats. When in need write for prices, stating quantities wanted.

SEED WHEAT.

We are always in a position to furnish good, clean spring or fall varieties of wheat. Write for prices, stating quantity wanted.

SEED RYE.

Choice, recleaned seed. 100 lbs., \$1.50.

In large quantities, write for special prices.

MILLETS.

COMMON.

A variety growing from three to four feet high, having rather broad blades and strong stalks. It supplies a valuable hay crop, and affords excellent pastures. The seed is also extensively sold in the market and used with mixed bird seed. It should have rich, mellow soil, well prepared. For a seed crop sow 15 pounds per acre; for hay and pasture use 30 pounds. Annual.

Lb., 6c; 100 lbs., \$5.00.



MILLET.

GERMAN.

An improved variety, yielding a larger crop of seed than the Common Millet. It is also taller than the common and yields a heavier crop of hay. For a crop of seed sow 12 to 15 pounds per acre; for hay, 25 to 30 pounds. Annual.

Per lb., 7c; 100 lbs., \$5.50.

HUNGARIAN.

A valuable species of Dwarf Millet. It is an annual and must be sown every year. It is finer than the Common and German Millets; produces a closer stand, and yields as much per acre as the taller varieties. The hay, being finer, is preferred by stock, and there is less waste in feeding. It will yield well on any light, loose soil, and requires less moisture to mature a profitable crop than most other leading grasses. Twenty-five to 30 pounds per acre will secure a good stand.

Per lb., 7c; 100 lbs., \$6.00.

POTATOES.



EARLY SUNRISE.

One of the best of the very early potatoes.

Peck, 50c; bushel, \$1.50.

EARLY ROSE.

The old standard potato, well and favorably known.

Peck, 40c; bushel, \$1.25.

UNCLE SAM.

For Main Crop.

The handsomest potato grown. Its cooking qualities are superior. White, dry and floury. A strong, healthy grower, free from disease, blight, scab or rot. Will out-yield other potatoes two to one; one of the best potatoes for loam or sandy soil.

Peck, 50c; bushel, \$1.50.

We can supply you with most any of the popular varieties at a reasonable price. When ready to buy, write us.

Dwarf Essex Rape.



The best forage plant for the sheep growers of America. It is highly recommended by Professor Shaw, of the Minnesota Experimental Station, as well as many other leading authorities on stock feeding. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily, but it is particularly desirable for sheep on account of its fattening qualities. Rape will do well on almost any soil, but gives best results on good land.

Very valuable for ploughing under as green manure. Rape possesses remarkable fattening properties. Sheep or lambs can be turned into it within six to eight weeks after sowing. Prepare the ground as for turnips and sow any time from May till September; or plant it with grain. Sow per acre, 4 pounds in drills; or, if broadcast, 8 pounds.

Per lb., 20c; 10 lbs., \$1.50; 100 lbs., \$10.00.

The demand is growing greater for Rape every year. Beware of cheap or wild seed. Our's is the true, genuine Imported Dwarf Essex.

Speltz.

This comparatively new grain is a grand addition to our present list. Good for pasture; yields 50 to 100 bushels of rich grain per acre and makes four to six tons of good hay.

First you thresh the grain and then keep the straw for hay. The straw contains an oily substance which makes it very fattening and much relished by all kinds of stock. The grain has a hull something like barley. The great secret of Speltz is its superior stouling qualities, its strength to resist drought and the elements, and its rich food and hay value. Sow in the spring the same as wheat, at the rate of 75 to 100 pounds per acre. Cut when the grain is past the middle stages of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. The hull and kernel can be fed whole or ground.

By all means give this new grain a trial this season. Price per lb., 10c; 50 lbs., \$2.50; 100 lbs., \$4.00.

Sugar Cane.

We offer the two best varieties, and believe it will be to the advantage of farmers to give them a trial for the production of both sugar and syrup as well as for stock feeding. Cultivation the same as for corn.

EARLY AMBER.

Early and of rapid growth; best for sugar and syrup, making a rich, amber colored syrup, and granulating into sugar beautifully.

Per lb., 10c; 10 lbs., 75c.

EARLY ORANGE.

Of more vigorous growth, and but little later than the Amber. It is good for sugar and syrup, and on account of its unusually large yield, is the most profitable kind for stock feeding.

Per lb., 10c; 10 lbs., 75c.

Sunflower.

MAMMOTH RUSSIAN.

The largest and most productive variety.

Pkt., 5c; 1/2 lb., 15c; 1 lb., 25c; 19 lbs., \$1.00

Sand, or Winter Vetch.

(*Vicia Villosa*.) Is perfectly hardy throughout the United States, remaining green all winter, and should be sown in the fall, mixed with Rye, which serves as a support for the plants, or in spring with Oats or Barley.

It grows to a height of four to five feet and is the earliest crop for cutting, being nearly a month earlier than Scarlet Clover, and a full crop can be taken off the land in time for planting spring crops. Being much harder than Scarlet Clover this is the forage plant to sow in the Northern states where Scarlet Clover winter kills, though it is equally valuable in the South. It is exceedingly nutritious, much more so than Clover; is eaten with relish, and may be fed with safety to all kinds of stock. Sow 60 lbs. per acre with one-half bushel of grain.

Per lb., 20c; 10 lbs., \$1.75; 50 lbs., \$7.50; 100 lbs., \$14.00.

Wild Rice.

(*Zizania Aquatica*.) Wild Rice is valuable as a forage plant on inundated lands and along the shores of marshes. As an attraction for wild fowls it is invaluable. The seed should be sown in the fall in six inches to six feet of water, having soft mud bottom, where there are few weeds. Lb., 25c; 10 lbs., \$2.00.

Spring Vetches, or Tares.

(*Vicia Sativa*.) Closely associated with peas in character. Produces a great amount of green feed that is highly prized by stock. This is the vetch that is grown so extensively in Western Oregon and Washington. Valuable for green manuring. It may be planted either in the spring or fall in the Willamette Valley. Generally sown with oats or wheat to hold it up: Sow at the rate of 60 lbs. of vetches and one bushel of grain to the acre; or, if alone, from 80 to 100 pounds.



VETCHES.

Prices on application.

PLANT DEPARTMENT == ROSES.



PLANTS. Instead of taking weeks to secure a box of plants, as is the case when ordered in the East, we can deliver fine, fresh-looking and live plants in a few days' time. There is no danger of our plants arriving at their destination in a dried or decayed state, which often happens to plants bought in the East, after an anxious customer waits several weeks for them.

THE SIZE OF OUR ROSES.

The plants that we send by mail, postpaid, are grown in 3-inch pots, and are strong and healthy. Our cold system of growing makes them infinitely better than the little puny plants raised in a high temperature and offered at ridiculously low prices by dealers in the East. Our stock for this season is unusually large and fine, and we can promise our customers plants which cannot fail to give satisfaction. These roses will all bloom profusely the first season except some of the Climbers and Hybrid Perpetual varieties, which generally do not bloom much until the second year.

OUR TWO-YEAR-OLD ROSES.

These Roses have all been grown in the open ground, and are large, well-branched bushes, 18 to 24 inches in height, according to variety, and will soon produce flowers. They are too large to send by mail and are sent by express at buyers' expense. Order any time from December to June.

PLANTS BY MAIL.—We send all plants securely packed, postpaid, by mail without extra charge, except where stated to the contrary.

ADMIRAL DEWEY

Collection of New and Choice Roses.

Price, 15c each; four for 50c; set of 12 sorts, \$1.25
Two-year-old plants, 40c each.

Admiral Dewey—Flowers of large size, of exquisite shape, with heavy, thick, shell-like petals. Color delicate rosy flesh, shaded a trifle deeper at the center. A very profuse bloomer.

Burbank—A beautiful cherry crimson variety, valuable because of its hardiness. Flowers of medium size, but borne in wonderful profusion.

General Robert E. Lee—Elegant long, pointed buds of a deep orange yellow. The color is so rich and peculiar as to attract attention wherever seen.

Golden Gate—Creamy white; center and base of petals soft golden yellow, exquisitely bordered with clear rose; buds long and pointed.

JEWEL COLLECTION EVER-BLOOMING ROSES.

Price, 10c each; six for 50c; set of 15 sorts, \$1.20 by mail postpaid; two-year-old bushes, 35c each.

Bridesmaid—A fine, clear, dark pink. One of the very best.

Bon Silcne—Color dark, rosy carmine. A general favorite.

Bride—Elegant long pointed pure white buds.

Catherine Mermet—Beautiful silvery pink, blended with yellow at base of petals.

La France—Color a silvery rose, changing to pink. A general favorite, and the sweetest of all roses.

H. M. Stanley—Color beautiful amber rose, delicately tinged, apricot yellow.

Maurice Rouvier—Flowers of immense size; color soft, tender rose, shaded and varied with red.

Madame Eli Lambert—Creamy white, tinged with pale yellow, and exquisitely bordered with soft, rosy flesh.

Meteor—Remarkably rich, dark, velvety crimson.

Kaiserin Augusta Victoria—This is one of the grandest of all Roses. Color pure white. We have no hesitancy in saying that this Rose is unequalled by any other variety of its color.

Helen Gambier—A lovely new coppery yellow variety. Strong grower and very free bloomer.

Maman Cochet—This is one of the most beautiful new Tea Roses that has been introduced in years. The color is a deep, rosy pink, the inner side of petals silvery rose; makes charming bunches of long stemmed flowers when cut.

Muriel Graham—Creamy white, suffused with delicate pink, a color as dainty as is possible to imagine.

Madame Caroline Testout—A grand new rose of the La France type, but with flowers larger and finer. Color bright, satiny pink; very fragrant and free in bloom.

Princess Bonnie—Outer petals are a rich, solid crimson, more vivid than "Jack," while the inner side of the center ones at the base is streaked with white.

Virginia B. Cox—Color vivid crimson of the richest shade; very free in growth and bloom, being covered with flowers during the entire season.

White Maman Cochet—The name describes this new rose—pure white, grand substance, immense size, exquisitely fragrant, and a free bloomer. Buds long and pointed, keeping a long time when cut. We cannot speak too highly of this rose.

Madame Francisca Kruger—Deeply shaded, coppery yellow. One of the finest roses in existence.

Madame Joseph Schwartz—Color pure white, elegantly tinged and shaded with pale yellow and rosy blush.

Papa Gontier—A magnificent red rose; flowers large and semi-double; a vivid cherry red color, shaded yellow, reverse of petals crimson.

Perle Des Jardins—This magnificent yellow tea rose still retains its position as one of the finest and most beautiful roses of its color ever introduced.

Marie Van Houtte—Of a fine, faultless straw yellow color; outer petals washed and outlined with rosy carmine.

White La France—Beautiful pearly white, sometimes tinted with fawn.

EVER-BLOOMING CLIMBING ROSES.

NEW VARIETIES.

Price, 15c each; set of five sorts, 60c; two-year-old bushes, 40c each.

Climbing La France—Identical with the well known La France, except that it has a vigorous climbing habit.

Climbing Kaiserine (Mrs. Robert Peary.) Flowers fine ivory white, of heavy texture and largest size.

Climbing Meteor—Very free flowering, producing all through the growing season its rich, velvety crimson flowers.

Climbing Perle Des Jardins—Flowers golden yellow, of immense size.

White Marechal Neil—Identical with Marechal Neil, except that it is creamy white in color. Small plants only.

STANDARD VARIETIES.

Price, 10c each; six sorts, 50c; two-year-old bushes, 35c each.

Elie Beauvilain—Charming peach pink color; exquisite fragrance.

Golden Chain, or Climbing Safrano—Color orange yellow, or deep saffron, good size, full and sweet.

La Marque—Pure white; one of the best known varieties.

Madame Alfred Carriere—Rich creamy white, faintly tinged pale yellow.

Marechal Neil—A magnificent deep, golden yellow variety, so famous as to need no description.

Reine Marie Henriette—Glowing crimson, elegantly shaded; one of the best climbers.

William A. Richardson—Color rich coppery yellow, flushed with carmine.

THE FOUR RAMBLERS.

Price, 10c each; the set of four, 35c; two-year-old bushes, 35c each.

Besides the famous Crimson Rambler we recommend as companion roses, in fact, "half-sisters" by blood-relationship, three worthy companions. We are quite sure that the Yellow, Pink, and White Ramblers will quickly become very popular. They are all very strong, rapid growers, making shoots eight to ten feet high in a season after becoming established. All of them, and the Yellow especially, bloom in splendid big clusters after the manner of the Crimson Rambler.

Crimson Rambler—This is a most decided novelty in roses. The plant is a vigorous grower, making

shoots from eight to ten feet long in a season. The flowers grow in pyramidal panicles, each carrying 30 to 40 blooms. The color is a bright, vivid crimson.

White Rambler—Flowers are pure snow white, and sweetly scented.

Pink Rambler—Color of the flowers, pure, shiny rose.

Yellow Rambler—A new, hardy yellow climbing rose, blooming after the same manner as the Crimson Rambler.

NEW WICHURIANA ROSES.

Price, 15c each; five for 60c.

A new class of creeping roses from Japan, particularly valuable because of their hardiness and usefulness where trailing plants are required. Very desirable in cemetery plots or on slopes and rockeries.

Manda's Triumph—Produces large clusters of well-formed double flowers of pure white, two inches in diameter.

Universal Favorite—Double flowers of a beautiful rose color, over two inches in diameter.

South Orange Perfection—Produces multitudes of the most perfectly formed double flowers, about 1½ inches in diameter, soft, bluish pink at the tips, changing into white, and lasting a long time in perfection.

Pink Roamer—Single variety; flowers nearly two inches in diameter; bright, rich pink, with almost white center and orange-red stamens.

Rosa Wichuriana—The Single White Memorial Japanese or Trailing Rose.

HYBRID PERPETUAL ROSES.

10c each; 6 for 50c; 13 for \$1.00; two-year-old bushes, 40c each.

Baron De Bonstettin—Rich dark red, passing to deep velvety maroon.

Baroness Rothschild—Flowers of immense size, and fine globular form, somewhat cupped; color, bright rosy pink.

Captain Christy—Color, a lovely shade of pale peach.

Coquette Des Alps—A lovely pure white rose; large, full, finely formed flowers.

Fisher Holmes—Dark, rich scarlet, elegantly shaded with deep velvety crimson.

Giant of Battles—This is still esteemed as one of the very best red roses.

Glorie Lyonnaise—Color, chamois yellow, deepest at the center, passing to creamy white; large.

General Jacqueminot—Bright, shining crimson, very rich and velvety.

Mrs. John Laing—Very free flowering. Color, a soft, delicate pink with a satiny tinge.

Paul Neyron—Deep, shining rose; the largest variety in existence, and one of the most desirable for the garden.

Prince Camille De Rohan—Very dark, rich, velvety crimson, passing to intense maroon, shaded black.

Ulrich Brunner—Extra large, bold flowers, full and globular. Color, rich, glowing crimson, elegantly flamed with scarlet.

Vick's Caprice—Flowers very large; ground color soft satiny pink, distinctly striped and dashed with white and carmine. A novelty of great merit.

CARNATIONS.

For the beauty, fragrance and abundance of flowers, for its hardiness, easy culture and adaptability to outdoor or indoor cultivation, no plant excels the ever-blooming Carnation, or, as so frequently called, the Pink; rivaling the Rose in beauty of colors and shades, equalling in perfume, and even excelling it in profusion of flowers. It has been so greatly improved within comparatively a few years, that it is now pre-eminently one of the popular flowers. Aside from its fine colors and spicy fragrance, a distinguishing merit is its superb quality of retaining, for a long time after it has been picked, its brightness and freshness, thus making it, of all beautiful flowers, the most desirable for table decoration and for personal adornment.

Jubilee Collection

of New Varieties.

Price, 15c each; set of 10 sorts, \$1.20.

Flora Hill—The grandest white and the most prolific bloomer of the Carnation family that has been raised up to this time.

G. H. Crane—A bright, deep scarlet, a most perfect color, soft, yet brilliant. The flower is of the largest size.

General Gomez—Magnificent large flowers of a beautiful, deep, brilliant scarlet-maroon color.

Governor Pingree—A magnificent yellow; strong growth, free blooming from early to late; long, strong stems, large flowers of pleasing form.

Lily Dean—Flowers are a pure satiny white, and marked and shaded with rosy pink.

Jubilee—Color, richest shade of intense scarlet ever seen in a Carnation; flowers massive, and of great substance; very fragrant and free-blooming.

Mrs. James Dean—Flowers very large, center round and full; color a delicate flesh pink, with a very strong clove fragrance.

Miss Francis Joost—Color, soft pure rose, so much admired by cut-flower purchasers; flowers large and well formed.

White Cloud—Spicy fragrance; strong, vigorous grower and a remarkably free bloomer; color pure white.

Standard Varieties.

Price, 10 cents each; 14 for \$1.00.

Argyle—Brilliant scarlet flowers of the largest size; sweetly scented and beautifully fringed.

Cerise Queen—Color, a lovely shade of cerise; flowers very large and handsome, borne on stems 18 inches long.

Eldorado—Yellow, of free blooming habit; erect stems; finely-formed flower of good size; very free; petals edged with a narrow band of light pink.

Dr. Patskie—Creamy white, variegated with bright scarlet; very large and fine.

Daybreak—Very pure bright shade of flesh pink in a large, full-fringed flower of rich fragrance and perfect form.

Dr. Smart—Ground color, cream white, suffused and margined with bright crimson; deliciously fragrant and very free.

Firefly—Rich scarlet; flowers large and deeply fringed; an early and continuous bloomer.

Lizzie McGowan—A grand new sort; flowers very large, pure white, beautiful fringed and very fragrant; pure in color; perfect in form; healthy and productive.

Meteor—Rich cardinal crimson; remarkably handsome and delightfully scented; a constant and profuse bloomer.

Psyche—A very large, bold, handsome flower, pure white ground, with very delicate margin and penciling of clear pink.

Puritan—Fine white; large size; very fragrant, and an early and profuse bloomer.

Portia—Intense bright scarlet; vigorous constitution; very free flowering; one of the best sorts in cultivation.

Tidal Wave—A very attractive shade of carmine not heretofore seen in the Carnation family; flowers extremely double, and of the most perfect form.

William Scott—The freest blooming of all pink Carnations; every shoot of the strong, bushy plant bears its long, stout stem of fine, sweet flowers.

Yellow Jacket—Bright yellow, splashed and edged scarlet. Very fine bedding sort.



CARNATION.

LARGE FLOWERING JAPANESE CHRYSANTHEMUMS.

Price, 10 cents each; 15 for \$1.00.



Col. W. B. Smith—Beautiful incurved flowers, forming a mass of rich golden-bronze color, very large and fine; early.

Eiderdown—One of the grandest new ostrich plumes. Color, a pure snow-white.

Egyptian—Largest and most beautiful dark crimson scarlet yet raised; looks like crimson velvet; the color long desired.

Gorgeous—Deep, golden yellow of the richest hue, of immense size.

George W. Childs—Of immense size, and of the richest, deep, velvety crimson. Winner of four gold medals.

Ivory—Snowy white, of perfect incurved form; very large. This is, undoubtedly, one of the most useful varieties ever introduced.

Louis Boehmer—Pearly pink, brighter in the depths; very early; ostrich plume variety; of large size and splendid proportions.

Lady Hanham—Cerulean pink, shading to gold. Very prominent in many of the prize-winning collections of the season.

J. E. Lager—Very early yellow reflexed Japanese, of good size, color and substance.

Madame Bergman—Early, white, coming into bloom the first week in October; fully six inches in diameter.

Marion Henderson—A handsome yellow variety of pure tint.

Major Bonnaffon—Soft, clear primrose yellow. six inches in diameter and nearly as deep, forming a perfect globe.

Mrs. Henry Robinson—Immense, globe-shaped pure-white flowers, one of the grandest sort for exhibition.

Mrs. C. H. Weeks—This superb variety is destined to become popular and in large demand, both for exhibition and the cut-flower trade. The flower is pure white, full, deep and solid; petals incurving in graceful folds.

Pink Ivory—Differs from ivory only in color, which is a beautiful silvery pink; one of the best.

President W. R. Smith—Flowers heavy in substance and of beautiful texture; color, flesh pink; fine for cut flowers.

Philadelphia—A very large, round, incurved Japanese flower, with grooved pointed petals of great width; the reverse is ribbed and the color white, with a faint primrose marking at the tips.

Source De Or—Beautiful shade of terra cotta. petals twisted and twirled in fantastic manner.

Wm. Falconer—This color is an exquisite shade of rosy-blush, changing to a delicate flesh pink as the flowers advance in age. The soft, feathery growth peculiar to the ostrich plume class is even more pronounced than in any of its predecessors. A unique and beautiful variety.

Wm. Simpson—Color, a pleasing shade of lavender pink; very free in growth, with good stem and foliage; the best early pink.

CANNAS.

NEW FRENCH.

Price, 15c each; set of 8, \$1.10.

For a brilliant show all summer long, nothing can excel the new French Cannas. They are of the easiest culture, growing finely in any ordinary garden soil and producing quantities of immense spikes of bright colored flowers until cut by frost. Dig the roots up and store like Dahlias. We send out growing plants only.

Alsace—The White Canna. An early, continuous bloomer, producing large, densely crowded spikes; color, creamy white, without a spot of any kind. A grand novelty.

Alemannia—A gigantic flowering Canna, producing the largest flowers which have been obtained as yet. Outer petals are scarlet with broad, golden yellow border. Inside scarlet and dark red.

Crown Jewel—Rich, deep yellow, evenly dotted with small, bright scarlet points; strong and free bloomer, with large and perfectly-formed trusses held well above the dark green foliage.

Duke of Marlborough—Large, splendidly formed flowers in immense trusses. Color, rich crimson velvety maroon; the darkest color yet found in a Canna.

Eldorado—The grandest of all the yellow Cannas. Almost a pure self-bright golden yellow. Spikes of bloom very compact. Dwarf grower.

Florence Vaughan—Bright yellow, heavily marked with scarlet dots; extra fine for bedding or for single specimens.

New Canna, Maiden Blush—Large, finely-formed flowers, of splendid substance and good truss of bloom; color, clear rose pink. Rare novelty.

President Cleveland—One of the grandest introductions ever made in Cannas. Color, bright, distinct orange scarlet; very showy; compact and vigorous in growth, producing massive trusses of large flowers.

DAHLIAS.

SIX GRAND NEW CACTUS VARIETIES.

Price, 20c each; set of 6 sorts, \$1.00.

Empress of India—Deep, rich crimson, shaded with maroon. One of the best.

Henry Patrick—Pure white. Beyond all question the finest.

Lucile—Color pure sulphur yellow; very profuse bloomer, being a mass of flowers during the season.

Mrs. Hortong—Light fawn, suffused with pink. very large and of exquisite form.

Nymphae—Light shrimp pink, shaded darker; a novel color and very beautiful. The Pink Waterlily Dahlia.

Scarlet Queen—Flowers of medium size, and when in full bloom a perfect blaze of color. Bright scarlet.

GERANIUMS.

FINEST DOUBLE VARIETIES.

Price, 10c each; set of 7 sorts, 50c.

A. Fleurot—Dark garnet, with orange red marking. Very free.

Beaute Poitevine—Very large semi-double flowers, of a brilliant salmon color.

Bruant—Color bright vermilion red of the most pleasing shade. Six inches in diameter.

La Favorite—Snow white.

Mary Hill—The finest pure pink.

S. A. Nutt—Rich, dark crimson.

Madame Hoste—Flesh color, shaded with white.

GERANIUMS—Continued.

FINEST SINGLE VARIETIES.

Price, 10 each; set of 7 sorts, 50c.

Mrs. J. M. Garr—Trusses enormous, on very long stems; pure white throughout the season.

Monsieur Olombel—A most beautiful crimson scarlet, of fine size.

Mrs. E. G. Hill—Color clear salmon, with a white center.

Sam Sloan—An extra fine velvety crimson.

Soliel Cochant—Large flowers of a yellow scarlet color.

Madonna—Upper petals creamy white, with a distinct rosy pink border; lower petals salmon rose, streaked with clear lilac.

Souvenir De Mirandi—Light pink; upper petals marked with white.



GERANIUM.

LADY WASHINGTON GERANIUMS,
OR PELARGONIUMS.

Price, 20c each; 5 sorts, 75c.

Dr. Masters—Rich crimson, with very large black blotches on both the upper and lower petals.

Madame Vibert—Blackish maroon, bordered with red, while the entire flower is edged with rose.

Mabel—Velvety pink, upper petals blotched blackish maroon, lower petals spotted with crimson lake.

Mad. Thiebaut—Blotched and marbled rose on white ground; upper petals marked with crimson maroon.

Mrs. Robert Sandiford—A new fluted and ruffled pure white variety. Flowers of grand size.

PETUNIAS.

NEW DOUBLE FRINGED.

Price, 10c each; 6 sorts, 50c.

Majestic—Clear silvery rose, marked with pure white.

Fantasia—Mottled crimson, purple and white.

Sultan—A beautiful self-colored variety, of a rich purple crimson color.

Champion—Beautiful rosy lilac; very distinct and a desirable variety.

Sea Foam—The finest double white; very floriferous.

Rosy Morn—Crimson splashed with pink and white; extra choice.

MISCELLANEOUS PLANTS.

ASPARAGUS.

Plumosus—One of the handsomest of our foliage plants. The leaves are a bright green, gracefully arched, and as finely woven as the finest silken mesh. Their lasting quality when cut is remarkable, retaining their freshness for weeks, hence it ranks as the most valuable plant we have for this purpose, surpassing Maidenhair Fern in grace, fineness of texture and richness of color. Price, 20 cents each; large plants, 40 cents each.

We issue a Catalog of Flowering Bulbs.
Free on request.

BEGONIAS.



BEGONIAS.

TUBEROUS BEGONIAS.

A grand class of bulbs, blooming continually throughout the summer, the flowers often being over six inches in diameter, and rival in color the most brilliant geranium flower. As a bedding plant out doors, or for pot culture in the house, these begonias can not fail to give satisfaction if given a partially shaded situation. Store the bulbs in the winter like dahlias. Single varieties in five different colors—white, pink, red, crimson and yellow—15 cents each; the set of five for 65 cents. Double varieties, 30 cents each.

REX BEGONIAS.

Grown for the beauty of their foliage. The leaves are large, variegated and margined with a peculiar silver-metallic gloss. The most ornamental of window plants; also useful in vases, baskets and wardian cases. We offer 20 of the most distinct and handsomely marked varieties, including Count Louis Erdody, and many other fine new sorts. 15 cents each; four for 50 cents.

FUCHSIAS.

Price, 10c each; set of 7 sorts, 50c.

DOUBLE VARIETIES.

Phenomenal—The largest fuchsia that grows. Tube and sepals bright coral red; corolla rich violet purple.

Storm King—Very graceful habit; bears double, white flowers.

White Giant—Tube and sepals bright scarlet; corolla large, double and waxy white.

SINGLE VARIETIES.

Earl of Beaconsfield—Tube and sepals rosy carmine.

Henry Brooks—Corolla rich plum color; tube and sepals crimson.

Black Prince—Sepals dark red; corolla rose vermilion.

Annie Earl—A beautiful new sort; corolla clear carmine; sepals waxy white.

COLEUS.

The best ornamental foliage plants for summer bedding. Their varied tints of crimson, gold, bronze and green, richly blotched, veined or margined, produce a brilliancy of color unequalled. Our collection embraces more than 25 beautiful ones, and customers can rely on getting only the best selection. 10c each; 16 plants for \$1.00.

Flowering plants not listed here will be priced on request.

MISCELLANEOUS PLANTS—Continued.

HELIOTROPES.

These plants are universal favorites on account of their delightful fragrance. Flowering equally well as bedding plants in the summer, or as pot plants in the house during the winter. Price, 10c each; 3 sorts, 25c; per dozen, 80c.

HYDRANGEAS.

Price, 10c each; 3 sorts, 25c.

Red Branched—A grand variety, producing flowers in immense trusses; color deep rose or cherry. The new growth is a deep reddish purple color, making it distinct from any other variety.

Thomas Hogg—Immense trusses of flowers, at first slightly tinged green, but afterwards becoming of the purest white and remaining so.

Otakea—A splendid variety from Japan. Flowers very large, bright pink, tinted blue and produced very freely; very desirable.

SALVIAS.

The grandest addition to our list of bedding plants. It forms a compact bush, completely covered with rich scarlet flowers. We have had plants that by actual measurement were only 15 inches high and two feet across.

Splendens—Flower spikes of the most brilliant scarlet. Grand in the fall. 10 cents each; 80 cents per dozen.

SMILAX.

A very graceful climber, having delicate and dense foliage and growing freely in any situation. Used largely in cut flower decorations. 10 cents each; 3 for 25 cents.

CHINESE PRIMROSES.

One of the best of all the plants we cultivate for winter flowers, and most worthy of recommendation for window gardening. They flower profusely, if given a cool place and sufficient moisture. We have a very fine selection of large flowering kinds in various shades of red, pink and white. Price, 10 cents each.

	Each.
Abutilons, 5 sorts	10c
Calla Lillies	15c
Cyclamen Persicum	20c
Lemon Verbena	10c

Mexican Primrose	10c
Moonvine	10c
Manettia Vine	10c
Marguerites	10c

	Each.
Oleanders, Pink and White	25c
Orange Otehaite	20c
Plumbago Capensis	10c

HARDY GARDEN PLANTS.

	Each.
Anemone Japonica, 3 sorts	10c
Coreopsis Lanceolata	10c
Dicentra (Bleeding Heart)	20c
English Primrose, Double White	15c
Daisy's Snowcrest	15c

	Each.
Helianthus Multiflorus Plenus	10c
Iberis (Hardy Candy-tuft)	10c
Iris Kaempferi	20c
Lilium Auratum	25c
Myosotis (Forget-Me-Not)	10c

	Each.
Pink, Her Majesty	10c
Plumbago, Lady Larpent	10c
Blue Spirea	10c
Paeonies, all colors	30c
Perennial Phlox	15c
Rudbeckia, Golden Glow	15c

Hardy Climbing Plants.

CLEMATIS.

Well known among hardy vines, bearing large and beautiful flowers of various shades of color through the greater part of the summer and fall. The most desirable climbers for trellises, porches and pillars.

Strong Plants, 75 cents each.

Duchess of Edinburgh—A free flowering, double, white variety, with medium-sized flowers.

Henry—Fine, large, creamy white flowers. A strong grower and very hardy.

Jackmanii—Intense violet purple, with a rich, velvety appearance, distinctly veined.

Miss Bateman—Pure white, with purple antlers.

Viticella Kermisena—Wine red, without a touch of purple.

Paniculata (New sweet-scented Japan Clematis.) A vine of very rapid growth, quickly covering trellises and arbors with handsome, clean, glossy green foliage. The flowers are of small size, pure white, borne on immense sheets, and of a most delicious and penetrating fragrance. These flowers appear in September, at a season when very few other vines are in bloom. 25 cents. Extra strong two-year-old plants, 50 cents each.

HONEYSUCKLE.

For a cheap, hardy robust yet lovely vine, it is the chief stand-by. 15 cents each; large plants, 30 cents.

PANSIES.

These lovely flowers, favorites with every one, are too well known to need any description. The plants which we offer are raised from the finest strains of seed, and persons purchasing from us have the assurance that they are getting the best that can be had. 5 cents each; 40 cents per dozen.

VIOLETS.

Of all the delightful perfumes that of the sweet violet is the most delicate and pleasing, and places this modest flower among our greatest favorites. They commence to bloom as soon as cool weather comes in the fall and if protected by a frame will continue flowering all winter and spring. All are perfectly hardy without protection and if so treated produce thousands of fragrant flowers after spring opens up and until warm weather sets in. Price 10 cents each; 6 for 50c.

LILY OF THE VALLEY.

One of the most charming spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. It will thrive in any common soil, and will do well in shady situations where few other plants will succeed. 5 cents each; 50 cents per dozen.

MAMMOTH VERBENAS.

The Verbena is, next to the Geranium, the most popular of all bedding plants. They commence to flower and spread the first day the plants are set out, and continue growing more beautiful until late in the fall. The new mammoth strains are noted for their robust growth and immense flowers. The colors range through the different shades of blue, pink, scarlet, white, purple, crimson and some variegated. Price, 10 cents each; 75 cents per dozen.

GLADIOLUS.

The Gladiolus deserves a place in every garden, large or small, needing but little room and being of the easiest possible culture. The immense spikes of gorgeous bloom comprise, in color, all shades, from white to deep scarlet, purple and yellow. 5 cents each; 35 cents per dozen.

VIRGINIA CREEPER.

(Ampelopsis Quinquefolia.)

Pre-eminently one of the very finest ornamental climbers and really worthy of extensive planting; a strong, rapid grower, adapted to any locality or soil, and perfectly hardy; very tenacious, clinging firmly to stone, brick or wooden walls, and especially valuable for disguising unsightly objects, or running over verandas, porches, trunks of trees, etc.; large dark green foliage, changing in autumn to brilliant scarlet and orange. 15 cents each. Extra large plants, 50 cents each.

ENGLISH IVY.

15 cents each; large size, 30 cents each.

BOSTON IVY.

(Ampelopsis Veitchii.)

15c each; large size 30c each.

WISTERIAS.

For training over buildings, piazzas, verandas or trellises, the Wisteria is of superior excellence, and the decorative features which their long, graceful blossoms afford make a particularly pleasing effect. They are entirely hardy, rapid growers, and easy to cultivate.

Chinese Blue—Immense clusters of blue flowers in the spring. Sometimes gives a second crop in the fall. 25 cents each; large plants, 50 cents each.

Chinese White—Like the preceding, but having pure white flowers. Large plants 50 cents each.

SEND FOR OUR COMPLETE CATALOG OF TREES, SHRUBS, ETC.

Standard Flower Pots and Saucers.



- | | | |
|-----------------------------------|---------------------------------------|--|
| 2 inch, each, 3c; per dozen, 20c. | 6 inch, each, 3c; per dozen, 85c; | 9 inch, each, 18c; per dozen, \$1.80; |
| 3 inch, each, 4c; per dozen, 35c. | with saucers, \$1.20. | with saucers, \$2.50. |
| 4 inch, each, 5c; per dozen, 45c; | 7 inch, each, 12c; per dozen, \$1.10; | 10 inch, each, 30c; per dozen, \$3.00; |
| with saucers, 70c. | with saucers, \$1.45. | with saucers, \$3.75. |
| 5 inch, each, 6c; per dozen, 55c; | 8 inch, each, 14c; per dozen, \$1.45; | 12 inch, each, 50c; per dozen, \$5.00; |
| with saucers, 90c. | with saucers, \$1.75. | with saucers, \$6.00. |

Vegetable Plants and Roots.

We grow large quantities of vegetable plants and roots, and can supply all the varieties listed below in their proper season, in any quantity. Our plants are all hardy, transplanted, and well-rooted. We can send them by mail or express without injury.

Per Dozen. By Express
Postpaid. Pr 100 Pr 1000

Cabbage—

Early varieties	\$0.20	\$0.50	\$3.50
Medium early varieties.....	.20	.50	3.50
Late varieties .....	.15	.40	3.00

Cauliflowers—

Early Snowball .....	.25	1.00	7.00
Extra Early Dwarf Erfurt.....	.25	1.00	7.00
Late varieties20	.75	5.00

Celery—

All varieties20	.65	4.50
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Celeriac

	.25	1.00
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Tomatoes—

All varieties25	.85	5.50
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Tobacco

	.25	.80	5.00
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Kale

	.20	.60	3.50
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Brocoli20	.75	5.00
Brussels Sprouts20	.60	3.50
Egg Plant25	1.00
Pepper25	1.00
Sweet Potato Plants.....	.30	.85	5.50
Chives (Schnittlauch) .....	.25c per bunch		

The following prices subject to stock unsold:

Per Dozen. By Express
Postpaid. Pr 50 Pr 100

Asparagus—

One year old plants.....	\$0.20	\$0.50	\$0.75
Two year old plants.....	.25	.75	1.25
For varieties, see page 2.			

Hop Vines

	.25	.60	1.00
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Horse Radish Roots.....

	.25	.60	1.00
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Rhubarb Roots—

One year old60	2.00	3.00
Two year old	1.00	4.00	6.00

If wanted in larger quantities, write for special prices.

NURSERY STOCK

Fruit and Ornamental.

We are prepared this season to supply all kinds of fruit and ornamental trees and shrubbery that is strictly first-class, carefully selected and well rooted.

OUR STOCK is grown near Portland, and is taken fresh from the ground when ordered, thereby insuring greater success in transplanting.

Following is a price list only. Our nursery catalog will be mailed free to any one who sends for it.

Remember these prices are for No. 1 stock.

Shade, Nut and Ornamental Trees.

Prices vary according to specimens.

- Almonds, Soft Shell—3 to 10 feet, 25c to 50c each.
- Almonds, Hard Shell—3 to 10 feet, 25c to 50c each.
- Beech, European—4 to 10 feet, 60c to \$1.00 each.
- Beech, Purple—4 to 10 feet, \$1.00 to \$2.00 each.
- Birch, White—6 to 10 feet, 40c to 75c each.
- Chestnuts, American Sweet—4 to 10 feet, 50c to 75c each.
- Chestnuts, Italian—4 to 10 feet, 75c to \$1.50 each.
- Chestnuts, Horse, Red Flowers—6 to 10 feet, 50c to \$1.50 each.
- Chestnuts, Horse, White Flowers—6 to 10 feet, 50c to \$1.00 each.

- Catalpa, Speciosa—8 to 12 feet, 50c to \$1.00 each.
- Dogwood, American—4 to 12 feet, 25c to 75c each.
- Elm, American White—8 to 12 feet, 50c to 75c each.
- Elm, Cork Bark—8 to 12 feet, 50c to 75c each.
- Lindens, American—6 to 10 feet, 40c to 75c each.
- Lindens, European—6 to 10 feet, 50c to \$1.00 each.
- Locust, Honey—8 to 10 feet, 50c to 75c each.
- Maples, English—6 to 10 feet, 50c to 75c each.
- Maples, Norway—6 to 12 feet, 50c to 75c each.
- Maples, Soft—8 to 12 feet, 50c to 75c each.
- Maples, Sugar—10 to 12 feet, 50c to 75c each.
- Mountain Ash—4 to 10 feet, 35c to 75c each.
- Pecan—6 to 10 feet, 50c to 75c each.
- Poplar, Lombardy—8 to 12 feet, 40c to 50c each.
- Poplar, Carolina—8 to 12 feet, 40c to 50c each.
- Walnuts, English—3 to 12 feet, 25c to 75c each.
- Walnuts, Black—3 to 12 feet, 25c to 75c each.
- Willows, Weeping—6 to 10 feet, 50c to 75c each.

GRAFTED HOLLIES.

That have red berries.
Grafted, 1 foot high, \$1.50; 2 feet, \$2.50; 3 feet, \$3.50.
Seedling, 1 foot high, 75c; 2 feet, \$1.25; 3 feet, \$1.75.

ROSES.

We have a large stock of choice, 2-year-old rose bushes. Order at any time, from October to June. Prices range from 30c to 50c each, according to size. Order any variety you want.

HEDGING PLANTS.

Privet, per 100 plants, \$5.00.

NURSERY STOCK—Continued

For descriptive list of different varieties send for complete nursery catalog.

Order any variety you wish of the following:

APPLES.

One year.....each, 20c; per 10, \$1.50
Two years.....each, 25c; per 10, \$2.00

CRABAPPLES.

One year.....each, 20c; per 10, \$1.50
Two years.....each, 25c; per 10, \$2.00

PEARS.

One year.....each, 25c; per 10, \$2.00
Two years.....each, 30c; per 10, \$2.50

CHERRIES.

One year.....each, 25c; per 10, \$2.00
Two years.....each, 30c; per 10, \$2.50

PLUMS.

One year.....each, 20c; per 10, \$1.50
Two years.....each, 25c; per 10, \$2.00

PRUNES.

One year.....each, 20c; per 10, \$1.50
Two years.....each, 25c; per 10, \$2.00

SUGAR PRUNES.

Limited supplyeach, \$1.50; 3 for \$4.00

PEACHES.

One year.....each, 25c; per 10, \$2.00

GRAPES.

One and two years.....each, 20c; per 10, \$1.50

Quinces.....One year, 25c; two years, 40c

Apricots.....each, 25c; per 10, \$2.50

STRAWBERRIES.

Dozen, by mail, 30c; 100, \$1.00; 1,000, \$4.00

Raspberries.....Ten, 60c; per 100, \$3.00

Gooseberries.....Ten, 75c; per 100, \$3.00

Currants.....Ten, 80c; per 100, \$5.00

Blackberries.....Ten, 75c; per 100, \$4.00

PRUNING TOOLS—Continued.



No. 12.

No. 12, with flat springs, 45c; postage, 15c.

No. 14, with spiral springs, 60c; postage, 15c.

No. 4665, 9-inch California pattern; German make, black finish, polished blade.



75c; postage, 15c.



No. 4665.

No. 4666, 9-inch, same pattern as 4665; bright finish, polished blade, spiral steel spring. Made for hard service. \$1.50; postage, 15c.



BRANCH SHEARS.

Twenty-six inch\$1.00

Forty-one inch1.25

PRUNING SAWS.

Duplex18-inch, 80c; 20-inch, 85c

California (curved blade.)75c

RAFFIA.

1 lb., 25c; 5 lbs., \$1.00

GRAFTING WAX.

Add 1c oz., if wanted by mail.

¼ lb. cake, 10c; ½ lb., 20c; 1 lb., 35c.

OREGON MOSS.

For use in hanging baskets and packing trees, shrubs, plants, etc., for shipping. Price, 1 lb., 4c; 100 lbs., \$3.00. Special prices to those who buy in large lots.

TREE LABELS.

Painted70c per 1,000

Painted, wired\$1.00 per 1,000

Unpainted60c per 1,000

Unpainted, wired90c per 1,000

GARDEN TROWELS.

First-class garden trowels with 6-inch steel shank, hardwood handle. Price, 20c; postpaid, 25c.

WEEDERS.

Diamond shape, steel blade, with wood handle. Handy, strong and durable. 15c; postpaid, 25c.

FLORAL SETS.

This useful little set contains one 9-inch fork, one hoe, one rake, and one garden trowel, made of the best steel and mounted on polished rosewood handles. Good value. Just the thing for the ladies. Complete set, packed in box. \$1.00; postpaid, \$1.20.

Pruning Tools.

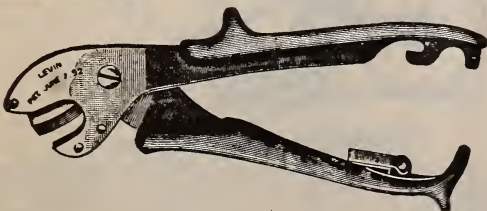


Waters' Improved Tree Pruners. This pruner is indispensable in trimming up trees. Price, with—

8 Foot Handle\$1.00

10 Foot Handle1.10

12 Foot Handle1.25



No. 23.

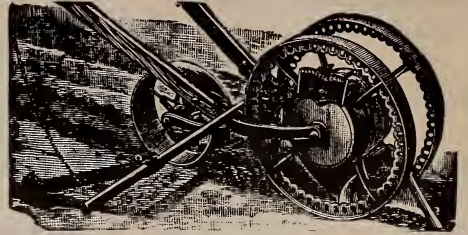
THE LEVIN PRUNER.

Cuts clean; does not mash the twig. No. 23 cuts ¾ inch. Price, 75c; postpaid, 85c

Far-Famed "Planet, Jr." Garden Tools.

These are the most popular and complete garden tools made. They are known the world over, and beyond question are the most perfect in design, construction and finish, and most practical yet invented. No wide-awake farmer or gardener can afford to be without them. Space will not permit illustrating and describing all of the "Planet Jr." tools, but we will gladly send a fully illustrated catalogue to any who desire it.

DO NOT class the Planet Jr. Goods with the many lines of Garden Tools on the market at a lower price, as there is no comparison when it comes to material and workmanship.

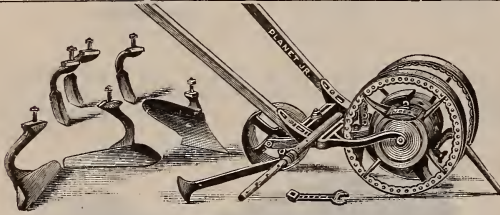


No. 2 Drill Seeder. Price, \$7.50.

"Planet, Jr." No. 1, Combined Drill, Seeder and Wheel Hoe, Cultivator and Plow. Price, \$9.50.

This has long been the most popular combined tool made. As a seed sower it is the same as No. 2 Drill Seeder, but smaller. From a drill, it is changed to its other uses by removing two bolts, when hoes, etc., can be quickly attached. It is an excellent seed sower, a first-class double or single wheel hoe.

A pair of 6-tooth rakes supplied when specially ordered. Price, \$1.00 extra.

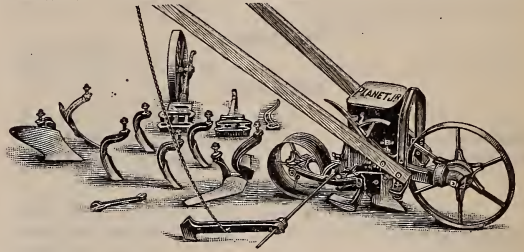


No. 25 Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator, Rake and Plow. Price, \$13.50.

1 1/4 inch wheels. Hopper holds 2 1/2 quarts.

It practically combines in one tool the No. 4 Drill and No. 12 Double Wheel Hoe.

As a drill it is almost identical with the Planet Jr. No. 4 Drill; will sow in drills or hills, 4, 6, 8, 12 or 24 inches apart, and has the same feed, hill dropping mechanism and automatic device for throwing out of gear and the new combined cut-off and seed index with brass thumbscrew adjustment. It is thoroughly substantial and is accurate in sowing all kinds of garden seeds in either hills or drills.



No. 4 Combined Hill and Drill Seeder and Wheel Hoe Cultivator and Plow. Price, \$10.50. Drill only \$8.50.

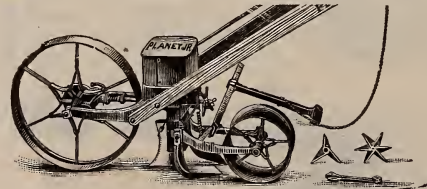
This admirable tool combines in a single convenient implement a capital hill dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and as a seeder is like the No. 5, sowing in continuous rows, or dropping in hills at five different distances. It is thrown out of gear by simply raising the handles. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe, garden-plow or cultivator. It is useful almost every day of the season, at every stage of garden work. With this one implement the small farmer can do practically all the work in his small crops.

A set of three rakes supplied when specially ordered. Price, \$1.00 extra.



No. 3 Hill and Drill Seeder. Price, \$10.50.

Hopper holds three quarts; 15-inch patent steel driving wheel, with broad face, which makes the drill run easily, even when full. The quantity of seed is regulated by an accurate index, conveniently placed at the top of the handle, and carefully graduated for either hill dropping or drilling. The flow of seed is started or stopped by a single movement of the forefinger. The roller is broad and hollow-faced, leaving a wide, smooth track for the wheel hoe. It is extremely simple, and will not injure the most delicate seed.

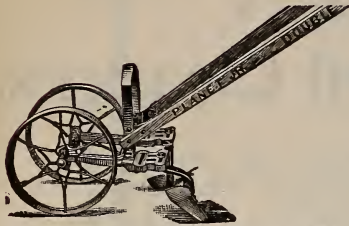


DOUBLE WHEEL HOES.

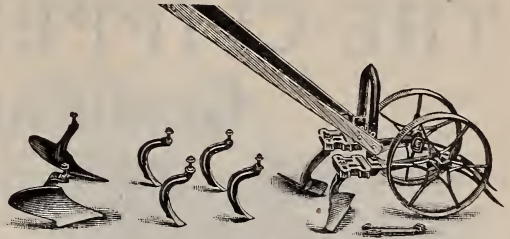
The Planet Jr." double wheel hoes are the greatest tool in the world for the gardeners. They do more work, and do it better and easier than can possibly be done in any other way. They represent the very highest perfection in every detail.

No. 11 Double Wheel Hoe, Cultivator, Rake and Plow. Price with attachments as shown in Cut, \$9.00.

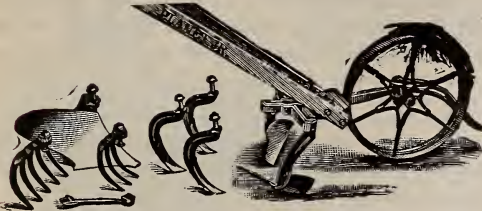




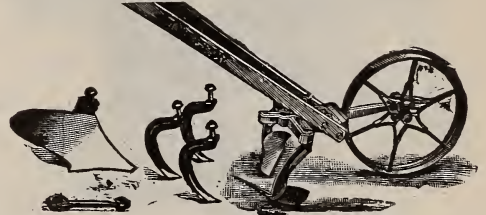
No. 13 Double Wheel Hoe, \$5.00.



No. 12 Double Wheel Hoe, \$7.00.



No. 16 Single Wheel Hoe, Cultivator, Rake and Plow. Price, \$6.00.

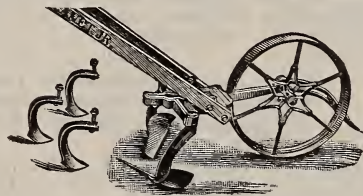


No. 17 Single Wheel Hoe, Cultivator and Plow, as in Cut, \$5.00.

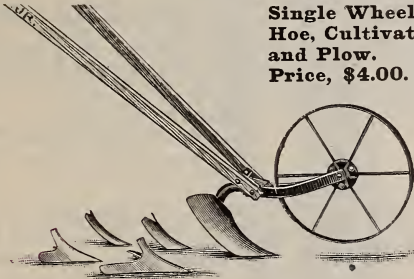
No. 17 1-2 Single Wheel Hoe and Cultivator. Price, \$4.50.

This machine is similar to No. 17, except it has no plow, but it has a leaf lifter. Thousands of them are sold annually for cultivating sugar beets and onions.

No. 18 Single Wheel Hoe, with pair Hoes only. Price, \$3.75.



Farmers' No. 19 Single Wheel Hoe, Cultivator and Plow. Price, \$4.00.



This new and attractive implement is especially designed for the Farmer's Garden Work, though it offers to everyone with either field or garden, a cheap and effective tool for all hand wheel hoe operations. The wheel is high and is made with stiff steel rim and spokes, the handles may be readily changed to suit man or boy.

The tools are as follows:

A Large Garden Plow of hard steel, smoothly polished, throwing a neat furrow.

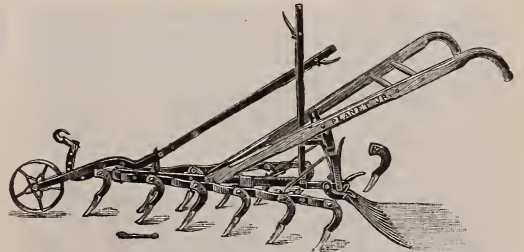
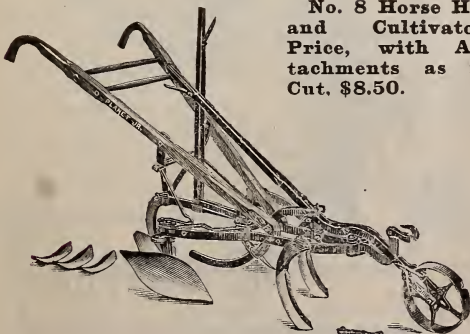
Ten Inch Sweep. This is the latest and best pattern, is thin and is a perfect weed killer.

Six Inch Sweep. Same pattern as the ten-inch.

Four Inch Cultivating Tooth. For deep cultivation and for all thorough work.

Two Inch Cultivator Tooth. For still deeper work and for marking out for onion sets, etc.

No. 8 Horse Hoe and Cultivator. Price, with Attachments as in Cut, \$8.50.



Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer. Price, Plain, \$6.00; with Wheel, \$7.00; Complete, \$8.50.

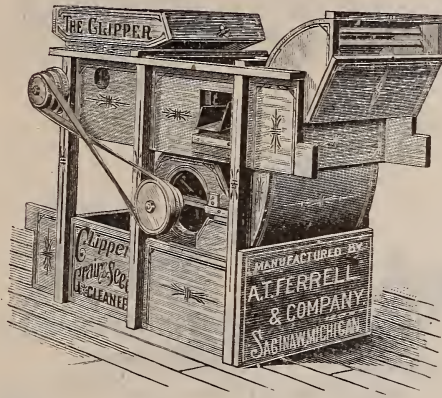
The Planet Jr. Horse Hoe is by far the best machine of its kind on the market. It is adapted to every kind of cultivation and a great variety of work.

REMEMBER this list is ONLY PART OF WHAT WE CARRY IN STOCK.

Write for our handsome complete Catalogue of Planet Jr. Goods. Free.

THE CLIPPER

Grain and Seed Cleaners.



"THERE ARE OTHERS"
BUT NOT LIKE THE
CLIPPER.

The "Vertical Blast"—a distinctive feature of our machines—has won for the "Clipper" the highest testimonials from hundreds of the most prominent grain and seed dealers and growers in the world.

We have sold over three carloads of these cleaners in Oregon and Washington during the past two years and they please the people. Can't help it.

THEY ARE GUARANTEED TO DO THE WORK CLAIMED OR MONEY REFUNDED.
A set of Ten Zinc Screens made especially for our Western grain and seeds go with each Mill. You can separate cheat, cockle, wild oats, dog fennel heads, etc. from wheat and oats in one operation.

PRICES.

- No. 1—\$30.00. Capacity about 40 Bushels market wheat per hour.
No. 2—\$35.00. Capacity about 50 Bushels market wheat per hour.
No. 6—\$85.00. Capacity about 250 Bushels market wheat per hour.

A FEW WORDS OF PRAISE.

St. Anthony, Idaho, March 15, 1901.

E. J. Bowen, Esq.

Dear Sir:—After trying several Fanning Mills, claimed to be especially fitted and made for the Pacific Coast trade, and having no success, we purchased a "Clipper." After we got your machine, we were able to take wheat that the mill we had been experimenting with would not clean at all, and put it into first-class shape. For a wheat cleaner and separator, the "Clipper" is by far the best that we have seen. As a seed cleaner, it has no equal. We have had occasion to run through over 250,000 pounds of wheat and have been able to do excellent work in every instance. We have cleaned a great many tons of Timothy and Alfalfa seed and find it in every way satisfactory. (Signed.)

MILLER BROS.,
Grain and Produce Dealers.

Beaverton, Ore., Sept. 30, 1901.

Mr. E. J. Bowen.

Dear Sir:—The No. 1 "Clipper Mill" that I purchased of you some time ago has given entire satisfaction. I am especially pleased with its capacity for separating grains, such as wheat from oats and oats from wheat.

(Signed.) H. P. DOWNING.

Amity, Ore., Sept., 17, 1901.

Mr. E. J. Bowen.

Dear Sir:—The Clipper Fanning Mill I bought of you some time ago, has given entire satisfaction. I do not think it has an equal when it comes to cleaning grass seeds of all kinds, and I have found it to be one of the most perfect mills for cleaning seed oats. I cheerfully recommend it.

Yours respectfully,
(Signed.) W. H. McELDOWNEY.

P. S.—You can add anything to the above that you wish and I will stand by it.—Mc.

If further interested, you are cordially invited to write us for our descriptive catalogue of this successful cleaner.

Canby, Ore., September 14, 1901.

Mr. E. J. Bowen,

Dear Sir:—The Clipper Grain Cleaners that I have been selling for you, are giving the best of satisfaction. Each and everyone of my customers say the "Clipper" is the best and only first-class mill on the market. This, I can assure you, is a pleasure to a dealer. I do not hesitate to recommend the "Clipper" as being the best grain cleaner on earth.

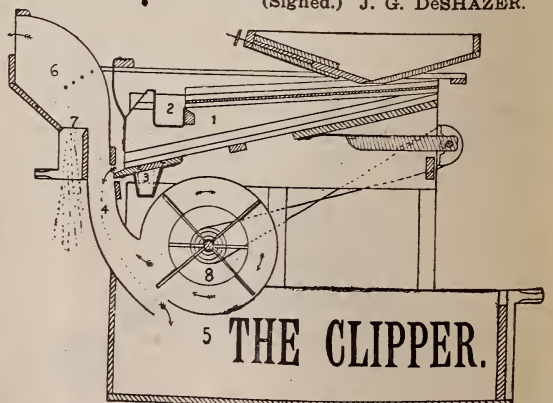
Respectfully yours,
(Signed.) ANDREW KOCHER.

Flrwood, Ore., Sept. 27th, 1901.

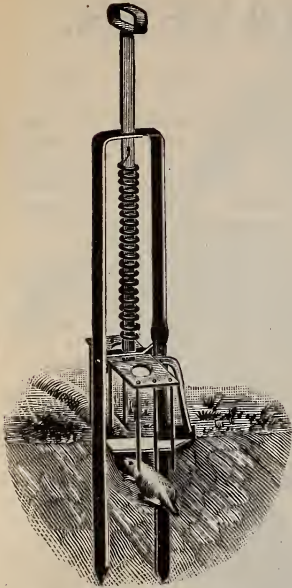
Mr. E. J. Bowen.

Dear Sir:—The No. 1 "Clipper Mill" that I bought of you separates wild seed from the grain the best of any mill I ever ran.

(Signed.) J. G. DeSHAZER.



Sectional view of the Clipper, showing vertical air shaft, dust hood and grain box—special features of this mill.



Reddick Mole Trap

In the early part of the season the mole run shows above the ground, and all that is necessary is to press on the runway with the heel, closing it for a few inches, and set this trap directly straddle of the run. Full directions with each trap.

NO MOLE CAN PASS UNDER IT AND LIVE. These traps are strong and durable, and worth the price to any one troubled with moles. Price, \$1.00.

DEAD LOCK GOPHER AND MOLE TRAP.

It is adjustable and is set in runways. Simple in construction, sure in its work.

Price, 25c. postpaid; 30c. by express, \$2.00 doz.



Hand Corn Planters

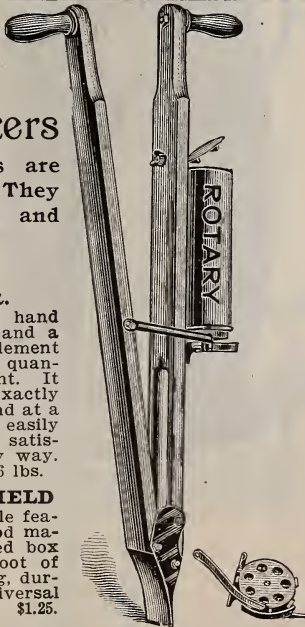
These Planters are a great success. They save seed, time and labor.

ROTARY CORN PLANTER.

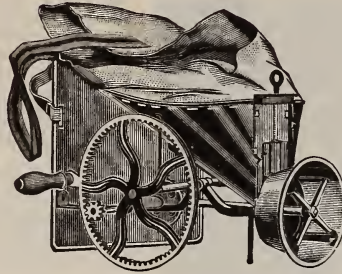
Decidedly the best hand corn planter made, and a very desirable implement for those who have a quantity of corn to plant. It puts the corn exactly where you want it and at a proper depth. It is easily worked and a most satisfactory tool in every way. Price, \$1.50. Weight 6 lbs.

KING OF THE FIELD

Has no objectionable features; is made of good material. Has iron seed box and iron channel; foot of polished steel. Strong, durable, and gives universal satisfaction. Price, \$1.25. Weight 5 lbs.



Broadcast Seed Sowers



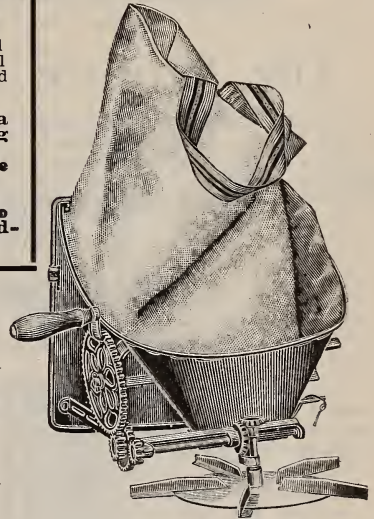
Improved Cahoon

This is probably the most popular broadcast sower on market. They have a force feed and throw the seed from 15 to 36 feet, according to weight.

IMPROVED CAHOON—Price \$4.00.

We catalog three of the most practical and successful broadcast seed sowers made.

They are a great saving of time and seed and are well worth the price to any one who has any seedling to do.



The Granger

Considered by some to be a better machine than the above. It throws the seed straight out before the operator instead of up. Capacity, 22 quarts.

Price, \$3.50.

The Granger.

New Premier

A strong, neat, compact seed sower for sowing any kind of seed or grain. The best low-priced hand seed sower on the market. Superior in every way to the so-called cheap sowers.



NEW PREMIER—Price \$1.50; by express, prepaid, \$1.75.

For full list of Poultry Supplies see last section of Catalogue, commencing at page 78.

SPRAY PUMPS AND SPRAYERS.



On the following pages you will find descriptions and prices of the Latest Improved Spraying Outfits.

This illustration shows the usual method of mounting the outfit for general orchard spraying. Two or more extra barrels of spray may be carried in the wagon to supply the pump. When the foliage on the trees is high above the ground, it will be found convenient to use extension pipes or a long hose, to which the nozzle may be attached. By this means the spray can be guided to any part of the tallest trees.

This year we have added a new line of pumps to our list, those manufactured by the Field Force Pump Company, who have spent over 20 years in the spray pump business. Their spray pumps come to us very highly recommended by Eastern fruit growers, and we are sure they will prove of equal value to our customers.

Spraying is no longer an Experiment but a Science.

The Empire King

Has an Automatic Mechanical Agitator, an Automatic Brush for keeping Strainer clean; Seamless Brass Cylinder $2\frac{1}{2}$ inches inside diameter, 8 inches long, with Solid Brass Plunger and Rod, Brass Valves without leather or rubber, and Brass Screw Spout with stop cock. The Agitator works in connection with cogs from the lever, connecting with a companion gear at the upper end of the steel shaft: at the lower end of the shaft is a horizontal wooden bar, to which are attached two upright paddles. Thus when the lever is moved upward or downward these paddles travel in a semi-circle in bottom of cask and PREVENTS THE POISON FROM SETTLING.

The Pump has a fine Brass Strainer at bottom of suction pipe. It also has a BRUSH on the agitator arm which swings under the suction strainer and keeps it clean. Hence no clogging of pump or nozzles.

This Pump has a long lever, works easily and is GUARANTEED IN EVERY RESPECT.

The air chamber is large which insures an even flow and the STOP COCK on the spout is a valuable feature of this Pump. Weight not including barrel, 55 pounds.

PRICES.

Empire King Pump with double or single brass spout for one or two leads hose, shut-off cock, suction pipe, brass strainer, no hose, no nozzle, no barrel. \$15.00.

To the above price add price of the spray nozzle or nozzles and amount of spray hose wanted, also extension pipe if wanted. See prices on following pages. This is the most satisfactory way, as few people want exactly the same outfit.

We put coupling on the hose free of charge and see that everything is right before it goes out.



EMPIRE KING. NO. 63.

Parma, N. Y., Oct., 12, 1899.

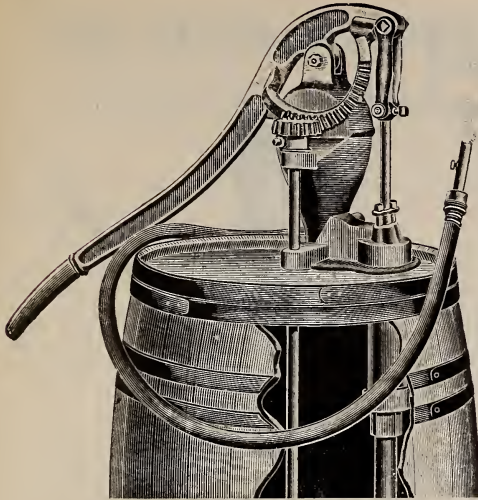
Field Force Pump Company, Lockport, N. Y.:

Last spring I purchased an Empire King Spray Pump and had it fitted with the Dewey nozzles, and the brush to keep suction pipe screen clean, and I must say that the entire outfit did splendid work without clogging once. The brush is a great addition and the Dewey nozzle stands at the head. Yours truly,
THOS. BRECKENRIDGE.

Hollowell, Maine, May 19, 1899.

Field Force Pump Company—

I have used one of your Empire King Pumps for the last four seasons, and it has given perfect satisfaction. I make a business of spraying, and have sprayed for more people and in more orchards than any man in Maine, and I claim that the Empire King is the only pump that can be worked all day without burning more or less trees. I make this statement from actual experience.
D. BLAKE.



EMPIRE QUEEN, FIG. 62.

The Empire Queen

With automatic mechanical agitator. This pump has a seamless brass cylinder two inches inside diameter and eight inches long, brass plunger, with leather bucket, brass lower valves, and brass rod, also a brass screw spout to which hose is attached by a screw coupling. It has a large air chamber, by means of which the spray is strong and continuous.

The agitator, brass strainer, suction pipe and brush on agitator arm is same as shown in the Empire King. This pump works easily and is guaranteed in every respect. Weight complete, as above, 45 lbs.

Price of Fig. 62, as described above, no hose, no nozzle, no barrel, \$10.00.

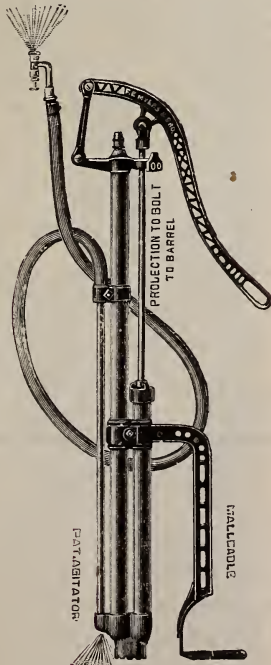
For spray hose, nozzles, etc., see prices on following pages.

No. 324.

This pump has all the advantages of the ordinary barrel pump and bucket pump combined, and is sold at a moderate price. Has one-half more air chamber than any other make of bucket pump. Is made of brass with ball valves; handle and foot rest are malleable iron.

The work is all done on the down stroke of the handle, and it can be operated with one-third the power required for any other old style bucket spray pump.

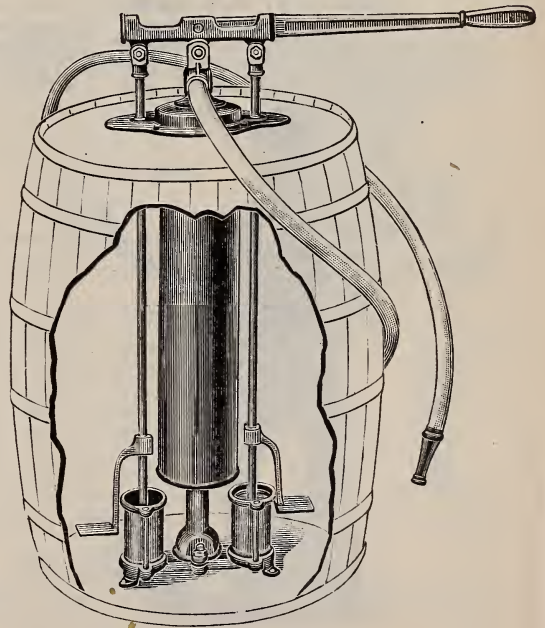
When used as a barrel pump, detach the foot rest and attach pump to top of barrel.



Price of No. 324.

With agitator, complete with hose and Vermorel fine, coarse or solid stream nozzle. \$4.50.

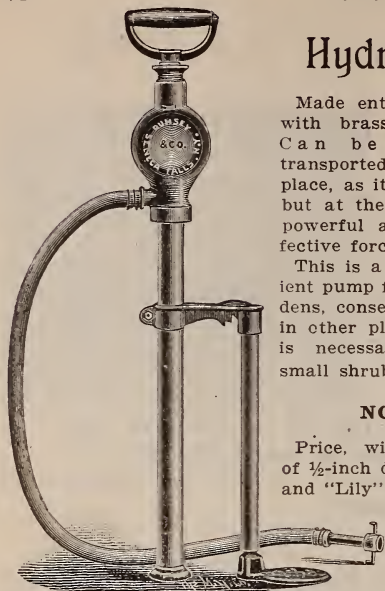
RUMSEY'S DOUBLE CYLINDER SPRAY PUMP.



No. 393.

This pump combines all the necessary features to make a simple, practical and perfect spray pump. All the working parts are of brass, the valves are metal and cannot get out of order or be injured in any way by the liquid used. The air chamber is made of brass and has a larger capacity than that on any other spray pump made; it will hold sufficient compressed air to keep the spray going from six to ten minutes after the pump is stopped. The agitators are placed so that they keep the liquid thoroughly stirred and without requiring any extra work to do it. The plungers can be easily removed and packed by a farmer without the necessity of employing a skilled mechanic or of taking the pump to a shop where special tools are required.

Price, No. 393, with three feet hose and "Lily" nozzle, \$14.00.



NO. 663. HYDROPULT.

Hydropult.

Made entirely of brass with brass ball valves. Can be conveniently transported from place to place, as it is very light, but at the same time a powerful and most effective force pump.

This is a most convenient pump for use in gardens, conservatories and in other places where it is necessary to spray small shrubs, vines, etc.

NO. 663.

Price, with three feet of $\frac{1}{2}$ -inch discharge hose and "Lily" nozzle, \$4.50.

THE "LITTLE GEM."

This pump is made entirely of brass, including the working parts, discharge and connecting tubes, plunger, rod and air chamber; so that all parts (except the rubber hose) that come in contact with the fluid are of brass, making it practical for using any spray.



NO. 53. LITTLE GEM.

It is supplied with our "Niagara Nozzle," which throws a fine misty spray, using only a small amount of liquid. It has two feet of hose, to which is attached a metal hand tube, and to this the "Niagara Nozzle" is screwed. This nozzle is nicely graduated by means of a small handle, and will throw a spray of any degree of fineness, or a round stream to a distance of fifty feet. It is also furnished with a shut-off cock.

The large capacity of the air chamber and the length of cylinder, together with the power of the inflating valve, enables it to throw a continuous stream or a steady spray.

This pump is neat in design, very compact, strong and durable—nothing liable to get out of repair or wear out. Weight of the pump, complete, boxed for shipment, is 7 pounds.

There is no Pail Pump on the market equal to the Little Gem. Price with 2-foot hose, nozzle and foot stirrup, \$3.00.

The Aquaject, or Fire Annihilator.



NO. 267. THE AQUAJECT.

Cut No. 267 shows the practical operation of our new and improved Portable Aquaject, the most perfect and effective hand apparatus ever invented for throwing water. All working parts liable to rust or corrosion are made of brass. For washing windows and carriages and showering gardens or conservatories it has no equal. It is adapted for throwing liquid solutions of all kinds to destroy noxious insects and bugs of every nature on plant, vine or tree, and should be kept in every house, store or factory in the country for fire protection. In fact, in a diminished degree, it is capable of every use of an ordinary force pump, and far more convenient. It is always ready for use and not liable to get out of order. Will throw water at the rate of eight to ten gallons per minute to a height of fifty feet or more.

With each pump is sent suction and discharge hose connected, so that it requires no labor to put it in immediate operation. Longer lengths of hose can be furnished if desired.

Price of No. 267.

With three feet suction and three feet discharge hose, brass discharge pipe and rose sprinkler, \$5.00.

BIG OUTFITS.

Space will not permit us to show cuts of all the large truck or cart sprayers, but we will gladly send Spray Pump Catalog showing cuts and giving descriptions of them to all who are interested. Send for it. You may find just what you want.

AUTO-SPRAY.

A Self-Operating, or Automatic Sprayer.

This is a fine Sprayer for the Poultry Raiser, always ready or use.

Eight or ten strokes of the plunger in the air chamber will compress enough air to discharge the entire contents and make a continuous spray for fully five minutes.

The "AUTO-SPRAY" will do the work of five ordinary sprayers, as the operator carries the sprayer over his shoulder and as soon as one bush or vine is sprayed, moves on to another, whereas the ordinary sprayer has to be set on the ground and the operator has to stop to do the pumping for each separate bush. **THINK OF THIS LOSS OF TIME!** For green houses, either for giving plants a shower bath or for applying insecticides you need an "AUTO-SPRAY."

CAN BE USED

As a fire extinguisher.

For spraying carbolic acid to prevent hog cholera.

For spraying insecticides and whitewash in henhouses.

For spraying disinfectants in hospitals and other places to prevent the spread of contagious diseases.

For washing windows and wagons.

As a sprinkler for plants and flowers.

For sprinkling floors, taking the place of wet sawdust or the common sprinkler.

Make note of the simplicity of construction. See the plunger rod, the patent fastener at the top, the valves; they all can be taken apart in a few seconds without the use of a tool of any kind. The working parts are all brass, can't get out of order. There's no stopping or waste of spray, it is air- and water-tight. You can spray with your good clothes on.

Last year we sold over 500 of these sprayers. This year we expect to SELL SEVERAL THOUSAND.

THEY PLEASE THE PEOPLE.

THEY DO THE WORK CLAIMED OR YOU GET YOUR MONEY BACK. SEE OUR SPECIAL FREE OFFER BELOW.



USING AUTO-SPRAY ON BUSHES.

SPECIAL FREE OFFER.

To any one who will make up a club of four orders we will send one "Auto Spray," same kind, free of charge. This will give you five sprayers at the cost of four and the freight on five will not be any more than on one. A few hours' work will give you a free Auto Spray. Take advantage of it. Circulars and order blanks sent free.

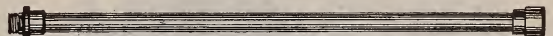
PRICE OF AUTO-SPRAY.

Galvanized Steel, all working parts brass with 2-foot 8-ply rubber hose, stop-cock, 1 fine, 1 coarse and 1 solid stream nozzle and shoulder strap, \$5.50.

Brass Tank with same parts as described above, price, \$7.00.

Size—The above sprayers are 2 feet long and 7 inches in diameter; weight, empty, 7 lb. Capacity, about 4 gallons.

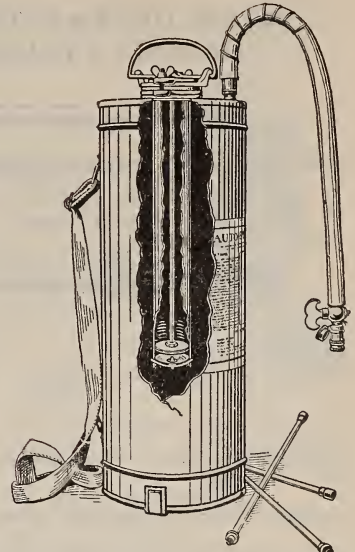
EXTENSION PIPES.



For spraying tall trees, we furnish extension piping in 24-inch lengths, each fitted with brass couplings. Two or three lengths are generally used.

Solid Brass, 35c. Galvanized, 30c.

Book on Spraying free on request



AUTO-SPRAY SHOWING WORKING PARTS.



AUTO-SPRAY AT WORK WITH EXTENSION PIPE FOR TALL TREES.

BRASS GREENHOUSE AND GARDEN SYRINGES.



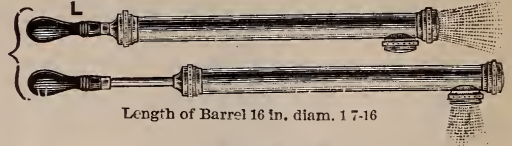
POLISHED BUT UNLACQUERED SYRINGES

One spray rose and jet, length 12 in.; diameter, 1 in.; price, \$2.00.
On spray rose and jet, length 13½ in.; diameter, 1 3-16 in.; price, \$2.50.



POLISHED AND LACQUERED SYRINGES.

Cone valves, one spray rose and jet. One side attachment; length, 18 in.; diameter, 1½ in.; price, \$5.00.
Length of Barrel 16 in., diam. 1 7-16.



Length of Barrel 16 in., diam. 1 7-16

L SYRINGE.

Open rose. The discharge is either in line with the barrel or at right angle to it, by changing the position of blank cap and rose; length, 16 in.; diameter, 1 7-16 in.; price, \$3.50.

New Era Tri-Jet Sprayer.

Galvanized: \$1.00; by Express, charges paid, \$1.25.

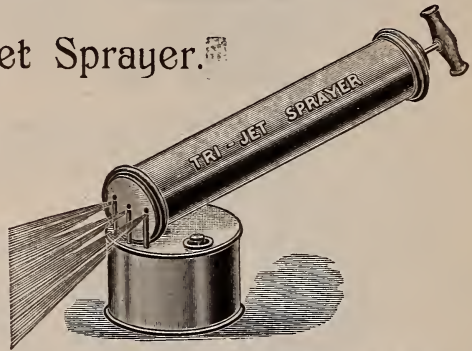
Brass: \$1.50; by Express, charges paid, \$1.75.

For spraying Vines, Shrubs, Plants and Cattle (to keep off flies), and the interior of Henneries, will save the price of the sprayer in a single day's use.

This sprayer embodies the principle of the ordinary atomizer and is new only in the application of same to a new use. The advantages are at once apparent to the user. It is the most economical, not only because of its low price, but because of its great saving of material. The saving in one day's use of spray will pay the first cost of the Sprayer.

One quart of liquid in this atomizer will cover, more effectively, a larger surface than ten quarts in the common sprayer or sprinkler. It is a great saving in labor, because when loaded, it weighs much less than any other and because the spray is easily made to reach six feet from the operator.

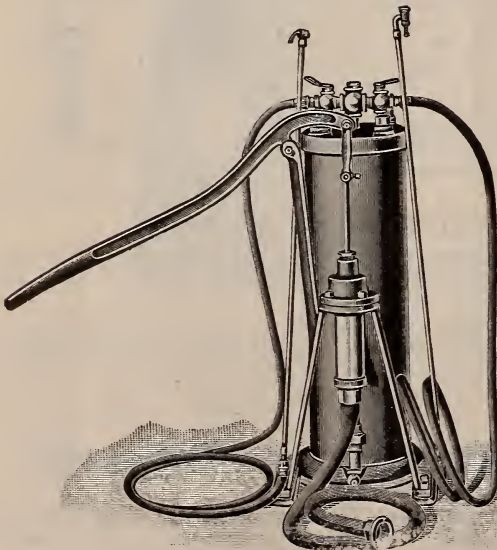
A careful comparison of the New Era Tri-Jet Sprayer, point by point, with other hand sprayers, is all that is needed to convince a man it is "The Best Hand Sprayer Made."



Why the New Era Sprayer Is Better than Others of Similar Construction:

- 1st—Because the reservoir is galvanized iron, and will not corrode or rust.
- 2d—Because the feeding tubes are zinc, and will not corrode or rust.
- 3d—Because the plunger is backed and reinforced by wood (not metal.)
- 4th—Because it has three openings and three times the capacity of the ordinary single jet sprayer.
- 5th—Because the sprayer is larger and will spray further.

The Niagara Hydraulic Spray Pump.



This apparatus is designed for spraying on an extensive scale, the air chamber being 10 inches in diameter and 30 inches long, and having a capacity of about 12 gallons. The operator may pump up a pressure of 130 pounds and can then give his entire attention to his nozzles, and to the work of directing the spray, as the above pressure is sufficient for five minutes' work with two Vermorel nozzles in use, or for ten minutes' work with but one nozzle in use, without further work on the pump lever.

The working parts are made of brass throughout, with brass valves and brass plunger. To reach the lower valves, you have only to unscrew the brass nut to which the suction hose is attached, and a common wrench is all that is needed for this purpose. The liquid is discharged into the bottom of air chamber with a rotary motion which serves to keep it agitated. A ¾-inch pipe extends downward from the top to a point ½ inch above the bottom of the air chamber, and is connected at the top with the discharge pipe, by this means all of the liquid is forced out of the chamber by the air pressure above it. A small brass cock is placed in the bottom of the air chamber by means of which the chamber can be drained. The base of this outfit is strong cast iron upon which all of its parts are assembled, and has screw holes for fastening to platform. It has no spring valves to become clogged and useless by the spray mixtures, but it is a strong, well made and durable pump, and is guaranteed in every respect.

Figure 80. Price with two shut-off cocks, connections for two leads of discharge hose, 6-foot suction hose and strainer, two nozzles and two extension pipes, all complete, \$34.00. If pressure gauge is wanted, add \$4.50 to above price.

TO OUR CUSTOMERS.

In the selection of Spray Pumps added to our Catalog this season, we believe we have selected a line of pumps that will fill the wants of all classes of sprayers, both large and small.

We are satisfied that no better line of Spray Pumps are offered—"price and quality considered," than what we list. For lack of space we have not catalogued our largest Spray Pumps, but a full description and price will be mailed to all who intend buying a Spray Pump of great power, if they will write us.

WOODASON'S LIQUID AND POWDER SPRAYER.

For powder, small size.....	\$1.50
For powder, large size.....	2.00
For powder, double cone.....	3.00
For liquid, small	1.50
For liquid, large	2.00

Spray Nozzles, Connections, Etc.

All fruit growers contend that the nozzle is the most important part of the spraying outfit. It must be arranged to throw a mist and not drops. By putting on too much material you damage the foliage.

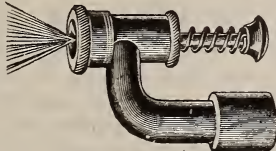
The best results are obtained by covering the entire surface and with just as little in one place as possible.

To do this we advise the use of the nozzles shown herewith.

IMPROVED VERMOREL NOZZLE WITH DEGORGER.

No. 35 is arranged with stuffing box, so that the liquid will not wet the operator while being used; fitted for 1/2 inch male end of 3/4 inch pipe. Each nozzle is furnished with 2 caps, with different sized openings for coarse or fine spray.

The above fitted for 3/4 inch hose. Price each, \$1.25.



BORDEAUX SPRAY NOZZLE.

Use This Nozzle for Whitewashing.

No. 36 will throw a fine fan-shaped spray and will readily free itself, should it become clogged, by turning the cock handle. It will throw a solid stream or may be shut off altogether, as desired. It is especially recommended for use in connection with the Bordeaux mixture.

Price each, \$1.00.

HOP NOZZLE.

No. 37 represents a nozzle especially designed for use in hop-yards, vineyards or any place where delicate vines are to be sprayed. This nozzle throws a very broad, fine spray. Fitted for 1/4-inch pipe or 1/2-inch male end.

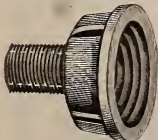
Price, each, \$1.50.



HOSE REDUCER.

No. 43 represents a hose reducer, used to reduce hose to 1/4-inch pipe. It is used to connect an ordinary hose coupling to pipe extension.

Price each, 25c.



No. 43.

Do Not Wait until the pump is needed before sending in your order. Order early. It is the early spray that kills the worm and prevents fungus.

DEWEY NOZZLE.

This Nozzle throws a fine rotary spray, has two caps one of which has a larger opening for orchard spraying. This is a very economical nozzle, in the use of liquids. Special attention is invited to the form of construction, it having no projections to catch on the limbs.

Price, 1/4-inch, \$1.00.



Fig. 89.

Y OR TWO STREAM HOSE CONNECTION.

No. 44, with 3/4 male ends and lateral discharges, either 3/4 or 1/2 inch, according to the pump on which it is to be used.

Price, each, 30c.

BRASS HOSE NIPPLES.

Price, each, 3/4 inch, 30c; 1 inch, 40c.

Extra length, tapped for agitator.

Price, each, 3/4 inch, 40c; 1 inch, 50c.

Lilly Nozzle—Each 50c

Globe Valve, for 1/4-inch iron pipe..... 75c

SHUT-OFF COCK.

Price, 1/4 in. Brass.....\$0.75

Price, 3/4 in. Brass..... 1.00

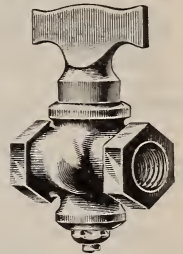
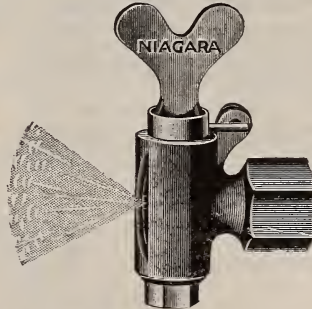


Fig. 74.

THE NIAGARA SPRAY NOZZLE.



Produces a fan-shaped spray, either fine or coarse, or throws a solid round stream. It is also provided with a Shut-Off Cock.

Notice the improved shape of the handles, nothing to catch on the limbs.

Price, \$1.00.

MALE END.

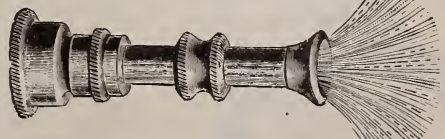
No. 42 represents male end for 1/2-inch hose, threaded to receive 1/4-inch pipe or any spray nozzle shown on this or preceding page.

Price, each, 30c.



No. 42.

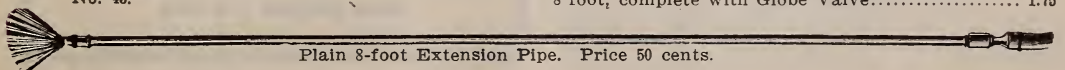
SPRINKLING NOZZLES.



GEM NOZZLE, adjustable, 60 cents each.
CRESCENT NOZZLE, adjustable, 50 cents each.
PLAIN NOZZLE, 50 cents each.

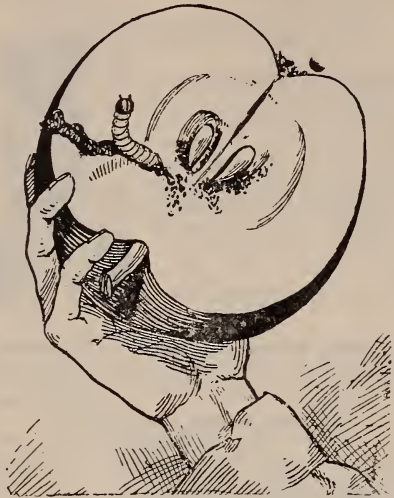
BAMBOO EXTENSION.

10 foot, complete with Globe Valve.....\$2.00
 8 foot, complete with Globe Valve..... 1.75



Plain 8-foot Extension Pipe. Price 50 cents.

SPRAYS AND SPRAY MATERIALS



DOES IT LOOK NATURAL?

Remember—"No Worms When You Spray."

Add 16c per lb. if wanted by mail. Liquids can not be mailed.

SPRAY NO. 1—SULPHUR, LIME AND SALT.

Prepared in solid form, ready to dissolve. For winter use, 1 lb. to 2 gals. of water; for summer, 1 lb. to 8 gals. of water. Price, 1 lb., 10c; 25 lbs., to 50 lbs., 5c per lb.; 100 lbs. or more, at 4c per lb.

SPRAY NO. 7—BORDEAUX MIXTURE.

We now have this invaluable remedy prepared in liquid form. Directions are attached to each can. One gallon of this condensed liquid makes 50 gallons of spraying liquid. It is BETTER and CHEAPER than the ordinary home-made mixture.

Qt., 60c; gal., \$1.50.

Bordeaux Mixture in solid form, ready to dissolve in water; winter, use 1 lb. to 2 gals. water; for summer 1 lb. to 4 gals. water. 1 lb., 10c; 25 to 50 lbs., 7c per lb.; 100 lbs., 6c per lb.

SPRAYING MATERIAL.

Prices subject to market changes.

- Arsenic, WhiteLb., 15c
- Sulphate of Copper (Bluestone) Lb., 10c; 3 lbs., 25c
- Paris Green.....½ lb., 20c; lb., 35c
- London Purple.....½ lb., 20c; lb., 35c
- Sulphur.....Powdered, 10 lbs., 25c; bag 110 lbs., \$2.25
- Whale Oil Soap.....Lb., 10c; 25 to 50 lbs., 5½c lb., 100 lbs., \$5.00
- Quassia Chips.....1 lb., 10c; 10 lbs. or more, 7c lb.
- Hellebore.....¼ lb. pkg., 15c; ½ lb., 25c; lb., 35c
- Tobacco Dust.....Lb., 10c; 10 lbs., 75c
- Tobacco Soap.....Postpaid, 25c cake
- Fir Tree Oil Soap.....½ lb. can, 25c; by mail, 35c

HAMMOND'S SLUG SHOT.



A well known remedy for all kinds of insect pests on vegetables, fruit and flowers. Non-poisonous.

1 lb. 15c; 5 lb. pkg. 50c.

ROSE LEAF.

Concentrated EXTRACT of TOBACCO. Very effective for destruction of plant lice. Directions on each can. Pts., 40c; qts., 60c; gal., \$1.75.

HAMMOND'S GRAPE DUST.

The best known remedy for mildew on roses, grapes and gooseberries. Apply with "Wood-ason" powder bellows.

1 lb., 15c; 5 lb. pkg., 50c.



KEROSENE EMULSION.

Used for Woolly Aphis and Clover Mite. Prepared ready for use.

One gallon makes fifty gallons ready for use. Per gallon can, \$1.50.

McBAIN'S CARBOLIC COMPOUND.

The Spray That Never Fails.

To prepare a spray of McBain's Carbolic Compound; no heating or boiling of water is called for. Dilute one gallon of the compound with 40 gallons of cold water for summer spraying, and one gallon of the compound with 25 gallons of cold water for winter use. Assimilation of the ingredients is perfect and instantaneous without agitation. No sediment forms and no troublesome clogging of nozzles delays application. No protection for the hands is needed while using. On the contrary, the Compound, like carbolic salve, will heal and cure any sores that may be upon them.

Prices: Pint can, 25c; qts., 40c; gal., \$1.25; 5 gal., \$4.00; by the barrel, 60c per gal.

Full Directions on Each Can.

WHAT IS GAINED BY SPRAYING?

Foliage is the lungs of the tree and vine and must be kept in healthy condition to secure profitable results, consequently by spraying we get not only LARGER CROPS OF FRUIT and BETTER QUALITY, but we add to the THRIFT and VIGOR OF OUR ORCHARDS and vineyards.

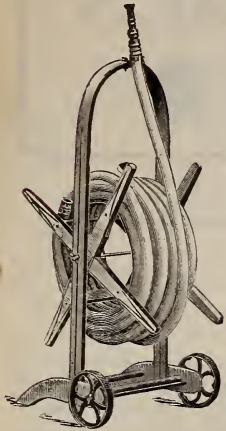
We are sure that the horticulturists of this great country cannot do anything that will more advance their individual interests and the horticultural development of this State than by putting this new art of Spraying into use in all their orchards and vineyards.

FOR

Cyphers Incubators
 Cyphers Brooders
 Humphrey & Sons' Bone Cutters
 and other Poultry Supplies

See pages 78-90.

Spray and Garden Hose.



Hose Reel, \$1.25.

In connection with our SPRAY PUMPS AND GARDEN TOOLS, we have added a complete line of the very best cotton and rubber hose, for garden and spray work. Our hose is made by one of the most reliable rubber companies and we guarantee it to be new rubber and just as represented.

All 50-foot lengths of hose include couplings at following prices. Prices on Suction, Wire Wound and larger hose, on application:

SEAMLESS RUBBER HOSE.

—Per Foot—

Brand—	½-inch.	¾-inch.
Competition , a cheap garden hose..	\$0.05½	\$0.06½
Garden , guaranteed for ordinary pressure .....	.08	.10
Columbia , guaranteed first-class.....	.10	.12
Niagara , three-ply, highest grade garden hose. Best value, fully guaranteed. Will do for spray pump of light pressure. ....	.13½	.15
Niagara , SPECIAL SPRAY HOSE. four-ply, made especially for high pressure spray pumps .....	.15	...
Sampson SPRAY HOSE , seven-ply, First-class hose for spray pumps. Good value .....	.13	...

SEAMLESS COTTON HOSE.

White Cotton , very serviceable and good value for the money.....	.07½	.09
D. B. Line , first-class, extra good value, guaranteed .....	.09	.10½
Phoenix , very best extra heavy cotton hose. Mildew proof.....	.12	.13

Adjustable Lawn Sprinkler, screws on to hose couplings, throws the water high or low, coarse or fine; very handy and convenient. Price, 25c.



Hose Couplings for ½- or ¾-inch hose, 20c pair.
Clamps to fasten COUPLINGS on with ½- or ¾-inch, 5c each.

Wire Bands for mending hose, 25c a dozen.
Plyers for putting the WIRE BANDS on, 25c each.
Mending Tube for joining hose together, 5c each.
Washers, rubber, for ½- or ¾-inch COUPLINGS, 10c a dozen.

Gem Repair Outfit, contains six Mending Tubes, six Wire Bands and a patent Plyer for fastening the bands: complete, 50 cents.

FERTILIZERS

DO YOU USE ANY?

If not, you should. Do not say it costs too much. If you use them intelligently YOU CANNOT AFFORD TO DO WITHOUT THEM. They will INCREASE YOUR CROPS ENORMOUSLY, and your vegetables will mature quicker.

The best results from the use of Commercial Fertilizers will be derived by those who apply them in the fall or early spring. It is very desirable that they be well mixed with the soil, otherwise they cannot be reached by the roots. No positive rule as to quantity can be given. The average amount is 400 or 500 pounds per acre, but market gardeners often use three or four times that amount and find that it pays.

VEGETABLE FERTILIZER.

This compound is prepared specially for potatoes, vegetables and garden truck, and is unsurpassed for bringing these crops to early maturity. 100-lb. sacks, \$2.50.

COMPLETE FERTILIZER.

An all-around fertilizer for ordinary farm and garden products. 100 lbs., \$2.50; ton, \$35.00.

FRUIT FERTILIZER.

This excellent fertilizer is made expressly for fruits. Its use for fruit trees, vines and shrubs of all kinds will be followed by a great improvement in the quality and increase in quantity. 100-lb. sacks, \$2.00; ton, \$35.00.

LAWN FERTILIZER.

For grass lands, lawns and flowers. This article has been specially prepared to meet the requirements of grass lands, and has been used on a great many lawns in and about this city with highly satisfactory results. Do not use barnyard manure on a lawn, for it will fill it full of weeds. This fertilizer will feed the roots better and bring in no weeds. 25-lb. sack, \$1.00; 50-lb. sack, \$1.50; 100-lb. sack, \$2.50.

HOP FERTILIZER.

This is an excellent manure, and is just the thing needed for the successful growth of hops. A trial will convince hop men of its value. 100 lbs., \$2.00; 500 lbs., \$8.50; ton, \$33.00.

SUPER-PHOSPHATE.

This is a first-class article of pure bone phosphate, and acts in a remarkably short time. 100 lbs., \$2.50.

PURE BONE MEAL.

We supply pure bone meal, finely ground, for use on crops of all kinds. Animal bone is a most valuable enricher of the soil and a crop producer, and is sure to pay well when used. 100 lbs. and upwards, 2c per lb.

Nitrate of Soda.....100 lbs. and upwards, 4c per lb.
Muriate of Potash.....100 lbs. and upwards, 4c per lb.
Sulphate of Potash.....100 lbs. and upwards, 4c per lb.
Kanit.....100 lbs. and upwards, 2c per lb.

For larger quantities of any of these Fertilizers, write for Special Quotations.

Armour's Odorless Flower Food.

A safe, clean and high-grade fertilizer, free from disagreeable odor, prepared especially for feeding plants grown in pots. It is a wonderful invigorator, producing luxuriant, healthy growth, foliage of rich texture and larger and more brilliant flowers.

It contains in a highly concentrated form all of the ingredients of plant food essential to the highest development of plants and flowers. It is very soluble and is readily assimilated, so that marked improvement is usually noticed in ten days' time. It is fine and dry, clean and easy to apply, either sprinkled over the surface of the soil as a top dressing or dissolved in water (stirring well). Detailed directions on each package.

Half-pound box, 25c; by mail, 35c.
 One-pound box, 50c; by mail, 65c.

TRY IT. A ONE POUND BOX WILL DO 25 PLANTS FOR ONE YEAR.



ALL PERSONS INTERESTED IN POULTRY KEEPING WILL FIND MANY THINGS OF GREAT VALUE TO THEM IN THE FOLLOWING PAGES.

REMARKS:

Do not forget that our stock of Poultry Supplies is the largest and only complete stock in the West. We are now the recognized headquarters for this line of goods. That we sold more Poultry Supplies last season than was ever sold in one season by any other house is a fact. When we issued our Catalogue, a year ago, we made the modest assertion that we would sell not less than six carloads of Poultry Supplies. Instead we sold about ten carloads more than any of our competitors did. That fact will be hard for them to comprehend. If anyone is in doubt about the amount and the quality of goods we handle, we give them a cordial invitation to come and look over our stock, inspect our supplies, learn our prices and talk over the Poultry business.

The people of the West are just awakening to the importance of the Poultry industry. Our shipment of four carloads of Cyphers' Incubators and Brooders a year ago was only a starter. We disposed of the original shipment long ago and ordered several shipments later. Our order for the season of 1902 is much larger than last year. Therefore if you want to buy of headquarters; if you want to buy the best, the latest improved and most up-to-date Poultry Supplies,—goods that are guaranteed, send your orders to us, and if our goods are not what they are represented to be, you can get your money back.

This is the secret of our success; for we positively will NOT handle any goods that are not what they are represented to be.

We are Pacific Coast Agents for

CYPHER'S
INCUBATORS AND BROODERS.
HUMPHREY'S
GREEN BONE AND VEGETABLE CUTTER.
PILLING'S
CAPONIZING INSTRUMENTS.
WILBUR'S
EGG FOOD, LOUSE KILLER, ETC.
PILLING'S
COPPER LEG BANDS.

Manufacturers of

Bowen's
Climax Foods.

Everything
For the
Poultry Raiser

OFFERED BY US
AT THE
RIGHT PRICES.

We Buy Our
Poultry
Supplies
By the
Carload

DIRECT FROM
THE
MANUFACTURERS.

CHICK FOOD
FOR LITTLE CHICKS.

POULTRY FOODS
FOR FATTENING PURPOSES.

HEN FOODS
FOR EGG PRODUCTION.

Also Medicines, Charcoal, Poultry Grits, and other Supplies.

THE CYPHERS NON-MOISTURE INCUBATORS.

The Cyphers Incubators, for which we are authorized agents, are **FULLY GUARANTEED** by the manufacturers as follows:

First—To require no supplied moisture.

Second—To be self-ventilating.

Third—To be self-regulating.

Fourth—To operate with less oil and at less expense than any other make of incubator.

Fifth—To be fire-proof, having the best, the safest, and the most costly built heater attached to any incubator.

Sixth—To be the easiest to operate and control, requiring less labor and attention than any other make of incubator.

Seventh—To produce larger and stronger chicks than any other make of incubator on the market.

Eighth—Also, that where they are run with any incubator of a different make they shall, in three or more hatches, bring out a larger percentage of the fertile eggs in good, healthy chicks or ducklings than does their competitor.

If you are in search of the latest patented, most durably built and best practical incubator, one that will hatch the largest number of the strongest and healthiest chicks or ducklings, the Cyphers is that machine.

Who invented them? The now famous Cyphers Incubators, which were patented in 1894, first placed on market during the season of 1896-97, and are now extensively used on the largest poultry plants in America, were invented by Charles A. Cyphers, also inventor of the Mammoth 20,000-Egg Cyphers Incubator located on the duck farm of Wm. H. Truslow, at Stroudsburg, Pa. Mr. Cyphers has devoted the best years of his life to the study of artificial incubating and brooding, the results being a book on the subject entitled "Incubation and Its Natural Laws" (conceded to be the best scientific and practical treatise given to the public on this subject to date), the construction of the Mammoth 20,000-egg Cyphers incubator at Stroudsburg and the invention of the 60-egg, 120-egg, 220-egg and 360-egg Cyphers incubators and the three-compartment Cyphers brooders.

THE "DIFFUSIVE PRINCIPLE": Mr. Cyphers is the discoverer and patentee of the "diffusive principle" in artificial incubation, a highly important matter, for it was by means of this discovery that he was enabled to render his greatest service to practical, successful incubation by artificial means, by solving "the moisture problem." Untold thousands of chicks were being reported "dead in the shell," and the moisture question was the rock on which the hopes of hundreds, yes, thousands of poultry raisers were being wrecked. The Cyphers method and the Cyphers incubators SOLVED THIS PROBLEM by introducing the diffusive principle and a self-ventilating system which does away absolutely with supplied moisture, retaining in the machine the moisture contained in the eggs, which is ample for all purposes.

THE RESULT IS AN INCUBATOR THAT IS POSITIVELY SELF-REGULATING, SELF-VENTILATING AND WHICH REQUIRES NO SUPPLIED MOISTURE. Here we have, therefore, the simplest possible incubator one that is practically perfect in its ease of operation, as all that is required of the attendant is the filling of the lamp and turning of

the eggs. Today the Cyphers incubator, a practical embodiment of the CYPHERS METHOD, stands without an equal. Used by the largest and most successful poultry plants in this country and by upwards of 15,000 small poultry raisers, it is pronounced by them to be WITHOUT A RIVAL. (See large, 192-page catalogue).

NON-MOISTURE INCUBATORS: The Cyphers is the original and only genuine Non-moisture Incubator. All other so-called "no-moisture" machines are either imitations, or, worse still, merely claim to require no supplied moisture in order that those who manufacture them may reap some of the benefits arising from Mr. Cyphers' great discovery and invention. The Cyphers Incubators are today the only machines that are or can be lawfully equipped with the Cyphers patent felt diaphragms, thus employing the diffusive system of ventilation, which does away entirely with supplied moisture.

Several manufacturers of incubators have been forced to adopt various substitutes for Mr. Cyphers' invention, while still others have not altered their old style machines in any material point, but now boldly claim that they require no moisture pans, wet sponges

or supplied moisture in any form, thus defrauding the public in order to sell their old-style, out-of-date incubators to persons not well informed. FOR POSITIVE AND ABUNDANT PROOF that the Cyphers is the original and only genuine non-moisture incubator, and that by solving "the moisture problem" Mr. Cyphers did artificial incubation and the poultry industry of America a very great service, read the hundreds of testimonials in Cyphers Company's Complete Catalogue for 1902.

BUILT FOR BUSINESS. The Cyphers incubators and brooders are built for business. That is the idea. There is nothing fancy, nothing foolish about them. They are not parlor ornaments. That is not what incubators are wanted for. Men and women of experience in the poultry business understand that it is at best a particular matter

to hatch and raise large numbers of strong, healthy chicks by artificial means. Mr. Cyphers and the Cyphers Incubator Company fully realize this, and therefore they turn out the best goods they know how to produce, at the same time not wasting a cent on fancy trimmings, but striving to manufacture incubators and brooders that are exactly adapted to the work. Every Cyphers incubator or brooder is built in a workman-like manner, out of the best materials on the market, and is slightly in appearance. While there is nothing fancy about them, no critic can place his hand anywhere on a Cyphers incubator or brooder and truthfully say, "This is inadequate; this is too cheap." In other words, every cent is spent on the Cyphers goods THAT IS NECESSARY, but not a penny more. The result is that the Cyphers, capacity, quality of material and workmanship considered, are sold at reasonable prices and the purchaser gets full value—GETS WHAT HE WANTS—a practical incubator and one that will last a lifetime with reasonable care.

ONE STYLE ONLY: The Cyphers incubators and brooders are manufactured in one style only, viz.: THE BEST. The Cyphers Company has no "second best." The best incubator that can be made is what the sensible poultryman wants and nothing less than this. An extra \$5.00 or \$10.00 put into the "best incu-



120 EGG CYPHERS INCUBATOR.

bator" will earn itself the first hatch, and the difference in every hatch thereafter will be clear profit, as between a poor incubator and the best that an up-to-date company can manufacture. Purchasers of incubators should reflect on these facts and be governed accordingly. The poultry business is not boy's play. For earnest people it is the means to a livelihood. There is money in poultry for sensible people, for men and women who are governed by reason. For those who unfortunately follow cheap prices there is little hope in the poultry business. Cheap prices invariably mean cheap goods.

SOLD ON HONOR—The Cyphers Incubators and Brooders are built for **BUSINESS**. They are warranted to last **TEN YEARS**, without repairs, and are **GUARANTEED** to **OUT-HATCH**, during

three trials, any other make on the market, bar none—**THIS, OR YOUR MONEY BACK**. Furthermore, the Cyphers Incubators and Brooders are sold on honor, that is, the company and each member thereof publicly agrees that in case any incubator or brooder sent out by them is not as represented in their catalogs and other printed matter, and will not do the work claimed for it, they will take it back and refund the purchase price in full. We, as authorized agents or the Cyphers Incubator Company, stand back of this guarantee and are prepared to protect through **ANY PERSON WHO PURCHASES THROUGH US, ONE OR MORE CYPHERS INCUBATORS AND BROODERS**.

PACIFIC COAST PRICES OF CYPHER'S INCUBATORS.

No. 0—60 Hen Eggs.....	48 Duck Eggs.....	Price, \$16.50.....	Actual Weight Crated, 85 pounds.
No. 1—120 Hen Eggs.....	100 Duck Eggs.....	Price, \$25.00.....	Actual Weight Crated, 155 pounds.
No. 2—220 Hen Eggs.....	190 Duck Eggs.....	Price, \$35.00.....	Actual Weight Crated, 205 pounds.
No. 3—360 Hen Eggs.....	290 Duck Eggs.....	Price, \$44.50.....	Actual Weight Crated, 255 pounds.
No. 3—Double decker.....	720 Egg size.....	Price, \$88.00.....	Actual Weight Crated, 520 pounds.

NOTE—The capacity of these incubators is underrated; the different sizes hold considerably more than they are listed, especially the larger sizes.

ADVANTAGE OF BUYING OF US.

First.—We sell to you for less money than you can buy direct from the factory, when freight charges are considered.

Second.—By carrying a full stock of Cyphers' Incubators and Brooders, as well as other Poultry supplies, we save you valuable time, which means a saving to you of from four to five weeks, say nothing of the danger of loss of small shipments from the East.

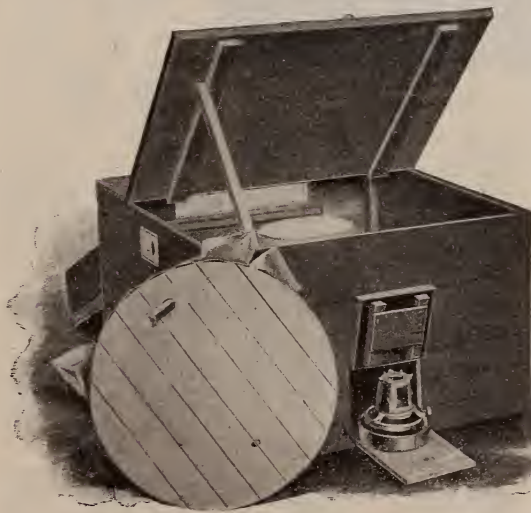
Third.—If you buy of us, we are right here to stand back of our guarantee, to correct any error, or to replace any broken parts, if anything should happen. We are selling the Standard Hatching Machine of today; simple and easy to operate and fully guaranteed.

All told, it is plainly to your interest to place your orders with us.

MORE INFORMATION.

If you want a more detailed description of the Cyphers' Incubators and Brooders, send for large 32-page Cyphers circulars, sent **FREE ON REQUEST**. Cyphers' Handsome Complete Catalog for 1902, 164 Pages, 8x11 inches, finely illustrated, treating at length of egg farming, broiler raising, duck growing, roasters, winter chickens, capons and caponizing, standard-bred poultry, etc., sent postpaid for 10 cents in stamps. A book easily worth two or three dollars to persons interested in making poultry pay.

The Cyphers Indoor Brooder, Style B.



Style "B" is 36 inches square, and first-class in every respect. It is durably built out of high-grade materials, yet money has not been wasted on it in any particular. The company's aim has been to produce in this brooder one that would do the work, one that would be fireproof and also a safe home for the chicks both day and night. It will hold 150 newly hatched chicks, but 100 are as many as we recommend.

Each of the brooders above described is provided with a runway that reaches down to the ground, but which is hinged to the brooder and should not be let all the way down until the chicks get used to running in and out of the brooder. Six-inch sides are built on each runway, with a drop-piece of the same width hinged to the front. When the chicks are first let out, this runway is held in position on a level with the floor of the brooder by a leg that is provided for this purpose, and the chicks cannot reach the ground, but may thus be given exercise and fresh air with safety and convenience. This is one of the several clever and valuable ideas to be found in the Cyphers incubators and brooders, resulting from actual experience.

Price, \$13.50.

REAR VIEW CYPHERS INDOOR BROODER, STYLE B.

BROODERS

Home Made Ones—Cheap Ones.

Very few people try to make their own incubators, but a great many try to make brooders, which is the cause of so many failures. There are also a lot of cheap brooders, put on the market by different firms, that are as bad, if not worse than many home-made ones. Some people have an idea that most any kind of a place is good enough to put chicks in after they are hatched. One customer said to us when she bought her incubator, "Oh, no, I don't want a brooder," and when the chicks hatched she put them under the kitchen stove and covered them with a blanket. It is needless to add that she did not raise any of them. Another one said: "I don't see what there is about your brooders that make them cost so much. I will go home and make one." After a couple of days'

Cyphers Style A Three-Compartment Brooder.

Next to its incubator, the Cyphers Company especially prides itself on the three-compartment outdoor brooder which it manufactures. We unhesitatingly pronounce this to be the best brooding device on the market, for EITHER INDOOR OR OUTDOOR USE, regardless of price, and it will be noted that all of the Cyphers brooders (the company manufactures one grade only, but four sizes) are sold at very reasonable figures.

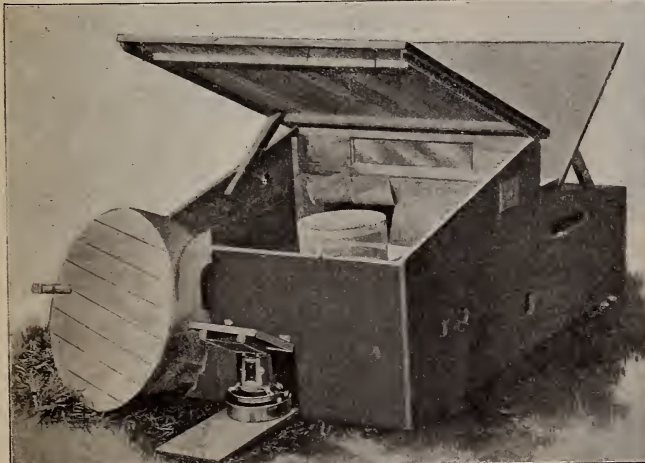
LET US ENUMERATE SEPARATELY THE SPECIAL MERITS OF THIS BROODER:

First: It is the largest single flock brooder ever placed on the market.

Second: It is rainproof and stormproof, having a heavy tin-covered roof over both the chick chamber and the feeding compartment or run.

Third: It is fireproof, a Cyphers safety brooder stove being used instead of a lamp, and the entire lower floor of the chick chamber being protected underneath by a solid sheet of galvanized iron with an air space between it and the wooden floor.

Fourth: A brass cold water pan is used on the Cyphers safety brooder stove, located between the flame and the oil bowl. Cold water placed in this pan keeps the wick from charring and the flame from smoking, thus rendering the stove and brooder perfectly safe, also insuring a uniform heat.



CYPHERS STYLE A OUTDOOR BROODER, REAR VIEW.

Fifth: The fumes from the brooder stove cannot pass into the chick chamber (into either apartment), but are carried out at the sides of the brooder by an ingenious and infallible device.

Sixth: The surplus brooder stove heat preserves all the lower woodwork of the brooder by warming and drying the soil underneath the brooder, thus making the brooder not only safer and more comfortable for the chicks, but also more lasting.

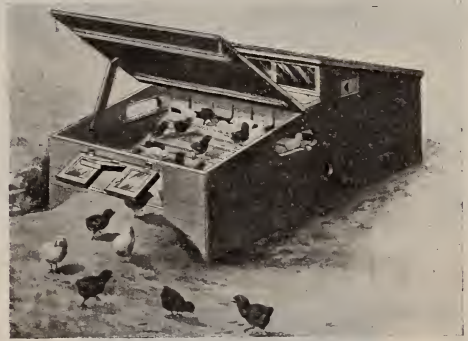
Seventh: The brooder stove is easy of access, being above ground, and the sliding board not only brings it quickly within reach, but replaces it in exactly the right location.

Eighth: When the temperature underneath the

work, he figured up that he had spent for lumber, lamps, metal parts, etc., the price of the brooder and then did not have it painted. And, furthermore, he said he would have to remodel it, as he did not get the ventilators in right. This is the case of about ninety out of a hundred. There is no use trying to make a brooder at home for less money than the manufacturer can sell them for. After paying for the metal parts, thermometer, felt, pipes, hinges, nails, glass, paint, etc., say nothing of the lumber which you might get for nothing in this country, you cannot save any money, and after all your trouble you haven't got a brooder like the Cyphers or our Chick-a-dee.

Cheap Brooders for \$3.00 to \$5.00.

These brooders catch another class of buyers, the people who want to be economical and not spend too much money until they see if it pays. Remember, true economy lies in buying the best; and the best incubator or best brooders are the only ones to buy; if you can't afford to buy the best, let the old hen hatch and raise the chicks. Buying cheap goods in this line is the first step towards failure.



STYLE A, FRONT VIEW.

chick cover is at 90 to 95 degrees, we have a surrounding atmosphere of 80 to 85 degrees, while in the front compartment the temperature will average about 70 degrees. The chicks, therefore, may suit themselves, going to and from the heat at will. (See illustrations.)

Ninth: The round chick guard prevents any crowding of the chicks, and also prevents their coming in contact with the circular heat dome to their injury.

Tenth: In the night compartment of this brooder there are no stairs to climb, hence no danger of the little chicks getting lost and becoming chilled while learning the way.

Eleventh: It is the most durable and the best made brooder on the market, regardless of price. Both the chick chamber and front run may be reached through full-sized doors and these doors or lids are covered with heavy tin, painted with two coats of mineral paint. We unhesitatingly recommend this brooder both for outdoor and indoor use. It may be left out in rain storms or wind storms, and, with reasonable care, the chicks entrusted to it will be comfortable and do well. All chicks raised in brooders should be provided with outdoor runs and be given necessary exercise, depending on the season and the weather. Many customers of the Cyphers Company have bought these unequaled outdoor brooders for use inside of poultry-houses, brooder-houses, etc., during mid-winter, placing them out of doors, under trees or in the open as soon as the early spring days came with their bright sunshine.

This is positively the best combined outdoor and indoor brooder in all particulars that the Cyphers Company knows how to build.

Capacity, 100 to 150 chicks; weight, 160 pounds.

Price, complete, \$16.00.

THE CYPHERS 50-CHICK INDOOR AND OUTDOOR BROODERS.

The Cyphers Indoor Brooder, Style O, is meant to go with the 60-egg Cyphers Incubator, and they make a satisfactory little outfit. For the fancier, who wishes to begin to hatch early in the season, this little machine is ideal. To go with it as a side partner, Mr. Cyphers designed the Style O Indoor Brooder and the Style O Outdoor Brooder. These trustworthy little brooders, each thirty inches square, are identical in principle, quality of material and workmanship with our larger brooders and give the same degree of satisfaction. With each of them is furnished a Cyphers Safety Brooder Stove, the galvanized iron heater and discharge pipes, the round chick guard (avoiding all danger of crowding), the circular hover with woolen curtains or fringe, and a high-grade mounted thermometer.

STYLE "O" INDOOR BROODER.

The Style O Indoor Brooder is for use in a poultry house, a room in a dwelling, or any other apartment suitable for little chicks, depending on the season of the year and the state of the weather.

STYLE "O" OUTDOOR BROODER.

The Style O Outdoor Brooder is meant for outdoor use during spring and summer, either under some sort of rude shelter or a tree, which will furnish shade. These little brooders are meant to hold fifty chicks, or less, their capacity being rated according to the number of newly-hatched chicks they will accommodate. As the chicks grow older their number must necessarily be reduced. By the time they are eight weeks old they can be removed to other quarters and should do well without artificial heat. Seventy-five newly-hatched chicks can be placed in



CYPHERS STYLE O OUTDOOR BROODER.

either of these brooders, but we do not advise leaving so many in them during more than a few days.

PRICES:

Style "O" Indoor	\$10.50
Style "O" Outdoor	11.50
Capacity, 50 chicks.	

THE HYDRO SAFETY LAMP.



HYDRO SAFETY LAMP.

The Hydro Safety Lamp is made for incubator and brooder use exclusively, and its construction in every part is such as to combine absolute safety with economy of oil, a constant even heat and the greatest convenience in use. The special feature of this lamp is a water jacket surrounding the wick tube, which insures perfect safety by keeping the wick tube and lower part of the burner always cool—a thing it is impossible to accomplish in any other way.

The tops and bottoms are stamped up in symmetrical patterns, making them handsome in appearance, and also very rigid and strong. The handles are firmly

riveted on, and every fount is supplied with one of our patent filling tubes, which enable any one to see at a glance just how much oil the lamp contains.

The Chimneys have 1/4-inch mica windows, and handles covered with asbestos, so that they never get hot.

CONSTRUCTION OF BURNER.

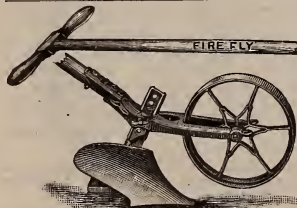
The Hydro Safety Burners have a larger area of perforated brass than ordinary burners, which gives a better circulation of air and insures perfect combustion, even in the hottest weather when the draft is most sluggish. The water is put in the tank shown back of the chimney, (see cut) and enters the water jacket around the wick through the lower tube, and when warmed by the heat rises and returns to the reservoir through the upper tube, thus keeping up a constant circulation and preventing the wick tube and burner from becoming heated above the temperature of the water in the reservoir; which, in turn, is cooled by evaporation, thus securing absolute safety, and making the most perfect burner for all heating purposes.

The entire burner and reservoir are made of brass, so there is nothing that can rust.

We gave these lamps a thorough test last season and were so well pleased with them that we have equipped our NEW brooders with them.

PRICES.

No. 2, Grade "A," all brass,	\$1.50.
No. 2, Grade "B," gold lacquered tin founts with brass burner, etc.,	\$1.00.



Hand Plow for Poultrymen

This is one of the handiest tools in use by poultrymen. Where it is desired to turn up the soil in the poultry yard to a depth of three to five inches, the work can be done several times faster with this plow than with a spade or hoe. It is a time-saver, and not hard to operate. For small yards, where a horse plow cannot be used, this hand plow does the work quickly and satisfactorily. The price of the Fire-Fly Hand Plow is \$2.75.

The Cyphers Sectional Brooders, made in three sizes, embody several important improvements over the other makes of sectional brooders on the market. Reference to the illustrations will show that the heater furnished with the Cyphers Sectional Brooder is set high enough up so that no pit need be dug for the lamps to set in. When this brooder is set flat on a board floor the lamps rest directly on the floor. In other brooders of this style the lamps are placed either in a pit or the brooder on cross blocks. Furthermore, the floor of the Cyphers Sectional Brooder is adjustable so that it can be raised up to within a few inches of the hot-water pipes, or lowered, as desired, for the larger and older chicks. When the floor is raised, a runway extends down to the floor of the house, which serves a double purpose. It can and should be closed on cold nights, thus not alone preserving the heat in the brooder and keeping the chicks from wandering away from the heat, but also making the brooder absolutely rat proof. No other sectional brooder on the market has these important advantages.

The Cyphers Sectional Brooders are made in three sizes, viz.: Two sections, three sections and four sections. They are well built in every particular and have six overhead hot-water pipes, three out-go and three return. Most brooders of this style have only four, which are insufficient. The Cyphers also have an upper expansion tank, which renders them perfectly safe to operate, and are equipped with two large-sized lamps with extra width burners, thus insuring ample heating power. The space provided for the brooding of chicks is inclosed with heavy woolen curtains, is large in size and properly ventilated.

For a practical and inexpensive indoor brooding apparatus, the Cyphers Sectional Brooders cannot be excelled.

One four-section brooder requires a house 12 feet

WIRE COVERED RUNS.

For All Outdoor Brooders.

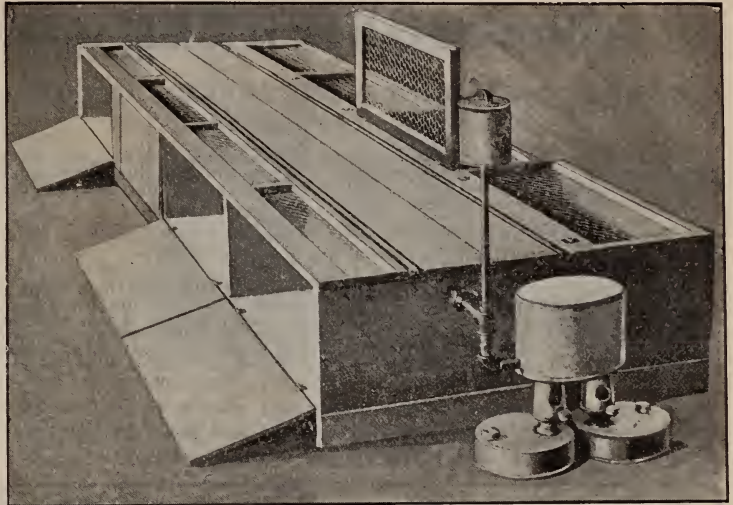
For those who have not the time or do not care to make runs for their brooders, we make a run two feet high, two and one-half feet wide and six feet long, (no floor) covered on all sides with heavy one-inch wire netting. The top lifts up for the purpose of setting in water or food. This run is composed of four frames and can be taken apart and stored away in

long; two, 21 feet, etc. The brooder proper should be located in the aisle, where the chicks can be attended to, the brooders opened and cleaned and the lamps filled without going into the partition runways, thus saving time and labor.

For usefulness and reliability we place these sectional brooders on a par with the Cyphers Indoor Brooders for all persons who wish to raise from two to three hundred up to a thousand chicks and who do not feel at liberty to go to the expense of putting up a regular brooding-house equipped with a heater and the hot-water pipe system.

Price List of Cyphers Sectional Brooders.

Three sections, all complete.....	\$30.00
Four sections, all complete.....	35.00



THE CYPHERS IMPROVED SECTIONAL BROODER—FOUR SECTIONS.

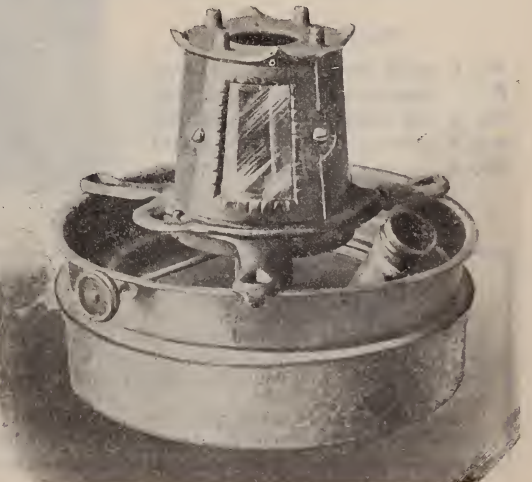
small space when not in use. By having one of these runs the little chicks can get outdoor exercise and a chance to scratch and pick on the ground without danger of being lost or being caught by cats, hawks or rats. This also makes a place to keep the little chicks in while the grass is wet in the morning. By having this run the brooder can be moved to new ground every few days. This run is well made, painted, light and well worth the price to anyone. Always shipped in the flat. Price, \$1.50 each.

The Cyphers Safety Brooder Stoves.

These stoves positively have no equals. We have them manufactured in lots of three thousand, hence can offer them at very low prices, quality and weight of materials considered. No other brooder stove on the market has as large a water jacket or holds as much oil. The water jacket on the Cyphers Safety Brooder Stove holds fully a quart of water and extends out over the entire surface of the oil bowl, thus placing a sheet of cold water an inch to an inch and a half in thickness between the oil bowl and the flame jets. By this arrangement all danger of the generation of explosive gases, arising from the top of the lamp or the burner becoming heated, is removed, and we have a brooder stove that can be relied on. We sell hundreds of these stoves each year to persons who wish to build home-made brooders. We strongly advise against anybody using a common lamp in a brooder. The Cyphers Brooder Stove furnishes twice the heat of an ordinary brooder lamp and lamps are far from being safe. Cheap lamps are equipped with cheap burners, which gum up, smoke and thus endanger the chicks.

These stoves are used in all of Cyphers' Brooders.

Price, each, \$1.50.



The HUMPHREY

GREEN BONE AND VEGETABLE CUTTER. THE OPEN-HOPPER TYPE.

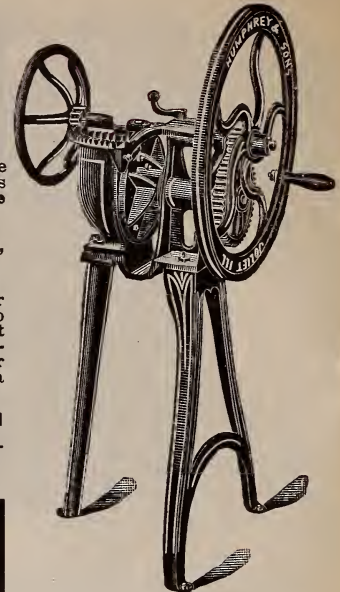
A year ago we bought a full carload of these bone cutters and have sold all but a few. We now have another car on the road for this season's trade. In the limited space in this catalogue we cannot tell you all the good things about the Humphrey, but here is our guarantee.

The Humphrey will cut more bone with less labor in less time, than any other cutter, or we refund the purchase price.

After three years' practical use, the Humphrey (the only Open Hopper Bone Cutter) stands higher than ever in poultry raisers' estimation. No changes in construction have been found necessary, because it was not put upon the market until it was perfect. It is built upon the correct mechanical principle, and doubtless will be imitated, so far as possible, by other manufacturers. You'll understand it better if you will let us send you a machine, and you need not keep it if it does not fill our guarantee.

If you are interested in this cutter and want a fully illustrated and descriptive catalogue, write us and we will send one of Humphrey's Complete Catalogue and Egg Record Books free of charge.

We have sold many Humphrey Green Bone Cutters to the women poultry raisers. They say they are the only green bone cutters they ever found that they could run. "They work easy," that's the secret.



NO. 1 HUMPHREY.

GREEN BONE.

The cutting of green bone has been such a temper-trying, back-breaking, hand-blistering operation, that many poultry keepers who would be glad to use it in their rations have given up the task in despair, declaring that green bone is more trouble than it is worth. They have tossed their so-called "bone-cutters" into the junk-pile and have gone on in the old-fashioned way.

That's where they made their mistake. They stopped too soon. They didn't investigate far enough. Green bone is not hard to prepare if you have the right kind of cutter. American ingenuity and inventive skill have supplied the machine. It is the HUMPHREY GREEN BONE AND VEGETABLE CUT-

TTER. It does the work perfectly, rapidly and easily. A boy or a woman may run it with ease. A man can run it, cutting the largest bones that grow in a beef, including the hard leg bones, with only his thumb and finger on the power wheel. Can you ask anything easier than that?

If you have any doubt as to the desirability and value of cut green bone in the feeding ration, do not fail to read what prominent poultry raisers—men who make the business pay—say in "Timely Notes," on pages 14-36 in Humphrey's catalogue.



NOW YOU SEE IT,



NOW YOU DON'T.

PRICE LIST.

- No. 1, hand power.....\$14.00
- No. 2, semi-power..... 17.50
- No. 2 1-2, hand or power. 20.00
- No. 3, direct power..... 40.00
- No. 4, geared power..... 50.00

TESTIMONIALS.

We have a letter file full of testimonials and letters of praise in favor of the Humphrey. We have a few of them from the most prominent breeders, reprinted in a little circular, and if you would like to look them over, drop us a card.

Remember we re-place, free of charge, any part broken while in use, within one year from date of purchase.



AT WORK THREE SECONDS LATER,

CYPHERS DRINKING FOUNTAINS.

The Cyphers Galvanized Iron Drinking Fountains embody every good feature of a down-to-date drinking fountain, and are believed to be the best in use. They have done much to supplant the old style earthenware fountains which could not be thoroughly cleaned and purified. A fountain that cannot be easily and readily cleaned out, and in which water soon becomes sour, is highly objectionable. A fountain that will burst if the water in it freezes is also an annoyance and a source of loss. The fountains shown herewith are easily filled, easily cleaned and kept clean. The interior of these fountains can, after being scalded, be exposed to the sun and thus sweetened and kept wholesome. If placed in the shade in summer time the water will keep very nearly as cool as in an earthen vessel. They are much lighter than the earthenware fountains, and a dozen can be put in a compact and cheap package for shipment.



PRICES.

Small, each, 35c; three \$1.00.
 Medium, each, 45c; three \$1.30.
 Large, each, 75c; three, \$2.00.

Cyphers Food and Water Holders.

(Patented.)

This undoubtedly is the best device of the kind on the market. They are made in one, two and three-gallon sizes, and are recommended both as food and water dishes. The tops and bottoms of these holders are separable by placing the palm of the hand on top of the upright post, slipping the fingers under the iron brace that is fastened to the upper metal pan, then pressing downward, causing the wires to separate, thus releasing the lower pan.



These wires prevent the chicks or fowls from getting into the pans and soiling the food or water.

Where these holders are used a saving of 15 to 25 per cent may be counted on in the soft food used. Where food of this kind is thrown on the ground or upon boards, there is considerable waste, and this

waste should be avoided. It is clear loss and every bit of it comes directly out of the profits.

Prices: 1 gal. size, \$1.00 each; 2 gal., \$1.25 each; 3 gal. \$1.50 each.

Stoneware Drinking Fountains.

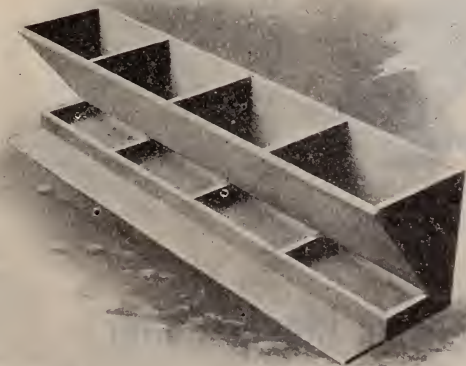
Very popular with some poultry men. They keep the water cool and clean and the chicks from getting wet. Price, 1 gallon size, 50c each.

◆ Some people believe in feeding their chick- ◆
 ◆ ens almost anything. Others prepare hard ◆
 ◆ boiled eggs, johnny cake, etc., etc. The ◆
 ◆ most successful ones feed as near Nature's ◆
 ◆ Foods as possible. See notes on feeding ◆
 ◆ chicks, page 93. ◆

Shell and Grit Boxes.

These boxes work a material saving in grit, oyster shell, ground bone, charcoal, beef scraps, etc. They are automatic feeders, the materials working down into the feeding spaces as fast as the fowls consume them. The front side is sloped in such a manner that the fowls cannot get into the feeding space to scratch, thus wasting the materials. By this arrangement practically every particle of the grit, shell, bone, meal and other materials supplied will be properly used, preventing all waste, and thus increasing profits.

Price, 75c.



The Safety Brood Coop.



CYPHERS SAFETY BROOD COOP FOR HEN WITH CHICKS.

Hundreds of people, women especially, are so situated that they cannot build for themselves or have built, except at unreasonable cost, safe brood coops for hens with chicks. To meet this demand Mr. Cyphers has devised the Cyphers Safety Brood Coop, illustrated herewith. These coops are well made in every respect, light and handy to move around, and when closed for the night are safe against varmints of various kinds. They also have a detachable floor which makes it very convenient to clean out. In dry weather the floor may be left off and the old hen can be on the ground.

Price, \$3.00.

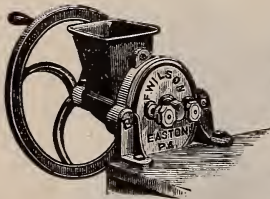
PEDIGREE NEST BOX.

This patented nest box has no superior. It is neatly and durably made, is infallible in action and will tell every time, "which hen laid the egg." There are two classes of poultrymen who should use these boxes intelligently and persistently: First, the breeder of fancy or exhibition poultry who is deeply interested in knowing which hen and which mating produces stock of the highest quality; second, the poultry keeper who wishes to increase the egg yield of his flock. In every flock of fowls there are good layers, medium layers and poor layers. There is one sure way to develop a great egg-laying strain, and that is by finding out positively which are the best layers in the flock and using eggs for hatching only from these best layers. The nest box shown herewith is believed by us to be the simplest and most accurate, therefore the best device on the market.

Price, \$1.75.



Wilson Bros. Dry Bone and Shell Mill.



DRY BONE MILL.

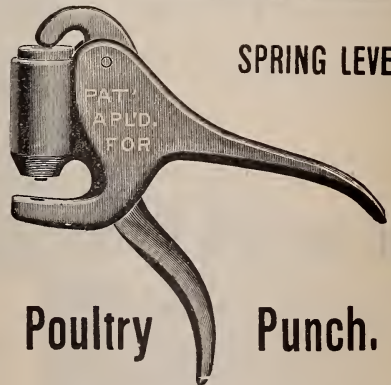
the reach of every poultry man, and it will pay for itself in less than one year's time.

PRICE.

Price.—Without stand, \$5.50; weight 33 pounds. Diameter of hand wheel 20 inches.

Stearn's Clover Cutter.

Does good work. Quite small, but worth the price asked. Weight 6 lbs. Price \$3.00.



SPRING LEVER

Poultry

Punch.

If you keep a record of your chicks of the different breeds, hatches, strains, etc., there is no better, quicker or easier way than by using the RELIABLE SPRING LEVER POULTRY PUNCH for marking the web between the toes. Hundreds of private marks can be made when your chickens are hatched and a record kept so they can flock together until maturity, and then be separated by these marks.

Price, postpaid, 35c each.

HIGH-GRADE TESTED THERMOMETERS.

The best incubators and brooders manufactured are worthless unless the thermometers therein are correct. Hatches fail in incubators because of inferior thermometers, and large numbers of chickens are lost in brooders owing to defective or worthless thermometers. The operator must know accurately the temperature in the egg chamber, and be sure that the chicks in brooder have the proper amount of heat. The thermometers here listed are guaranteed by the manufacturers to be thoroughly and expertly tested before they are offered to the public.



CYPHERS BROODER THERMOMETER.

PRICE.

- Incubator Thermometer 75c
- Hang it from the top of egg chamber so it touches the eggs.
- Brooder Thermometer..... 50c



CYPERS INCUBATOR THERMOMETER.

CAPONIZING INSTRUMENTS.

Poultry men, farmers included, can double their poultry profits by caponizing the surplus cockerels. The operation is simple—the instructions, sent free, being so full and explicit that any man or woman, after a careful reading, will be able to perform it. Caponizing is highly successful in every point of view. The demand for capons East and West regularly exceeds the supply, the price per pound averaging more than twice as much as that paid for ordinary roosters. The object of caponizing is to increase the weight of the fowl and to render the flesh far more tender and palatable.

Pilling's Caponizing Outfit, Complete with instructions, \$3.00, mailed free.

Extra Parts and Supplies for Incubators and Brooders.

INCUBATOR LAMP BURNERS.

Large Size, 80 cents each by mail.
Small size, 60 cents each by mail.

CYPHERS INCUBATOR LAMPS.

(Seamless Bottoms.)

Large size, with burner and wick all complete, for use on Nos. 1, 2, and 3 Incubators, \$1.25 each by express.
Small size, all complete, for use on No. 0 Incubator, \$1.00 each by express.

LAMP WICKS.

For Incubator Lamps, 30 cents per dozen by mail.
For Brooder Stoves, 30 cents per dozen by mail.

New Cyphers Fire-proof Heater, for any size Incubator, \$3.50 each by express or freight.

New Felt Diaphragms, for No. 0 or No. 1, 75c; No. 2 or 3, \$1.00 each by express.

METALLIC PARTS FOR CYPHERS BROODERS.

These can be purchased separately where the customer wishes to do his own woodwork. One brooder, however, will need to be ordered for pattern, as we do not furnish plans.

Price for complete outfit, Style O, Indoor or Outdoor, consisting of Brooder Stove, galvanized iron parts, vents and thermometers, \$6.00; complete outfit for Style B, Indoor, or Style A, Outdoor, \$7.00.

CYPHERS PEDIGREE TRAYS.

To be used in place of regular trays when one wants to keep separate the chicks from certain eggs. (See Cyphers' catalogue.) Prices, for No. "O" \$1.50; for No. 1, \$2.00; No. 2, \$3.50 pair; No. 3, \$4.50 pair.

NO FOOD HAS EVER BEEN

PREPARED THAT EQUALS

Bowen's Climax Chick Feed.

A DRY FOOD TO BE FED DRY.

Last season we placed our chick feed on the market for general use in raising little chicks, pheasants, quails, and turkeys, and from the large quantity we sold, and the satisfactory results obtained by those who tried it, we think that it is just what has been wanted for so long by fanciers and poultry raisers.



By feeding Bowen's Climax Chick Feed you give the little chicks as many and better kinds of feed than they would pick up if running over a farm, and they get just what exercise they need if the feed is scattered in chaff for them to scratch for.

Bowen's Climax Chick Feed is a complete food in itself and nothing else need be fed. This food is composed of all the grains and seeds that are of value in feeding chicks, mixed with the proper proportions of

Bone, Grit, Shell, Charcoal and Dried Meat and Blood (which takes the place of insects and worms). This chick feed of ours is prepared and mixed after the best formulas known by expert and successful poultry raisers.

The feeding of soft, wet, sloppy food, or those that are astringent, will cause a greater death rate among chicks than the neglect that comes from letting them care for themselves.

Bowen's Climax Chick Feed is a perfectly balanced ration that will raise your chicks if you give them good care.

- 100-lb. sack Bowen's Climax Chick Feed.....\$4.00
- 50-lb. sack Bowen's Climax Chick Feed..... 2.00
- 20-lb. sack Bowen's Climax Chick Feed..... 1.00
- 5-lb. pkg. Bowen's Climax Chick Feed..... .25

At the above prices our feed is the cheapest food you could feed, when you take into consideration the greater per cent. of chicks you can raise by feeding it.

CLIMAX HEN FEED.

This feed contains about twenty different foods, and will keep your hens in good health and make them lay.

CLIMAX CHARCOAL, GRANULATED OR FINE.

The charcoal we offer is clean and free from dust. Every fancier should have a supply on hand. It keeps the bowels of the fowls in good order.
Per lb., 10c; 50 lbs., \$4.00; 100 lbs., \$7.50.

CLIMAX POULTRY GRIT.

2½c per lb.; 50 lbs., \$1.00.

This feed is to be fed dry, and when feeding it you do not need to bother with shells, grit, meat, etc., as all these things are mixed in with the grains in proper proportions.

PRICE.

- 100-lb. sack Hen Feed\$ 2.50

CLIMAX BLOOD MEAL.

If you want winter eggs, feed this. Per lb., 10c; 10 lbs., 75c; 100 lbs., \$5.00.

TOBACCO DUST.

For use in dust baths and nests. A cheap and effective exterminator of lice. Per lb. 10c; 3 lbs. 25c.

If wanted in larger quantities write for special prices.

CLIMAX GRANULATED BONE.

The grade we offer of this is very superior to that generally sold. Made from selected, raw bones.
Per lb., 3c; 50 lbs. and upwards 2½c per lb.

CLIMAX CRUSHED SHELL.

This brand of shells is superior to most offered. They are sifted and free from dust, made in two sizes, chick and hen size.
Per lb., 2½c; 50 lbs and upwards. 1c per lb.

E. J. BOWEN'S PRICE LIST OF

CYPHERS' INCUBATORS AND BROODERS

HUMPHREY & SONS' BONE CUTTERS

AND GENERAL POULTRY SUPPLIES.

NET PRICES

CASH WITH ORDER

CYPHERS' INCUBATORS.

- No. 0 Capacity 60 Hen Eggs or 48 Duck Eggs...\$16.50
- No. 1 Capacity 120 Hen Eggs or 100 Duck Eggs... 25.00
- No. 2 Capacity 220 Hen Eggs or 190 Duck Eggs... 35.00
- No. 3 Capacity 360 Hen Eggs or 290 Duck Eggs... 44.50

CYPHERS' HOT-AIR BROODERS Complete.

- Style 0 Indoor—Capacity 50 to 60 Chicks.....\$10.50
- Style 0 Outdoor—Capacity 50 to 60 Chicks..... 11.50
- Style B Indoor—Capacity 100 to 150 Chicks..... 13.50
- Style A Outdoor—Capacity 100 to 150 Chicks..... 16.00

Safety Brooder Stoves for the above sizes, each \$1.50.

CYPHERS' HOT WATER SECTIONAL INDOOR BROODERS.

- Two Section. Capacity 175 to 200 Chicks.....\$24.00
- Three " Capacity 250 to 300 Chicks..... 30.00
- Four " Capacity 350 to 400 Chicks..... 35.00

CYPHERS' BROODER METAL PARTS.

For use in constructing Home-made Brooders: In styles O, A and B, each set consists of Brooder Stove, Galvanized iron parts, vents and thermometer. Style O, Indoor or Outdoor, \$6.00; Style A or B \$7.00.

Metal Parts for Sectional Brooders.

- Two Section, \$14. Three Section, \$17. Four Section, \$20.

HALLOCK'S FOOD HOLDERS.

- 1 Gal. size, \$1. 2 Gal. size, \$1.25. 3 Gal. size, \$1.50.

GALVANIZED DRINKING FOUNTAINS.

- 2 Qt. size, 30c. 3 Qt. size, 35c. 4 Qt. size, 50c. 8 Qt., 75c.

- Shell and Grit Boxes, 80 cents each.
- Large Egg Testers, \$1.50 each.
- Brood Coops, \$3.00 each.
- Colony Houses, \$10.50 each.

PEDIGREE EGG TRAYS.

- No. 0, \$1.50; No. 1, \$1.75; No. 2, \$3.50 per pair. No. 3, \$4.50 per pair.

Pedigree Nest Boxes, \$1.75 each. New Incubator Heaters, \$3.50 each.

INCUBATOR TRAYS.

- No. 0, 60c. No. 1, \$1.00. No. 2, \$1.50 per pair. No. 3, \$1.75 per pair.

NEW FELTS AND BURLAPS.

Write for Prices, stating size required.

Incubator Thermometers, 75 cts. mailed free.

Brooder Thermometers, 60 cts. mailed free.

INCUBATOR LAMPS.

- No. 0, \$1.00. No. 1, 2 and 3, \$1.25 each.
- Sectional Brooder Lamps with metal chimneys, \$1.50.
- Lamp Burners—No. 0, 60c. Nos. 1, 2 or 3, 80c, mailed free.

Lamp or Brooder Wicks—30c per dozen mailed free.

HUMPHREY & SONS' GREEN BONE AND VEGETABLE CUTTERS.

- No. 1 Hand Power\$14.00. Weight, 115 pounds
- No. 2 Semi Power 17.50. Weight, 120 pounds
- No. 2½ Hand or Power 20.00. Weight, 130 pounds
- No. 3 Power only 40.00. Weight, 240 pounds
- No. 4 Geared Power 50.00. Weight, 255 pounds

Goods in the above list of \$10.00 or over in value, will be shipped f. o. b. San Francisco; goods of less value (except where specified) will be sent by Express at the purchaser's expense. When articles of less than \$10.00 in value are to be shipped by freight, add 25 cents for cartage, or 15 cents per package for more than one package. Remit by Money Order or Draft on San Francisco, made payable to E. J. BOWEN, 815 Sansome St., San Francisco, Cal.

POULTRY FOODS—Continued.

The only hard, sharp, granite grit on this market. This is the first season we have been able to supply a grit of this kind. We have it mined, crushed and shipped to us by the carload. While it is a little higher in price than the ordinary grit offered in this market, it is well worth the difference. Among the first foods a chick should have after hatching is grit, and then grit forever. Fowls of all kinds must have hard, sharp grit of some kind with which to grind their food after it passes into the gizzard, otherwise they will not do well. Hundreds of young chicks die annually from no other cause than want of good grit.

Made in two sizes: Chick and hen size. We always send hens' size unless otherwise ordered. Per pound, 2 cents; 100-pound sacks, \$1.50.



SMALL PIECES MAGNIFIED.



SULPHATED ROUP SPECIFIC.
The Great Germicide.

This specific not only cures roup in its worst form, but eradicates all the poisonous impurities from the system.

Should your fowl have cholera, cure them by using the specific same as for roup. When in need of a roup or canker cure, buy the best—buy Sulphated Roup Specific.

Put up in 25c and 50c packages; by mail 30c and 60c. Easy to use, simply put in drinking water.

Cures
Quicker
Than
The
Common
Kinds.

Lambert's Death to Lice Remedies.

POWDER.

For body lice on sitting hens, laying or exhibition poultry. It does not injure eggs or chickens, or soil the plumage in any way. It is also invaluable for lice on horses, cattle or plants, ticks on sheep, moths in carpets or furs, fleas and lice on dogs, cats and pets. Also a valuable disinfectant. Price, 5-oz. box, 10c; 15 oz., 25c; 48 oz., 50c; 100 oz., \$1.00.



OINTMENT.

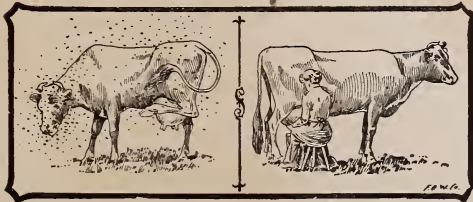
For lice on chickens. Scaly shanks on fowls. 10c and 25c per box, postpaid.

SPECIAL.

In powder form for dissolving in kerosene as a liquid louse killer, or to add to whitewash for mites and spider lice. 4-oz. box, 10c; 16 oz., 25c.

If Powder or Special is to be sent by mail, 1c per ounce must be added for postage.

Sprague's Fly Bouncer. (Guaranteed.)



Which cow would you rather milk.

NO USE MILKING COWS AFTER DARK.

Fly Bouncer instantly drives away Flies, Mosquitoes and Insects from any animal sprayed with the Magic Liquid.

Cows will feed quietly all day, and give one-third more milk.

Stock Cattle will fatten better and larger profits are realized.

Horses will work easier and rest quieter, being absolutely free from annoyance, for no insect will go near where Fly Bouncer is used.

Will also prevent the Gad Fly from striking sheep and causing "Grub in the Head."

To protect animals from flies and mosquitoes, apply once or twice a day lightly over the animal with a sprayer, giving special attention to the legs, head and sides. It is better to give a light application frequently than a heavier coating at long intervals.

The feed saved will more than pay the cost of the remedy and you do not have to wait until after dark to milk your cows.

By the use of Fly Bouncer your cow will give one third more milk; your horse will rest during rest-time and work during working hours on two-thirds the feed it now requires, and will be free from vermin of all kinds.

Guaranteed to do the work or money refunded

PRICES.

Half gallon cans	\$1.00
One gallon cans	1.50
Five gallon cans	7.00
Ten gallon cans	12.00



No Flies on Me.

I have had one application of Fly Bouncer. It costs about 1/2c per day per animal to use.

To apply Fly Bouncer Economically use our New Era Sprayer. Page 74.

E. J. BOWEN'S

1902

CATALOGUE

OF

SEEDS

TREES

PLANTS

FERTILIZER

SPRAY PUMPS

INCUBATORS

AND

POULTRY SUPPLIES

IMPLEMENTS

ETC.



SAN FRANCISCO, CALIF.

PORTLAND, OR.

SEATTLE, WASH.

LITTLEBROWN & BLY S.F.