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**SEEDS**  
*and*  
**FARM IMPLEMENTS**

*Since 1848*



**THE W. E. BARRETT CO.**  
**PROVIDENCE, R. I.**



**1 9 2 6**

**WE** MAKE a specialty of supplying market-gardeners with the best strain of seeds obtainable. In addition, we are always on the lookout for improved strains and new varieties, and if, after a trial, they prove better than what we offer, then we list them, but not before. The same applies to our farm and garden tools—we are always looking for the best, and our stock will prove it. Look over our stock—we have hundreds of tools not listed in this catalogue.

## *Special: Market-Gardeners, Farmers*

and others who use seeds in large quantities are invited to send us a list of their requirements, upon receipt of which we will be pleased to submit our special prices. We have a reliable method of testing all seeds before sending them out, and are always glad to furnish samples of our seeds to all who wish to test for themselves.

### HOW SEEDS ARE SENT

**POSTAGE PREPAID.**—We deliver free, at catalogue prices, to any post office in the United States, all seeds in packets, ounces, and quarter-pounds. Seeds sold by measure, or by the pound, when sent by parcel post, require, in addition to catalogue prices, postage at the rate given in the following table:

UNITED STATES PARCEL POST RATES (Seeds and Bulbs included)	First pound or fraction	Each additional pound or fraction	Packages must not exceed 84 inches (length and girth combined)
Local Rate—Providence P. O. and Substations	\$0.07	\$0.01	Limit of weight, 70 lbs.
1st Zone, within 50 miles of Providence	.07	.01	" " " " 70 "
2d Zone, over 50 and under 150 miles of Providence	.07	.01	" " " " 70 "
3d " " 150 " " 300 " " " "	.08	.02	" " " " 50 "
4th " " 300 " " 600 " " " "	.09	.04	" " " " 50 "
5th " " 600 " " 1000 " " " "	.10	.06	" " " " 50 "
6th " " 1000 " " 1400 " " " "	.11	.08	" " " " 50 "
7th " " 1400 " " 1800 " " " "	.13	.10	" " " " 50 "
8th All cities and towns over 1800 miles from Providence	.14	.12	" " " " 50 "

REMITTANCES may be made at our risk by Draft, Post-Office Money Order, Express Company's Money Order, or Registered Letter.

We make no charge for packing or cartage. Goods are delivered free to any freight station or express office in Providence.

Cotton bags used in shipping orders are charged at cost, and are returnable at the same price, if returned in good condition in a reasonable length of time.

**WARRANTIES.**—We give no warranty, express or implied, as to descriptions, quality, productiveness or any other matter, of any seeds, bulbs, or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

Seeds of the best quality will often fail through improper treatment. More failures result from disregard of the conditions necessary to germination than from the quality of seeds used.

**LOCAL DELIVERY**—We deliver without extra charge anywhere within the city limits. Orders by mail or telephone receive the same attention as a personal order.

## THE W. E. BARRETT COMPANY

89 to 95 Canal Street and Waterman Street

PROVIDENCE, R. I.

# Best-Grade Vegetable Seeds

FOR FARM, MARKET, AND KITCHEN GARDENS BEST ADAPTED TO THIS CLIMATE

## ASPARAGUS

This is one of the first and finest spring relishes which come to the table from the garden, and it really requires very little trouble in cultivation, since a bed once properly made and planted will last for years. The soil for the bed can hardly be made too rich, and the fertilizer should be well trenched in to the depth of 2 feet or more. The roots should be planted as early in spring as the ground can be prepared, setting them a foot apart in rows 3 or 4 feet apart, with the crowns from 4 to 6 inches below the surface of the bed. Asparagus seed may be sown directly in the permanent bed and the plants thinned as they grow; or it may be sown elsewhere, and the seedlings transplanted the second year. Fair crops may be expected the third year.

*An ounce of seed will sow 50 feet of drill, and produce about 300 plants*

**Giant Argenteuil.** An early, large variety from France. Less likely to rust than others.  
**Martha Washington.** A variety of recent introduction. Very large and free from blight.  
**Palmetto.** One of the earliest; of large and fine growth.

### Asparagus Roots

**Palmetto.** 2 years old. **Martha Washington.** 2 years old. **Giant Argenteuil.** 2 years old.



**DON'T FORGET TO USE MULFORD CULTURES ON YOUR BEANS**

## BEANS

### DWARF, or BUSH

Beans are among our most valuable farinaceous foods, and form a market staple everywhere. The seeds should not be planted before the ground becomes light and warm, in favorable seasons usually about the first of May. Bush Limas should not be planted so early as other sorts, as Limas are particularly sensitive to cold and damp. The soil should be rich and mellow, and the seeds scattered about 3 inches apart in drills from 3 to 3½ feet apart, and covered about 2 inches deep. The plants will need frequent hoeing, but should never be cultivated when the leaves are wet with dew or rain, as this will cause them to rust. Sowings made at intervals of about two weeks until the middle of July will give a supply all season.

*Martha Washington Asparagus*

*One quart of seed will sow 100 feet of drill; 2 bushels will sow an acre*

For Beans sent by mail, add postage at rate given in table on second page of cover.

### WAX, or YELLOW-PODDED BEANS

**Golden Wax.** A very popular variety. The vines are hardy, productive; pods long, straight, flattish, very fleshy and wax-like; of the best quality. Beans are small, oval, white, shaded purplish red.

**Currie's Rustproof Wax.** Valuable from the fact that it seems to be "rust-proof," after having been tested with other Beans which rusted badly.

**New Round-Pod Kidney Wax.** New. One of the best round-podded Wax Beans in cultivation.

**Davis Kidney Wax.** Pods long, between flat and round, clear waxy in color; seeds pure white; early as Golden Wax. Flavor and eating qualities excellent. Beans pure white, and excellent for canner's use.

**Golden-Eye Wax.** Extremely vigorous. Pods clear, creamy white, very long, flat, but fleshy, stringless and of good quality; very free from blight and a heavy cropper. Popular in this vicinity.

**Wardwell's Kidney Wax.** Early; excellent. Pods creamy yellow, long, broad, flat, brittle and stringless; Beans kidney-shaped, white, shaded with purplish brown; vines productive, strong and upright.

PRICES OF ASPARAGUS	Pkt.	Oz.	½lb.	Lb.
Giant Argenteuil	\$0 10	\$0 15	\$0 35	\$1 00
Martha Washington	10	30	1 00	3 00
Palmetto	10	15	35	1 00
Roots of Asparagus, 2 years old	\$2 per 100, \$15 per 1,000.			

PRICES OF DWARF WAX BEANS	½pt.	Pt.	Oz.	½pk.
Golden Wax	\$0 20	\$0 35	\$0 60	\$2 00
Currie's Rustproof Wax	20	35	60	2 00
New Round-Pod Kidney Wax	25	40	75	2 50
Davis Kidney Wax	20	35	60	2 00
Golden-Eye Wax	20	35	60	2 00
Wardwell's Kidney Wax	25	40	75	2 50



Golden Wax Beans

## GREEN-PODDED BUSH BEANS

**French Dwarf Horticultural.** This variety, for a Shell Bean, is becoming very popular. It is a heavy cropper; pods long and almost entirely scarlet in color, well filled. Does not blight.

**Improved Red Valentine.** This strain of Valentine is earlier than any we have ever tested, and more uniform in ripening, with almost entire absence of flat pods.

**Black Valentine.** One of the best varieties to raise for early market, because of its hardness, earliness, and good cropping quality.

**Bountiful.** The pods are long, flat, of good quality, and entirely stringless; early and prolific.

**Boston Favorite, or Goddard.** Large, handsome red pods, tender and fine for use as snaps; seeds very large and of delicious flavor, whether used green or dry. The bushes yield heavy crops.

**Burpee's Stringless Green-Pod.** Extremely early, hardy and productive, bearing an abundance of handsome stringless green pods of fine quality. A great favorite.

**Ruby Dwarf Horticultural.** Furnishes green-podded Beans of fine quality; seeds yellowish white, with red splashes; large, oval, plump, easily shelled.

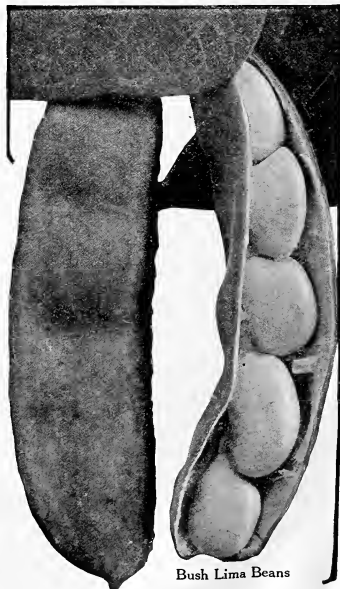
**Low's Champion.** Very productive, with stringless, large, green, flat pods. Excellent either as a String or Shell Bean.

**Longfellow.** Pods very long, straight, and round, and of a beautiful pale green color; flavor is delicious; in every respect an ideal Snap Bean.

## BUSH LIMA BEANS

**Fordhook Bush Lima.** This new Bush Lima is of uniformly erect bush habit, branching freely, but with all the branches held upright. It bears tremendous crops and sets plump, well-filled pods freely, even in a cool, wet season. Both pods and Beans are twice as large as those of the Dreer Bush Lima.

**Burpee's Bush Lima.** Immensely popular. The plants come true from seed, and the dwarf habit has become well fixed. They grow into splendid branching, circular bushes, 18 to 20 inches high and 2 to 3 feet across. The strong constitution of the plant is shown in its stout, thick stalks and large, deep green, leathery leaves, as much as in its enormous yield



Bush Lima Beans



Black Valentine Beans

of thick, broad, handsome pods, which are as large and well filled as those of the Pole Limas; as many as 200 pods have been counted on a single plant. Identical in size and flavor with the Pole Limas, having the same rich, buttery taste, and preferred by many to that variety.

**Henderson's Bush Lima.** Two weeks earlier than the Pole Limas, and the bushes bear long and continuously. Beans of the small Sieva type.

## ENGLISH BROAD BEAN

**Broad Windsor.** A very hardy, old-fashioned English Shell Bean.

## FIELD BEANS

We carry a selected stock of White Medium, White Kidney, Red Kidney, and Yellow-eye Field Beans at prevailing market prices.

PRICES OF GREEN-PODDED BUSH BEANS	1/2pt.	Pt.	Qt.	1/2pk.
French Dwarf Horticultural . . . . .	\$0 25	\$0 40	\$0 75	\$2 50
Improved Red Valentine . . . . .	20	30	50	1 75
Black Valentine . . . . .	20	30	50	1 75
Bountiful . . . . .	20	35	60	2 00
Boston Favorite, or Goddard . . . . .	25	40	75	2 50
Burpee's Stringless Green-Pod . . . . .	20	35	60	2 00
Ruby Dwarf Horticultural . . . . .	20	40	75	2 50
Low's Champion . . . . .	20	40	75	2 50
Longfellow . . . . .	20	30	50	1 75
PRICES OF BUSH LIMA BEANS				
Fordhook Bush Lima . . . . .	35	60	1 00	3 00
Burpee's Bush Lima . . . . .	35	60	1 00	3 00
Henderson's Bush Lima . . . . .	25	40	75	2 50
PRICES OF ENGLISH BROAD BEAN				
Broad Windsor . . . . .	25	40	75	2 50

### POLE or RUNNING BEANS

Pole Beans are not so hardy as the Bush sorts, and should be planted several weeks later, when danger from frost is over. Plant the seeds in slightly raised hills, 3 to 4 feet apart, four or five seeds to the hill. The Limas are especially tender, and the rule for late outside planting with them is rigid. Pinstaking cultivators, who are usually the most successful, plant them eye downward, after setting stout poles for every hill.

*A quart of Limas will plant about 100 hills; a quart of the small sorts about 200 hills*

**Golden Cluster.** Productive; early; plump, tender, yellow pods, from 6 to 8 inches long, of fine flavor; remains fit for use a long time; vines bear continuously.

**Lazy Wife.** Popular and productive; pods green, 4 to 6 inches long, broad, thick, fleshy, and entirely stringless; of rich, tender quality. Each one contains from six to eight plump, round, white Beans, which are excellent for winter use; late in maturing, and one of the best of this type of Beans.

**Old Homestead, or Improved Kentucky Wonder.** Excellent; very productive; pods a silvery green color, large and entirely stringless.

**Worcester Pole, or Mammoth Carmine Horticultural.** Beans and pods much larger than the ordinary Horticultural.

**Horticultural, or Cranberry.** Good as a Shell Bean, either green or dry; Beans large, spotted with red, of good flavor; very productive.

**Scarlet Runner.** Very ornamental, free climber with bright scarlet flowers.

**White Runner.** Large, white flowers; often planted with the scarlet variety; the effect is very fine.

### POLE LIMA BEANS

**King of the Garden.** An improvement on the Large Lima, with large Beans and pods and more productive habit. When not too closely planted, the vines set Beans early, and bear continuously until frost; only two vines should be allowed to a hill.

**Extra-Early Lima.** A standard variety. The Beans are large and buttery in flavor.

## THE BEST GARDEN BEETS

Sweet and juicy Beet roots, when young and tender, form very tempting salads and pickles. Deep, light, rich, sandy loam is best for the Beet. For very early crops, the seed of Crosby, or some similar sort, is sown in hotbeds, and the seedlings are transplanted to the open ground as soon as it is warm enough. For main crop or early Beets, the seed is sown outside as soon as the soil is in good condition, in drills from 1 to 2 feet apart, and covered about 1 inch deep. For winter crops, sow seed in July, in drills, as for early Beets.

*An ounce of seed will sow 50 feet of drill; 5 to 6 pounds to the acre*

**Crosby's Improved.** Flesh is fine-grained, sweet and tender; color deep, rich red.

**Detroit Dark Red.** Early maturing; of splendid shape and color; skin dark blood-red; flesh bright red, zoned with lighter shade; very crisp, tender, and sweet.

**Early Wonder.** New, distinct, extra-early, turnip-rooted variety of finest table qualities. Flesh is solid, crisp, and sweet.

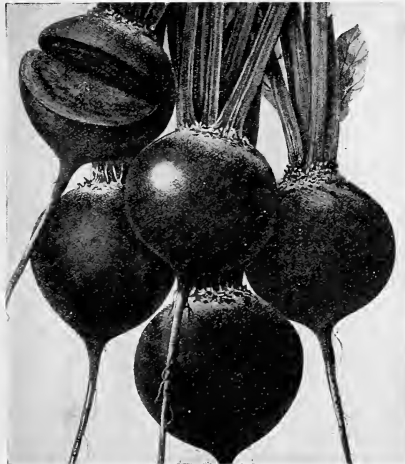
**Edmand's Blood Turnip.** Round, smooth, and uniform in shape; unusually sweet.

**Eclipse.** Globe-shaped; deep red, with sweet, fine-grained flesh; remains tender a long time.

**Swiss Chard (Sea Kale) Beet.** Grown for its tender, succulent tops; prepared like spinach.



Kentucky Wonder Beans



Detroit Dark Red Beets

PRICES OF POLE BEANS				
	1/2pt.	Pt.	Qt.	1/2pk.
Golden Cluster.....	\$0 25	\$0 40	\$0 75	\$2 50
Lazy Wife.....	20	35	60	2 00
Kentucky Wonder.....	20	35	60	2 00
Worcester Pole.....	20	35	60	2 00
Horticultural, or Cranberry.....	20	35	60	2 00
Scarlet Runner.....	25	40	75	2 50
White Runner.....	25	40	75	2 50
PRICES OF POLE LIMA BEANS				
King of the Garden.....	25	40	75	2 50
Extra-Early Lima.....	25	40	75	2 50
PRICES OF BEETS				
	Pkt.	Oz.	1/2lb.	Lb.
Crosby's Improved.....	\$0 10	\$0 20	\$0 50	\$1 50
Detroit Dark Red.....	10	15	40	1 25
Early Wonder.....	10	20	50	1 50
Edmand's Blood Turnip.....	10	15	40	1 25
Eclipse.....	10	15	40	1 25
Swiss Chard (Sea Kale) Beet.....	10	15	40	1 00

### BROCCOLI

Requires the same treatment as cauliflower. The heads are tender, white, and delicate in flavor.

*An ounce of seed will produce about 3,000 plants*

**White Cape.** Heads creamy white, medium size, compact, sure to form, and delicate in flavor. Pkt. 10 cts., 1/2oz. 40 cts., oz. 75 cts.

**Purple Cape.** Like the above, except that the heads are larger and of a purplish color. Pkt. 10 cts., 1/2oz. 40 cts., oz. 75 cts.

## SELECT CABBAGE

Early varieties are grown from seed sown in hotbeds in February or March, only moderate bottom-heat being required. Transplant into other frames, without much, if any, bottom heat, as soon as the plants show the fourth leaf. In April, or as soon as the ground can be easily worked, set out in rows 3 feet apart, and about 1½ feet between the plants. The ground should be thoroughly stirred with cultivator and hoed every week till the plants cover the ground. For a fall crop, sow in the open ground in May, in hills the proper distance apart, using a liberal quantity of manure in the hill, besides that which is plowed in; thin out to one good plant in each hill. In the same way, crops may be grown to lay in for winter use, planting seed as late as July 1. Seeds can also be sown in shallow drills, and, when the plants are large enough, can be transplanted, setting the plants in rows 3 feet apart and 2 feet apart in the row. Succeeds best in deep, rich loam.

**Extra-Early Jersey Wakefield.** The best early variety of Cabbage. Heads of medium size, pyramidal, pointed, firm and solid, with few outside leaves; they are very uniform in shape, size, and time of maturing, and are of good quality.

**Copenhagen Market.** The heads are very solid with a small core and of fine quality; average weight, about ten pounds. It matures as early as the Charleston Wakefield, and will give a much heavier yield than that popular variety; the plant is short-stemmed. Leaves are light green and very tightly folded.

**Golden Acre.** This is a new, early, round-headed Cabbage which closely resembles Copenhagen Market. As its name implies, it is a money maker. Eight to ten days earlier, smaller and can be planted closer.

**Large Jersey Wakefield, or Charleston.** A selection from Early Wakefield, and ten days later, with heads rounded and twice as large.

**Enkhuizen Glory.** An excellent early variety that has become very popular with the market gardeners. Heads are medium sized, dark green, solid, and heavy.

**All Seasons, or Vandergaw.** Noted for its superior quality and delicacy of flavor. Almost as early as Henderson's Early Summer, while the heads are larger and quite thick through; a good variety for early and late crops and a splendid winter keeper.



Pe-Tsai, Chinese Cabbage



Large Jersey Wakefield Cabbage

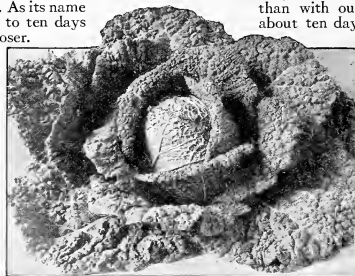
**Select Large Late Flat Dutch.** An excellent keeping variety; the old standby for main crops. Very large; of fine quality.

**Danish Ballhead.** Heads are thick, round, of medium size, and as hard as a rock. The stump averages longer than with our native sorts. For late marketing, plant about ten days earlier than the common Drumhead on land liberally manured.

**Improved American Drumhead Savoy.** Heads large, solid, with finely curled, close, wrinkled leaves, of cauliflower flavor. A good-keeping, fine winter Cabbage.

**Red Dutch.** Widely grown for pickling. A good red Cabbage.

**Warren's Stonemason.** A greatly improved type of Stonemason, being earlier, rounder, and more solid. Will be largely planted when better known.



Improved American Drumhead Savoy Cabbage

## CHINESE or CELERY CABBAGE

We particularly call your attention to this new vegetable which is remarkably well adapted for growing in the private garden. We have never known of a novelty vegetable which has taken greater strides in popularity.

**Pe-Tsai.** This delicious Chinese vegetable belongs to the Cabbage family and closely resembles a well-grown Cos lettuce, but is heavier. We advise that the seed be sown about August 1, (not earlier). Either start in frames and transplant, or simply sow where the plants are to remain in rows, 2½ feet apart, thinning to 1 foot apart in the row. The light green, crumpled-leaved heads are very tender and of a delicious flavor.

## BRUSSELS SPROUTS

This is a very delicate-flavored species of cabbage, with small, solid, tender heads clustered thickly along the main stem. Properly cooked and seasoned, they are delicious, melting away in the mouth like fine cauliflower. Sow seed in April or May and cultivate like cabbage. Hardy, and the heads are improved by frost.

*An ounce of seed will produce 3,000 plants*

**Dwarf Improved.** Plants dwarf, with small, solid, tender heads growing very close together along the stem. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

PRICES OF CABBAGE	Pkt.	½oz.	Oz.	¼lb.
Extra-Early Jersey Wakefield.....	\$0 10	\$0 20	\$0 35	\$1 00
Copenhagen Market.....	10	20	40	1 25
Golden Acre.....	10	60	1 00	3 00
Large Jersey or Charleston Wakefield.....	10	20	35	1 00
Enkhuizen Glory.....	10	20	35	1 00
All Seasons, or Vandergaw.....	10	20	35	1 00
Select Large Late Flat Dutch.....	10	20	35	1 00
Danish Ballhead.....	10	20	35	1 00
Improved American Drumhead Savoy.....	10	25	40	1 25
Red Dutch.....	10	20	35	1 00
Warren's Stonemason.....	10	20	35	1 00
Chinese or Celery.....	10		40	1 00





### Early Wonder Beet

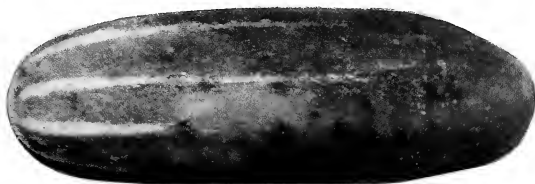
This is the earliest and most perfectly shaped Beet for bunching purposes. Its beautiful deep blood-red, nearly globular-shaped root, small-sized top and small clean tap-root make it a strong asset in the Beet family. The attractive appearance, uniformity of size, shape and color, and excellent keeping qualities have created a very heavy demand for this variety. It is grown very extensively for late fall sowing as it matures two weeks earlier than any other desirable Beet. A field of Early Wonder will mature so evenly that the entire crop may be harvested at one time.

**Pkt. 10 cts., oz. 20 cts., 1/4lb. 50 cts.**

### Golden Plume Celery

This new strain of Celery closely resembles the old Golden Self-blanching in crispness and flavor, but is distinctly larger and ranker in growth, more plainly ribbed, blanches more quickly, matures rather earlier and shows less tendency to blight or crown-rot. It shows the large full-plumed center so much desired. Golden Plume is rapidly displacing Golden Self-blanching as it produces more marketable Celery and is first on the market.

**Pkt. 25 cts., oz. \$2**

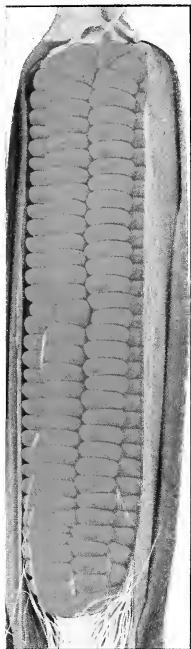


### Davis Perfect Cucumber

Fine length, slimness, beautiful dark green color, transparent-like flesh, with deliciously cool, refreshing flavor, and enjoyable crispness, are distinguishing features and qualities of this, the most popular of the extra-long white-spine Cucumbers. For indoor and outdoor planting it is most popular.

**Pkt. 10 cts., oz. 25 cts., 1/4lb. 75 cts.**





## Golden Bantam Sweet Corn

The most famous Sweet Corn in the world, and *the richest and sweetest of all varieties*. Golden Bantam is an extra-early variety, maturing one to two weeks before any other true Sweet Corn is ready for use. The plants are dwarf, stocky, and grow from 4 to 5 feet tall, usually carrying two ears on a stalk. The flavor of Golden Bantam is entirely distinct—it is not only the sweetest but *surpasses all others by its rich buttery flavor*.

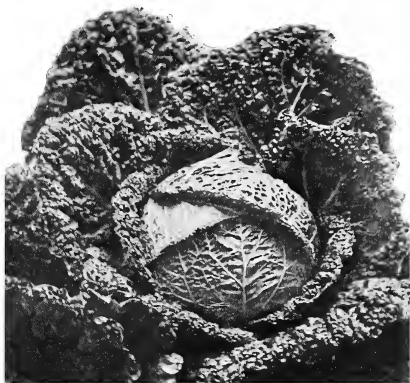
The ears grow about 5 to 6 inches long and are of very handy size to be eaten from the cob. The kernels are broad, deep, and exceptionally meaty, whereas the skin around the kernels is thin and tender.

**Pkt. 30 cts., qt. 50 cts., 4 qts. \$1.50**

## Select Big Boston Lettuce

Big Boston produces large, well-blanched meaty heads of fine, buttery flavor. The most popular midseason variety.

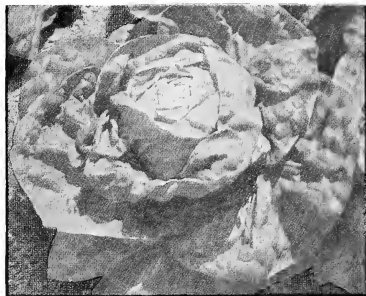
**Pkt. 10 cts., oz. 25 cts.**



## Perfection Savoy Cabbage

The finest firm-headed variety of this delectable vegetable. Quite distinct in flavor from ordinary cabbage and preferred by people of discriminating taste.

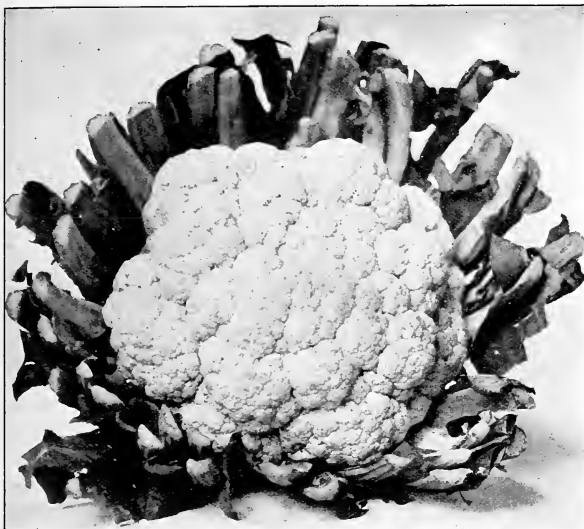
**Pkt. 10 cts., oz. 40 cts.**



## John Baer Tomato

An extra-early scarlet-fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra-early sorts, most attractive in color, nearly round, smooth, firm, and of excellent quality. It is one of the very earliest to ripen, and it continues to furnish marketable fruits much longer than other very early varieties. An invaluable sort for market gardeners, shippers, and canners.

**Pkt. 10 cts., oz. 50 cts.**



Early Snowball Cauliflower

## PRICES OF CAULIFLOWER

	Pkt.	1/2oz.	1/4oz.	Oz.
Henderson's Early Snowball.....	\$0 25	\$1 00	\$1 75	\$3 00
Danish Giant.....	25	1 00	1 75	3 00

## PRICES OF CHICORY

	Pkt.	Oz.	1/2lb.
Large-rooted Magdeburg or Coffee.....	\$0 10	\$0 30	\$0 75
Witloof, or French Endive.....	10	35	1 00

## CARROTS

Carrots succeed best on light, sandy loam, which, preferably, should have been well fertilized the previous year, as fresh manure often causes the roots to grow pronged and misshapen. Sow the seed as early in spring as the ground can be prepared, firming the soil down over it. If sown late, it should be soaked in tepid water, then mixed with plaster or sifted coal-ashes, and sown on freshly prepared soil. Quick germination and rapid growth are necessary.

*An ounce of seed will sow 100 feet of drill, 4 pounds will sow an acre*

**Early Scarlet Horn.** Best for forcing and early outdoor crops; can be grown in shallow soils, and requires no thinning if sparingly sown, as the roots are used when young for cooking. They are about 3 inches long, and of very good quality.

**Feonia.** A novelty from Denmark. A cross between the well-known Nantes and Chantenay varieties.

**Chantenay.** Handsome roots, broad-shouldered and smooth, and more uniform than the Danvers. Of superior flavor.

**Improved Long Orange.** Extensively grown; hardly equal to Danvers in quality, but good and heavy in yield.

**Danvers Half-Long.** Enormously productive; adapted to all soils. The roots are smooth, thick and intermediate between Scarlet Horn and Long Orange in form.

**Oxheart, or Guerande.** Very short, smooth, and thick, and well adapted to shallow soils.

**Large White Belgian.** For stock-feeding and especially suited to shallow soils. Roots white-fleshed, broad at the shoulder and narrowed abruptly to a point.

## CAULIFLOWER

Sow the seeds for early and late Cauliflower crops as directed for cabbage, but do not set the early plants in the field too soon, for if too much stunted by severe frosts, they begin to form heads before they are strong enough to develop them well. Plants which have not headed before winter sets in may be stored in a cool cellar or coldframe, and will form heads there without any further attention. A deep, loamy soil, with a substratum of moisture during dry weather is most suitable for the Cauliflower. Market-gardeners find this one of their most profitable crops, and amateurs who undertake its culture find it easy; but it is a crop in which carelessness or neglect will interfere with the best results.

*An ounce of seed will produce about 3,000 plants*

**Henderson's Early Snowball.** This is the earliest and most popular variety in cultivation, and is largely grown everywhere, both for forcing and early crops outside. The plants are dwarf and sure heading; of fine, delicate flavor.

**Danish Giant.** Finest Danish-grown seed. Almost as early as the Snowball, with larger heads. Very reliable header. A feature of it, the leaves curling over the head, does away with tying to blanch, and gives it the name of Self-protecting Cauliflower. Excellent for market or family use.

## CHICORY

The seed should be sown as early as possible in spring, in good, mellow soil; make the drills at least half an inch deep.

**Large-rooted Magdeburg, or Coffee.** The roots of this variety form the Chicory of commerce. The leaves, when blanched, make an excellent salad.

**Witloof, or French Endive.** Esteemed as a salad plant. Spring-grown seeds produce parsnip-like roots by November. Cut the leaves off 1½ inches from neck, trench 1½ inches apart, cover with soil 8 inches over crown; then place a 2- to 3-foot layer of fresh manure which induces new growth of blanched leaves folded like cos lettuce, which are eaten raw as salad.

CARROTS	Pkt.	Oz.	1/2lb.	Lb.
Ea. Scarlet Horn.....	\$0 10	\$0 25	\$0 60	\$2 00
Chantenay.....	10	25	60	2 00
Imp. Long Orange.....	10	20	50	1 50
Danvers H.-Long.....	10	20	50	1 75
Oxheart.....	10	20	50	1 75
L. W. Belgian.....	10	15	35	1 00
Feonia.....	10	30	1 00	3 00



Improved Long Orange Carrots



Golden Plume Celery

## CRESS

The leaves form spicy spring salads, and are also used for garnishing. Plants increase rapidly from the roots and by self-seeding, and require little care after they become established. Sow Pepper-Grass thickly in shallow drills in early spring, and at intervals for continual supply, as it soon runs to seed.

**Water Cress.** Tender, crisp, and spicy when young. Plant with prostrate habit. A perennial aquatic, which grows well in any stream, forming large beds of leaves.

**Extra-Curled, or Pepper-Grass.** Of pleasant, pungent flavor; leaves can be cut several times; grows well in almost any soil.

PRICES OF CELERY	Pkt.	$\frac{1}{2}$ doz.	Doz.	$\frac{1}{4}$ lb.
Easy Blanching	\$0 10	\$0 30	\$0 50	\$1 50
Winter Queen	10	30	50	1 50
Giant Pascal	10	30	50	1 50
Paris Golden	10	60	1 00	3 00
Boston Market	10	30	50	1 50
Golden Plume	25	1 25	2 00	

PRICES OF CELERIAC	Pkt.	$\frac{1}{2}$ doz.	Doz.	$\frac{1}{4}$ lb.
Prague Giant	10	30	50	1 50

PRICES OF CRESS	Pkt.	$\frac{1}{2}$ doz.	Doz.	$\frac{1}{4}$ lb.
Water Cress	10	35	60	2 00
Extra-Curled, or Pepper-Grass	10		15	40

## CELERY SEED

Celery can be grown in any soil, but is finest on deep, mellow bottom land. Seed for early crops should be sown in hotbeds about March 15; if sown too early, the plants are apt to run to seed after being transplanted. The plants may either be thinned to give them room to grow, or transplanted to another bed to grow until it is time to plant them in the open ground. For the main crop, seed should be sown in the open air as soon as the soil and air are warm enough. They should be covered very lightly, or merely pressed into the earth with a board, if the soil is fine and mellow. The seed-bed must be kept free from weeds and well watered in dry weather. When the plants are large enough, transplant them to shallow trenches or furrows from 4 to 6 feet apart, according to the variety grown, setting the plants 6 inches apart in the rows, and pressing the soil firmly around them. They must be well cultivated and kept free from weeds until ready for blanching, which consists in drawing earth up to the stalks at intervals of about two weeks, until all but the tops of the plants are covered. During this process no earth should be allowed to fall into the center of the plant, as this would cause them to rust or decay. Celery may be kept for winter use in pits or cellars, or in deep, narrow trenches, in a dry situation; the latter must be covered with boards, with sufficient soil and manure on top to keep out the frost, leaving openings for ventilation in mild weather at short distances.

*An ounce of seed will produce about 2,000 plants*

**Golden Plume Celery.** A new early Celery of great merit. Large, robust stalks, easily blanched, blight-proof, and of that crispness and nutty flavor so much desired. We consider this and our strain of Originator's Golden Self-blanching, the two finest Golden Celeries in cultivation.

**Easy Blanching.** This will mature just after the Golden Self-blanching has been harvested. The general color is pale green, with a slight yellowish tinge, which gives it a blanched appearance. The inner stalk, at a very early stage of growth, blanches to a rich golden yellow, so that the usual banking work is eliminated. If stored properly, this variety will keep in good condition all winter without difficulty.

**Giant Pascal.** The stalks are remarkably broad and thick, and about 2 feet high, yet blanch quickly with but slight banking. Their rich, nutty flavor is entirely free from any bitter taste, and they are tender, crisp, and stringless. A valuable sort for both early and late use.

**Paris Golden.** Self-blanching. Has stalks of beautiful golden yellow, equal in quality to those of any variety grown. Plants semi-dwarf and vigorous, with large, ribbed and rounded stalks, which are quite crisp and tender. Distinguished, when quite small, by the distinct yellowish green of its leaves. One of the best and handsomest of Celeries in our collection.

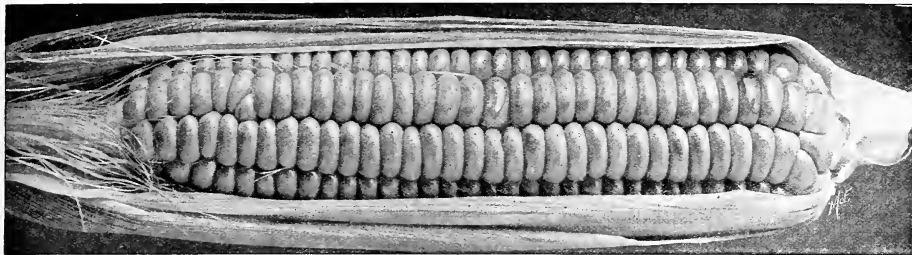
**Boston Market.** The dwarf, branching variety grown so extensively about Boston. It is unequalled by any other sort, being solid, crisp, and of excellent flavor. Its compact, dwarf habit allows closer planting and requires less earthing up than taller sorts. Especially desirable as a market variety but also good for the home garden.

## CELERIAC, or TURNIP-ROOTED CELERY

The seed should be sown in early spring, in light, rich soil; the seedlings transplanted in May, and watered freely in dry weather. They will be ready for cooking in October and may be preserved for use during winter in dry sand. Celeriac is said to be as fine a nerve tonic as celery, and can be grown in many sections where celery culture is practically impossible. The roots have almost the same flavor as the crispest white celery stalks, and do not require half so much care in banking, while they keep perfectly with no more care than a crop of turnips—much longer than celery stalks can be kept in good condition.

*An ounce of seed will produce about 5,000 plants*

**Prague Giant.** The roots of this variety are very large and smooth, with no side roots, and sell better in market than those of almost any other sort offered. When young, they are quite tender and marrow-like, having a very fine flavor and cooking quickly.



Golden Bantam Sweet Corn

## CORN, Sweet or Sugar

It is our opinion, after several years of testing, side by side, that eastern-grown Sweet Corn is far superior to western in sweetness, and also retains this necessary quality for a much longer time. This is also the opinion of many of our local market-gardeners. *Our entire stock for this season we guarantee to be New England-grown.* This delicious vegetable may be enjoyed from early summer until frost if proper varieties are selected and planted for succession every two weeks from May until the middle of July. If the seed is planted too early, before the ground becomes warm, it is liable to decay. Plant in hills 3 to 4 feet apart each way, five or six kernels to a hill; or in rows 4 to 5 feet apart, scattering the seed thinly in the rows. The taller-growing the variety, the richer should be the soil and the wider the space allowed for development.

On Corn, if to be sent by mail, add postage at the rate given in table on second page of cover

### EARLY VARIETIES

**Caswell's Early Market.** A splendid, large-eared, early Corn. Matures just after the Cory, but with ears averaging 10 inches long. Cob and kernels white; good quality; fills out clear to the tip.

**Golden Bantam.** Stalks about 4 feet high; ears about 6 inches long; grains rich creamy color, and is actually the finest flavored of all Sweet Corn; very early.

**Early White Cory.** The earliest variety; stalks short; ears set quite low, of fair size, and well filled with large, pure white grains of fine quality and flavor.

**Early Mayflower.** One of the earliest; uniform as to type and productiveness; ears large, evenly and compactly filled with tender, white kernels of very fine quality for a first-early.

**Howling Mob.** For second-early crop. Large, well-filled ears, and a sure seller.

### SECOND EARLY AND GENERAL CROP

**Carpenter's Golden Sweet.** Ears about double the size of Golden Bantam; about ten days later; quality fine, without the mealy taste of most yellow Corns.

**Early Crosby.** Ears good-sized, 12-rowed, filled with thick, sweet grains; but little later than Perry's Hybrid. Productive, vigorous, and hardy.

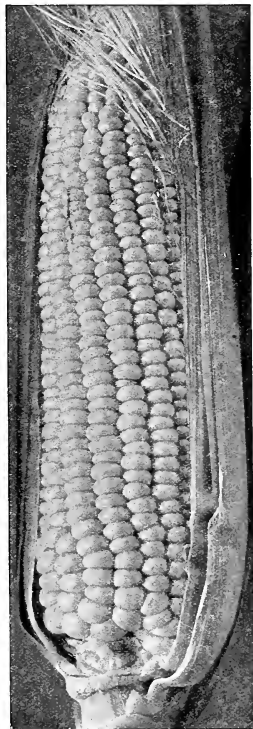
**Squantum Sweet.** Best for table use. Our stock is pure, being grown by us from selected ears.

**Country Gentleman.** Ears of good size and well filled to the tips with deep, tender, white grains of delicious quality; cobs small; stalks productive, averaging three ears each.

**Stowell's Evergreen.** Ears large, with deep, tender, sugary grains, and remain fit for use longer after maturity than any other Sweet Corn. Productive and hardy; adaptable as an early or a late sort; fine for private garden, market, and canning.

**Early Mammoth.** Enormous ears, frequently weighing two to three pounds; cobs large; grains flat; quality very good; very productive, and matures a little earlier than Stowell's Evergreen.

**Bearsfoot.** A late variety of extraordinary sweetness; large ears; very desirable for market.



Stowell's Evergreen Corn



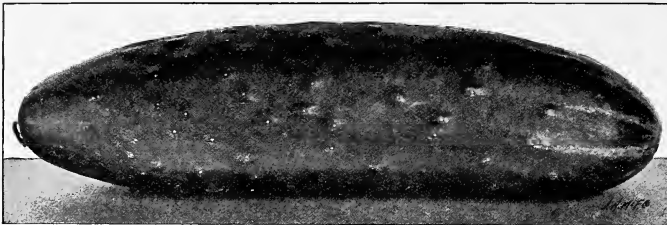
Country Gentleman Corn

#### PRICES OF EARLY SWEET CORN

	1/2pt.	Pt.	Qt.	1/2pk.
Caswell's Ea. Market.	\$0 15	\$0 25	\$0 40	\$1 25
Golden Bantam	20	30	50	1 50
Early White Cory	15	25	40	1 25
Early Mayflower	15	25	40	1 25
Howling Mob	15	25	40	1 25

#### SECOND-EARLY

	1/2pt.	Pt.	Qt.	1/2pk.
Carpenter's Gol. Sweet.	\$0 20	\$0 30	\$0 50	\$1 50
Early Crosby	15	25	40	1 25
Potter's Excelsior	15	25	40	1 25
Squantum Sweet	15	25	40	1 25
Country Gentleman	20	30	50	1 50
Stowell's Evergreen	20	30	50	1 50
Early Mammoth	15	25	40	1 25
Bearsfoot	25	40	75	2 50



Barrett's Hothouse Cucumber

two weeks until midsummer. Extra-early crops may be grown by planting the seed in hotbeds in April, upon pieces of sod turned upside down, and removing these to hills in the open ground as soon as the weather is warm enough. For pickles, sow the seed from the middle of June until the middle of July. The vines bear longer if the fruits are gathered as soon as they are large enough; their strength is soon exhausted by ripening fruit.

*An ounce of seed will plant 50 hills; 2 pounds will plant an acre*

**Barrett's Hothouse.** The finest strain of Cucumber for forcing.

**Boston Pickling.** Very popular for pickles; fruit smooth and symmetrical, but slightly pointed at the ends; bright green.

**Fordhook White Spine.** Early, productive, and suitable either for forcing or outdoor crops. Fruit of medium size, good shape, light green, with a few white spines on the surface.

**Cumberland.** The best pickling sort yet introduced; very handsome and productive; flesh firm but very crisp and tender at all stages of growth; straight and symmetrical.

**Improved Long Green.** The leading long-growing sort, and excellent for pickles. The fruits are dark green, long, well-shaped, firm, and crisp.

**Everbearing.** The vines produce fruit until frost; early and productive. Fruits are small, well shaped, and of good quality for pickling.

**Early Cluster.** Produced in clusters, and abundantly; short, dark green, firm, crisp, and tender.

**Davis Perfect.** After several years' trial, we give the introducer credit for all he claims for it.

**Japanese Climbing.** Vigorous, tall-climbing, and clings tightly to trellises. Fruits almost straight, large, and from 12 to 16 inches long; skin dark green; flesh thick and delicately flavored.

**West India Gherkin.** Its small, rough, prickly fruits are used for pickling. The vines grow quite rapidly and bear heavily.

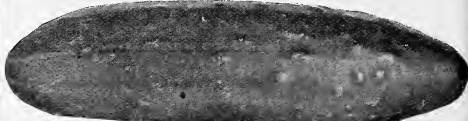
**English Frame, Best Varieties: Sion House and Telegraph.**

## CUCUMBER

All the Best Sorts for Salads and Pickling

For general crop, the seed cannot be planted in the open ground before the weather has become warm and settled and the ground mellow and light. Plant the seed in well-enriched hills, about 4 feet apart each way, and as soon as all danger from insects is over, thin the plants to leave four of the strongest in each hill. For succession, sow at intervals of every

two weeks in April, upon pieces of sod turned upside down, and removing these to hills in the open ground as soon as the weather is warm enough. For pickles, sow the seed from the middle of June until the middle of July. The vines bear longer if the fruits are gathered as soon as they are large enough; their strength is soon exhausted by ripening fruit.



Fordhook White Spine Cucumber

### PRICES OF CUCUMBERS

	Pkt.	Oz.	1/4lb.	Lb.
Barrett's Hothouse . . . . .	\$0 15	\$0 60	\$2 00	
Boston Pickling . . . . .	10	20	50	\$1 50
Fordhook White Spine . . . . .	10	20	65	2 00
Cumberland . . . . .	10	20	50	1 50
Improved Long Green . . . . .	10	20	50	1 50
Everbearing . . . . .	10	20	50	1 50
Early Cluster . . . . .	10	20	50	1 50
Davis Perfect . . . . .	10	25	75	2 50
Japanese Climbing . . . . .	10	20	65	2 00
West India Gherkin . . . . .	10	25	75	
English Frame: Sion House and Telegraph . . . . .				Each, 25

### PRICES OF DANDELION

	Pkt.	1/2oz.	Oz.	1/4lb.
Improved American Thick-leaved . . . . .	\$0 10	\$0 35	\$0 60	\$2 25

### PRICES OF EGGPLANT

Black Beauty . . . . .	10	30	50	1 75
Improved Long Purple . . . . .	10	30	50	1 75

## DANDELION

Furnishes our earliest and most healthful crop of spring greens. Sow the seed as early as the weather will allow, in good, well-enriched soil, and in rows a foot apart; cover them only 1/4 inch deep, and firm the soil down above them. Thin plants to stand 2 to 3 inches apart in the rows, that the roots may grow large and solid, thus saving much time in trimming.

*An ounce of seed will sow 100 feet of drill; a pound will sow an acre*

**Improved American Thick-leaved.** The best variety.

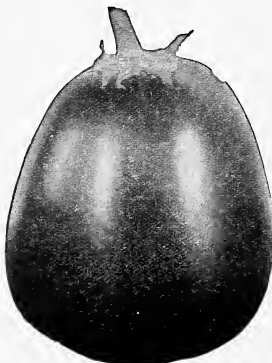
## THE BEST EGGPLANT

Sow the seed in hotbed early in March, transplant to small pots, and plunge them in the same beds; this is to make them strong and stocky. They should not be planted out in rows until May or June, when the weather becomes warm and settled, as cool nights and wet weather will check their growth. Set the plants in rows 3 feet apart each way, and give them a thorough cultivation, drawing the earth up to the stems when they are about a foot high; it is well to keep some plants in the hotbed for replanting. Repeated sowings are sometimes necessary, as the seed does not germinate freely without strong and uniform heat. In cutting the fruit, be careful not to injure the plants.

*An ounce of seed will produce 1,000 plants*

**Black Beauty.** The leading market variety, strong and productive in habit. The fruits are deep purple, large and smooth, entirely free from thorns, and the flesh is white, tender, and delicately flavored. The plant is robust and a good yielder on all rich soils.

**Improved Long Purple.** An early, hardy, and prolific variety with fruits of excellent quality, 6 to 10 inches in length and 2 to 3 inches in diameter. It is a rich dark purple in color.



Black Beauty Eggplant

## ENDIVE (The Winter Salad)

This is an important fall and winter salad. For early crop, the seed should be sown in April, in drills 15 inches apart, and the seedlings thinned to stand a foot apart in the rows. Sowings for the main crop can be made in June and July, as the vegetable is used principally in fall and winter. The inner leaves may be blanched to a beautiful yellowish white in from three to five weeks by tying the tips of the outer ones together, or by laying boards over the plants.

*An ounce of seed will sow 100 feet of drill*

**Green Curled.** The one most generally cultivated. Dark green leaves, beautifully curled, and, when blanched, very crisp and tender; they are ready for use a little earlier than the other sorts.

**Broad-leaved Batavian.** The broad, thick leaves make excellent salads when blanched. The plant is very hardy, and yields heavier crops than other sorts, but does not blanch so easily.

## KALE, or BORECOLE

Under this name are classed several species of the cabbage family which do not form heads. Some of them have very tender leaves of delicate flavor, and all are quite hardy, being improved rather than injured by frost. Sow the seed in beds in April or May and transplant and cultivate the seedlings like cabbage. They grow in almost any soil.

*An ounce of seed will sow about 200 feet of drill*



Early White Vienna Kohlrabi

**Early White Vienna.** The best and earliest market sort. The plants grow rapidly, have small foliage, and mature their fine, round, white bulbs quite early; flesh fine-grained, white, tender, and good; tops quite short.

**Early Purple Vienna.** This variety differs from the above mainly in the color of its roots, which are bluish purple; in quality they are superior to those of many other sorts.

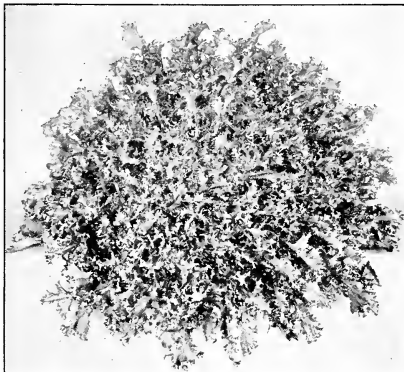
## LEEK

The Leek is generally considered superior to the onion in flavor, and is much used for seasoning soups and boiling with meats. The plants are easily cultivated and very hardy, enduring the severest winter weather without protection. The seed should be sown in hotbeds in early spring, and the seedlings transplanted later to the open ground, 8 inches apart, in rows from 12 to 15 inches apart. For a winter supply of this, sow seed in the open ground in early spring and thin the seedlings until they have room for development, or transplant them as above; the former method gives larger stalks some time earlier than when the roots are transplanted. They should be stored like celery for winter.

*An ounce of seed will sow about 100 feet of drill*

**Musselburg.** Hardy; popular; broad, spreading leaves; very large stalks.

**London Flag.** The variety most extensively cultivated. The stalks are large and the leaves grow from their sides, as in the flag.



Green Curled Endive

**Tall German Greens (Siberian Kale).** A standby everywhere for winter greens.

The seed is generally sown broadcast, but can be sown in drills a foot apart in September, and the plants treated like spinach; they will be ready for use early in the spring.

**Dwarf Curled Green Scotch.** A dwarf, spreading variety, seldom exceeding a foot in height, but rounding out to a diameter of 2 feet under good cultivation. The leaves are bright green, tender, and elegantly curled. The variety is very hardy and one of the best grown. Two weeks later than the preceding sort, but stands longer before going to seed.

## KOHLRABI

This Turnip-rooted Cabbage is very palatable when prepared for the table like turnips, and when fed to cows gives no unpleasant flavor to the milk. If the weather is favorable, the seed should be sown in April, in rows 1½ feet apart, and the seedlings thinned to stand a foot apart for large varieties, and 6 to 8 inches apart for other sorts; they are somewhat difficult to transplant. The stems swell into large bulbs just above the ground, and these are fit for use when 3 to 4 inches in diameter. For late crops, sow in June or July.

*An ounce of seed will produce about 3,000 plants*



London Flag Leeks

### PRICES OF ENDIVE

	Pkt.	½oz.	Oz.	¼lb.
Green Curled...	\$0 10	\$0 15	\$0 25	\$0 75
Broad Batavian..	10	15	25	75

### PRICES OF KALE

Tall Ger. Greens..	10	15	20	50
Dwf. Curled Green	10	15	20	50
Scotch.....	10	15	20	50

### PRICES OF KOHLRABI

	Pkt.	½oz.	Oz.	¼lb.
Early White	10	20	35	1 00
Vienna.....	10	20	35	1 00
Ea. Pur. Vienna...	10	20	35	1 00

### PRICES OF LEEK

Musselburg.....	10	20	35	1 00
London Flag.....	10	20	35	1 00



May King Lettuce

summer months. Drought and hot weather are its worst enemies, as during such periods it inclines to run up to seed. Seed may be sown in a frame in February or March, not much bottom heat being required. The plants may be set out as early as the ground can be worked, as light frosts will not injure them. Set in rows about 1½ feet apart, leaving 8 to 10 inches space between the plants. For successive crops, sow every two weeks up to July.

One ounce of seed will produce 3,000 plants

**Hothouse Lettuce.** This is especially adapted for growing in the greenhouse or hotbed. Forms very large heads, not liable to rot in the heart, making it a most valuable sort for the market-gardener. A favorite in the Boston and New York markets. The largest plain-leaf Lettuce.

**Tomhannock.** Leaves almost white, crisp, and tender; edges of the outer leaves reddish bronze; very handsome.

**Salamander.** A valuable outdoor Lettuce. Of large size, solid, good color; stands well during the hot summer months.

**May King.** A recent variety of great value on account of its extreme earliness, large size, and tenderness. Will head with heat as well as outdoors, though it attains a better size with open-air culture. Has a globular-shaped head of enormous size, hard and well closed. A decided acquisition for the market and home-gardener, and bids fair to be one of our most popular sorts.

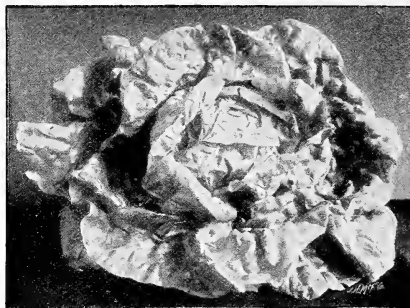
**Black-seeded Tennisball.** This variety is the most popular for outdoor culture. It forms a handsome, compact head, with very few outside leaves, and is crisp and tender.

**Boston Market** (White-seeded Tennisball). Grown extensively under glass, by market-gardeners for winter use; very compact head.

**Big Boston.** Similar to the Boston Market, with heads twice as large and a week later in maturing. The solid, large heads make them of great value for general crop.

**Hanson.** Vigorous; forms immense heads; leaves green, light yellow within; sweet, crisp. One of the best for market- or home-gardens and is growing in popularity year after year.

**Iceberg.** Large, solid heads, very handsome, tender and crisp.



Big Boston Lettuce

**Curled Silesia.** Very early and tender.

**White Paris Cos.** A sort with long, narrow, upright leaves; does not head, but when tied up blanches very nicely; bears close planting. A splendid sort for summer use.

**Wonderful** (New York). A variety considerably larger than Iceberg and about ten days later. The outer leaves are a distinct dark green compared to Iceberg.



Fennel

## FINOCCHIO or FLORENCE FENNEL

A delicious Italian vegetable which tastes quite like Celery, but is a little sweeter and more delicate in flavor. The enlarged leaf-bases are usually boiled in preparation for the table.

## MUSTARD

**White London.** A variety with small, smooth, dark green leaves, which are greatly relished as salads, or when cooked like spinach. The seed should be sown in shallow drills as early as the ground can be prepared in spring.

LETTUCE PRICES									
	Pkt.	Oz.	¼lb.	Lb.		Pkt.	Oz.	¼lb.	Lb.
Hothouse	\$0 10	\$0 60	\$2 00		Big Boston	\$0 10	\$0 25	\$0 75	\$2 00
Tomhannock	10 25	75	\$2 00		Iceberg	10 25	75	2 00	
Salamander	10 25	75	2 00		Hanson	10 25	75	2 00	
May King	10 25	75	2 00		Curled Silesia	10 25	75	2 00	
Black-seeded Tennisball	10 25	75	2 00		White Paris Cos.	10 25	75	2 00	
Boston Market	10 25	75	2 00		Wonderful	10 25	75	2 50	
PRICES OF FINOCCHIO, or Florence Fennel					PRICES OF MUSTARD, White London				
	10	30	1 00	3 00		10	15	25	75



## MUSKMELONS

Muskmelon seed should not be planted outdoors until all danger of frost is over and the ground has become warm and dry. The hills should be about 6 feet apart and carefully prepared. Rich earth is far better for the young plants than manure, but if the latter must be used, see that it is well rotted. Plant from six to twelve seeds in a hill, and when the young seedlings are strong enough to resist the attacks of insects, thin them, leaving three of the strongest in each hill. The vines should have clean cultivation until they cover the ground, and if they grow too rank, the tips of the shoots should be pinched off, causing them to set more and larger fruits.

*An ounce of seed will plant about 80 hills*

**Extra-Early Hackensack.** A selection from the Hackensack, and with fruits much like the parent, but ready for market ten days earlier. Of good size, weighing from five to ten pounds each.

**Emerald Gem.** Early, with small, smooth-ribbed, dark green fruits; flesh thick and salmon-colored, granular, sweet and rich; very delicious and satisfying to the taste; the vines bear heavily.

**Miller's Cream, or Osage.** Fine, attractive fruits which sell quickly in market, and therefore a favorite among the truckers. The fruits are large and round, with light green, netted skin; thick, sweet, salmon-colored flesh.

**Honey Dew.** The Honey Dew averages 9 inches long and 7 inches wide. Greenish white until dead ripe, then pale yellow; of excellent flavor. Our season is hardly long enough to mature it unless started under glass.

**Arlington Nutmeg.** A popular variety, extensively grown by market vegetable growers; good flavor; flesh yellowish green.

**Long Island Beauty.** Round; one of the earliest.

**Rocky Ford.** This new and valuable introduction has attained a great reputation in a very short time. It is oval in shape, of a delicate flavor; flesh light green; size medium. A good shipper. This is the melon that has made so much money for Colorado shippers.

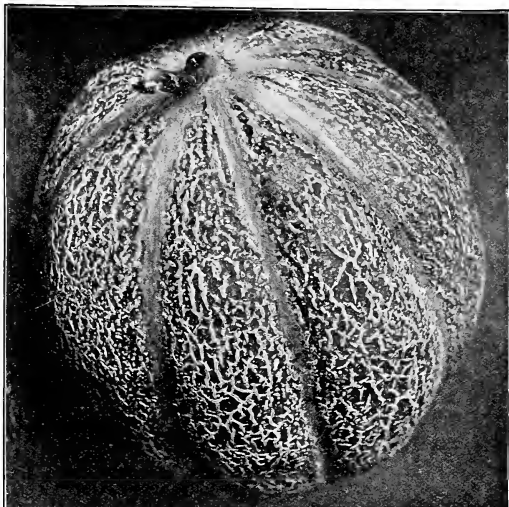
## OKRA

The tender, young pods are used for seasoning soups and stews. Sow the seed thickly in rich soil, about the middle of May, in drills 3 feet apart, and cover the seeds an inch deep. Thin the young plants to stand 10 inches apart, hoe them often and earth up the stems a little in cultivation, for support.

*An ounce of seed will plant 100 hills*

**Improved Dwarf.** Grows about 14 inches high and produces twice as many pods as the taller sorts. Pods smooth, tender, and well-flavored.

**White Velvet.** Pods pure white, round and smooth, with no square edges or disagreeable prickles; also larger than in most sorts.



Emerald Gem Muskmelon

PRICES OF MUSKMELONS				
	Pkt	Oz.	1/2 lb.	Lb.
Extra-Early Hackensack	\$0 10	\$0 15	\$0 40	\$1 25
Emerald Gem	10	15	40	1 25
Miller's Cream, or Osage	10	15	40	1 25
Honey Dew	10	40	1 25	4 00
Arlington Nutmeg	10	15	40	1 25
Long Island Beauty	10	15	40	1 25
Rocky Ford	10	15	40	1 25
PRICES OF OKRA				
Improved Dwarf	10	15	25	75
White Velvet	10	15	25	75
PRICES OF PURE-SPORE CULTURE MUSHROOM SPAWN				
Carton				\$1 00
12 cartons				10 75



Mushroom Spaw

## PURE-SPORE CULTURE MUSHROOM SPAWN

The growing of Mushrooms is rapidly increasing, and the demand for them has reached immense proportions. A fine crop of Mushrooms can be secured with very little labor or expense, provided a suitable location can be obtained. Cellars, greenhouses, and sheds can be used for their culture. We are now offering our customers Spaw that is made in quart milk jars under absolutely sterile conditions. The bottle and materials are sterilized under steam pressure of twelve pounds, so that every mould, weed seed, or insect is destroyed, and each bottle contains nothing but the pure Spaw. Every particle is full run, covered with Spaw grown direct from the spores. One carton of the Spaw equals five bricks of ordinary Spaw and is sufficient to spawn about 40 square feet. The sterile Spaw is dried thoroughly and each piece wrapped in tissue paper, which contains full instructions, not only as to how the Spaw should be used, but full particulars about growing Mushrooms. Anyone can order Spaw and with it get the necessary knowledge to make growing entirely successful.

## WATERMELONS

An effort should be made to secure good, strong vines early in the season, and this can be done by taking care that the hills are large, mellow, and well-drained, with the manure placed so that they will not dry out quickly under hot suns. All possible protection from insects should be given the young plants, and their growth may be hastened still further by frequent applications of liquid manure. As a protection from insects, netting is frequently used, and also dry ashes or coal-dust sprinkled over the leaves when wet. Plant the seeds thickly and thin the plants to four of the strongest in each hill.

An ounce of seed will plant about 60 hills

**Cole's Early.** A fine early Watermelon; can be grown over a large latitude; flesh bright red; fruit nearly round; rind thin.

**Sweetheart.** Large and nearly globular; skin bright, mottled green; flesh bright red, firm and heavy, crisp, melting, and exceedingly sweet. A good shipper and keeper.

**Ice Cream.** An early-season, delicious home market melon. It has too thin a rind for shipping. Few, if any, melons surpass this for quality and productiveness. Flesh bright scarlet, solid to center, melting and delicious.

**Kleckley Sweets.** This sweetest of all melons has now become exceedingly popular. Luscious flavor; fine-grained, tender meat; large.

**Cuban Queen.** Round; large; flesh bright red, very crisp, delicate, and sweet. An early and reliable sort.

**Mountain Sweet.** Form rather long; color dark green; seeds dark; very solid, sweet, and crisp. A safe variety for northern growing.

**Red-seeded Citron.** Round; marbled with light green; the flesh is white and solid; seeds red.



Sweetheart Watermelon

## PARSLEY

The leaves of most sorts of Parsley are beautifully curled, and useful for garnishing as well as flavoring.

An ounce of seed will sow about 150 feet of drill

**Champion Moss Curled.** Leaves bright green, finely cut, and beautifully curled.

**Plain Leaf.** Leaves are longer and darker green than the curled varieties; very hardy.

## ONION SEED

Good Onion Seed is the Foundation for a Good Crop

The Onion has been cultivated as an article of food from the earliest times, and is now perhaps more universally grown than any other vegetable. A good crop is impossible unless the soil is very rich and kept clean. Use well-rotted manure freely, and get the crop in as soon as possible in the spring, no matter if the weather is cold and unpleasant. Sow in drills 1 foot apart and cover about one-third of an inch, treading or rolling after sowing, so that the hot, dry atmosphere may not dry up and destroy the sprouting seed. When 3 inches high, thin to 2 inches apart. Stir the ground freely without disturbing the young plants and keep free from weeds.

One ounce to 100 feet of drill; 4 to 5 pounds per acre

**Yellow Globe Danvers.** Buxton type, selected, home-grown stock. Early; globe-shaped, with very small neck; large; good keeper. The best for general crop.

**Red Wethersfield.** One of the most productive and long-keeping. Bulbs deep purplish red, large, flat, strong-flavored, and grow to a large size the first year from seed.

**Southport Red Globe.** This is a favorite with all who grow Red Onions. It grows to fair size, with very small neck, and bright red in color. We offer a fine stock.

**Southport Yellow Globe.** This variety is of the same general character and quality as the Southport Red Globe, but the color is a rich yellow.

**Southport White Globe.** A large, showy, globular white Onion, which sells quickly in market. The bulbs grow quite rapidly and, if the seed is sown early, good-sized roots, suitable for pulling and marketing in a green state, are soon formed. They are mild-flavored, keep well, and the yield is good.

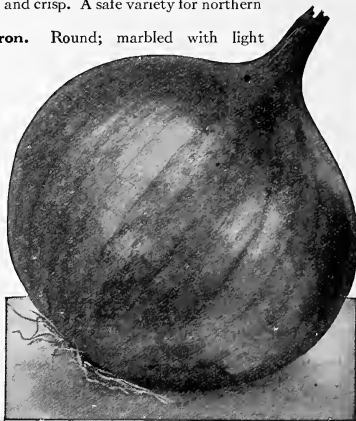
**White Portugal, or Silverskin.** Largely grown for white Onion sets. Bulbs large, fine in appearance, with silvery white skin and sweet, tender white flesh. They do not keep well, but are mild-flavored and excellent for family use and for pickling.

**Spanish King, or Prizetaker.** Bulbs very large, round, and handsome; rich yellow skin; mild, sweet, pure white flesh; quite free from stiff necks. Bottom well and yield enormously. A very desirable sort.

## ONION SETS

These are small Onions grown the previous year, ripened off, and taken up when mere bulbets. They produce a very early and profitable crop, and grow in any good soil. Set them in rows 1 foot apart and 3 inches apart in the rows.

**White Sets, Yellow Sets, Japanese Sets, Potato Onion Sets, Shallots, Top Onion Sets.** Market price; price variable.



Southport Yellow Globe Onion

## PRICES OF WATERMELONS

	Pkt.	Oz.	1/1b.	Lb.
Cole's Early	\$0 10	\$5 40	\$0 40	\$1 00
Sweetheart	10	15	40	1 00
Ice Cream	10	15	40	1 00
Kleckley Sweets	10	15	40	1 00
Cuban Queen	10	15	40	1 00
Mountain Sweet	10	15	40	1 00
Red-seeded Citron	10	15	40	1 00

## PRICES OF ONION SEED

Yel. Globe Danvers	10	30	1 00	3 50
Red Wethersfield	10	30	1 00	3 50
Southport Red Globe	10	30	1 00	3 50
Southport Yel. Globe	10	30	1 00	3 50
Southport White Globe	10	40	1 25	4 50
White Portugal	10	40	1 25	4 50
Spanish King	10	40	1 25	4 00

## PRICES OF PARSLEY

Champion Moss Curled	10	20	50	1 50
Plain Leaf	10	20	50	1 50

## GARDEN PEAS

All smooth-seeded Peas may be planted as early in spring as the soil can be prepared for them. They are very hardy and will endure a low temperature, both before and after sprouting. By sowing for the first crop as early as is practicable, and for succession at intervals of about two weeks until the first of June, a good supply of this delicious vegetable may be enjoyed through the greater part of the summer. Late sowings, however, do not yield so well as early ones, because the hot and dry weather is unfavorable to the development of the plants. The seeds should be sown in drills about 3 inches deep and from 3 to 4 feet apart, according to the variety, taller sorts requiring more room than the dwarf ones. Dwarf Peas require a very rich soil, while tall ones thrive best in rather thin ground, which does not stimulate too luxuriant growth in the vines, to the detriment of the pods. The latter are frequently sown in double rows, with brush or support of some kind between them. Wrinkled Peas are not so hardy as the smooth sorts, and should not be sown so early, but are superior to them.

One quart of seed will plant about 125 feet of drill

If to be sent by mail add postage at the rate given in table on 2d page of cover

### EXTRA-EARLY PEAS

#### Medium and Dwarf Sorts

A star (\*) indicates a wrinkled variety

**The W. E. B. Co.'s Maud S.** A favorite with the market-gardeners on account of its earliness, extreme productiveness, vigor, and vitality, often resisting a drought and maturing a crop when ordinary sorts of earlies have failed. 2 feet.

**Alaska.** One of the earliest in cultivation; about 75 per cent of the pods can be gathered at the first picking. Vines are very thrifty, growing about 2 feet high; pods small, but well filled with plump, excellent dark green Peas.

**\*Pioneer.** Introduced by a noted English grower. The plant is unusually robust in habit, carries a heavy crop of long, pointed pods of a dark green color. So numerous are the pods that the plants present a most striking appearance. One gardener stated that he planted April 1 and the first pods were harvested June 16, beating Gradus by a fortnight. Height about 2 feet.

**\*Little Marvel.** This is a Pea of extra value. It grows about 15 inches high with pods very dark green, well filled with five to seven Peas of excellent flavor; very productive; quite early. We recommend it for either the family garden or for market.

**Hundredfold.** This is, without doubt, the very best dwarf Pea ever grown. We have found none so near perfection as Hundredfold. It is the best-flavored and the largest-podded dwarf-growing sort in existence, ready about three days after the earliest, and bears an enormous crop of handsome, intensely dark green, fairly broad and pointed pods, 4 inches long, containing about eight large, dark green Peas of excellent quality. The vines are 16 inches high, sturdy, and resist heat well.

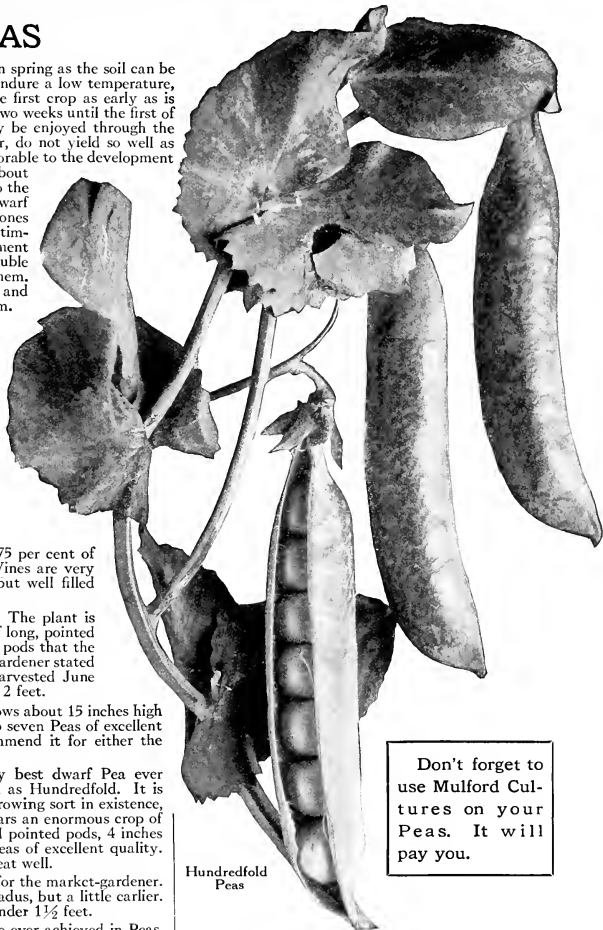
**\*Laxtonian.** One of the best dwarf, wrinkled Peas for the market-gardener. Pods about 4 inches long, resembling those of Gradus, but a little earlier. Vines productive and vigorous; average height under 1½ feet.

**\*Gradus.** This is undoubtedly the greatest advance ever achieved in Peas, for it is as early as the first-earlies, with pods as large as the Duke of Albany and the same shape and color, each pod containing nine or ten wrinkled Peas of the typical fine marrow flavor, cooking very tender. Altogether, Gradus is the most distinct and largest-podded early Pea ever raised. Stock limited.

**Sow Plenty of Peas.** There is no more delicious vegetable than fresh, young green Peas picked right off the vine in your garden and cooked immediately. If the garden is small, sow all the land you can spare. After the Peas are gone the land can be used for late cabbage, turnips, spinach, etc.

It is well to sow early, medium, and late kinds at the same time so they will mature in succession. This is better than to sow one kind three and four times during the season.

See next page for additional Extra-Early and Intermediate and Late Peas



Hundredfold Peas

Don't forget to use Mulford Cultures on your Peas. It will pay you.

EXTRA-EARLY PEAS	½pt.	Pt.	Qt.	½pk.
W. E. B. Co.'s Maud S	\$0 20	\$0 30	\$0 50	\$1 50
Alaska	20	30	50	1 50
Pioneer	25	40	75	2 50
Little Marvel	25	45	75	2 50
Hundredfold	25	45	75	2 50
Laxtonian	25	40	75	2 50
Gradus	25	40	75	2 50
Nott's Excelsior	20	35	60	2 00
Sutton's Excelsior	25	45	75	2 50
INTERMEDIATE AND LATE				
Telephone	20	40	75	2 50
Postlatch, or Imp. Strat	20	40	75	2 50
Prince Edward	20	40	75	2 50
Champion of England	20	35	60	2 00
Mammoth Melting Sugar	30	50	85	3 00

## EXTRA-EARLY PEAS, continued

\***Nott's Excelsior.** Robust and vigorous in growth; throws out laterals from the base of the stock, producing in profusion long, handsome pods, closely packed with large Peas of fine flavor; more vigorous and prolific, with larger pods and more Peas than either American Wonder or Premium Gem. Seed green and wrinkled. 1 foot.

\***Sutton's Excelsior.** This is today probably the most popular dwarf wrinkled sort in America. In this variety we have an early dwarf wrinkled Pea in the front rank for earliness, with much larger and handsomer pods than any dwarf early wrinkled Pea yet introduced. The Peas are very tender and of superlative flavor. Height 15 inches.

## INTERMEDIATE AND LATE PEAS

\***Telephone.** Pods and Peas are very large and showy, the latter being sweet and rich; popular. Vines 3½ feet high.

\***Potlatch, or Improved Stratagem.** A large-podded wrinkled Pea of fine quality. Vigorous and productive vines about 2½ feet high.

\***Mammoth Melting Sugar.** Best edible-podded Peas.

\***Canada Field.** Used for fodder. Sown with oats.

For prices of above varieties see page 13

## PARSNIPS

Aside from its value as a table vegetable, the Parsnip also furnishes a healthful and nourishing food for stock, and is especially valued for this purpose by dairymen. Sow the seed in drills 15 inches apart, as early as possible in spring, and thin the plants until they are 5 to 6 inches apart in the rows. The roots are improved by frost, and only enough for winter use need be taken up in the fall, leaving the rest in the ground until spring, to be dug up as required. By running a plow, such as is used for breaking sod, along one side of the rows, field crops of Parsnips will be thrown out so that they can be harvested easily. Deep, rich, heavy soil is best suited, but on any deep, rich, mellow soil the yield is good per acre, and the roots will be smooth and large if no fresh manure is used.

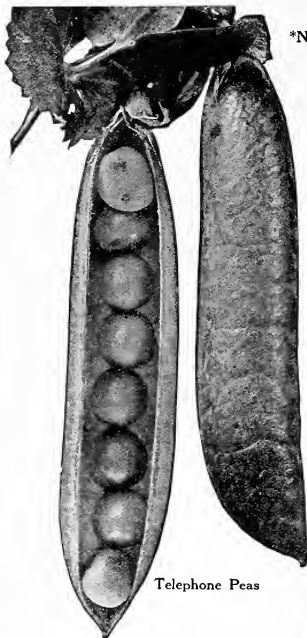
An ounce will sow 150 feet of drill; 5 pounds will sow an acre

**Champion Hollow Crown.** The variety most widely cultivated; tender and sweet; very productive.

## PRICES OF PARSNIPS

Champion Hollow Pkt.	Or.	¼ lb.	Lb.
Crown	\$0 10	\$0 15	\$0 35 \$1 00

PRICES OF PEPPERS Pkt.	½ oz.	Or.	¼ lb.
Worldbeater	\$0 10	\$0 35	\$0 60 \$2 00
Perfection Pimento	10	35	60 2 00
Chinese Giant	10	35	60 2 25
Large Bell	10	35	60 2 00
Ruby King	10	35	60 2 00
Squash	10	35	60 2 25
Italian, Sweet	10	35	60 2 25
Red Chili	10	35	60
Red Cherry	10	35	60
Long Cayenne	10	35	60



Telephone Peas

## PEPPERS

Sow in hotbed as early as April, transplant to rich, warm, mellow soil as soon as the weather has become warm and settled, setting them about 2 feet apart in drills 3 feet apart. Seed may be sown later, in the open ground when all danger from frost is over, and thinned to the distance given above.

An ounce of seed will produce 2,000 plants

**Worldbeater.** The fruits of this very desirable sort are of the largest size, ripen earlier than any of the other very large sorts, and average heavier, as the flesh is exceptionally thick. The plants are vigorous and upright, about 2½ to 3 feet high, larger than those of Chinese Giant and more productive. The color is deep green when fruit is young, deep, crimson when matured. The flavor is mild.

**Perfection Pimento.** A large, cone-shaped Pepper; very mild; bright scarlet when ripe. A good variety for market-gardeners or home-garden.

**Chinese Giant.** Very large; uniform; early; very mild.

**Large Bell, or Bull Nose.** Large, thick pods.

**Ruby King.** Bright red pods, about 5 inches long and 3 to 4 inches thick; mild and pleasant flavor.

**Squash.** Medium size; thick skin; very productive.

**Italian, Sweet.** Exceedingly mild flavor; in great demand in this vicinity. Grows 6 or 7 inches in length, diameter about 2 to 3 inches at the base.

**Red Chili.** Used for making Pepper-sauce. Pods small, conical, scarlet, pungent; plants very fruitful.

**Red Cherry.** Small, round, bright red.



Hollow Crown Parsnips



Worldbeater Pepper

## PUMPKINS

The Pumpkin is now little used except for agricultural purposes, the squashes being so much sweeter and drier and finer grained for the kitchen. The farmer, however, finds the Pumpkin a serviceable addition to his feed. The most common method of cultivation is to plant them with corn, two or three seeds to each hill.

**Sugar.** Round, not large, but very sweet, and an excellent table variety.

**Mammoth.** Immense size, often weighing over 100 pounds.

**Connecticut Field.** Very productive; large grown for feeding stock.

**Winter Luxury.** Fine pie pumpkin, round, color russet-yellow, flesh thick, fine flavor.

## RADISH

Sow in the open ground as soon as it can be worked, at intervals of ten days for a succession as long as wanted. Sow in hotbed or greenhouse in winter. The winter varieties should be sown in August and lifted before severe frost. As their tender and mild qualities depend on rapid growth, the soil should be rich, light and mellow.

*An ounce of seed will sow 100 feet of drill, 10 pounds to an acre*

**Cooper's Sparkler.** Quite distinct; fulfils every requirement; the color is a rich carmine-scarlet, with a very pronounced tip of the purest white. The roots, even when fully developed, are solid, crisp, sweet, and remain fit for use as long as the coarser kinds. It is equally well adapted for forcing in frames or growing in the open ground, for while the leaves are small, they are sufficiently large for bunching.

**Vick's Early Scarlet Globe.** For forcing in the greenhouse, hotbed, or cold-frame, and for sowing in open borders early in the spring, there is no other red variety so desirable. It is the earliest, its color is the handsomest, in flavor it is the mildest, most crisp, juicy, and tender. It forms a small top, and will stand a great amount of heat. It is the market-gardeners' favorite forcing Radish. It will sell "three to one" compared with any round red sort.

**French Breakfast.** Olive-shaped; red above and white below; medium size; small top and of quick growth; crisp, sweet, and tender.



Icicle Radishes



Vick's Early Scarlet Globe Radishes

**Icicle.** A handsome first-class early variety, in color snowy white. It grows to the average length of the long varieties, but holds its fullness well down to the tap-root. Exceedingly attractive and excellent in every way.

**Early Deep Scarlet Turnip.** Skin deep scarlet; flesh sweet, tender, mild, and crisp; quick-growing, early variety; tops small.

**Long Brightest Scarlet.** Vivid scarlet, tipped with snow-white; rapid grower; quality fine.

**Long Black Spanish.** Roots black; flesh white and slightly pungent. One of the hardiest and latest.

**Round Black Spanish.** A popular round winter variety with black skin and mild sweet flesh. A good keeper.

**White Giant Stuttgart.** Very early; grows to a large size; fine quality; firm and brittle.

## SALSIFY

When cooked, the roots have something of the flavor and odor of oysters. They may be boiled, used in soups, or grated and fried as fritters. Culture same as for parsnips and carrots. Roots are perfectly hardy, and may be left in the ground all winter, but should be dug early in spring, as the quality deteriorates rapidly with the second growth. A quantity of roots for winter use may be stored in a pit or in sand or damp earth in a cellar.

*An ounce of seed will sow 100 feet of drill*

**Mammoth Sandwich Island.** A great improvement on the French sort generally cultivated. The roots are twice as large, smooth, tender, and well-flavored, resembling fair-sized parsnips.



Salsify

PUMPKINS				Pkt.				Oz.				1/2 lb.				Lb.			
Sugar	10	\$0 15	\$0 30	15	\$0 15	\$0 30	1 00	1 00	2 00	2 00	4 00	4 00	8 00	8 00	16 00	16 00	32 00	32 00	
Mammoth	10	25	75	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	160 00	320 00	
RADISHES				Pkt.				Oz.				1/2 lb.				Lb.			
Cooper's Sparkler	10	15	40	1 25	1 25	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	
Vick's Ea. Scarlet	10	15	40	1 25	1 25	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	
Globe	10	15	40	1 25	1 25	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	
French Breakfast	10	15	40	1 25	1 25	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	
Icicle	10	15	40	1 25	1 25	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	
Long Black Span.	10	15	40	1 25	1 25	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	
Ea. Deep Scarlet Turnip	10	15	40	1 25	1 25	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	
Long Brightest Scarlet	10	15	40	1 25	1 25	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	
Round Black Span.	10	15	40	1 25	1 25	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	
White Gt. Stuttgart	10	15	40	1 25	1 25	2 50	2 50	5 00	5 00	10 00	10 00	20 00	20 00	40 00	40 00	80 00	80 00	160 00	
SALSIFY, Mammoth Sandwich Island	10	20	60	2 00	2 00	4 00	4 00	8 00	8 00	16 00	16 00	32 00	32 00	64 00	64 00	128 00	128 00	256 00	

## SQUASHES

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

An ounce will plant from 20 to 40 hills

**Chicago Wartyed Hubbard.**

This is a new type of the well-known Hubbard, produced by careful selection of the large, dark green, wartyed specimens, always seen in good stocks of the Hubbard. It has been bred to this type until it is so fixed that nearly all have very hard, warty shells and are of large size. This strain is especially popular with market-men.

**The Warren.** Resembles Turban in shape but the shell is rough, warty, thicker and harder, color richer, and a better keeper.

**Dunlap Prolific Marrow.** An improved strain of Boston Marrow. Fruits deeper orange, more rounded, thicker, smaller seed cavity and better flesh. A productive, good keeper.

**Blue Hubbard.** Hard shell; thick, dry meat of fine quality; favorite winter sort for Boston market.

**Golden Hubbard.** This is a very distinct sort of the shape and general character of the Hubbard, but a little smaller, earlier to mature, and of a rich orange-red color, instead of the dark olive-green of the old Hubbard.

**Delicious.** No Squash compares with it for table use. Remarkably fine and compact grain, dry, sweet, and exceedingly rich in flavor; color almost uniformly a green shade.

**Cocozelle.** This Italian Squash grows about 15 inches long and has smooth, dark green skin; fine flavored.

**Mammoth Chili.** Large, nutritious, orange-colored fruits; keep well all winter. For stock-feeding.

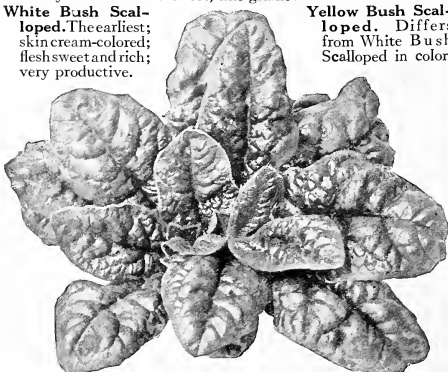
**Giant Summer Crookneck.** The largest of the early Crooknecks, and as early as any; flesh tender and good, cooking quickly.

**Golden Summer Crookneck.** Early and productive; fruits yellow, covered with water excrescences, as in all this race; flesh fine-grained and rich. All the Summer Crooknecks are noted for their great size and fine quality.

**Winter Crookneck.** A favorite late-keeping winter Squash, with yellow skin and sweet, fine-grained flesh.

**White Bush Scal-  
loped.** The earliest;  
skin cream-colored;  
flesh sweet and rich;  
very productive.

**Yellow Bush Scal-  
loped.** Differs  
from White Bush  
Scalloped in color.



Giant Thick-leaved Spinach



## SPINACH

One of the most important crops grown for greens, and may be had in good condition from very early in spring until cold weather. For early use, sow very early in spring, and for succession at intervals. The main crop, for spring and winter use, should be sown in September and the plants covered for winter.

An ounce of seed will sow 50 feet of drill; 20 pounds to an acre

**Victoria Long-standing Thick-leaved.** Best for spring sowing. It has large, thick, fleshy, crimped leaves like Savoy.

**Bloomsdale Savoy.** Hardy; well adapted for winter crops. Leaves large and wrinkled, like a Savoy cabbage.

**Giant Thick-leaved.** A large, upright-growing, early variety with very thick, large, slightly crumpled leaves of medium green color. Fine for fall and spring sowing. A rapid grower.

**New Zealand.** Supplies the place of ordinary Spinach during hot weather.

## RHUBARB

This plant is mostly propagated by division of the roots. The best time to set out the plants is early in the spring, although it is sometimes done in autumn. Make furrows of good depth, 3 to 4 feet apart, according to the variety planted; across these furrows, at right angles, make others the same distance apart; at each intersection put three or four shovelfuls of good manure, and upon this set the plants. Any good soil will suit, but to obtain heavy crops, good soil, well manured, is indispensable.

**Linnaeus.** The earliest and best for garden use; not so coarse and fibrous as the larger sorts.

**Victoria.** In general use for the market; immense crops.

## PRICES OF SQUASHES

	Pts.	Oz.	1/2 lb.	Lb.
Chicago Wartyed Hubbard.....	\$0 10	\$0 20	\$0 60	\$2 00
The Warren.....	10	20	60	2 00
Dunlap Prolific Marrow.....	10	15	50	1 50
Blue Hubbard.....	10	20	60	2 00
Golden Hubbard.....	10	20	60	2 00
Delicious.....	10	20	60	2 00
Cocozelle.....	10	20	60	2 00
Mammoth Chili.....	10	25	75	2 50
Giant Summer Crookneck.....	10	15	50	1 50
Golden Summer Crookneck.....	10	15	50	1 50
Winter Crookneck.....	10	15	50	1 50
White Bush Scalloped.....	10	15	50	1 50
Yellow Bush Scalloped.....	10	15	50	1 50

## PRICES OF SPINACH

Victoria Long-standing Thick-leaved...	10	20	50
Bloomsdale Savoy.....	10	20	50
Giant Thick-leaved.....	10	20	50
New Zealand.....	10	15	30

## PRICES OF RHUBARB

Linnaeus.....	10	50
Victoria.....	10	50

## TOMATOES

For early use, sow in February or March in hotbed or in boxes and pots set in the warm window, and hasten the germination and growth of the plants by good care and frequent watering. When the seedlings are about 3 inches high, transplant them to pots or in rows 4 to 5 inches apart, keeping the temperature at about 60 degrees. Subsequent transplantings will make them branching and stocky, but do not set them in the open ground until all danger from frost is past, then plant them in a warm, sunny place, and water them freely until they are well established. Some support which will keep the fruit above the ground and free from dirt should be given the plants.

An ounce of seed will produce about 2,000 plants

**Earliana.** This is considered the earliest red Tomato grown. Fair size; good shape; good quality.

**John Baer.** A remarkable new variety. Only a few days later than Earliana, it yields a much heavier crop of larger, more uniform, and more attractive fruits, generally returning the biggest profits of any extra-early variety.

**New Dwarf Stone.** This splendid new variety is put out by Livingston. Valuable as a general-crop Tomato.

**Comet.** An excellent sort for forcing under glass, as well as for outdoor culture. Fruit bright, glossy red, smooth, of fine flavor, and very early.

**Dwarf Champion.** This Tomato has grown rapidly in popularity since its first introduction several years ago, and is now one of the most valued early market sorts. It is quite distinct in foliage and habit of growth, the plants being compact, stocky, and upright, requiring no support. The fruit is always smooth and handsome, ripening close to the core and never cracking; in shape and color it resembles Acme.

**Ponderosa.** The favorite large-fruited variety. Vines are of strong growth. When planted in rich soil, and pruned to single stem, the fruit often reaches one pound in weight.

**The Stone.** This variety is grown very extensively by market-gardeners for main crop. The very large, perfectly smooth fruits are bright scarlet, solid, meaty, with few seeds, and ship and keep well. One of the best sorts of recent introduction.

**Chalk's Early Jewel.** An extremely early variety of bright scarlet color, deep-fruited, very solid, with few seeds, and of excellent flavor. Popular for both table and exhibition purposes.

**Acme.** This has, for years, been considered a standard variety. Fruit crimson, large, smooth, solid, never cracking, and holding its size well. A good long-distance shipper.

**Early June Pink.** Similar in habit to Earliana and about the best of the early purplish pink sorts. Fruits hang in clusters of six to eight.

**Yellow Plum.** Fruits are yellow, oval, and very smooth. Used for preserves.



John Baer Tomatoes

### TOMATOES, continued

**Grape, or Cherry Currant.** Half an inch in diameter; desirable for pickles, etc.

**Strawberry** (Winter, or Ground Cherry). The small fruits, enclosed in a husk, have a flavor like strawberries, and may be preserved like plums. The vines are always heavily loaded with fine fruits.

## TURNIPS

For early crop, sow as soon as the ground can be prepared, in drills 15 inches apart, and thin the plants to stand 6 inches apart. Sow, for succession, at intervals of two weeks until the last week in July, and from that time onward until the last of August, sow for main crop. The sowings should always be made just before a rain, if possible, as the success of the crop depends in a great measure upon quick germination and rapid growth in the young plants.

An ounce of seed will sow 150 feet of drill; 1 pound will sow an acre

**Twentieth Century Rock.** This is now recognized as the standard white winter Turnip.

**Early White Milan.** Very early; pure white; of fine quality.

**Purple-Top Strap-Leaf.** Grown largely for fall and winter crops.

**Early Red-topped Globe.** A large, handsome, globe-shaped Turnip; excellent for the table and extensively grown and pitted for fall and winter use. Remarkable for its heavy yield per acre.

**Early White Egg.** Pure white; egg-shaped; grows rapidly and is fine-grained, sweet, delicate-flavored, and solid.

**Golden Ball.** Most delicate yellow-fleshed Turnip we know of. Medium size, firm, hard, and of superior flavor. An excellent table variety.

**Macomber.** Resembles White Rock, but much earlier. A favorite in some sections.

**Budlong White Rock.** Obtained by years of selection and grows much smoother than White Rock.

**Sweet German.** A very popular variety in some sections of the country where it is highly esteemed for its excellent keeping qualities. Large; white; fine quality.

## RUTABAGA

**Improved American.** Large, firm, yellow roots which keep well, and are of good flavor Hardy, a heavy cropper, and excellent for either table or stock.

### PRICES OF TOMATOES

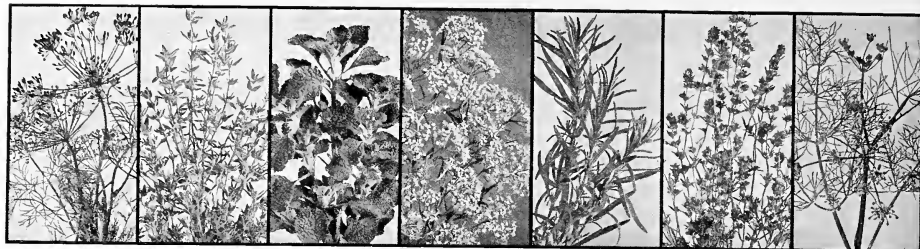
	Pkt.	1/2oz.	Oz.	1/4lb.
Earliana	\$0	\$0 25	\$0	\$1 25
John Baer	10	30	50	1 50
New Dwarf Stone	10	25	40	1 25
Comet	10	60	1 00	3 00
Dwarf Champion	10	25	40	1 25
Ponderosa	10	30	50	1 50
The Stone	10	25	40	1 25
Chalk's Early Jewel	10	25	40	1 25
Acme	10	25	40	1 25
Early June Pink	10	25	40	1 25
Yellow Plum	10	30	50	1 50
Grape	10	30	50	1 50
Strawberry	10	30	50	1 50

### PRICES OF TURNIPS

	Twenty Century Pkt.	Oz.	1/4lb.	Lb.
Rock	\$0	\$0 20	\$0 40	\$1 25
Ea. White Milan	10	25	60	2 00
Purple-Top Strap-Leaf	10	15	30	75
Early Red-topped Globe	10	15	30	75
Early White Egg	10	15	30	75
Golden Ball	10	20	40	1 25
Macomber	10	20	40	2 00
Budlong White Rock	10	20	40	1 25
Sweet German	10	15	30	75

### PRICES OF RUTABAGA

Improved American	10	15	35	1 00
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Dill

Thyme

Horehound

Anise

Lavender

Sweet Marjoram

Fennel

## SWEET AND MEDICINAL HERBS

**Anise (Anis).** Used for garnishing and flavoring. The seeds have an agreeable and aromatic flavor, and are used in medicine.

**Balm (Melisse).** Leaves possess a fragrance similar to lemons. Made into Balm tea for fever, and into a beverage called "Balm wine."

**Basil, Sweet (Basilienkraut).** For stews, soups, and sauces.

**Caraway (Kummel).** The seeds are used in cakes, confectionery, etc.

**Coriander (Koriander).** Grown for its seeds, which are used in confectionery.

**Dill (Dill).** Used for pickling. Has an aromatic odor and a warm, pungent taste.

**Horehound.** Valuable for medicines.

**Lavender (Wohllriechendespicke).** Used for perfume.

**Marjoram, Sweet.** Used for seasoning.

**Rosemary.** An aromatic, ornamental herb.

**Saffron.** The flowers are used in dyeing.

**Sage (Salbei).** Medicinal, but used principally for flavoring.

**Savory, Summer (Bohnenkraut).** The dried stems, leaves, and flowers are used extensively for flavoring.

**Thyme.** The young leaves and tops are used for sauces, soups, and dressings. Also a good remedy for nervous headache when made into tea.

Any of above, 10 cts. per pkt.

## SEEDS FOR THE FARM

### FIELD BEETS

**White French Sugar.** Much grown in Europe for sugar-making; very sweet and keeps well; much relished by stock. The Beets are very large and the yield per acre is heavy, making it one of the most profitable sorts to grow.

**Mangel-Wurzel, Norbiton Giant.** A long red variety, preferred by many to common Long Red, as it is considered of better keeping quality; good for deep soils.

**Mangel-Wurzel, Golden Tankard.** A most important addition to our roots for feeding stock. Flesh a deep, rich yellow, very sweet and nutritious. In shape a little shorter than Norbiton Giant, but thicker. A very heavy cropper.

### FIELD CORN (Flint)

**Longfellow.** The variety most widely grown in New England. An early 8-rowed Flint Corn with long ears and comparatively small cobs, filled to the tips with large, broad kernels.

**W. E. B. Co.'s Golden Cap.** Similar to our Rhode Island White Cap; ears a trifle larger; very small cob; has shown a yield of 100 bushels shelled Corn to the acre. We think this the finest yellow Flint Corn grown.

**Rhode Island White Cap.** A well-known early, prolific variety, from which is made the celebrated Rhode Island white meal. The yield is very heavy and the Corn is of the highest quality.

**Early Sanford.** Extensively used in various parts of New England, both for grain and as fodder and ensilage. It is of very luxuriant growth, very prolific with large stalk, plenty of leaves, and handsome ears a foot long. This is one of the most valuable varieties of Ensilage Corn on account of its early ripening and extreme productiveness.

PRICES OF FIELD BEETS			PRICES OF FIELD CORN				
Oz.	1/4 lb.	Lb.	Qt.	1/2 pk.	Bus.		
White French Sugar Beet..	\$0 10	\$0 25	\$0 60	Longfellow.....	\$0 25	\$0 75	\$4 00
Mangel-Wurzel, Norbiton Gt.	10	25	60	W. E. B. Co.'s Golden Cap.....	25	75	4 50
Golden Tankard.....	10	25	60	Rhode Island White Cap.....	25	75	4 00
				Early Sanford.....	25	75	4 00

Golden Cap



## LAWNS AND THEIR MANAGEMENT

To insure a really fine lawn, there are several requisites: A good depth of rich soil, properly drained, and free from boulders immediately below the surface; a liberal dressing of thoroughly decayed manure (10 to 12 cords per acre); nicety of grading in the levels and slopes; a firm, smooth surface upon which to sow the seed; and a sufficient quantity of the very best lawn grass seed, suited to the situation. The latter item is of prime importance. Boulders below the surface will, during the heat of summer, cause unsightly dry spots in an otherwise beautiful lawn; all such should be removed. A rich soil of good depth, and liberally fertilized, will maintain the fine greensward permanently, needing only an occasional top-dressing. Fresh, strawy manure should never be used in making a lawn; when decaying, it is liable to allow uneven settling of the soil. Make a smooth surface with harrow and rake, and use a roller to make it firm and even, before sowing the seed. After sowing, cover the seed well by raking it in, and again use the roller to finish the work.

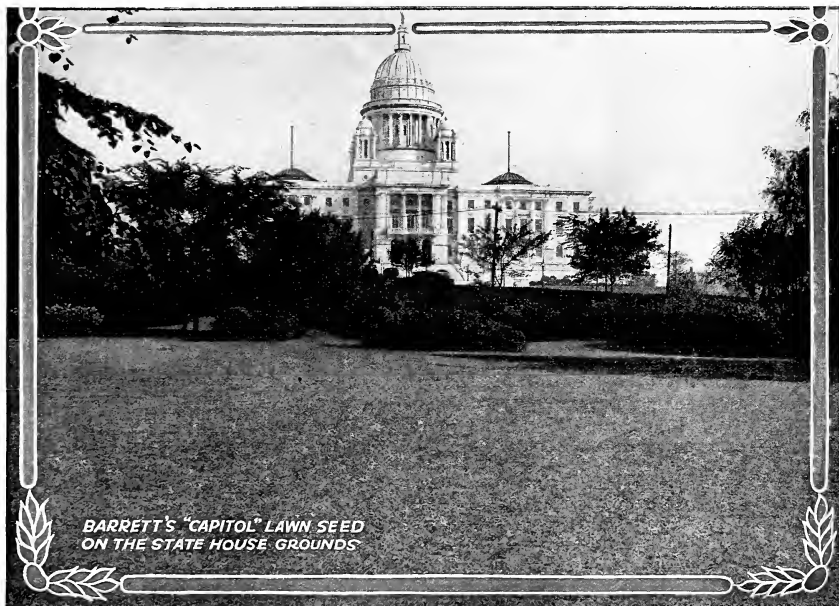
**Weeds.** Plantains must be dug out just below the ground. Dandelions will grow again if cut less than 3 inches below the surface. Low-growing, spreading weeds must be torn up with a sharp rake.

**Crab Grass** is hard to destroy. It is an annual plant, starting to grow in June and seeding in September. The only way to get rid of it is by keeping it from seeding. This may be done by dragging up all the flower-bearing stalks with a sharp rake. Then cut closely with a low-set mower, raking up and burning all the cuttings. Where the crab grass is very thick, more severe measures may be needed. Let the lawn grow long during early or mid-August, long enough to cut

with a sickle or scythe. This gets rid of most of the flower-spikes before seeding, and it is then too late for others to form.

**Fertilizing.** Remember that grass roots, just as other roots, absorb food only in liquid form. Solid manures must decay and the contents become mixed with the soil-water before they are available for plant-food. Bone-meal is preferable for use in the soil, and sheep manure for top-dressing.

**Watering** is the life of a lawn. A thorough soaking once in a while is best. Water that does not go down deep tends to shallow rooting—a bad thing in hot weather.



### THE "CAPITOL" LAWN SEED

Will produce, in a short time, a fine, velvety growth, and, with proper care, a firm durable sward, which will last indefinitely

This is the very finest mixture for a lawn that can be made, and we can recommend it for use anywhere a fine lawn is wanted. It is the result of many years' experience, and when we state that our actual sales the past season were 2,000 bushels, it indicates that it must be better than ordinary Lawn Seed.

For lawn-tennis courts, croquet-grounds, etc., the "Capitol" mixture gives a fine, smooth, velvety sward a few weeks after sowing. Weight about 20 pounds to the bushel. Sow 3 bushels to the acre. Qt. 40 cts., 2 qts. 75 cts., 4 qts. \$1.25, 8 qts. \$2, bus. \$7.50.

### FOR GOLF LINKS AND PUTTING-GREENS

Specialty Prepared Mixture for Golf Links. Bus. \$6.

Combination of Grasses for Sowing on Putting-Greens, to produce a dense, close sward. Qt. 40 cts., pk. \$2, bus. \$7.50.



## Shady-Spot Lawn Seed

On almost every lawn there are shady places where it is difficult to get grass to grow. These bare spots are very unsightly and disfigure the lawn. In such places, proper seeding may be all that is required. This mixture combines fine, dwarf-growing, evergreen varieties which do well in unsheltered or shaded spots. Some varieties of grass require more sun than others, therefore, if the kinds which need the least sun are selected, those sorts, when sown in shady places, will thrive and make a good appearance. Frequently a shady lawn, which is at the same time insufficiently drained, becomes affected with moss and coarse bog grasses. In such cases an application of slaked lime at the rate of 40 to 50 pounds to each 1,000 square feet is an excellent remedy, but the moss should be first removed by the use of a sharp rake. When this is done, sow our Shady-Spot Lawn Mixture, which will bring greenness to the bare spots and restore the beauty to your lawn. Of course, very densely shaded places are quite hopeless, and no variety of grass can be made to flourish under such conditions. Qt. 40 cts., pk. \$2, bus. \$7.50.

### SPECIAL MIXTURES

Often we have orders for a special mixture, some people preferring to follow out their own ideas, or wish our advice on a mixture for a peculiar situation. We are always ready and pleased to give our customers just what they want, and, whether our mixture or yours is ordered, the seed will always be the very best on the market.



A home is not complete without a velvety lawn

### RESEEDING

In reseeding lawns that have become worn out by neglect or other causes, where it is not desirable to renew by plowing, it may be found very beneficial to run a light harrow over them, if the surface is large, or use a sharp steel rake for smaller spots. After this has been done, lawn seed should be sown over the surface, raking in about half the quantity advised for a new lawn, then rolling or beating down firmly; but if weeds and rank-growing grasses have got possession of the lawn, it had better be plowed under and sown afresh.

**REMEMBER.** All mail or telephone orders for seeds, etc., receive the same attention as if you bought them personally at our store. We realize that there are times, for one reason or the other, when you cannot make the trip to Providence.

Save this Catalogue and order by it—you may be sure of prompt attention. Just state how you wish goods sent—by mail, express, or freight.

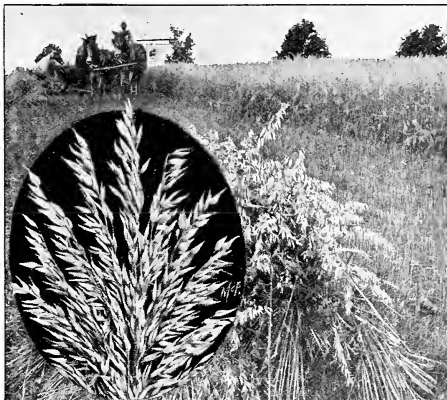
## Grain, Grass, Clover and Miscellaneous Farm Seeds

We pay a great deal of attention to the quality of the Farm Seeds we offer to our customers, and spare no expense to get absolutely the best the market affords.

Owing to crop conditions and the variable market prices of Grains, Grass, and Clover Seeds, etc., it is impossible to quote prices that would be fair to our customers and ourselves. We, therefore, feel obliged to leave prices open, but assure our customers they will have the full benefit of the lowest market rates for choice, selected stocks.

### SWEDISH SELECT OATS

This Oats has made for itself a reputation as an exceedingly heavy and reliable yielder. It is very hardy and prolific and yields beautiful white kernels which are especially desirable for the manufacture of rolled Oats. The straw is valuable for feed and for bedding. The sprangle-top heads, although long, are borne low down on the stalk, which seems to prevent lodging, and are very large in proportion to its stiff, bright, clean straw. As a rule, Oats yield a greater profit an acre than wheat, and are also a more reliable crop. The demand for this variety last season exhausted our supply very early. We also recommend this Oats as the very best to plant for green fodder. Market price.



Swedish Select Oats

### FIELD PEAS

"Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at the cost of millions of dollars."—*Yearbook of the U. S. Department of Agriculture.*

Grain has been grown year after year on many farms, sapping the life and fertility of the soil. Here is a crop which is not only profitable but will return to the land the much-needed nitrogen. Peas are second only to clover in their soil-enriching properties, and can be grown under almost any condition of soil or climate. The vines make rich, nutritious hay, and if fed green to milk cows, the flow of milk will be almost doubled. They can be sown alone or with oats and fed green. It is surprising the amount of fodder which is produced in this way.

### DWARF ESSEX RAPE

Makes Splendid Fall, Winter, and Spring Pasturage—Fine for Cattle, Sheep, and Hogs.

This is a most important forage plant and is often used by the fruit-grower as a cover crop, or it is excellent for renewing humus in worn-out soils. It grows like a rutabaga, with a very leafy top but no swollen root.

Rape for fall use should be sowed in July, August, or September. It makes a large-yielding, nutritious, succulent green feed or pasturage all through the fall and early spring. Rape can be successfully sown both in the fall and spring. Early fall seeding, however, gives the best results. It is best sown in drills at the rate of 3 to 5 pounds per acre, or it can be sown broadcast, when from 6 to 8 pounds per acre should be used.

### COVER CROPS

It is always wise to sow a cover crop on any land that is bare, in the fall as early as September. These crops are to be turned under in the spring and add much fertility to the soil, putting it in much better condition than if no cover crop was raised.

Hairy Vetch, alone or mixed with rye, is one of the best cover crops.



Eureka Ensilage Corn

### EUREKA ENSILAGE CORN

Thousands of farmers and dairymen who have used the Eureka Corn are still of the opinion that it has all the qualities that go to make it an ideal fodder and ensilage variety. It grows quite tall (some 12 to 15 feet), makes a thick growth of fodder, and is very prolific in ears which get to the proper condition for ensilage by the first to the middle of September. Our supply for this season is very choice stock, the genuine Eureka produced for us in Virginia by a reliable grower. Market price.

### IMPROVED LEAMING CORN

A superior strain of Yellow Dent Corn, not only valuable for fodder and ensilage, but will produce a big crop of matured Corn almost anywhere in New England, often 100 bushels of shelled Corn per acre. Market price.

### EVERGREEN SWEET CORN

For Fodder

We are usually able to offer a good stock of this variety at a reasonable price.



Sand, Hairy, or Winter Vetch

**SAND, HAIRY, OR WINTER VETCH**

Hairy or Winter Vetches are increasing in popularity wherever they are grown and are proving to be one of the most valuable crops for fall planting. They not only make a large yield of the most nutritious hay, but they improve the condition and productiveness of land for crops to follow, as much as any crop that can be sown, not even excepting crimson clover and cowpeas.

The forage is greatly relished by horses and all kinds of cattle, is very nutritious, and makes fine, milk-producing food.

On some soils, Vetches seem to require soil inoculation, to give the best results, but on the great majority of our soils they will yield splendid crops without any inoculation whatever. Where Vetches do not do so well the first year, it is advisable to reseed them upon the same land, when the resulting crop will be a great surprise in its yield and growth.

*Sow 20 pounds of Vetch and 1 bushel of rye or oats to the acre*

**COWPEAS, New Era.** This variety is of real value, both in the southern and in the northern states, as a green summer feed for sheep and as a green crop for plowing under to enrich the soil. Sow for plowing under at the rate of 2 bushels to the acre, or with oats at the rate of 1½ bushels of each per acre.

**AMBER CANE, or Sorghum.** Non-saccharine, but distinctly different from all others of that class. The plant is low, stocky, perfectly erect. The whole stalk, as well as the blades, cure into excellent fodder.

**BEAN, Soja (Soja hispida).** Resembles a bean. The haulm is stiff and the pods are produced in clusters of from two to five, each containing four smooth, oval, nankeen-colored seeds. This plant is said to thrive well in hot and dry weather. Very valuable for the South.

**BUCKWHEAT, Japanese.** Earliest and most productive of the Buckwheats.

**RYE, Spring.** Best northern-grown. Sow 1½ bushels to the acre.

**Winter.** Sow in September and October at the rate of 1½ bushels to the acre.

**WHEAT, Winter.** Extra-choice stock.

**Spring.** Northern-grown.

**BARLEY, Chevalier.** A two-rowed variety that is more largely used for forage than the six-rowed. Seed grown on the irrigated lands of Montana; very plump, extra-heavy and nearly white. Stock short this season, but of very good quality.

Large returns      No labor expense  
Small cost              Easy to use

*Increase your crops      Improve your soil*

# Mulford Cultures

FOR LEGUMES

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

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

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

Always specify on your order what crop you want to inoculate.

Alfalfa Crimson Clover	Sweet Clover Red Clover	Alsike Clover Burr Clover	Cowpeas, Vetch Soy Beans	Sweet Peas Garden Peas	Garden Beans Lima Beans
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**PRICES FOR MULFORD CULTURE CONCENTRATES**

<i>For small seeds, Alfalfa, Clovers, etc.</i>		<i>For large seeds, Soy Beans, Cowpeas, etc.</i>	
10 bushel size .....	\$8 00	20 bushel size .....	\$8 00
2½ bushel size .....	2 25	5 bushel size .....	2 25
1 bushel size .....	1 00	2 bushel size .....	1 00
½ bushel size .....	60	1 bushel size .....	60
Garden size (composite culture for Garden Beans, Garden Peas, Lima Beans and Sweet Peas).....		35	

**FREE DESCRIPTIVE FOLDER SENT UPON REQUEST**



Red Top Grass



Timothy



Crimson Clover. See page 24

## GRASS AND CLOVER SEEDS

All our Grass and Clover Seeds are of the finest quality. Comparison of samples and prices invited

### GRASSES

#### For General Grass-seeding for Mowing-Lands

Sow Clover, Timothy, and Red-Top mixed. For an acre, 8 pounds Clover,  $\frac{1}{2}$  bushel Timothy, 8 pounds Fancy Clear Red-Top.

#### Finest Mixture of Grass Seeds and Clover for Hay and Permanent Pasture

The importance to the farmer of a good selection and proper mixture of grass seeds for the various purposes of cultivation, for mowing, for soiling, for permanent pasture, etc., cannot be over-estimated. We prepare a special mixture containing only the most suitable grasses for permanent pastures and meadow lands, such as Orchard Grass, Meadow Foxtail, Sheep's Fescue, Rhode Island Bent, Meadow Fescue, English Rye Grass, Perennial Sweet Vernal, Red-Top and Clovers. Two to four bushels of this mixture is needed to seed an acre, according to the condition of the land.

**Timothy, or Herd Grass (*Pbleum pratense*).** A well-known nutritious grass, which on most soils will produce a better crop than any other variety. We offer a particularly choice quality of seed. Sow  $\frac{1}{2}$  bushel an acre, if alone (45 pounds to the bushel).

**Red-Top (*Agrostis vulgaris*).** A great favorite, succeeding in a great variety of locations, giving very good results on light soils, and the very best on heavy, moist soils or lowlands liable to overflow, which are so apt to be sour and acid. It does not thrive on sandy or leachy soil. The first year it grows somewhat slowly, spreading by creeping root-stocks. Height, 1 to 2½ feet. Maturing at about the same time as Timothy, it is used considerably with it and Red Clover to make a heavier yield. Cut when in bloom in July. It is also a splendid grass for lawns, and is very commonly included in mixtures. The usual rate of seeding is 14 to 16 pounds of fancy re-cleaned seed, but if in the chaff, double the quantity.

**Wood Meadow (*Poa nemoralis*).** Well adapted for growing under trees and in shaded situations. Dwarf and fine-growing. Sow about 2 bushels an acre (14 pounds to bushel).

**Rhode Island Bent (*Agrostis canina*).** A fine, hardy, very compact grass; very permanent, readily forming a heavy sward; excellent for pasture. Sow 4 bushels an acre, if alone (10 pounds to bushel).

**Kentucky Blue (*Poa pratensis*).** Known as June-Grass. An early grass of great value; makes a close, velvety turf, and is excellent for pasture; generally sown mixed with other grasses. Sow about 3 bushels an acre, if used alone (finest seed 14 pounds to bushel).

**Orchard Grass (*Dactylis glomerata*).** It is very satisfactory for the meadow when sown with other grasses, the hay being very nutritious, but it should be cut when in blossom. It is not suitable to sow alone, because of its tufted habit. Especially adapted for shady places, particularly in orchards, wood-lot pastures, and usually sown in the spring, but under favorable conditions may be sown in the fall. Sow 30 to 40 pounds of seed an acre.

**Facey's Perennial Rye.** Smaller seeded and finer leaved than the type. The smaller plants it produces are claimed to be more resistant to cold and superior for turf on fairways where grass is needed quickly.

**Perennial Rye (*Lolium perenne*).** An early, hardy, and very nutritious grass for meadows, pastures, or hay crop. Generally used with other grasses. If used alone, sow 2 bushels an acre (24 pounds to bushel).

**Meadow Fescue (*Festuca pratensis*).** Of great value in mixtures for permanent pastures; very nutritious, of good flavor, and is much relished by live-stock. Sow 2½ bushels an acre (15 pounds to the bushel).

**Crested Dog's Tail (*Cynosurus cristatus*).** A perennial grass much valued for its dwarf habit and hardiness. One of the finest for lawns. Sow 2 to 3 bushels an acre (28 pounds to bushel).

**Sweet Vernal (*Antioxanthum odoratum*).** Useful to mix with other grasses for lawns, in which it is invaluable on account of its early growth and fragrant odor, which it imparts to the other grasses when drying; very hardy and permanent. (11 pounds to bushel).

**PRICES ON GRASS SEEDS.**—Owing to frequent changes, we cannot make a fixed price, but assure you we shall sell as low as the lowest for high-grade seeds.



Sudan Grass

## GRASS AND CLOVER SEEDS, continued

- Meadow Foxtail** (*Alopecurus pratensis*). Very valuable mixture for permanent pastures exposed to heat and drought; early and rapid in growth; not a valuable hay grass. (8 pounds to bushel.)
- Sheep's Fescue** (*Festuca ovina*). Of dense growth; excellent for dry situations and sheep-pastures. Sow  $2\frac{1}{2}$  bushels an acre. (12 pounds to bushel.)
- Hard Fescue** (*Festuca duriuscula*). Perennial;  $1\frac{1}{2}$  to 2 feet high; June. The most vigorous of the dwarf-growing grasses. Thrives well in dry soils; comes early and withstands long droughts. Very nutritious as a hay crop and valuable for permanent pasture. Sow  $2\frac{1}{2}$  bushels an acre. (14 pounds to bushel.)
- Red Fescue** (*Festuca rubra*). Perennial; 2 to  $2\frac{1}{2}$  feet high; June and July. On account of its creeping habit is especially valuable for loose, sandy soils and embankments. It easily resists drought and often is green when other grasses are dried up. Sow  $2\frac{1}{2}$  bushels an acre. (14 pounds to bushel.)
- Tall Fescue** (*Festuca elatior*). A valuable perennial grass, very productive and nutritious. It is native to moist, heavy soil where it probably does best, but it succeeds well on any good soil, wet or dry. If used alone, sow 40 pounds an acre.
- Creeping Bent** (*Agrostis stolonifera*). Perennial; 1 to 2 feet high; July. A grass desirable for either lawns or permanent pasture on account of the firm and enduring turf it produces. Specially adapted to moist situations. Sow 40 pounds an acre. (20 pounds to bushel.)
- Sudan Grass**. A new forage plant closely related to the cultivated sorghums; of value in the dry Middle West as a drought-resisting hay crop. In the East and North should be tried as a substitute for millet, as the crop is larger and has better feeding value. Care should be exercised in turning cattle onto second growth. In rows, 4 to 6 pounds to the acre; broadcast, 20 pounds to the acre.

## Clovers Are a Necessity on Every Farm

Clovers enrich the soil, for their roots gather immense quantities of nitrogen-fixing bacteria, which take nitrogen from the air and leave it in the soil in a form readily available for growing crops. Nitrogen is the most expensive chemical to buy in fertilizer. Why not make use of this cheap source and encourage their growth by the use of **Mulford Cultures**. The standard brand that improves your crops.  $\frac{1}{4}$ -acre size 75 cts., acre size \$1.50, 5-acre size \$5.

MILLET, or HUNGARIAN GRASS  
SEED

Prices variable; subject to market fluctuation

- Hungarian Grass** (*Panicum germanicum*). One of our best forage plants and yields immensely, even when the weather is so dry that other crops dry up. One of the best annual grasses for green fodder or hay. Sow from June 15 to July 31. One bushel seeds an acre. (48 pounds to bushel.)
- Millet, Tennessee Golden**. Of stronger and taller growth than other Millets and does not mature so early. Sow 1 to  $1\frac{1}{2}$  bushels per acre. (50 pounds to bushel.)
- Millet, Japanese Barnyard** (*Panicum Crus-galli*). This Millet is valuable as a green or dry fodder, or for soiling. It is erect in growth, very leafy, and the stalks are tender and succulent, even when matured. The reported yield of green fodder is from 15 to 20 tons an acre. For the most satisfactory results as a fodder crop, this Millet must not be sown too thickly, as it stools very freely. On good soil, when sown early, 10 to 12 quarts to the acre are sufficient. On poor soil, or if sown later, sow 20 quarts.

## CLOVERS

- Medium Red** (*Trifolium pratense*). The well-known Red Clover.
- Mammoth, or Pea Vine** (*T. medium*). A variety of the preceding of larger growth.
- Alsike, or Swedish** (*T. hybridum*). Hardy, productive, fragrant; succeeds best on stiff, cold soils.
- White** (*T. repens*). Used in nearly all mixtures for lawns and valuable for pastures.
- Crimson** (*T. incarnatum*). An annual used for soiling and for plowing under to enrich the soil.
- Alfalfa** (*Medicago sativa*). Within the last two years some good crops of Alfalfa have been grown in New England. It seems to be the consensus of opinion of the successful growers that it requires well-drained land and an abundant application of lime previous to sowing, and that August is the best time to sow. Use 20 to 25 pounds to the acre.
- Bokhara Sweet Clover**. Bokhara is of great value as a soil-renovator, and to prepare the soil for alfalfa. The same bacteria which is necessary to inoculate the soil for alfalfa is gathered by the roots of Bokhara Clover. It will thrive on all classes of soil, which it greatly enriches if plowed under. For field or forage it should be cut when quite young; cattle do not relish it when old. The plant grows from 4 to 6 feet tall, and bears an abundance of white flowers which furnish excellent bee-pasture. Sow any time from April until the middle of September at the rate of 15 to 25 pounds to the acre.



Alfalfa

## SWEEPSTAKES PEDIGREE SEED CORN

ACKNOWLEDGED  
THE BEST

## ENSILAGE CORN IN THE COUNTRY

*The XXX Grade Only  
Guaranteed 90 Per Cent Live Kernels*

THE ONLY GENUINE  
SWEEPSTAKES

**The W. E. Barrett Company**  
*Are Rhode Island Distributors*

The Copyright *Yellow Tag* on Every Bag is  
Your **GUARANTEE**

We hold certificate of agency for the sale and distribution of this wonderful brand of Seed Corn, and when the farmer grows **Sweepstakes** he has the facts when he feeds it. There is only one brand of **Sweepstakes Pedigree Seed Corn**, which is grown and put up under the most careful inspection and supervision at all times.

The International Consolidated Record Association, Inc., of Elmira, N. Y., grows and ships the seed we sell, and we shall be pleased to have every one of our customers and friends plant **Sweepstakes Pedigree Seed Corn**.

It has quality and is dependable. Sold at a uniform price of \$10 per sack of 2 bushels



## NORTHERN-GROWN SEED POTATOES

**Norcross.** Hardy; enormous yielder; resists blight. Exceptionally fine variety. Originated by Chales Norcross, Litchfield, Maine, in 1895. Seed-ball grown on the old Early Rose, pollinated by Beauty of Hebron. W. E. Johnston, hearing of its yielding quality, procured some of the seed, tested it with some 200 other kinds, and it was the best in quality and yield.

**Spaulding Late Rose.** A vigorous grower; great yielder; resembles the Early Rose in shape and color. It is fast finding its place as one of the standard late varieties. We recommend it to all who want a good quality winter Potato.

**Gold Coin.** Fine-shaped tubers, rather oblong; white; russet skin. Almost every Potato is of good market size. Will yield 300 or more bushels to the acre.

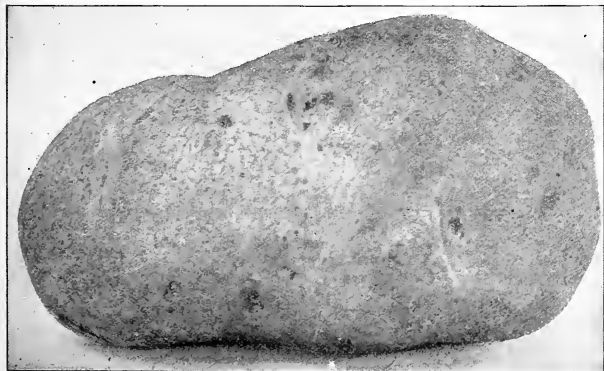
**W. E. B. Co.'s "Pride."** A standard early sort, with such a combination of good qualities as to make it a general favorite.

**Green Mountain.** A late Potato which does well on all kinds of soil; very productive; oval; a good keeper, and of fine quality.

**Irish Cobbler.** One of the first varieties of Potatoes to be ready for market, and therefore will command a good price. The skin is creamy white, sometimes netted, which is an indication of good quality; eyes are strong, well developed, and but slightly indented.

**Houlton Early Rose.** We furnish fine Maine and Prince Edward Island Early Rose in large lots at special prices.

**Carman No. 3.** A handsome, round, white variety of the best quality; large, almost no small tubers. Claimed by the introducer to outyield any Potato of its class. Vines large and vigorous, not troubled by bugs or blight as much as those of other sorts.



Green Mountain Potato

### Certified Seed Stock

Our stock is from certified fields, which means that the Potatoes are true to type and variety. They have all been carefully rogued, and not only all the mixtures taken out but the weak hills also. This inspection by a State inspector includes the planting only of tubers that are absolutely free from any disease, insuring uniform stock. You cannot afford to plant "just Potatoes."

# Select Flower Seeds

DISCOUNT ON FLOWER SEEDS BY MAIL

Our liberal discounts or premiums on Flower Seeds in packets (purchaser's selection) reduce the cost to wholesale prices. These discounts are given only on seeds sold in packets, for which in all cases the cash must accompany the order.

This discount does not apply to assortments or collections, nor to seeds by the ounce or pound

For \$1, Select Seeds amounting to.....\$1 25 | For \$3, Select Seeds amounting to.....\$3 75  
 For \$2, Select Seeds amounting to..... 2 50 | For \$4, Select Seeds amounting to..... 5 00

We prepay postage on all Flower Seeds in packets and ounces. Orders by mail promptly forwarded

## CHOICE ANNUALS FOR BLOOM THE FIRST SEASON



Crego Aster



Branching Aster

### ASTERS

The Aster is a royal annual, glorifying the garden with a rich display of bloom until the chrysanthemum, for which it is a fitting forerunner, begins to open its buds. The different forms are grown in gardens everywhere. Our collection includes the most distinct forms and varieties of rich colors. A good selection will give elegant flowers for cutting from July until frost.

**HEART OF FRANCE.** A pure Red Aster. This beautiful new variety opens as red as the purest ruby, deepens with age, and retains its remarkable color to the very end. The petals appear strikingly changeable, at one time showing a glow and sheen quite unique, and at another a soft, warm, velvety texture. In any light, natural or artificial, Heart of France is startlingly beautiful and commands instant admiration. Flowers large and full; plant of the branching type. Stems long and strong. 1½ to 2 feet.....5 pkts. \$1. . \$0 25

**CREGO or GIANT COMET.** Large, perfectly shaped flowers with long petals, wavy and twisted, suggestive of a Japanese chrysanthemum. They are very handsome, average from 3 to 4 inches across, and are borne thickly on pyramidal plants from 12 to 15 inches high. Pure White, Carmine, Rose, Light Blue, and Mixed. Each, 20

**SEMPLER'S BRANCHING.** A choice strain which, by careful selection, has been brought to a high degree of perfection. Plant of branching habit, producing from ten to twenty large, perfect flowers. White, Pink, Lavender, and Mixed.....Each, 10

**LARGE-FLOWERING VICTORIA.** Immense showy flowers, perfectly double to the center, with regularly overlapping petals; distinguished in appearance and excellent for cutting. The plants form pyramids 1½ feet high, and carry fifteen to twenty flowers. White, Azure-Blue, Peach-Blossom, Rosy Carmine, Crimson, Dark Blue, and Mixed.....Each, 10

**QUEEN OF THE MARKET.** A very early variety, producing an abundant supply of beautifully colored flowers early in July. These are of great value for an early display or for quick growing cut-flowers, and are used quite largely for this purpose. 1 foot. White, Crimson, Pink, Blue, and Mixed.....Each, 10

### ABRONIA

Pretty, trailing plants of easy culture, with prostrate branches and clusters of sweet-scented flowers, somewhat like verbenas in profusion. Fine for baskets, rockwork, and borders. Pkt.

**Latifolia (Arenaria).** Bright waxen yellow flowers.....\$0 05  
**Umbellata grandiflora.** Very large, fine clusters of pure rose flowers..... 10

### ADONIS

Showy, free-blooming plants, about a foot tall, with feathery foliage and large, brilliant flowers, appearing in early spring and lasting a long while.

**Autumnalis.** Pheasant's Eye. Intense dark red flowers, Pkt. with black center.....\$0 10  
**Vernalis.** See Perennials..... 10

### AGERATUM

These are greatly valued for bedding on account of their neat, vigorous growth and free-blooming habit. They bloom the whole summer through, where sown early.

**Lasseauxi (Eupatorium Lasseauxi).** Fine clusters of bright Pkt. rose flowers, borne long and abundantly; valued for cutting.....\$0 05  
**Houstonianum (mexicanum), Little Dorrit, Dwarf Blue.** Flowers bright blue. The plant is very dwarf, free-blooming, and handsome..... 05  
**Houstonianum (mexicanum), Little Dorrit, Dwarf White.** Like above, with large clusters of white flowers.. 05

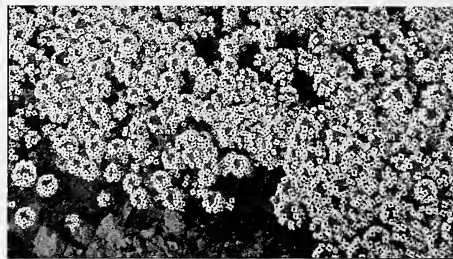
### AGROSTEMMA

**Coronaria. Rose Champion.** Exceedingly pretty and graceful flowers in red, white, and red and white..... 10

### ALYSSUM

A great favorite for bouquets and house culture, as well as for outdoor baskets and border edgings.

**Maritimum, Little Gem.** Very dwarf and spreading, Pkt. covering a wide circle thickly with its white flowers, which appear when the plants are small..... Oz. 75 cts. . \$0 05  
**Maritimum Benthami.** Sweet Alyssum. Trailing, very sweet white flowers..... Oz. 50 cts... 05  
**Saxatile compactum.** See Perennials.



Sweet Alyssum, Little Gem



**SUPERB BALSAM • Lady's Slipper**

Popular, easily grown plants, giving brilliant masses of beautiful flowers for little care. They are about 2 feet in height, but transplanting dwarfs them and makes the flowers more double. Some are as double and perfect as camellias, and they range through all dark, rich, brilliant and delicate colors.

- Double Rose-flowered.** Flowers are very large, double, Pkt. and of perfect form. Fine Mixed.....\$0 10
- Improved Camellia-flowered.** Regular perfect blooms, large and full to the center. Separate Colors and Choice Mixed..... Each, 10
- Florists' Best Double White.....** 10
- Mixed Double.** All kinds and colors..... 10

**BARTONIA**

**Aurea** (*Mentzelia aurea*). Handsome plants, with downy foliage and fragrant, large, golden yellow flowers, which open in the evening. Thrives in any soil. Height about 3 feet..... 10

**BRACHYCOMME**

**Iberidifolia.** *Swan River Daisy.* Flowers light and graceful, and borne profusely; colors blue or white, with dark center. Plants spreading in habit, about a foot tall. Mixed..... 05

**CACALIA**

**Coccinea** (*Emilia flamma*). *Tassel Flower.* Loves a rich, sunny spot, where they bloom until late autumn. The tassel-shaped flowers are bright scarlet and borne in graceful clusters..... 10

**CALENDULA • Pot Marigold**

Grows well anywhere and produces a bright and constant mass of color until frost.

- Officinalis grandiflora fl.-pl.** Semi-dwarf plant with Pkt. handsome, very large, double, pure golden yellow flowers. The best Marigold in cultivation. Very brilliant..... Oz. 50 cts. \$0 10
- Prince of Orange.** Large, very double flowers of rich, deep orange, striped with a lighter color..... Oz. 50 cts. 10



Calendula



Giant Empress Candytuft

**CANDYTUFT • Iberis**

Plants of branching habit bearing spikes of flowers. Very showy for borders. One of the best cut-flowers for bouquets. Pkt.

- Finest Mixed.** 1 ft. .... \$0 10
- Umbellata Dunnetti.** Dark purple. 1 ft. .... 10
- Giant Empress.** White; extra large. Fine for forcing. 2 ft. .... 10
- Purple.** 1 ft. .... 10
- Tom Thumb.** Very dwarf, forming a low, dense mass of green against which the large clusters of white flowers are very effective. .... 10

**CANNAS**

**Crozy's New Dwarf Large-flowering French**

For rich effects in bedding, the Dwarf French Cannas have now few rivals in popular estimation. As pot-plants or for winter-flowering they are also favorites. The seed should be soaked in hot water eight to ten hours before planting, and started early in hotbeds or in the house.

- Fine Mixture** of choice seeds, from dwarf, early-flowering Pkt. plants. .... \$0 10

**CARNATIONS, MARGARET**

Annual forms, blooming soon after the seed is sown

This new form of the hardy Carnation blooms four months from seed. Is much admired and valued in all gardens where it has been tested. Plants vigorous, semi-dwarf, and neat, and if sown under glass in March or April, begin blooming in early summer and yield a brilliant display of flowers until frost. Plants which have bloomed all summer in the garden are frequently potted for winter decoration and bloom in the window for a long time. The flowers are large, quite double, and perfectly formed, never bursting the calyx, and show all colors and variegations through beautiful shades of red, pink, and white. Fine for cutting; stems are good, and the flowers are produced in great profusion. Pkt.

- Pure White, Rose, Scarlet, Violet, and Mixed** ... Each, \$0 10

**CELOSIA • Cockscomb**

For beds, borders, pot culture, and winter bouquets

An odd, handsome perennial whose comb-shaped heads often attain enormous size and are always gaily colored. Finer and brighter-colored flowers are produced if the plants are given rich soil. The dwarf varieties are much used for pot culture and are picturesquely odd and striking in appearance. Deservedly popular everywhere.

- Dwarf Yellow.** Very handsome, brightly colored heads of Pkt. large size and fine form; plants strong and but about 9 inches in height. .... \$0 10
- Empress.** One of the handsomest. The rich crimson heads are enormous, yet quite shapely; plant no taller than the above. .... 10
- Glasgow Prize.** *President Thiers; Tom Thumb.* Quite dwarf and distinct; plants a foot high; combs fine, deep crimson. .... 10



Centaurea Cyanus

**CENTAUREA · Bachelor's Button**

- Cyanus.** *Blue Bottle; Cornflower; Ragged Sailor.* One of Pkt. the most popular of our garden annuals, blooming continually all summer.
- Finest Mixed.** 2 ft. . . . . \$0 10
- Deep Blue.** 2 ft. . . . . 10
- Imperialis.** *Giant Cornflower.* Flowers very fragrant, of immense size, and great variety of colors.
- Finest Mixed.** 2 ft. . . . . 10
- Moschata.** *Sweet Sultan.* Very showy, fragrant flowers, excellent for cutting.
- Finest Mixed.** 2 ft. . . . . 10

**CHRYSANTHEMUMS**

**Carinatum fl.-pl.** Summer-blooming. The majority of the flowers are very double and bronzy yellow, tinged with red or rose, but some will be pure white or crimson, and of graceful semi-double form. . . . . 10

**CLARKIA**

**Elegans.** Early, profuse-flowering, plants averaging 1½ feet in height, with oddly formed double flowers of bright rose, purple, or white. **Single and Double.** . . . . Each, 10

**COLLINSIA**

Brightly colored flowers, borne in whorls, several of which cluster about each stem. Plants continually in flower. 1½ ft. Pkt. **Mixed.** . . . . \$0 10

**COREOPSIS, or CALLIOPSIS · Bright Eyes**

- Plants are of graceful habit, easy culture, and flower profusely throughout the season. As popular for cutting as for garden culture.
- Drummondii.** *Golden Wave.* Pure bright yellow flowers, Pkt. with a rich velvety brown eye. The plant is compact, bushy, and blooms freely. . . . . Oz. 30 cts. \$0 10
- Tinctoria.** Double flowers of a rich golden yellow color, with wine-maroon spots. . . . . Oz. 30 cts. 05

**COSMOS**

- Fine for cutting having long, slender stems, airy, graceful flowers, and feathery foliage. Plants tall and strong-growing, from 4 to 6 feet high, and a perfect fountain of bloom from September until frost. Should be started early. Pkt.
- White Pearl.** Large, snow-white flowers. . . . . \$0 10
- Large-flowering Pink and Large-flowering Crimson.** Each, 10
- Grand Mixture.** Will produce monster flowers with frilled petals; with large, round, open petals, with irregular, lacinated petals; white flowers, flecked and clouded with pink; shaded light and dark; beautiful shades of red and crimson; star-like flowers, with fringed edges, pink, white, red, in endless combination. . . . . 10
- Early-flowering, Finest Mixed.** Seed, if sown in March and April, will flower during July. Our seed is all grown in New England from our special strain. 4 ft. . . . . 10

**SHASTA DAISY**

This is one of the creations of Mr. Luther Burbank. It is perfectly hardy, grows anywhere, and blooms more abundantly each season. The flowers are very large, a foot or more in circumference, growing on long stems, with two rows of broad, pure white petals and a yellow center. Pkt. 10s.

**DIANTHUS**

Brilliant and popular Garden Pinks

- Gay, spicily fragrant flowers, well loved and grown everywhere in almost any soil. It literally covers its dense thicket of leaves and stems with brilliant masses of flowers. All the varieties named below bloom the first year from seed.
- Chinensis fl.-pl.** *Double Chinese or Indian Pink.* Flowers Pkt. large and very double, in all rich colors. Fine Mixed. . . . \$0 10
- Heddeewigii grandiflora fl.-pl.** *Crown of Perfection.* Flowers of immense size and very double; produced in greatest profusion. A great diversity of colors, from purest satiny white to intense red, soft pink and flesh tints and a large proportion of flowers marked in various hues. . . . 10
- Heddeewigii diadematus fl.-pl.** *Double Japanese, or Diadem Pink.* Flowers large and fine in form and very double, yet ranging through all colors. Finest Mixed. . . . 10
- Imperialis fl.-pl.** *Double Imperial Pink.* An extra-fine mixture, producing all colors of these handsome flowers. . . 10
- Barbatus.** *Sweet William.* See Perennials.

**ESCHSCHOLTZIA · California Poppy**

- Californica.** Brilliantly colored and poppy-like, shining with a silken luster in the sunshine. A bed of them is fairly dazzling, with its rich hues of orange, pure yellow, scarlet, creamy white, crimson and carmine. **Single and Double.** . . . . Each, 10

**EVERLASTING FLOWERS**

- Flowers retain their form and color for years, if cut when just in bud and hung head down to dry. Pkt.
- Acroclinium.** Mixed. 1 ft. . . . . \$0 10
- Globe Amaranth.** *Bachelor's Button.* Mixed colors. 1 ft. . . . . 10
- Helichrysum.** *Straw flower.* Mixed. 2 ft. . . . . 10

**GALLARDIA · Blanket Flower**

- Showy bedded plants, averaging about 2 feet in height, and covered with flowers from midsummer until frost.
- Pulchella picta Lorenziana.** Double flowers, in many Pkt. bright colors. . . . . \$0 10
- Aristata (grandiflora).** See Perennials.

**GODETIA**

- Mixed.** Compact, branching, attractive little plants, always gay with white, rose, or crimson flowers. . . . . 10

**HELIOTROPE**

- Finest Mixed.** Excellent for bedding; very fragrant flowers, fine for cutting. Grows well in the house. 2 ft. . . . . 10



## Lawn Seed

### CAPITOL AND SHADY SPOT

Besides our "Capitol" and "Shady Spot" Lawn Grass Seeds, that have given perfect satisfaction for thirty years, we make a specialty of the best seeds for golf courses, putting greens, etc. When it comes to Tools and Equipment for caring for lawns and golf courses, we carry a complete line.

Qt. 40 cts., 4 qts. \$1.25, pk. \$2.25, bus. \$7.50



## Aster

### CREGO OR GIANT COMET

Few annuals can compare with Asters in popularity and showiness. They are easily grown and do well under widely different conditions of climate and soil, making a fine garden display and yielding plenty of cut-flowers.

The Crego Giant Asters are one of the prettiest types we have. The flowers are of immense size, measuring 4 to 5 inches in diameter. They are fully double and the long graceful petals are most attractively curled and twisted, giving the flowers an artistic chrysanthemum-like appearance. The blooms are borne on long strong stems, and are fine for cutting. Plants of sturdy, branching habit, growing 2 to 2½ feet tall.

A bed of Crego Giant Asters in full bloom is a beautiful sight for many weeks. They bloom profusely and are classed as a midseason type, filling in between the early and late Asters.

Pkt. 20 cts. Collection of 6 separate colors \$1

## Zinnia grandiflora plenissima

(The New Giant Zinnia)

An improved strain which produces immense double flowers 3 to 4 inches in diameter in an extremely wide range of colors. The plants are hardy, of very vigorous growth, often 3 feet high, and remain in bloom from early summer until killed by severe frost.

Pkt. 20 cts. Collection of 6 separate colors for \$1



## Nasturtium (Tropæolum)

These are among the most popular of hardy annuals. The tall varieties are without equal for covering trellises or rockeries, and the dwarf sorts are invaluable for bedding or edgings. For beauty and profusion of bloom they cannot be excelled.

Pkt. 10 cts., oz. 20 cts.



## Larkspur

(Delphinium  
Ajacis)

Erect, brilliantly colored spikes of curiously spurred flowers in many shades. Of easiest culture, blooming freely in the garden from mid-summer until frost. One of the prettiest annuals for cutting.

Pkt. 15 cts.



## HELIANTHUS • Sunflower

## ANNUAL VARIETIES

The tall-growing sorts are fine for background along fences and walls or large borders; small varieties, for cutting.

<b>Californicus fl.-pl.</b> Double; deep yellow. 5 ft. ....	Pkt. \$0 10
<b>Anuus globosus fistulosus.</b> Globe-shaped; yellow. 6 ft. ....	10
<b>Nanus variegatus.</b> Dwarf; handsome variegated foliage. 4 ft. ....	10
<b>Debilis cucumerifolius.</b> <i>Miniature Sunflower.</i> Of pyramidal growth, covered with hundreds of small, single, bright orange flowers. 3 ft. ....	10

## HIBISCUS

**Trionum (africanus).** Showy and effective. The large, cream-colored flowers have a rich, dark brown center. The plants grow about 2 feet tall. ....

10

## KOCHIA

**Trichophylla.** *Summer Cypress; Mexican Firebush.* Pretty little bushes of pyramidal shape; foliage delicate green, the little, brilliant scarlet flowers completely covering the whole plant. Excellent for hedges along walks in gardens. 3 ft. ....

10

## LARKSPUR • Delphinium

Rocket Larkspurs are very showy, and produce their bright-colored spikes of flowers the first season if sown early. For other Larkspurs, see Perennials.

<b>Dwarf Double German Rocket.</b> All colors mixed. ....	\$0 10
<b>Tall Double German Rocket.</b> All colors mixed. ....	10
<b>Ajasis.</b> See colored insert facing page 29. ....	15

## LINUM

**Grandiflorum rubrum.** *Scarlet Flax.* An easily grown plant with fine stems and foliage and producing a profusion of beautiful bright scarlet blooms. ....

10

## LOBELIA

The *Erinus* forms of *Lobelia* are quite showy and free-blooming; the dwarf forms are used for edgings, vases, etc.; other sorts for beds. All are of easy culture.

<b>Erinus gracilis,</b> light blue, and <b>Erinus alba,</b> pure white. Pkt. Trailing. ....	Each, \$0 10
<b>Erinus compacta</b> varieties: <b>Alba,</b> pure white; <b>Crystal Palace,</b> dark blue, and <b>Prima Donna,</b> rich crimson. ....	Each, 10
<b>Erinus speciosa,</b> <b>Crystal Palace.</b> Ultramarine-blue. Trailing. ....	10
<b>Erinus speciosa superba.</b> Dark blue, with white eye. Trailing. ....	10
<b>Annua (biennis).</b> <i>Honesty.</i> A hardy biennial that must be sown in autumn or early spring in order to bloom the first year. Flowers white and double. ....	10

## LUPINUS • Sun Dial

A very effective plant in mixed borders and grows about 2 feet tall. The seed should be sown where the plants are to stand.

<b>Mixed.</b> ....	Pkt. \$0 10
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## LYCHNIS • Viscaria

Abundant bloomers. Plants about a foot in height; flowers all tints and shades of red, from scarlet to pale rose and pure white.

Pkt. 10 cts.

## MALOPE

**Trifida grandiflora.** *Mallow.* Robust branching plants, Pkt. usually about 2 feet high, with very pretty large, mallow-like red or white flowers. Mixed. ....

\$0 10

## MARIGOLD

## DOUBLE FRENCH AND AFRICAN

Showy plants for midsummer and autumn bloom, growing 1 to 2 feet tall; free-flowering and easy to grow.

**Eldorado.** Finest of the double African Marigolds. Flow-ers from 10 to 14 inches across, very double, of bright golden orange and primrose shades. Mixed, Oz. 50 cts. ....

\$0 10

**Tall Double French.** Flowers of various bright colors. Mixed. ....

Oz. 50 cts. .... 10

**Dwarf Double French.** Plants low and compact. Mixed, Oz. 50 cts. ....

10

## MATRICARIA

**Parthenoides (capensis).** *Cbanomile Feverfew.* Fine for cutting and pot culture, as well as for beds and borders. Thrives well in all soils; blooms until frost. Flowers pure white, double. 18 to 20 inches tall. ....

10

## MESEMBRYANTHEMUM

**Crystallinum.** *Ice Plant.* Glistening waxen leaves and stems covered with a shining granular coat. Flowers quite pretty and of various colors. Plant trailing, about 6 inches high. Well adapted for baskets, vases, borders, etc. Mixed. ....

10

## MIGNONETTE

The matchless perfume of this modest flower renders it one of the most popular annuals grown. In form and color the flower-spikes have been greatly improved, but it is for their delicate, subtle fragrance that they will always be chiefly valued for garden and window culture, and for the costliest as well as the simplest bouquets.

**Defiance.** Specially adapted for pot culture. ....

Pkt. Oz. 75 cts. .... \$0 10

**Gabrielle.** Very pretty sort, bearing large spikes of red flowers. ....

Oz. 75 cts. .... 10

**Large-flowering.** The old and well-known Mignonette, still as sweet as any. ....

Oz. 25 cts. .... 10

**Machet.** The best variety for pots. Dwarf, free-blooming, with flower-spikes beautiful, bright reddish maroon; very sweet. ....

Oz. 75 cts. .... 10



French Marigold



Tom Thumb Nasturtiums

**MIMULUS • Monkey Flower**

Flowers showy and oddly marked; ground color white or yellow, flaked and spotted with maroon, scarlet or crimson. Plants dwarf, compact, and bloom continuously.

**Moschatus.** The well-known Musk Plant, with strongly scented yellow flowers. . . . . Pkt. \$0 10

**Hybridus tigrinus grandiflorus.** Large-flowering, tigered and spotted varieties in many rich colors. . . . . 10

**MIRABILIS**

**Jalapa.** Four o'Clock. Old favorites, with sweet-scented flowers of many different colors. They open in the afternoon and wither in the morning. Mixed . . . . . Oz. 25 ets. . . . . 10

**MOMORDICA**

Handsome tendril climbers, thriving in any good garden soil, bearing small odd-shaped fruit. . . . . Pkt.

**Balsamina.** Balsam Apple. . . . . \$0 10

**Charantia.** Balsam Pear. . . . . 10

**DWARF NASTURTIUMS****TOM THUMB VARIETIES FOR BEDDING**

None of the old-fashioned plants deserve their renewal of popularity better than the Nasturtium, so brilliant and varied in coloring, free in bloom, and picturesque in appearance. Its brave and hardy habit of growth, even in hottest suns and poor soils, once gave it the name of "the soldier's flower," which was well borne out by the rollicking air of the climbing varieties; but now the artists claim it, and its pale green, shield-shaped leaves and vivid flowers appear on all sorts of choice brie-a-brac, besides being prime favorites for cut-flower work and personal adornment. The Dwarf Nasturtiums form thick masses of leaves and flowers not more than a foot in height.

**Fine Mixture.** Will produce lovely flowers of many Pkt. colors. . . . . Oz. 20 ets., 1/4 lb. 60 ets. . . . . \$0 10

For Climbing Nasturtiums, see Ornamental Climbers.

**NEMOPHILA**

Of compact habit; oddly and beautifully colored flowers of blue, purple and white, in unusual markings and blendings. Pkt. Mixed. . . . . \$0 10

**NICOTIANA**

**Affinis.** Sweet-scented Tobacco. Produces a profusion of pure white, fragrant flowers. 3 ft. . . . . 10

**NIGELLA • Love-in-a-Mist**

A delicately pretty plant, with light blue or white flowers, set in a mist of feathery green foliage, and bearing curious seed-pods.

Pkt. Mixed. . . . . \$0 10

**NOLANA**

Beautiful trailing border plants, with flowers in all shades of blue, yellow and white; also admirable for hanging baskets, etc.

Pkt. Mixed. . . . . \$0 10

**ENOOTHERA • Evening Primrose**

Flowers large, fragrant, showy, white and yellow being the predominating colors, affording a fine display.

Pkt. Mixed. . . . . \$0 10

**PANSIES**

We wish to call especial attention to our large and fine assortment of Pansy seed, which includes all famous and desirable shades and blendings. The collection is quite complete and contains only the finest and purest strains.

A garden without Pansies is an anomaly nowadays, for their bewitching flower-faces are grown and loved everywhere. The plants will live on from year to year, like other species of violets, but the flowers become smaller as the parent stem grows older, and so for a continual supply of flowers, the seeds are sown twice a year—in spring and autumn.

**Finest Mixed.** From a splendid strain of large-flowering Pkt. and finely blotched varieties. . . . . \$0 05

**Large-flowering Prize.** Special mixture prepared by ourselves, which embraces the most striking and beautiful colors. Finest mixed. . . . . 10

**Mme. Peret.** Choice strain from a celebrated English grower. . . . . 10

**Bugnot's Superb Blotched.** Very beautiful, extra-flowering variety. . . . . 10

**Trimardeau, or Giant.** Beautiful class of vigorous growth with flowers of enormous size; finest strain. . . . . 10

**Parisian Giant.** A splendid strain; large, beautifully marked flowers. . . . . 10

**Giant White.** With purple eye; very beautiful. . . . . 10

**Giant Yellow.** Black center. . . . . 10

See that your Garden has a fine bed of Pansies

**PORTULACA**

Sturdy little trailing plants that bloom brightest during our warmest, driest weather. Beds of them form brilliant rainbows of color on sunny mornings—the sun cannot be too warm for them.

Pkt. **Single, Mixed.** In many rich colors. . . . . \$0 10

**Double, Mixed.** A large percentage of the flowers will be as double as little roses. . . . . 10



Large-flowering Prize Pansies

PETUNIAS

No annual of the garden is more lavish with its flowers, or more readily adaptable to any and every purpose than the Petunia. So popular has it become that enthusiasts have given years of patient care to its improvement, and we now have superb show varieties, fringed, ruffled and double, mottled, striped and self-colored.

LARGE-FLOWERING DOUBLE FRINGED

Will produce strong, branching plants, prodigal of handsome flowers, very double and waxen, in all the best colors; the lighter tinted ones are especially beautiful. Pkt. 50 cts.

LARGE-FLOWERING SINGLE FRINGED

Large-flowering Single, Choicest Mixed. A choice mixture from superb strains, combining extreme elegance of form with a great diversity of bright and delicate colors. . . \$0 25

Inimitable Striped and Blotched. Finely shaped flowers, with stelliform blotches. All sorts. . . 10

Good Mixed. We will give an equal percentage of all choice types. . . 05

Howard's Star. Dark crimson, with white star in center. . . 10

White. . . 10

Rose. White throat. . . 10

Crimson. . . 10

Purple. . . 10

PHLOX DRUMMONDII

The Drummond Phloxes have every quality desirable in a fine bedding plant. With brilliancy and variety in color they combine grace and refinement of form, a free and constant blooming habit, neat, compact growth, and ease of culture.

Nana compacta. The Dwarf Phloxes are of neat, compact habit, growing only about 8 inches high. Charming and unique. Choice mixed colors. . . \$0 10

Stellaris fimbriata. Large clusters of flowers with fringed petals; light and effective. Mixed colors. . . 10

Stellaris cuspidata. Star Phlox. Pretty star-shaped flowers, forming a lace-like cluster. . . 10



Large-flowering Single Petunias

LARGE-FLOWERING PHLOX

Flowers as large as in the perennial class Pkt.

Rotundata grandiflora alba. Pure white. . . \$0 10

Striata. Richly striped with red and rose. . . 10

Isabellina. The flowers are yellow; distinct and new. . . 10

Kermesina splendens. Vivid crimson, white eye. . . 10

Mixed Varieties. All varieties mixed. . . 10

POPPIES

The annual Poppies are quite as brilliant and effective for all purposes as the old-fashioned perennial sorts. They grow freely in any good soil.

SINGLE POPPIES

Shirley. Semi-double, with daintily marked and colored flowers of light, gauzy appearance. Mixed. . . \$0 10

Single Mixed. All the best sorts and colors. . . 10

Tulip Poppy. Grows 12 to 14 inches tall, branches freely, and bears brilliant crowns of from 50 to 60 large, vivid scarlet flowers. Begin to bloom in early June and continue until late. . . 10

DOUBLE POPPIES

Mikado. Each blossom is a large, soft ball of finely divided petals, pure white at the base, flaming into brilliant crimson-scarlet toward the tips. . . 10

Peony-flowered Double. Large flowers, very double and shapely, brilliantly colored; free-blooming, and more lasting than is usual with Poppies. Mixed. . . 10

White Swan. Very handsome, snowy white flowers; graceful, of fine size, fringed and double. . . 10

For other varieties of Poppies, see Perennials

SALPIGLOSSIS

Sinuata grandiflora. This elegant half-hardy annual flowers in late summer and autumn. The blossoms are velvety, with deep veins and markings, lily-shaped and quaintly lovely. Mixed. . . 10

SALVIA • Flowering Sage

Magnificent bedding plants, all ablaze with long spikes of blue or scarlet flowers from June until October. 1 to 2 feet. Pkt.

Splendens. Flowers bright scarlet. . . \$0 10

Patens. Leaves silvery; large, beautiful, sky-blue flowers. . . 15

Bonfire. Beautiful dwarf variety, producing long spikes of rich scarlet flowers; very free-blooming. . . 15

SAPONARIA

Officinalis. Bouncing Bet. A hardy annual, growing into thick clumps, and producing masses of fragrant red, cruciform flowers. . . 10

SCABIOSA

Atropurpurea grandiflora. Mourning Bride. Curious and pretty—old-fashioned flowers, still deservedly popular. Mixed. . . 10



Salpiglossis



Schizanthus

### SCHIZANTHUS Butterfly or Fringe Flower

**Grandiflorus.** Erect-growing plants, for the house or garden. It is notable for its wonderful variety of coloring and is of easy culture. Its peculiarly shaped and oddly marked flowers are fine for cutting. Finest mixed. Pkt. 10 cts.

### STOCKS

For an early and profuse display of brilliant flowers

These free-blooming plants are easy to grow either in beds or pots. Almost all the varieties have long, handsome spikes of fragrant flowers, which are admirable for cutting and remain fresh a long

while. The Ten-Weeks Stocks are especially popular, because they bloom so soon after the seed is sown.

### LARGE-FLOWERING TEN-WEEKS

The plants flower ten to twelve weeks after the seed is sown. We offer a magnificent strain of this in separate colors: **Pure White, Flesh-colored, Dark Crimson, Dark Pkt. Blood-Red, Light Blue, Pink, Scarlet, Dark Blue, and Mixed.**..... Each, \$0 15

### CUT-AND-COME-AGAIN STOCKS

An unusually free-blooming species. The plants grow about 2 feet high, and send out numerous side branches, each of which bears a cluster of pure white, fragrant flowers, beautifully shaped and very double. From spring until late in fall the plants are covered with flowers, and they thrive equally well in pots or beds. Pkt. 15 cts.

### VIRGINIAN STOCKS · Malcomia

Pretty, profuse-flowering little plants about 3 inches tall, with clusters of red and white flowers. Pkt. 10 cts.

### VERBENAS

Seedling Verbenas are more robust in growth and produce larger and finer flowers than those grown from cuttings, and the light-colored varieties frequently have fragrant flowers when grown from seed. This is one of our highest and best bedding plants, and its fine trusses of flowers represent every shade of every color except yellow. Plants from seed sown early in spring keep their beds gay with flowers from midsummer until frost. They are trailing in habit, and wide-spreading, loving a rich, sandy soil, plenty of room, and full sunshine. No finer seed than ours can be procured anywhere.

**Mammoth Varieties.** This superb strain is a great improvement on the older varieties, both in size and color of flowers and habit of plants. The florets average an inch in diameter, and have clearly defined margins and large, white centers. The trusses are large in proportion, and borne in great profusion, upon robust, vigorous plants. Seed from finest flowers. **White, Scarlet, Pink, and Mixed.**..... Each, \$0 10

**Nana compacta.** New dwarf varieties of very dwarf and spreading habit, requiring no pegging down. Mixed..... 10  
**Choice Mixed.** Seed saved from finest flowers..... 05

VISCARIA. See *Ichnis*

### ZINNIAS · Youth-and-Old-Age

All of them, but especially the dwarf sorts, give gay effects in bedding. The taller sorts are very useful for mixed borders or massing in large clumps.

**Elegans robusta grandiflora plenissima.** The new Pkt. Giant Zinnia. Very large and double flowers of handsome form in all the rich Zinnia colors; plants strong, erect and branching..... 1/2oz. 50 cts. \$0 20

**Parviflora.** The Lilliput-flowered Zinnias. Tiny flowers of double, perfect form; unique and charming for bouquets. All colors..... 1/2oz. 50 cts. 10

**Elegans, Double Mixed.** Many kinds and colors..... 1/2oz. 50 cts. 10

**Elegans, Curled and Crested.** Finely varied flowers..... 1/2oz. 50 cts. 10

### GIANT-FLOWERING ZINNIAS

See colored plate—One packet each of 6 separate colors for \$1

	Pkt.	1/2oz.
Purple.....	\$0 20	\$0 50
Rose.....	20	50
Scarlet.....	20	50
White.....	20	50
Yellow.....	20	50
Lilac.....	20	50

### FLOWER SEEDS FOR WILD GARDENS

#### SPLENDID MIXTURES OF MANY BEAUTIFUL VARIETIES

These mixtures contain many beautiful and interesting annuals, furnishing a profusion of bloom from early summer until frost. They are intended to produce a display without the care necessary to regularly kept flower-beds.

**Dwarf Wild Garden Flower Seeds.** Pkt. 10 cts., 6 pkts. 50 cts., postpaid.

**Tall Wild Garden Flower Seeds.** Pkt. 10 cts., 6 pkts. 50 cts., postpaid.

Be sure and add to your order one of our collections of Giant-Flowered Zinnias

Giant-flowered  
Zinnia



## SEEDS OF ORNAMENTAL FOLIAGE PLANTS

FOR SUMMER BEDDING, BORDERS AND POT CULTURE

## ACANTHUS

**Mollis latifolius.** A tall, herbaceous plant of beautiful Pkt. and stately habit, grown for its rich tropical leafage. Handsome and effective, whether grown as a center for foliage beds or as a specimen plant for lawns and borders. \$0 10

## AMARANTHUS

Tall-growing plants; showy leaves, variegated with shades of red, yellow and green; long racemes of flowers.  
**Caudatus.** *Love-lies-bleeding.* Blood-red flowers on plants Pkt. 3 feet tall. \$0 10  
**Cruentus.** The well-known Prince's Feather. . . . . 10  
**Tricolor.** *Joseph's Coat.* Leaves are a mosaic of color. . . . . 10

## CENTAUREA • Dusty Miller

Silver-leaved plant, indispensable for ribbon beds and borders, the soft, natural tints of grayish green being very effectual in harmonizing contrasts in more brilliant leaves.  
**Candidissima.** Leaves broader and whiter than in any Pkt. other silver-leaved sort. . . . . \$0 10  
**Gymnocarpa.** Very graceful variety. . . . . 10

## CINERARIA

**Maritima.** Another fine silver-leaved plant. Leaves are silvery white; flowers yellow. . . . . 10

## - COLEUS

The leaves are of many shapes and bright colors, and nearly all varieties have a rich, velvety appearance. Seed sown in March or April will produce fine plants for bedding. Pkt. 15 cts.

## EUPHORBIA

**Heterophylla.** *Painted Leaf.* Glossy green leaves, forming Pkt. large bracts on the ends of the branches, changing in mid-summer to brilliant scarlet. . . . . \$0 10  
**Marginata (variegata).** *Snow-on-the-Mountain.* Of robust growth, with fine green leaves, striped with white. . . . . 10

## PERILLA

**Nankinensis.** A beautiful half-hardy annual plant. Leaves rich, dark purple, fringed. Contrasts with silver-leaved foliage plants. . . . . 10

## PYRETHRUM

**Aureum.** *Golden Feather.* A hardy annual with golden yellow finely cut foliage, producing rich, soft effects in bedding. . . . . 10

## RICINUS • Castor-Oil Bean

Plants of stately growth, with fine fruits and leaves.  
**Bourboniensis arboreus.** Grows 15 feet high; leaves enormous. . . . . 10  
**Cambovensis.** Red-black stems; very dark leaves; very distinct. . . . . 10  
**Gibsoni.** *Duchess of Edinburgh.* Dark purple leaves and stems. . . . . 10  
**Zanzibarensis.** The plants attain great dimensions, presenting a splendid aspect with their gigantic leaves. Mixed. . . . . 10

## SEEDS OF HARDY PERENNIALS

MANY PERENNIALS BLOOM THE FIRST SEASON IF SOWN EARLY

The permanent character of the Hardy Perennials, which live and bloom from year to year for an indefinite period, with but little care, renders them very popular among all classes of gardeners. Some of our very finest flowers are to be found among these plants for the hardy garden, many of which, though old-fashioned, are dear through association.

## ACONITUM • Monkshood

**Napellus grandiflorum.** Curious, helmet-shaped blooms, Pkt. quite pretty and striking, produced on tall racemes above the finely cut foliage. Very prodigal of its large, bright blue flowers from midsummer until late in autumn. . . . . \$0 10

## ADONIS

**Vernalis.** A bright, early spring plant, with large, showy flowers of sunny yellow. . . . . 10

## ALYSSUM

**Saxatile compactum.** Low-growing, with light green, silky foliage; golden yellow flowers. For shaded places. . . . . 10

## ANEMONE

**Fine Mixed.** Old favorites, and among our earliest spring flowers. Various shades of scarlet, purple, blue and white, sometimes striped. . . . . 10

## ANTIRRHINUM • Snapdragon

Bloom the first year if sown early, and make very bright and showy bedding plants. Varieties with dark flowers are rich and velvety in depth of color. The dwarf sorts grow only 6 to 8 inches tall; other species about a foot high. Pkt.  
**Tall, Mixed.** Seed from fine flowers of best colors. . . . . \$0 10  
**Tom Thumb, Mixed.** All colors; fine for bedding. . . . . 10  
**Pure White, Scarlet, Yellow, Deep Rose, Striped Black.** . . . . . Each, 10

## ARABIS

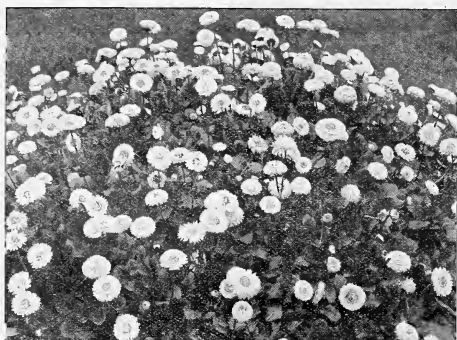
**Alpina.** *Rock Cress.* Pure white flowers borne on erect spikes; blooms very early. 9 in. . . . . 10

## AQUILEGIA • Columbine

Very handsome and free-blooming plants, bearing curiously shaped flowers in many bright and delicate colors. They grow about 2 feet tall, and display their flowers well against a mass of light and pretty foliage.  
**Chrysantha.** *Golden-spurred Columbine.* New and much Pkt. admired; flowers large and bright golden yellow. . . . . \$0 10  
**Chrysantha grandiflora alba.** Large, snow-white flowers with long spurs. . . . . 10  
**Vulgaris fl.-pl.** These will give an abundance of odd and very pretty double flowers in many colors. Mixed. . . . . 10  
**Double Yellow, Striped, Blue, White.** . . . . . Each, 10



Golden-spurred Columbine



Double English Daisy

**ASPERULA**

**Odorata.** Sweet Woodruff. Free-flowering plants which thrive well in shaded places. Flowers white, sweet-scented. 1 ft. . . . . \$0 10  
**Azurea-setosa.** Light lavender, fragrant flowers. 9 in. . . . . 10

**AURICULA.** See Primula**BELLIS PERENNIS • Double English Daisy**

This dainty little flower is a favorite everywhere. It is of easy culture, and grows well in all soils, if given a rather moist, shaded situation. Flowering plants grow readily from seed sown in the border in early spring, or in boxes in the house. They seldom exceed 6 inches in height, and bloom from spring until mid-summer; in some localities sparingly in autumn. An exquisite plant for shady borders and for edgings to beds, or for window-boxes in a cool room where in winter flowers are sent up thickly, forming rainbows of pink and white. Pkt.

**Flore-pleno.** Flowers double. Mixed colors. . . . . \$0 10  
**Longfellow.** The bright rose-colored flowers are very large and double, and borne on long, stiff flower-stalks. An exquisite flower for cutting. . . . . 10  
**Snowball.** A pure white variety with very large, perfect flowers on long stems. . . . . 10

**CAMPANULA • Bellflower**

Very popular for mixed beds and borders. They bear a profusion of large, bell-shaped flowers in blue, rose, pink, and white. **Medium.** Canterbury Bell. Produces large, nodding, single Pkt. and double bell-shaped flowers of charming form and many beautiful shades. . . . . Each, \$0 05

**Medium calycanthem.** Cup-and-Saucer. Handsome flowers in many tints of blue, rose and white. Mixed. . . . . 10  
**Pyramidalis.** Flowers in many shades of blue. Mixed. . . . . 05  
**Striped.** 3 ft. . . . . 10  
**Dark Blue.** 3 ft. . . . . 10  
**Rose.** 3 ft. . . . . 10  
**White.** 3 ft. . . . . 10

**CORTADERIA**

**Argentea.** Pampas Grass. The silvery plumes are very light and graceful in effect, and are much used for all sorts of indoor decoration. For clumps upon lawns, the plant is elegant and striking, and usually grows from 6 to 8 feet high. Requires winter protection. . . . . 10

**DELPHINIUM**

Indispensable to the hardy garden, because of their long, graceful spikes of bright blue flowers.  
**Belladonna Hybrids.** Lovely shades of blue. . . . . 10  
**Fornosum.** Rich blue flowers, with white centers. Splendid mixture. . . . . 10

**DIANTHUS • Pinks**

**Barbatus.** Sweet William. Attractive, profuse-blooming Pkt. garden plants. The flowers have a quaint perfume.  
**Barbatus, Single, Mixed.** All the best colors. . . . . \$0 10  
**Barbatus, Double, Mixed.** Seed from fine double flowers of many colors. . . . . 10  
**Double Hardy Garden or Grass Pink.** This species is in perfection about the first of June. The plant is hardier than the carnation. . . . . 10  
**Plumarius.** Double Pheasant's Eye Pink. Double, fragrant, fringed flowers of white, crimson, or purple. . . . . 10

**DIGITALIS • Foxglove**

A stately, handsome plant, from 3 to 4 feet high. Its fine waxen flowers droop gracefully from long spikes, upon which they are set thickly. Among shrubby, or as a background for lower plants, it gives great satisfaction. Pkt.  
**Alba.** White. . . . . \$0 10  
**Rosea.** Pink. . . . . 10  
**Purpurea.** Purple. . . . . 10  
**Mixed.** . . . . . 05

**GAILLARDIA**

**Aristata (grandiflora).** Splendid new perennial variety, with very large, handsome flowers, having dark crimson centers marked with rings of many brilliant colors. . . . . 10

**GYNERIUM.** See Cortaderia**GYPSOPHILA • Baby's Breath**

**Paniculata.** A dainty, mist-like plant, with sprays of small, white, star-shaped flowers and delicate foliage. . . . . 10

**HOLLYHOCKS****Chater's Superb Strain**

This stately, handsome, old-fashioned plant has been greatly improved of late years, and its tall spikes of double silken flowers are magnificent when grown either in clumps or lines. Chater's Hollyhocks are famous everywhere as the finest strain grown. **Separate Colors.** Pure White, Scarlet, Golden Yellow, Peach, Pink, each, pkt. 15 cts.; the 5 varieties for 60 cts.

**LAVANDULA**

**Vera.** Lavender. Grown for its leaves and flowers, which retain their fragrance when cut and dried. . . . . \$0 10

**LOBELIA**

**Cardinalis.** Cardinal Flower. Long spikes of intense scarlet flowers. One of the most brilliant plants in cultivation. Suitable for all situations. . . . . 10

**MYOSOTIS • Forget-me-not**

Thrives best in moist, shaded places, forming neat, compact, little plants, with graceful sprays of starry blue flowers, which form one of the chief attractions of the garden in early spring. They are very pretty, for pot culture, too, if given cool treatment, and frequently bloom in the first season.

**Palustris.** True Forget-me-not. Flowers bright blue, with a large golden yellow eye. . . . . \$0 10  
**Rosea.** A rose-colored variety of the Victoria. . . . . 10  
**Victoria.** A dwarf variety, which forms shapely, rounded plants, and is well adapted to pot culture, although it loves the hardy green quite as well. Its sky-blue flowers are borne in thick clusters, the center ones being double. . . . . 10

**PAPAVER**

**Oriente.** Large, brilliant scarlet flowers. The loose, silken petals have a blotch of black at the base. The plants are about 2 feet high, and entirely hardy. . . . . 10

**PENTSTEMON**

**Barbatus.** Beard Tongue. The plants are herbaceous, and bear graceful spikes of bloom, from early summer until frost. The flowers are white, blue, scarlet, crimson, yellow, etc. Mixed. . . . . 10

## PHLOX

**Decussata.** *Perennial Phlox.* Fine clumps of these plants Pkt. form magnificent lawn and garden ornaments, and nearly all bright colors are represented in the large and handsome flower-heads. Dwarf or Tall.....Each, \$0 10  
**Drummondii.** See Annuals.

## PRIMULA • Auricula

Cowslips, or Hardy Primroses, are favorite early spring flowers with clusters of bright blossoms in different shades of red and yellow. The clumps increase rapidly. Pkt.  
**Auricula.** Mixed seed of best varieties.....\$0 10  
**Acaulis (vulgaris).** The true, fragrant yellow Primrose... 10

## SILENE • Catchfly

Appear in early spring, and last until the late autumn; vary in height, color of flowers, etc., but all free-blooming; well adapted to exposed borders, etc. Pkt.  
**Mixed**.....\$0 10

## SEEDS FOR GREENHOUSE

## BEGONIAS

Begonias are now grown in such large quantities, both for summer bedding and winter flowers, that many people prefer sowing the seed to buying the plants. We offer species especially adapted for bedding and the window.

**Vernon.** Dark-leaved. Strong, dwarfish, branching plant Pkt. valuable for bedding. The coral-red flowers cover it thickly all summer long. Equally valuable for pot culture and winter decoration.....\$0 25

**Tuberous-rooted, Mixed, Single.** Fresh seed from fine plants; will give large flowers of various shapes and colors. The tubers must be lifted and stored in dry sand, in a dry, warm place in autumn..... 25

**Mixed, Double.** Seed saved from a fine collection of large flowering varieties..... 25

## CHOICE CARNATIONS

Many of these plants will produce flowers as large, double, fragrant, and brilliantly colored as those from plants of named varieties. The Vienna and Grenadin species are excellent for open-air culture and bloom several weeks earlier than the other sorts. Pkt.

**Early-flowering Vienna.** All colors. Choice mixed.....\$0 25

**Early Grenadin.** Bright scarlet flowers..... 25

**Perpetual, or Tree.** Tall plants, continually in flower; 75 per cent of flowers are double. Choice mixed..... 10

**Double Self-Colors.** Elegant, fragrant, fringed flowers of pure and beautiful colors..... 10

## ORNAMENTAL CLIMBERS

Vines are the tapestry of the garden, embroidered with their own blossoms. All the most popular hardy annual and perennial kinds will be found here.

## AMPELOPSIS

**Veitchi.** *Japan, or Boston Ivy.* A beautiful vine for covering walls and buildings, to which it adheres closely. The leaves color beautifully in autumn.....\$0 10

## ARISTOLOCHIA • Dutchman's Pipe

One of the best-known hardy climbers, bearing curious pipe-shaped flowers of yellowish brown color. Large heart-shaped leaves; fine for shading verandas. Pkt.

**Elegans.** Purple and white flowers. 30 ft.....\$0 10

**Sipho.** Yellowish brown flowers. 30 ft..... 10

## BALLOON VINE

Rapid grower; flowers white; seed-pods shaped like miniature balloons. 10 ft. Pkt. 10 cts.

SWEET WILLIAM. See *Dianthus barbatus*

## VIOLA

**Odorata.** *Sweet-scented Violet.* Well-known, delightfully Pkt. fragrant little flowers, which bloom most freely in early spring and fall. The seed should be sown early. Mixed.....\$0 10

## WALLFLOWERS • Cheiranthus

Their exquisite perfume and their rich, quaint, bright colors—usually brownish red, yellow and violet—should give them a place in every garden. When grown in the open ground, the plants should be potted in autumn. Will bloom in winter if kept cool.

**Double Mixed.** This variety gives fine flowers in all the Pkt. Wallflower colors.....\$0 10

**Single Mixed.** Seed chosen from select plants of best colors..... 10

## CALCEOLARIA

The curiously shaped and oddly marked flowers of these plants at once attract notice.

**Grandiflora.** Large-flowering, self-colored varieties. A Pkt. great diversity of colors. Mixed.....\$0 25

## CINERARIA

**Hybrida grandiflora.** A distinct and showy window plant that blooms when its brilliant velvety flowers are most appreciated. Splendid, large-flowering mixture..... 25

## GLOXINIA

**Hybrida.** The waxen flowers are large, bell-shaped, and richly colored, producing grand effects when different sorts are grouped together. Choice mixed..... 25

## PRIMULAS • Chinese Primroses

These plants are easily grown from seed and are noted for their rich, profuse, and prolonged display of flowers in winter. Full directions for culture are given on our packets.

**Japonica.** Beautiful, in shades of crimson, maroon, lilac, Pkt. pink and white.....\$0 10

**Sinensis fimbriata alba magnifica.** Very large, pure white flowers, with yellow eye; delicately fringed..... 25

**Sinensis, Fern-leaved, White.**..... 25

**Sinensis, Fern-leaved, Crimson.**..... 25

**Sinensis, Fern-leaved, Mixed.**..... 25

**Sinensis, Fine Mixed.** Fringed flowers of various colors... 25

## CENTROSEMA

**Grandiflora.** Large, pea-shaped flowers, produced in Pkt. clusters; rosy violet, with broad, feathered markings of white. Foliage abundant and graceful. A hardy perennial, climbing 6 to 8 feet in a season, free blooming....\$0 10

## CLEMATIS

**Hybrida grandiflora.** Fine for arbors and verandas. Soak seeds 24 hours in warm water before sowing. Mixed varieties..... 10

## COBÆA

**Scandens.** A tender annual of very rapid and luxuriant climbing habit. The deep violet-blue flowers are large and bell-shaped, averaging 2 inches in length and 1½ inches across..... 10

**DOLICHOS**

**Lablab.** *Hyacinth Bean.* Noted for its large clusters of Pkt. snowy white or purple flowers. It grows rapidly and makes a fine screen of thick foliage. A tender perennial... \$0 10

**ECHINOXYSTIS**

**Lobata.** *Wild Cucumber.* One of the quickest growing vines; fine for covering waste places and stone walls. 20 ft. .... 10

**GOURDS, ORNAMENTAL**

Quick-growing tender annual vines, desirable for covering arbors, walls, etc., and producing useful and ornamental fruit in great variety of shapes and colors. 15 to 20 feet. Pkt. 10 cts.

**HUMULUS • Japanese Hop**

Annual climbers of very rapid growth, with dense foliage. The leaves remain bright, fresh, and rich-looking until late in the fall.

**Japonicus.** Leaves plain green. Seed sown in early spring Pkt. produces plants which will cover a wide spread in a short time. .... \$0 10

**Japonicus variegatus.** Leaves broadly edged with cream color and marked and shaded with silvery white and deep green; often a whole branch and its leaves will be pure white. At a little distance the plant looks as if it were covered thickly with white blossoms. It is very vigorous and hardy. .... 10

**IPOMCEA • Morning-Glory**

This popular climber is so widely grown that it does not require any further introduction.

**Grandiflora.** *Moonflower.* The large pure white flowers Pkt. of this plant open at night; produced in great abundance, and quite fragrant. .... Oz. 50 cts. \$0 10

**Heavenly Blue.** Foliage very large and heart-shaped; flowers 4 to 5 inches across, borne in large clusters; light blue, with yellow throats. The bloom also hides the foliage. .... Oz. 75 cts. 10

**Imperialis.** *Japanese Morning-Glory.* A great improvement over the old-fashioned sorts. Flowers are larger, fringed, some double, and appear in unlimited variety of colors. Foliage is very large and often variegated. 10 ft. Oz. 40 cts. 10

**Leari.** Flowers violet-blue; an elegant greenhouse species. Oz. 75 cts. 10

**Purpurea** (*Convolvulus major*). Showy annual climber of easiest culture, in many brilliant colors. 25 feet. .... Oz. 20 cts. 05

**Quamoclit.** *Cypress Vine.* Delicately cut foliage and small, star-shaped flowers of scarlet or white. Mixed. Oz. 50 cts. 10

**Setosa.** *Brazilian Morning-Glory.* Beautiful rose-colored flowers and huge leaves; remarkably luxuriant in growth. Oz. 50 cts. 10

**LATHYRUS**

**Latifolius.** *Everlasting Pea.* Hardy perennial climber, growing 6 to 8 feet high when trained on a trellis. Flowers borne in large clusters. Red and White, mixed. .... 10

**MAURANDIA**

Graceful annual climber for window or conservatory; admirable to hang from vases and to cover stumps and low trellises; blooms very freely. Pkt. 10 cts.

**SMILAX** (*Myrsiphyllum asparagoides*)

Used extensively for inside decorations; climbing habit; fine for florists' use. 10 ft. Pkt. 10 cts.

**THUNBERGIAS**

These are among the best half-hardy annual climbers. Choice mixed colors. Pkt. 10 cts.

**NASTURTIUMS • Tropæolum**

The gay and picturesque Nasturtiums are almost as popular among climbers as sweet peas. Their rapid and luxuriant growth quickly covers trellises, verandas, fences, or any unsightly object with a beautiful mass of oddly pretty leaves and brilliant flowers. No plant could be freer with its blossoms or display them in a more graceful way.

**Lobbianum.** Very superior for trellises, arbors, or vases; Pkt. flowers very brilliant and rich, borne profusely. Mixed colors. .... Oz. 25 cts. \$0 10

**Peregrinum.** *Canary Creeper.* Graceful, winged flowers of pure light yellow. .... Oz. 25 cts. 10

**Finest Mixed.** Seed saved from a choice collection of flowers, in many colors; will produce charming results if planted freely in ground that is not too rich. Oz. 15 cts. 05

**SWEET PEAS**

Fashion does not always display so much good taste in her choice of a "pet flower" as when giving the Sweet Pea that place. Already they have become so popular that seedsman must handle their seeds by the ton, and they are grown galore in hedges, sold in great fragrant heaps from the markets, and worn and carried whenever and wherever possible. Every garden must have its hedge of Sweet Peas, and we are ready to supply you with the best of seed.

**GRANDIFLORA VARIETIES**

- Black Knight.** Deep maroon, veined black.
- Blanche Ferry.** Rose and white.
- Dorothy Eckford.** Large white.
- Janet Scott.** Bright pink and buff.
- King Edward III.** Bright red.
- Lady Grisel Hamilton.** Lavender.
- Navy-Blue.** Indigo-blue and violet.  
Oz. 15 cts., ¼lb. 50 cts., lb. \$1.50
- Eckford Varieties, Mixed.** Oz. 10 cts., ¼lb. 30 cts., lb. \$1.

**ORCHID-FLOWERED**

Quite distinct from the standard sorts, having large, round, open flowers of extraordinary size, usually measuring 2 inches across, with wavy standards and wide-spreading wings, a large percentage bearing four of these blossoms to the stem, which is long and strong.

Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts.

**Asta Ohn.** Pinkish lavender.

**Countess Spencer.** Pure pink.

**King Edward Spencer.** Pure red.

**Wedgwood.** Blue.

**White Spencer.** Pure white, select strain.

**GIANT SPENCER MIXTURE**

Well-selected mixture containing only true Spencer types. We can recommend this as a superior mixture. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.



Asta Ohn Sweet Pea

## DAHLIAS

These summer and autumn-flowering plants are more popular than ever. They should not be planted until the weather has become warm and settled in spring, and should be taken up before severe frosts in autumn. They require a sunny situation and rich soil to bring out their full beauty. One shoot only should be allowed to each root. Roots should be kept in a warm, dry place during winter.

We carry in stock a large number of the leading varieties and can also supply any variety not in stock.

**Time of Planting.** The time for planting Dahlias varies quite a good deal, according to the locality, whether sheltered or open, early or lateness of the season, and the time when the general crop is desired.

In New England the tubers may be set out as early as May 1 in some sections and from then until the middle of June or first of July.

## GLADIOLUS

Of summer-blooming plants for general garden decoration, the Gladiolus is deserving of special attention. Requiring but little room for growth, they are exceedingly useful for planting among shrubbery in the border, while for massing in large beds, where a brilliant and effective display is desired, they are invaluable. They succeed best in good loam, enriched with well-rotted manure. Bulbs should be planted about 3 inches deep and 6 inches apart.

Our mixtures are made up from fine varieties and are all selected, first-size bulbs and sure to give the best results.

If wanted by mail, add 10 cts. per doz. for postage

**Arterica.** One of the best Gladiolus in existence. The color is a most beautiful soft pink, very much like the Enchantress carnation. Individual flowers are very large and massive, and as a group or in vases there is no other flower which can excel it in effectiveness. 60 cts. per doz., \$3.50 per 100.



Border of Gladiolus

**Baron Hulot** (Blue King). Good-sized flower, well arranged on straight spikes; color dark violet bordering on blue. \$1 per doz., \$7.50 per 100.

**Halley.** Delicate salmon-pink predominates with a slight rosy tinge; lower petals have a creamy blotch with a bright red stripe in center. 60 cts. per doz., \$4 per 100.

**Glorv of Holland.** A beautiful pure white, with lavender anthers; flowers very large; first class in every way. 75 cts. per doz., \$5 per 100.

**Herada.** Blooms of immense size on tall straight spikes. The color is pure mauve, glistening and clear with deeper markings in throat. An unusual color and very effective as a cut-flower. 75 cts. per doz., \$5 per 100.

**Mrs. Frank Pendleton, Jr.** The color is a delicately flushed salmon-pink, extending to the reverse side of the petal. The blooms are wide open and are arranged individually on very stems. Each flower is doubly enhanced by a rich, maroon blotch on the three lower petals. 75 cts. per doz., \$5 per 100.

**Mrs. Dr. Norton.** Very large flowers well set on a tall and graceful spike with four to eight flowers in bloom at one time. Color, white, with edges of petals suffused with soft La France pink, a very choice variety. \$1 per doz., \$7 per 100.

**Mrs. Frank King.** A new variety which excited great comment and admiration, both for size of flower and beauty; the color of the flower is a light scarlet; the flowers are very large, usually measuring from 3½ to 4 inches in diameter. 60 cts. per doz., \$4 per 100.

**Schwaben.** A most meritorious variety of wonderful vigor, with strong, erect spikes and large, well-expanded flowers of a clear canary-yellow with a small blotch of deep garnet in the throat. This may now be considered the best and freest growing yellow variety. 75 cts. per doz., \$5 per 100.

**Peace.** Beautiful large pure white, tinted with lilac. 75 cts. per doz., \$5 per 100.

**Pink Perfection.** Color, apple-blossom-pink—a very lovely, soft shade. Altogether one of the most popular varieties. \$1 per doz., \$7 per 100.

**W. E. B. Co.'s Special Mixture.** \$4 per 100.

## CANNA ROOTS

**Charles Henderson.** Flowers brilliant crimson, with yellow flame in throat. 3½ ft.

**David Harum.** Bronze foliage; flowers scarlet, dotted crimson. 3½ ft.

**Flurence Vaughan.** Yellow, with bright red spots. 4½ ft.

**Madam Crozy.** Brilliant vermilion-scarlet, with golden edge. 3 ft.

**Mont Blanc.** The only genuine pure white Canna. 3 ft.

**Shenandoah.** Beautiful rosy pink, borne in large clusters. 3 ft.

**Robusta.** Scarlet flowers; bronze foliage. 8 ft.

All varieties: 15 cts. each, \$1.50 per doz.

## BEGONIA, Tuberous-Rooted

For bedding and as pot-plants, these beautiful flowers are very desirable and popular. They bloom continuously all summer; flowers are very large, out rivaling those of the most brilliant geraniums. The flowers are circular, large, and of great substance; the colors are most beautiful, rich, and varied.

### SINGLE-FLOWERING VARIETIES

**Rose, Scarlet, White, Yellow, and Orange.** 20 cts. each, \$2 per doz.

**Finest Mixed.** From above sorts. 20 cts. each, \$2 per doz.

### DOUBLE-FLOWERING VARIETIES

**Red, Rose, White, and Yellow.** 20 cts. each, \$2 per doz.

**Finest Mixed.** From above sorts. 20 cts. each, \$2 per doz.

## TUBEROSES

One of the most delightfully fragrant flowers. Invaluable for bouquets, buttonholes, and wherever cut-flowers are in demand. Before potting the bulbs remove the small offsets.

**Excelsior, Double Pearl.** A superior strain with very large white flowers, produced in great abundance. 50 cts. per doz., \$3 per 100.

## SPRAYING CALENDAR

This Calendar, based upon the recommendations of the Agricultural Colleges and Experiment Stations of the country, is a brief guide for the general treatment of insect pests and plant diseases.

Timeliness is one of the greatest factors in the control of diseases and pests; in order to spray intelligently, that is, to strike at the proper time, one should know at least the main facts in the life-history of the insect or disease sprayed against. Moreover, it will pay to remember that, for nearly all fungous diseases and some insects, spraying is a preventive, and to be most effective must be done at the time when attacks may be expected, without waiting for the enemy to become apparent.

Spray only on clear, sunny days and finish the work early in the afternoon, so that the application will dry rapidly and before dew falls. Spray evenly and thoroughly, using ample pressure and a nozzle that throws a fine mist, but do not continue until the foliage drips. Never spray when the trees are in blossom.

### IN GENERAL TERMS

POISONS, such as Arsenate of Lead, are used to control leaf-eating insects. Examples—Canker Worm, Potato Beetle.

CONTACT INSECTICIDES, such as Tobacco Extracts, Soap Sprays, etc., are used in fighting sucking insects. Examples—Plant Lice, Squash Stink-bug. Sucking insects will not be killed unless they are hit by the spray.

Bordeaux Mixture and Lime-Sulphur are for use against plant DISEASES.

PLANT	ENEMY	SPRAY	FIRST APPLICATION	SECOND APPLICATION	THIRD APPLICATION
APPLE	Aphis	Black Leaf 40 in conjunction with Arsenate of Lead.	When buds show pink.	In conjunction with spray for scab.	
	Bud Moth Codling Moth Scab Curculio	Arsenate of Lead and Bordeaux. Dry Lime-Sulphur 1-50 after apples have set.	Just before blossoms open.	Immediately after petals fall.	10 days later.
	San Jose Scale	Lime-Sulphur or Scalecide as dormant spray.	Autumn after leaves have fallen, or	Early Spring before leaf buds swell.	If badly infested, make both applications.
CABBAGE CAULIFLOWER	Green Worms	Arsenate of Lead, if plants are not heading.	If heading, apply Hellebore.		
CARNATION	Red Spider Rust	Clear Water. Copper-Sulphate 1 lb. to 20 gals. water.	Sprinkle off the plants 3 times a week, being careful not to drench the beds. In the greenhouse once in 2 weeks. In the field once a week.		
CUCUMBER MELON SQUASH	Wilt Mildew Striped Beetle Borer	Bordeaux. Heavy application of Tobacco Dust. Bordeaux. As soon as stems are long enough cover the joints with earth so that secondary roots will develop.	Middle of July. Keep the vines well sprayed	10 days later. to make them distasteful to the beetles.	
CURRENT GOOSEBERRY	Current Worm Mildew	Arsenate of Lead and Bordeaux. Bordeaux.	As soon as worms appear. Before leaf buds open.	Use Hellebore after fruit is half grown. After blossoming.	
GRAPE	Rose Chafer		Melrosine when pest appears.	Repeat if necessary.	
	Flea-beetle Mildew	Arsenate of Lead. Bordeaux.	Before blossoms open. Before blossoms open.	When fruit has set.	2 weeks later.
PEACH AND APRICOT	San Jose Scale Peach Leaf-curl	(See under Apple). Lime-Sulphur or Bordeaux.	Dormant season before buds swell.		
	Curculio Scab and Brown Rot	Arsenate of Lead. Dry Lime-Sulphur 1-50.	When shucks are shedding from the young fruit. One month after petals fall.	One month after petals fall. One month before fruit ripens.	
PEAR	Psylla	Tobacco extract. Lime Sulphur or Scalecide as delayed dormant spray.	After blossoms fall.	5 to 7 days later.	
	Codling moth Scab Scale	(See under Apple).			
PLUM	Curculio Fungous diseases	Arsenate of lead. (See under Peach).	Just after blossoms fall.	1 week later.	
POTATO	Scab Beetles Blight or Rot Aphis	Soak seed before cutting 30 minutes in Formaldehyde. Arsenate of Lead and Bordeaux. Black Leaf 40 as contact spray.	When plants are 6 or 8 inches high.	Plant in clean soil. 2 weeks later.	Repeat every 2 or 3 weeks; omitting arsenate of lead if beetles are not in evidence. Wet spells followed by hot weather are favorable to development of rot and blight.
RASPBERRY BLACKBERRY DEWBERRY	Anthraxnose Red Rust	Bordeaux. Dig up and burn all infected plants.	When new canes are 6 inches high.	2 weeks later.	2 weeks later.
ROSE	Rose-chafer Black spot Mildew	Melrosine. Copper solution. Flowers of sulphur.	When beetles appear. As soon as spots appear. Dust every 10 days if necessary.	Repeat when necessary. Repeat when necessary.	
STRAWBERRY	Leaf spot or rust	Bordeaux.	3 or 4 times during the season.		

For Plant Lice (Aphids) use Tobacco Extracts or Soap Sprays on all Plants

## INSECTICIDES AND FUNGICIDES

**ANT DESTROYER.** About  $\frac{1}{2}$  teaspoonful required for each hill. Pkt. 35 cts.

**B-K** A pure sodium hypochlorite, the harmless and efficiency of which is well known to most scientists and health officials. It contains no poison or acid. *B-K performs three distinct functions: It has a solvent, cleansing action; it destroys bacteria and infectious organisms; it is a powerful deodorant.* Use clean water and B-K only; put nothing else in the rinse water. 10 ozs. 60c., qt. \$1.25, gal. \$3, 5 gals. \$12.50.

**BLACK-LEAF 40** (Sulphate of Nicotine). Highly recommended by spraying experts for destroying aphids, thrips, etc., without injury to foliage. Perfectly soluble in water; no clogging of nozzles. Oz. 35 cts.,  $\frac{1}{2}$  lb. \$1.25.

**BORDEAUX MIXTURE, LIQUID.** Effective in preventing and checking all fungous diseases, such as potato rot, potato blight, rust, mildew and diseases of grapes. Qt. 50 cts., gal. \$1.50.

**BUG DEATH.** A non-poisonous powder, sure death to potato, squash, and cucumber bugs, currant and tomato worms. Safe to handle. Apply dry or in water. This insecticide and plant-food combined has been on the market for twenty-five years. We can say to our customers that we give Bug Death our fullest endorsement.

While the first cost to kill the bugs on an acre of



potatoes is rather more than the arsenical insecticides, the results at harvesting-time are entirely satisfactory, and where practical tests have been made the extra yield of marketable potatoes has more than paid the entire expense. It is non-poisonous, which makes it perfectly safe to use on all plants or vines. Lb. 20c., 3 lbs. 50c., 5 lbs. 75c., 12  $\frac{1}{2}$  lbs. \$1.50, 100 lbs. \$9.

**CROW-REPELLANT.** A non-poisonous oil for protecting newly planted corn from crows and blackbirds. Don't kill the crows—they are valuable bug destroyers. Corn treated with this oil will run through a seeder better than when treated with tar. \$1 and \$1.50.

**CUTWORM FOOD.** Easy to apply; will not injure the plants, and will destroy the cutworm. Lb. 40 cts., 5 lbs. \$1.75.

**DY-SECT.** A highly concentrated insecticide, which should always be diluted before use. It is well to vary the strength in accordance with the number of the infesting insects, but never use stronger than 1 part Dy-sect to 30 parts water. For rose-bugs, beetles, curculio, and hard-bodied insects, use 1 part Dy-sect with 30 parts water. It is always better to spray during the hot part of sunny days, but this is not essential. Be sure to spray all parts of the plant, on both upper and under side. 4 ozs. 30c., pt. \$1.

**DOLGE WEED KILLER.** A clean, concentrated, super-strength liquid chemical,

which sinks into the ground, destroying the tops and roots of all existing growth. Absolutely guaranteed. Apply it according to directions on a spot you have found troublesome; if the weeds are not killed, tell us—"No riddance, no pay." Qt. 60 cts., gal. \$1.75, 5 gals. \$6.75.

**FISH-OR WHALE-OIL SOAP.** A very effective, simple, and cheap preparation for the preservation of trees, shrubs, plants, vines, rose bushes, and garden plants in general from the ravages of insects. Lb. 30 cts., 5 lbs. \$1.40.

**GRAPE DUST.** For destroying mildew on grape-vines and trees affected with mold, mildew, or rust-mites. 5 lbs. 75 cts.

**HELLEBORE, White, Powdered.** An excellent protection from currant worms, grape slugs, etc. May be applied by dusting on with a bellows, or as a liquid, mixed at the rate of 1 pound to 30 gallons of water.  $\frac{1}{2}$  lb. 35 cts., lb. 60 cts.

**KAYSO.** The combined casein spreader and adhesive which makes orchard and garden spraying more economical and more efficient. Kayso is now used by fruit and vegetable growers in all parts of the United States. 2 lbs. 50 cts., 10 lbs. \$2.30.

**KEROSENE EMULSION (Concentrated).** One of the best all-round insecticides. Especially valuable for the destruction of the green and black fly, scale, woolly aphid, curculio, and all sucking insects. Qt. 50 cts., gal. \$1.25.

**LEMON OIL.** The cheapest and one of the most effective insecticides for cleaning plants of lice, scale, mealy-bug, spider, thrips, black- and green-fly, mites, ants, and mildew. Very effective on palms, ferns, and rubber plants. Remarkable results are obtained when used on dogs or other animals for fleas, skin disease, and for relieving mange. Full directions on package.  $\frac{1}{2}$  pt. 35 cts., pt. 60 cts., qt. \$1.

**NICO-FUME, Liquid.** An effective vaporizing liquid.  $\frac{1}{4}$  lb. 75 cts., lb. \$2.25.

**NICO-FUME, Paper.** A nicotine preparation. Furnishes easiest method of fumigation. Box of 24 sheets, \$1.25; 144 sheets, \$5.50.

**PYROX, BOWKER'S.** Controls fungus—kills insects. Pyrox is a powerful fungicide. When applied early and often enough to keep the foliage or fruit covered, it kills the fungous spores and prevents the fungous disease from becoming established. Pyrox also kills chewing insects. It is a strong poison insecticide combined with the copper fungicide. Thus it is a double-header spray which does two jobs at once. Pyrox is easy to use—just mix with water, and spray. It sticks to the foliage and gives lasting protection. It is a creamy paste, so smooth and fine that it goes through the finest nozzle without clogging. Lb. 50 cts., 5 lbs. \$1.75, 10 lbs. \$3, 25 lbs. \$6.25, 50 lbs. \$10.75, 100 lbs. \$17.

**RAX.** It is estimated that rats and mice consume grain each year in the United States alone to the value of more than \$10,000,000. Most of this waste can be saved if Rax is given a chance. 75 cts.



**SCALECIDE.** Sure death to the San José scale. A soluble petroleum spray for use in orchards. It is economical, effective, and acts as a fungicide. Qt. 60 cts., gal. \$1.40, 5 gals. \$6.25.

**SLUG SHOT.** A light, composite, fine powder, easily distributed either by duster bellows, or in water by spraying. Thoroughly reliable in killing currant worms, potato bugs, cabbage worms, lice, slugs, sow bugs, etc. Also strongly impregnated with fungicides. 1-lb. carton, perforated top. Lb. 20 cts., 5 lbs. 65 cts.

**TREE TANGLEFOOT.** A perfect safeguard for trees against gipsy, brown-tail and tussock moths, canker worms, ants and all creeping things. It will remain sticky three months, fully exposed to the weather. Lb. 60 cts., 5 lbs. \$2.75, 10 lbs. \$5.25.

**TOBACCO DUST.** If dusted on while the foliage is moist, it destroys rose lice, cabbage and turnip fleas, etc. Spread upon the ground, it keeps off all earth insects, and is an excellent fertilizer. Lb. 20 cts., 100-lb. bag, \$8.

**TOBACCO STEMS.** For fumigating plants infested with green-fly, etc. Bale \$3.



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which sinks into the ground, destroying the tops and roots of all existing growth. Absolutely guaranteed. Apply it according to directions on a spot you have found troublesome; if the weeds are not killed, tell us—"No riddance, no pay." Qt. 60 cts., gal. \$1.75, 5 gals. \$6.75.

**FISH-OR WHALE-OIL SOAP.** A very effective, simple, and cheap preparation for the preservation of trees, shrubs, plants, vines, rose bushes, and garden plants in general from the ravages of insects. Lb. 30 cts., 5 lbs. \$1.40.



## SHERWIN-WILLIAMS

# INSECTICIDES AND FUNGICIDES

**A**FTER years of experience in handling spraying materials for use in this section, we have found the following Sherwin-Williams Insecticide products to be best adapted for use in meeting the particular requirements of this locality. Our customers' experience with them have borne out this endorsement.

### DRY LIME-SULFUR

Standard Lime-sulfur Solution in dry, powdered form. Has all the advantages of liquid Lime-Sulfur with none of the disadvantages. The first and original dry product. Its endorsement by various experiment stations is the result of its effectiveness under tests and in its successful use by many of the largest fruit-growers in the country. Lb. 25 cts., 5 lbs. \$1.15, 25 lbs. \$4.25, 50 lbs. \$7.



### DRY ARSENATE OF LEAD

The most widely used Arsenate of Lead on the market. Is unusually light, thus staying thoroughly in suspension during spraying operations and giving uniform strength. Has maximum killing power, quick action, and unquestionable effectiveness in controlling leaf-eating and chewing insects without danger of burning the foliage. Lb. 40 cts., 4 lbs. \$1, 25 lbs. \$6.

### FUNGI-BORDO

A true Bordeaux Mixture in dry, powdered form, requiring only to be mixed with cold water to give the standard Bordeaux Mixture spray. The convenience and value of having Bordeaux Mixture in dry form will be instantly recognized by all fruit-growers, and has proved to be one of the most popular insecticides we have offered in this locality. Lb. 30 cts., 5 lbs. \$1.35, 25 lbs. \$6.

### PESTROY

A combination of Bordeaux Mixture and Arsenate of Lead developed especially to save growers the time and trouble of making up and combining Bordeaux Mixture and the Arsenate of Lead mixture. Especially recommended for fruit trees and garden crops, and is equally as effective on potatoes. Lb. 35 cts., 5 lbs. \$1.50, 25 lbs. \$6.25.

### PINE TREE POTATO SPRAY

The ideal spray against the potato beetle when mixed with hydrated lime and water, or with Bordeaux Mixture. Contains calcium arsenite and a small percentage of copper, to give the greatest killing power without injuring the plant. An unique product inasmuch as it is a quicker acting, easier handled, more effective and cheaper poison than Paris Green and Arsenate of Lead for best control of the potato "bug."

In addition to the endorsements of large growers and experiment stations you may know when you buy these products that the Sherwin-Williams label represents the highest standard of quality. It's really "Crop Insurance."

In this section we are headquarters for Sherwin-Williams spraying materials. We have a complete stock and are prepared to take care of your requirements promptly.



Ask for Literature on Any Spraying Material. Consult the Sprayer's Guide





## Will Make Your Plants Grow to Perfection

**T**HE real secret in making plants grow to perfection lies in preparing a rich, fertile soil. Plants require a generous supply of plant-food and a loose, mellow soil to develop their real beauty. So, if you want a beautiful lawn and garden or big profitable crops, be sure to make your soil rich and fertile.

**Wizard Sheep Manure** is a highly concentrated, weedless, pure manure that makes all plants grow to perfection. It is not a stimulant but is a real soil-building plant-food, safe and dependable for every use. It supplies the necessary plant-food and humus to put new life into wornout soils. Wizard is economical—**one bag equals a whole wagon-load of stable manure**: It has a lasting, beneficial effect on the soil. Everybody—amateur or professional, can get wonderful results with Wizard.

**Lawns.** Wizard Sheep Manure produces thick, velvety green lawns of lasting beauty. Make an application early in spring and, if possible, again in fall, and you will be surprised at the new beauty it will develop. On new lawns, broadcast 10 pounds to 100 square feet and rake into the surface soil. To renew old lawns, rake well and broadcast 6 to 10 pounds per 100 square feet. Avoid weeds and rubbish by using Wizard.

**Flower-Gardens.** Luxuriant green foliage and a wealth of vivid colored flowers will result if you feed your plants with Wizard. In making new plantings, be sure the soil under the roots is made rich and fertile. Light applications during the growing season will put new life into your plants and prolong the blooming period. A handful mixed well with the soil under each new plant will insure strong, rugged growth. Broadcast 10 pounds to 100 square feet of garden soil.

**Vegetables and Fruit.** If you want a big crop of crisp tender vegetables, be sure to use Wizard. Every practical gardener knows that there is nothing better than manure to grow big crops of vegetables. Fruit crops respond quickly to this natural plant-food. It improves the yield, color, and flavor.

**Florists.** Wizard Sheep Manure has been the florists' standard of quality for twenty years. For feeding and liquid manuring it is unexcelled. Safe and dependable for all crops grown under glass or in the field. You need manure to grow plants at a profit and it pays to use Wizard.

### PRICES

2 lbs. 20 cts., 5 lbs. 40 cts., 10 lbs. 75 cts., 25 lbs. \$1, 50 lbs. \$1.75, 100 lbs. \$3

*Don't Waste Your Time and Money by Planting in Hard, Wornout Soils.  
Insure Success by Using Wizard*

**BEST FOR LAWNs, GARDENS, FRUITS, AND VEGETABLES**

**WIZARD**  
TRADE BRAND MARK  
**Sheep Manure**



Grown by the use of Darling's Potato Fertilizers

## DARLING'S FERTILIZERS

### Darling's Animal Fertilizer

Our Animal Brand is a complete fertilizer for all crops, having a strong analysis of plant-food. No mistake can be made in using this brand. Complete and well balanced, the above Fertilizer may be depended on to raise any crop on which it is used. 100-lb. bag \$3

### Potato and Root-Crop Manure

This Manure is well established with potato-growers, and for all root crops is considered one of the best-balanced fertilizers ever sold. Being composed of the very best materials, it will carry your crop to maturity without becoming exhausted. 100-lb. bag \$3.50.

### Farm Favorite

The highest-grade low-priced fertilizer on the market, and for all crops above ground will give good results. 100-lb. bag \$2.50.

### Darling's Pure Fine Bone

Contains from 20 to 25 per cent of pure phosphoric acid, and 3 to 4 per cent ammonia. Is the very best material from which phosphoric acid can be obtained. 10 lbs. 60 cts., 25 lbs. \$1.25, 100 lbs. \$4.

### Darling's Lawn Dressing

There is a call at the present time for a commercial fertilizer to be used on the lawn. Stable manure is objectionable, as it is bulky, containing a large amount of refuse material. It also contains the seeds of many weeds and obnoxious grasses that are difficult to root out when once they have gained a foothold. By the use of this fertilizer, all these objections are removed. Will produce an excellent growth of rich green grass. 10 lbs. 60 cts., 25 lbs. \$1.25, 50 lbs. \$2.25, 100 lbs. \$4.

### ACID PHOSPHATE

Guaranteed 16 Per Cent Available Phosphoric Acid

Acid Phosphate is recommended for all grain and grass crops, cowpeas, soy or soja beans, and for applying to lands deficient in phosphoric acid. Beneficial results follow the addition of Acid Phosphate to stable and barnyard manure, all manure being deficient in phosphoric acid but high in ammonia, the mixture giving a better balanced plant-food. 100-lb. bag \$3.

### NITRATE OF SODA

The most readily available form in which nitrogen can be had. Largely used for forcing vegetables, strawberries, etc., for applying to grass fields after each cutting, producing a strong, healthy growth and wonderfully increasing the yield. 25 lbs. \$1.50, 50 lbs. \$2.50, 100 lbs. \$4.50.

### MURIATE OF POTASH

A popular form of the essential potash salts. It produces a very beneficial effect when applied to hay or pasture fields at the rate of 100 to 150 pounds to the acre. All root crops, potatoes, beets, turnips, and the like require a large proportion of potash in order to develop properly. 100 lbs. \$3.40.

### SULPHATE OF AMMONIA

Is the most highly concentrated form in which this very important plant-food element is obtainable. It should therefore be used with caution and preferably mixed with other fertilizers, using not over 125 pounds of the Sulphate to the acre. 100 lbs. \$5.50.

### LAND LIME

This is shipped in the form of a fine white powder, and in 50- and 100-lb. bags. It is most convenient in this form as it is ready for immediate distribution on receipt, or will keep indefinitely when stored in a dry place; size and shape of package admit easy handling; loss of time and labor necessary to slake and sift ordinary lump lime is obviated; and the fineness removes all danger of breaking machinery of a spreader. 50-lb. bag, 75 cts., 100-lb. bag \$1.25. Price for car lots on application.

### PURE CANADA UNLEACHED HARDWOOD ASHES

Ashes lack ammonia and phosphoric acid, but contain potash and lime, which are essential, not only as plant-food, but also as sweeteners of the soil and solvents of other plant-food ingredients. So far as they supply potash and lime, they are "nature's plant-food." These things have been extracted from the soil by the trees, and now we return them in the shape of ashes. Pure wood ashes is one of the best fertilizers for top-dressing lawns, grass lands, and seeding down, imparting a rich, dark shade of green, destroying insects and weeds, particularly moss; also for fruit of all kinds, especially strawberries, peaches and apples. 100-lb. bag \$2.

### STIM-U-PLANT TABLETS

Can be used in tablet form, or dissolved in water at the rate of one tablet to the quart, or four to the gallon, which makes a liquid fertilizer of just the right strength. Order Stim-U-plant tablets with your seed and plant order. 30 cts.

**STIMUPLANT**  
Makes a  
**WONDER GARDEN**

### BOWKER'S AMMONIATED FOOD FOR FLOWERS

A dressing made expressly for plants grown in the house, garden or conservatory. Clean, odorless, and produces early and abundant blossoms of rich and brilliant color and healthy, luxuriant plants free from vermin. Pkgs. 25 and 35 cts.



### FLORANID

The most highly concentrated nitrogen fertilizer, containing 46 per cent available nitrogen (equivalent to 55½ per cent ammonia). No other fertilizing material contains anything like as high a percentage. Nitrogen is one of the principal constituents of plant-food. It is the one that is first to affect the plants, producing quick and vigorous growth. Nearly all soils are deficient in nitrogen. One level teaspoonful of the gallon of water is all that is required.

NEPONSET PAPER FLOWER POTS

Size	Doz.	100
2 1/2-inch.....	\$0 08	\$0 50
2 3/4-inch.....	10	60
3-inch.....	12	75
3 1/2-inch.....	15	1 00
4-inch.....	20	1 25
5-inch.....	25	1 75
6-inch.....	30	2 25

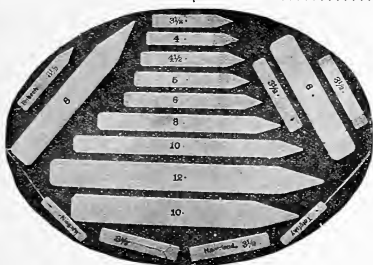
PLANT STAKES, Tapering, Painted Green

Length	Doz.	100
1 1/2 feet.....	\$0 30	\$2 00
2 feet.....	45	3 50
2 1/2 feet.....	70	4 50
3 feet.....	90	6 00
3 1/2 feet.....	1 15	8 00
4 feet.....	1 25	9 00
5 feet.....	1 75	12 00
6 feet.....	2 00	14 00

CANE STAKES

These are light, strong, and durable. They vary in length from 6 to 10 feet, and can be cut to the desired length. 35 cts. per doz., \$2.25 per 100.

Stained Green	100	100
1 1/2 feet.....	\$0 50	\$0 80
2 feet.....	65	1 00



LABELS, WOOD For Plants, Trees, etc.

Pot—	Plain	Painted
4-inch.....	\$0 15	\$1 10
4 1/2-inch.....	20	1 35
5-inch.....	25	1 60
6-inch.....	30	2 00
Garden—		
8-inch.....	60	4 00
12-inch.....	1 25	9 60
3 1/2-inch Tree Labels, copper wired.....		35 2 50

BASKETS

**Peach and Plum.** Best grade, all sizes. We supply many of the large fruit-growers and will be pleased to quote at any time in thousand or carload lots. 14-qt. size, \$8 per 100; 4-qt. size, \$7.50 per 100.

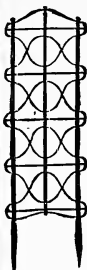
**Till Baskets.** 2-qt., \$2 per 100; 3-qt., \$2.50 per 100; 4-qt., \$2.75 per 100.

**Strawberry, Raspberry, and Huckleberry.** Standard sizes; clear stock; baskets that help sell the berries. All \$1 per 100.



Peach Basket

A full line of Baskets of every description for Farm and Store use.



GARDEN TRELLIS

**Veranda.** This is by far the most ornamental and substantial Trellis made, being especially adapted to outdoor use for high climbing shrubs and vines. Made of wood and rattan, and painted green.

Size	Each	Doz.
2 ft.....	\$1 10	\$11 00
3 ft.....	1 50	14 00
4 ft.....	1 85	18 00
5 ft. x 1 1/2 ft.....	2 50	25 00
6 ft. x 1 1/2 ft.....	3 00	30 00
7 ft. x 1 1/2 ft.....	3 50	36 00
8 ft. x 1 1/2 ft.....	4 00	40 00
9 ft. x 1 1/2 ft.....	4 50	45 00
10 ft. x 1 1/2 ft.....	5 00	50 00
11 ft. x 2 ft.....	5 50	55 00
12 ft. x 2 ft.....	6 00	60 00



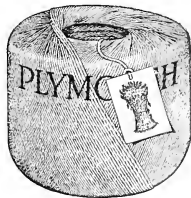
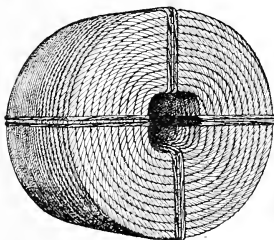
FAN TRELLIS, For Vines

Size	Each	Doz.	Size	Each	Doz.
1 1/2 ft. x 7 in.....	\$0 50	\$4 00	4 ft. x 27 in.....	\$2 25	\$22 00
2 ft. x 10 in.....	55	6 00	5 ft. x 32 in.....	2 80	27 00
2 1/2 ft. x 13 in.....	55	8 00	6 ft. x 38 in.....	3 25	32 00
3 ft. x 16 in.....	1 50	14 00	7 ft. x 42 in.....	3 70	37 00
3 1/2 ft. x 21 in.....	1 65	16 00	8 ft. x 46 in.....	4 15	42 00



FRUIT JARS AND JELLY TUMBLERS

These we handle by the carload and always sell at the lowest market price.



MANILA ROPE AND BINDER TWINE

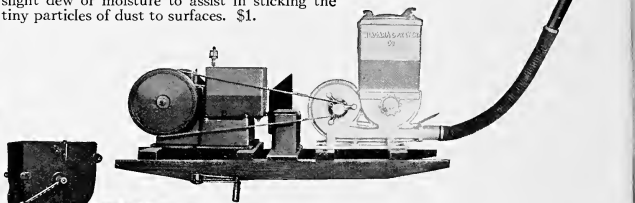
Made by the Plymouth Cordage Co., and is known all over the world for quality and durability. Always on hand at lowest market price.



**FEENY DUSTER**

A reliable hand Duster for any kind of insecticides in powder form. We recommend it for the family garden.

The ideal time for making dusting applications is early in the morning or late in the evening, when the wind conditions are quiet and when there is slight dew or moisture to assist in sticking the tiny particles of dust to surfaces. \$1.

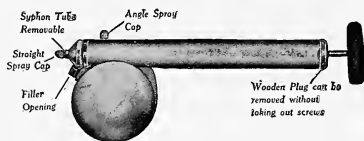


**NIAGARA HAND DUSTER**

Many growers have an acreage insufficient to warrant the purchase of a large Duster, yet some kind of an inexpensive, practical device must be procured for the application of insecticides and fungicides to growing crops in order to protect them from injurious pests. It is for these growers that the Niagara Blower Dust Gun is especially designed. \$25.

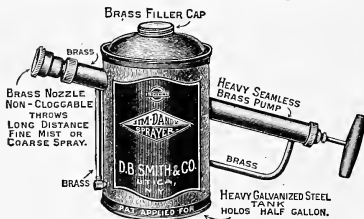
**NIAGARA ORCHARD DUSTER**

This is a light-weight orchard dusting machine adapted for small acreages of the leading orchard fruits, or for small trees. It is extremely light in weight, easily handled, and will fill a real need of small orchardists. Duster \$148, Engine \$215, Truck \$70.



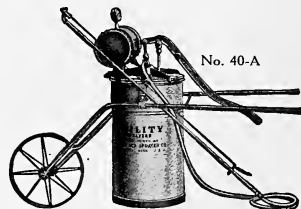
**BROWN'S CONTINUOUS SPRAYER**

Operates continuously on both the up and down stroke and throws a fine misty spray. Two spray caps—one straight, the other at an angle for reaching under leaves or spraying directly down. Construction of tank permits the Sprayer to be operated at any angle and it will not tip over when filling. \$1.50.



**JIM-DANDY SPRAYER**

Adapted for spraying garden and farm vegetables of every description, shrubbery, grape-vines, currant bushes, fruit trees, etc. Will spray rapidly, disinfectants in schools, public buildings, poultry-houses and stables; Fly Oil on cattle; Whitewash, Carbola, cold-water paints, etc. \$3.25.



**UTILITY ONE-WHEEL PORTABLE**

A very useful and convenient outfit where the nature of the work necessitates the moving about of a large amount of liquid.

Tank, 18-gallon capacity, made of heavy galvanized iron, reinforced at top and bottom with heavy iron bands. A standard Utility Pump. A 2-inch air-chamber 23 inches long, fastened to the top of tank by a spider casting removes all the liquid. Frame made of steel tubing, well braced, to insure strength and rigidity. Tank when filled hangs in a vertical position and is easily removed. Wheel 18-inch diameter by 2½-inch face. This outfit can be had, with pressure tank, as described below. Equipment: 100 feet of ½-inch, 5-ply hose; 4-foot spray-rod; No. 65 shut-off nozzle. No. 40-A, as shown above with Pressure Tank. Weight crated, 100 pounds. \$35.

**MYERS SPRAY GUN**

This Spray Gun discharges a wide spray which practically covers the tree at one shot. This broad spray is produced from the long-distance spray shown below by a slight turn of the handle. A further turn shuts off the spray entirely when you are ready to move to the next tree. \$6.



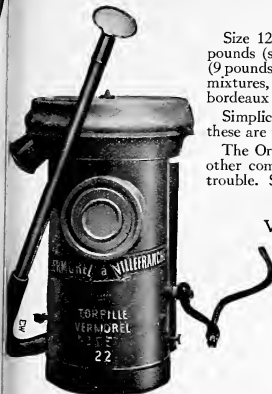
Myers Spray Gun

## VERMOREL ORANGE DUSTER

Size 12 by 16 inches. Hose and tube length 4½ feet. Weight, 11 pounds (shipping weight 17 pounds). Capacity, 6 quarts, dry measure (9 pounds sulphur flowers). For dusting sulphur or sulphur and arsenate mixtures, arsenate of lead or calcium, arsenite of zinc, paris green, bordeaux or bordeaux-lead powders, lime, etc.

Simplicity in construction, ease in operation, efficient in its work—these are the outstanding features of this wonderful model.

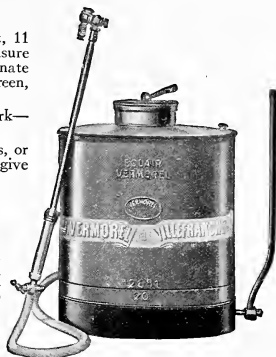
The Orange being of the bellows type has no wheels, cogs, belts, or other complicated mechanism that would be likely to wear and give trouble. Single, \$15. Double, \$20.



Vermorel Orange Duster

## VERMOREL ECLAIR NO. 1 KNAPSACK SPRAYER

Simple and compact in construction. Reliable and efficient to the highest degree. A small Spray that will do a big job, and do it right, with the least effort. No plunger; no complicated mechanism. Makes spraying a pleasure instead of a drudgery. \$20.



Vermorel Knapsack Sprayer

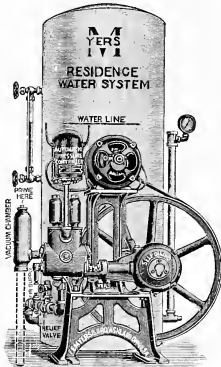
## MYERS ELECTRIC HOUSE PUMP (PATENTED)

This Pump is self-oiling, motor-driven, automatically controlled, economical, and efficient. It is designed for operation from any kind of city current or from farm lighting and power systems.

Can be used in cisterns or shallow wells up to 22 feet in depth and is 90 per cent efficient. Has oil-level overflow. Capacity 180 gallons per hour. Suction and discharge, ¾-inch.

Of all the methods of obtaining water for the home, this one requires the least attention and is economical and highly satisfactory.

Convenient, quiet, safe, sure, it is easily installed and will furnish an abundant water-supply for any home. No. 606.—A. T. \$92.

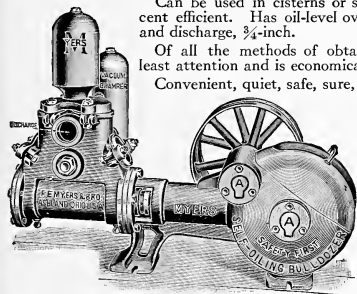


Myers Electric House Pump

## BULLDOZER PUMP

The Myers Self-oiling Bulldozer Pump as made in the largest size, for general service such as supplying water in large quantities for irrigation, mills, factories, railway tanks, stations, villages, etc., against a pressure of 100 pounds or an elevation of 230 feet.

The power end consists of a one-piece casting which forms the base of the Pump and oil-reservoir, and in connection with a lid encloses all working parts, protecting them from dirt or injury, and securing safety of operation. This



Bulldozer Pump

casting is completely machined at one setting for all bearings, the crosshead, cylinder head and shaft bearings, insuring alignment of all working parts. The pinion and gear are mounted between double bearings A—these bearings are renewable. Ask for price.

## MARCH AUTOMATIC RAINMAKER

Sprinkles rectangles, not circles. Covers large areas rapidly without overlapping, and is quickly adjusted to water small spaces.

Sprinkles along edge of walks or drives without wetting them.

Ordinary water-pressure from lawn hose turns the pipe-line of nozzles as an axis, throwing the streams of water from one side over to the other with a constant steady swing.

Thousands in use on city lawns, large estates, golf courses, cemeteries, and parks.

Made in four sizes—Watering from 1,200 to 3,000 square feet at a setting.

Write for prices and literature.



March Automatic Rainmaker

We deliver without extra charge anywhere within the city limits. Orders by mail or telephone receive the same attention as a personal order



No. 22 Banner Compressed Air Sprayer



The Auto-Spray

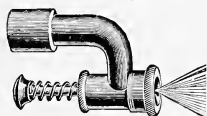
**NO. 22 BANNER COMPRESSED AIR SPRAYER**

This Sprayer is adapted for all spraying purposes. It cannot be excelled for spraying garden vegetables, plants, shrubbery, trees, flower-beds, whitewashing, and disinfecting poultry-houses, stables, cellars. In fact, will spray anything in liquid form and is easily operated by man or boy. Full directions and spraying calender with each Sprayer. Galvanized \$6. Brass \$9.

**THE AUTO-SPRAY**

A few strokes of plunger in air-chamber will compress enough air to discharge the entire contents and make a continuous spray for nine minutes. This means that the "Auto-Spray" can be charged in fifteen seconds, when it will work uninterruptedly long enough to spray a quarter acre of potatoes. The spray can be made to flow fast or slow by merely turning the cock of the nozzle, and it will throw either a cloud-like shower or a solid stream.

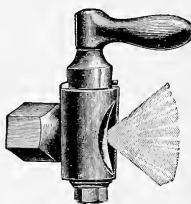
- No. 1B. Auto-Pop, Brass.....\$9 00
- No. 1D. Auto-Pop, Galvanized..... 7 00



Vermorel Nozzle



Boston Graduating Nozzle



Bordeaux Nozzle

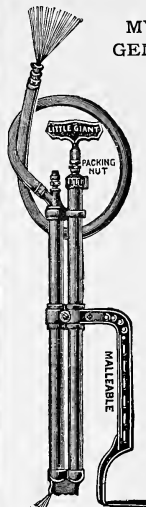
**HOSE NOZZLES**

**Bordeaux Nozzle.** The simplest and best combination spraying Nozzle on the market. It throws a solid stream or a fan-shaped spray, adjustable to any fineness; is readily degorged by turning the cock handle. It will also throw a long-distance coarser spray for spraying very large trees; or it may be shut off altogether—features possessed by no other spray Nozzle. For 1/4-in. pipe. \$1.

**Vermorel Nozzle.** Very simple in construction and throws a finer spray than any nozzle in use. For 1/4-in. pipe. 80 cts.

**Rain King.** \$1.50.

**Boston Graduating.** Throws solid stream or spray. For 3/4-in. hose. 75 cts.



Bucket Spray Pump

**MYERS WHITEWASH AND GENERAL-PURPOSE SPRAYER**

The tank is made of heavy galvanized iron with a wide bottom so as to sit steady in operation; has both jet and dasher agitators; holds 7 gallons. \$13.50.



General-Purpose Sprayer

**MYERS BUCKET SPRAY PUMP WITH AGITATOR**

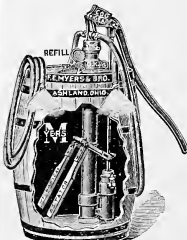
This Spray Pump is constructed entirely of brass, a material that is not affected by the poisonous arsenites used in different formulas for spraying fruit trees, vines and shrubbery. \$4.30.

**MYERS DOUBLE-ACTING COG-GEAR COMPLETE SPRAY PUMP OUTFIT R-316B**

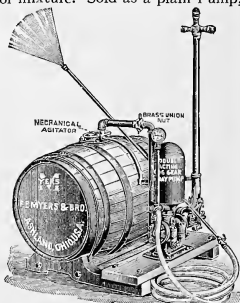
Mounted on skids with 50-gallon barrel, with pressure gage, one 15-foot lead of 3/4-inch 7-ply discharge hose, one Fembro nozzle, one 8-foot pipe extension with lever shut-off, and mechanical agitator. Cog-gear movement, increased leverage adapted for spraying under heavy pressure. Capacity sufficient for eight nozzles, adapted for spraying potatoes. \$54.

**MYERS O. K. COG-GEAR SPRAY PUMP R-308**

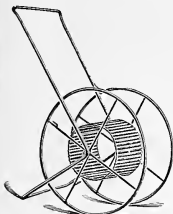
For hot, cold, or any kind of mixture. Sold as a plain Pump, if desired, with one or two lengths of hose. Plain Pump. \$21.50.



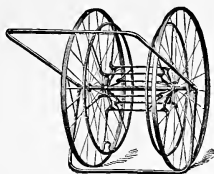
Myers O. K. Spray Pump



Myers Double-Acting Spray Outfit



Steel Hose Reel



Park Hose Reel

**HOSE REELS**

**Park No. 30.** A tubular iron reel and frame, on steel wheels. For parks, lawns, and greenhouses. \$7.50.

**Nos. 10 and 20 Steel Hose Reels.** These are practically the same except in size. \$4 and \$4.50.



Garden Hose

**GARDEN HOSE**  
A full line; best grades. Prices from 13 cts. to 20 cts. per foot. Guarantee with most of them.



Champion Well Curb

**CHAMPION WELL CURB**

Wood Pump

Much used in the suburbs and country villages as the best method for drawing water from wells. Curb, complete, including rope, chain and bucket. \$20.



Chain Pump

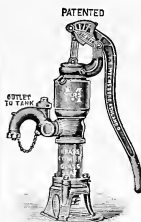
**WOOD PUMPS**

Porcelain-Lined

6 feet long.....	\$8 50	10 ft. long..	\$11 50
7 feet long.....	9 25	Pipes, per ft.	30
8 feet long.....	10 00	Couplings...	90

**RUBBER-BUCKET CHAIN PUMP**

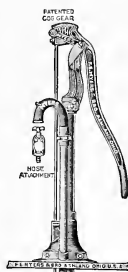
Complete for 10-foot well, \$7.50. Curb, \$4.25; chain, (3 ft. to lb.) 15 cts. per lb.; wood tubing, 15 cts. per ft.; rubber buckets, 10 cts. each.



House Force and Lift Pump



Myers Pump No. 8



Myers Pump No. 5



Myers Cog-Gear Pitcher Pump

**MYERS PUMPS**

Anti-Freezing Force

**No. 8.** For wells under 25 feet. Has a 3 1/2-inch brass-lined cylinder, 4 feet below the platform, fitted with expansion plunger bucket and patent glass valve-seat, tapped for 1 1/2-inch suction pipe. \$16.

**No. 5.** For wells from 25 to 70 feet deep. Capacity, 440 gallons per hour. Has a 3-inch brass-lined lower cylinder, with latest improved glass valve-seat and plunger, capped outside, tapped for 1 1/4-inch pipe. \$17.

**SINGLE-ACTION, ADJUSTABLE BASE**

Has a 3-inch brass-lined cylinder, with glass seat; tapped for 1 1/4-inch pipe. \$11.50.

Has a 3 1/2-inch brass-lined cylinder, with glass seat; tapped for 1 1/2-inch pipe. \$13.

**RATCHET-HANDLE FORCE**

**No. R1072.** Capacity, 440 gallons per hour. Has a 3-inch brass-lined cylinder, with glass seat; tapped for 1 1/4-inch pipe. \$13.

**HOUSE FORCE AND LIFT**

**No. R251.** Has brass upper and 3-inch brass lower cylinder, with patent glass valve-seat; tapped for 1 1/4-inch suction pipe. \$9.

**No. R253.** Has brass upper and 3 1/2-inch brass lower cylinder, with patent glass valve-seat; tapped for 1 1/2-inch suction pipe. \$10.50.

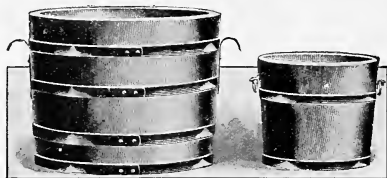
**THE MYERS COG-GEAR PITCHER PUMP**

Fitted with Brass Valve-Seat

**No. R416.** Has 3-inch polished cylinder; tapped for 1 1/4-inch pipe. \$4.25.

**No. R418.** Has 3 1/2-inch polished cylinder; tapped for 1 1/2-inch pipe. \$5.25.

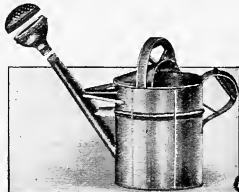
**Nelson.** 1 1/4-in. pitcher. \$2.25.



**CEDAR PLANT TUBS**

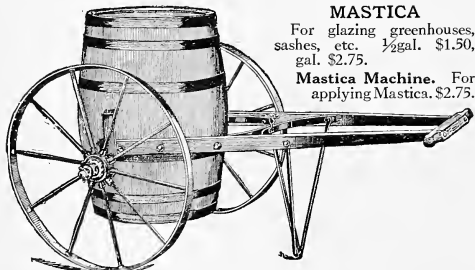
Painted green; strongest and most durable Plant Tub made.

Diam.	Top outside	Height outside	Each
No. 1	28 inches	22 inches	\$13 20
No. 2	26 inches	20 inches	11 00
No. 3	24 inches	18½ inches	6 90
No. 4	22 inches	17 inches	5 60
No. 5	20 inches	16 inches	4 70
No. 6	18½ inches	14 inches	3 75
No. 7	16½ inches	14 inches	3 25
No. 8	15½ inches	13 inches	2 75



**WATERING POTS**

Central Galvanized.			
4-quart	\$0 65	10-quart	\$0 90
6-quart	75	12-quart	1 00
8-quart	85	16-quart	1 25
Dover.			
6-quart	1 00	10-quart	1 25
8-quart	1 15	12-quart	1 35
Parlor. 1-quart 35 cts., 2-quart 45 cts.			
English style for Greenhouses.			
6-quart			3 50
8-quart			3 75
10-quart			4 00
12-quart			4 50
Long Spout, Painted.			
2-quart			1 00



Water Barrel and Truck. \$16

**MASTICA**

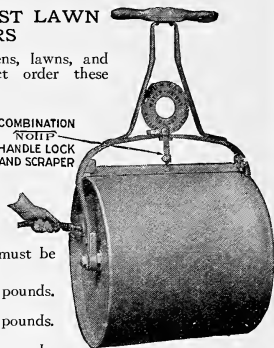
For glazing greenhouses, sashes, etc. ½gal. \$1.50, gal. \$2.75.

Mastica Machine. For applying Mastica. \$2.75.

**WATER-BALLAST LAWN ROLLERS**

For keeping golf-greens, lawns, and tennis-courts in perfect order these Rollers are invaluable. When the ground is soft they may be used empty, and in dry weather, when all others are useless, they can be filled with water and worked effectually. The advantage of having in one Roller either a heavy or light implement at pleasure must be obvious to everyone.

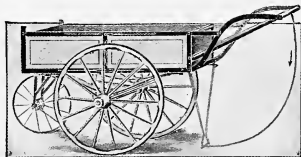
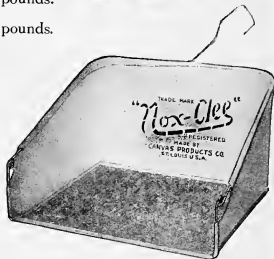
COMBINATION  
NOTIF  
HANDLE LOCK  
AND SCRAPER



- No. 601. Weight 250 pounds. \$14.00.
- No. 602. Weight 330 pounds. \$17.00.
- No. 603. Weight 440 pounds. \$20.00.
- No. 604. Weight 590 pounds. \$22.00.

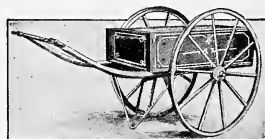
**GRASS CATCHER**

For all sizes Lawn Mowers; from 85 cts. to \$1.50.



**THREE-WHEEL HAND CART (with springs)**

Body 40 inches long, 25 inches wide, 7 inches deep, outside measurements. \$20.



**TWO-WHEEL HAND CART (without springs)**

Body 40 inches long, 25 inches wide, 7 inches deep, outside measurements. \$16.



**SHEARS**

Hedge, Border, Pruning, and Grass



French



No. 104



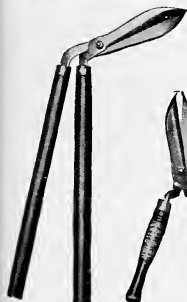
Wood Handle



Sheep

**Hand Pruning Shears**

- Booker No. 7328. \$1.
- Booker No. 104. \$1.25.
- Booker No. 103. \$1.75.
- Wood Handle. \$1.75 to \$3.50.
- McKenny. \$3.50 and \$4.50.
- French. \$2 to \$2.75.
- Sheep. 50 cts. to \$1.



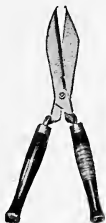
Border Shears



Hedge Shears 100



Lee's



Hedge Shears 101

**Hedge Shears**

- No. 101. 7-in., \$1.75; 8-in., \$2; 9-in., \$2.15; 10-in., \$2.25.
- No. 100. 7-in., \$1.75; 8-in., \$2; 9-in., \$2.10; 10-in. \$2.25.

**Border Shears (with wheel)**

9-in., \$4.25.

**Long-Handled Pruning Shears**

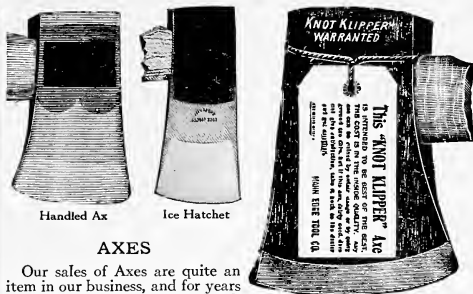
- Lee's. 6-ft., \$1.25; 8-ft., \$1.50; 10-ft., \$1.75; 12-ft., \$1.85; 14-ft., \$2; 16-ft., \$2.25.



Pruning Saws

**SAWS**

- Cross-Cut, Two-Man, Simonds'. Filed and set ready for use. 5-ft., \$6; 5½-ft., \$6.50. Handles, 50 cts. per pair.
- Cross-Cut, One-Man, Simonds'. With supplementary handles. 3-ft., \$2.75; 3½-ft., \$3.25; 4-ft., \$3.75.
- Pruning. 18-in., \$1; 20-in., \$1.25; 22-in., \$1.75; 18-in., for pole, \$1.75.

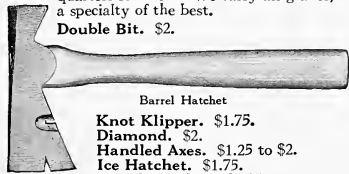


Handled Ax

Ice Hatchet

**AXES**

Our sales of Axes are quite an item in our business, and for years we have been known as headquarters for them. We carry all grades, but make a specialty of the best.



Barrel Hatchet

- Knot Klipper. \$1.75.
- Diamond. \$2.
- Handled Axes. \$1.25 to \$2.
- Ice Hatchet. \$1.75.
- Barrel Hatchet. \$1.25.



**PICKAXES**

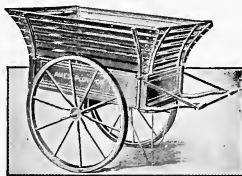
- Railroad, Double-point. \$1.
- Railroad, Flat One End. 75 cts.
- Contractors', Double-point. \$1.



Grub or Bog Hoe

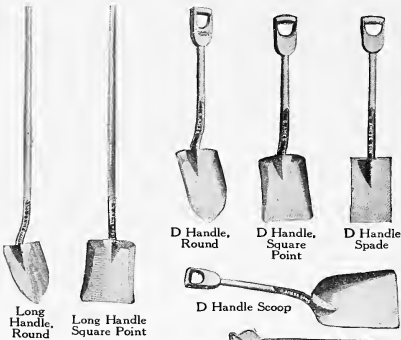
**MATTOCKS**

- Long Cutter. \$1.
- Pick, One End. \$1.
- Grub or Bog Hoe. 75 cts. to \$1.25.



**HAND CART**

Lawn with removable rack. Body 41 x 25 inches, 16 inches high; tires 2½ inches. \$11.50 to \$30.



Long Handle Round  
Long Handle Square Point

D Handle Round  
D Handle Square Point  
D Handle Spade



D Handle Scoop



Garden Rake



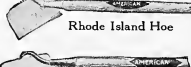
Meadow Hoe



Onion Hoe



Clam Digger



Rhode Island Hoe



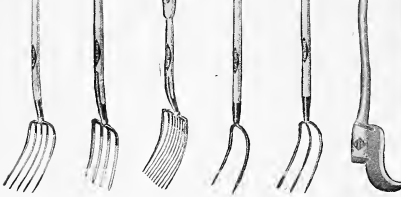
Corn Hoe



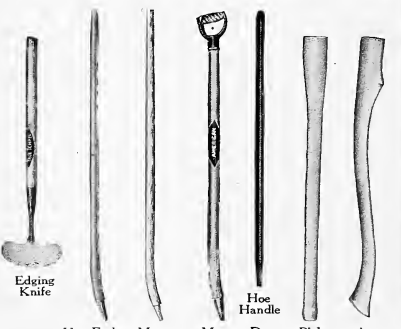
Street Hoe



Potato Digger



Manure Fork  
Spading Fork  
Coke Fork  
2-tine Hay  
3-tine Hay  
Bush Hook



Edging Knife  
Hay Fork Handle  
Manure Fork Handle  
Manure D Handle  
Hoe Handle  
Pick Handle  
Axe Handle

# STEEL GOODS

Our department in this line is one of the largest in New England and embraces a much larger variety than shown in this catalogue. We are jobbers as well as retailers, and you can depend on quality as well as reasonable prices.

## SHOVELS

<b>Long Handle, Round Point.</b> Each	<b>D Handle Spade.</b> Each
Ames . . . . . \$1 75	Ames . . . . . \$1 75
What Cheer . . . . . 1 40	What Cheer . . . . . 1 40
Bissell . . . . . 1 30	Bissell . . . . . 1 30
<b>Long Handle, Square Point.</b>	<b>D Handle Scoops.</b>
Ames . . . . . 1 75	Ames, No. 2 . . . . . 1 75
What Cheer . . . . . 1 40	No. 3 . . . . . 1 80
Bissell . . . . . 1 30	No. 4 . . . . . 1 85
<b>D Handle, Round Point.</b>	No. 5 . . . . . 1 95
Ames . . . . . 1 75	No. 6 . . . . . 2 00
What Cheer . . . . . 1 40	No. 7 . . . . . 2 10
Bissell . . . . . 1 30	Sanderson's, No. 2 . . . . . 1 55
<b>D Handle, Square Point.</b>	No. 3 . . . . . 1 60
Ames . . . . . 1 75	No. 4 . . . . . 1 70
What Cheer . . . . . 1 40	No. 5 . . . . . 1 75
Bissell . . . . . 1 30	No. 6 . . . . . 1 80
	No. 7 . . . . . 1 85

## GARDEN RAKES

10-tooth, 85 cts.; 12-tooth, 90 cts.; 14-tooth, 95 cts.; 16-tooth, \$1; 18-tooth, \$1.10.

## HOES

<b>Rhode Island Pattern.</b> All sizes. \$1.10 each.	<b>Onion.</b> \$1.
<b>Meadow Pattern.</b> All sizes. \$1.10 each.	<b>Stable, \$1.25; Street, \$1.25.</b>
<b>Corn.</b> \$1.	<b>Clam Digger. R. I. Pattern.</b> \$1.50.
	<b>Potato Digger. 6-tine, \$1.25.</b>

## FORKS

<b>Manure, D Handle.</b> 4-tine, \$1.35; 5-tine, \$1.60; 6-tine, \$1.80.	<b>Coke, D Handle.</b> \$2.35 to \$3.75.
<b>Spading, D Handle.</b> Diamond Back. \$1.75.	<b>Hay, 2-tine.</b> 90 cts. to \$1.10.
	<b>Hay, 3-tine.</b> \$1 to \$1.35.
	<b>Bush Hook, Collin's.</b> \$1.50.
	<b>Edging Knife.</b> \$1.25.

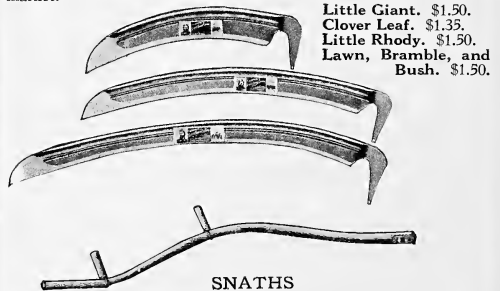
## HANDLES

<b>Hay Fork.</b> 20 cts. to \$1.	<b>Hoe.</b> 35 cts.
<b>Manure Fork, Long.</b> 50 cts.	<b>Pick.</b> Oak and walnut. 50 to 75c.
<b>Manure Fork, D Handle.</b> 50 to 75 cts.	<b>Axe.</b> Many styles. 50 to 75 cts.

Also a full line of other Handles that go with our business

## SCYTHES

We have a reputation for selling the best grade of Scythes on the market.



Little Giant. \$1.50.  
Clover Leaf. \$1.35.  
Little Rhody. \$1.50.  
Lawn, Bramble, and Bush. \$1.50.

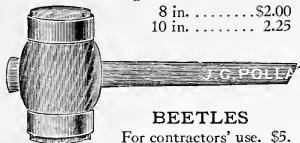
## SNATHS

<b>The celebrated swing-socket.</b>
<b>Grass, Ash.</b> \$1.25.
<b>Bush, Ash.</b> \$1.50.

**TAMPING BAR**

Made different weights and sizes.

8 in. ....\$2.00  
10 in. .... 2.25



**BETLES**

For contractors' use. \$5.

**LOCK-LEVER POST-HOLE DIGGER**

Enjoys a reputation unequalled by any other Digger on the market, because of its lightness, ease of manipulation, simplicity and solidity of construction, best material, workmanship and finish. Any boy can operate this Digger. The increasing demand for the Lock-Lever Digger and the letters of commendation received, are proof that our statement is correct. \$2



Post Hole Digger



Tamping Bar

**YAMADE CO.**

**WHITE PLAINS**

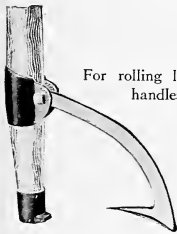


**LAWN BROOMS**

Price \$1

**CANT-HOOK**

For rolling logs and poles. With 3- or 3½-foot handles. \$2.50.

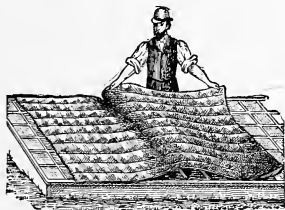


Cant-Hook



**GRASS HOOKS**

Price, 50 cts. to 75 cts.



**LEVINES HOTBED MATS**

Wool-filled, Frostproof, Indestructible, Cheap, Warm

Made expressly for winter covering of hotbeds, coldframes, plants, and seeds of all kinds. Will not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have been in practical use for years. Cost less than old-fashioned straw mats, entirely take their place. 76 x 84 in., \$3.50.



**ACME SPRAYER**

This Sprayer is adapted for all kinds of insect-killing and spraying purposes. It is a great saving of labor, and also a great saving of liquids, as the spray is as fine as mist and adheres to the plant. Used by stock-raisers for keeping flies from cattle and horses during the summer months. 50 cts.



**WOODASON BELLOWES**

These are the best-made Bellows; will last a long time and are very strong and durable. \$2.50.

**WEEDERS**



Excelsior Hand



Haseltine's Hand



Noyes Hand



Magic Weeder

**Excelsior Hand Weeder.** 15 cts.

**Noyes Hand Weeder.** 35 cts.

**Haseltine's Hand Hoe.** 35 cts.

**Magic Weeder and Hoe.** The best garden tool on the market. It does the work with half the labor, saving both time and strength. 50 cts.

**NORCROSS HAND GARDEN CULTIVATOR**

Its work equals that of the highest-priced wheel plow on the market. With its low price, it sells to those who have but a small home-garden. It is made of first-class material, the shovels forged from steel prongs. It can be entirely taken apart, every part being detachable. Three sizes, 40 cts., 75 cts., and \$1.

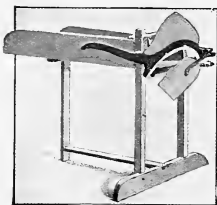


**HOOVER LAWN RAKE**

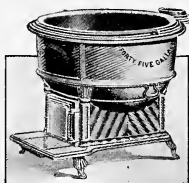
Made from flexible steel spring wire, the teeth will fit into any irregularities on the surface of the ground, taking all leaves with them, or dirt, dead grass, or refuse, without injury to the grass.

The head of the Rake makes a clean sweep 20 inches wide, with a motion similar to that used in sweeping. \$1.

Gardeners who have used this Rake all speak a good word for it.



Lever Hay Cutter



Peckham Caldron

**PECKHAM CALDRONS**

An indispensable article on every farm. Made in six sizes. **Furnace and Caldron complete. (For wood).** 15-gal., \$40; 22-gal., \$50; 30-gal., \$60; 45-gal., \$70; 60-gal., \$80; 90-gal., \$140. Fixtures for coal extra.

**LEVER HAY CUTTERS**

Adjustable arm to take up wear.

No. 2. New York ..... Each \$6 00  
 No. 5. New York ..... 8 75



New England Root Cutter



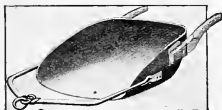
Banner Root Cutter

**NEW ENGLAND ROOT CUTTER**

Very popular; cuts in irregular, small pieces, a good size for cattle to eat. \$10.50.

**BANNER ROOT CUTTER**

No. 20, \$15; No. 25, \$13.50; No. 7, \$6.30; No. 31, \$13.50. No. 31. Made entirely of iron and steel. A positive feed—it must cut the roots; they can't get away from the knives. \$13.50.



**STEEL ROAD SCRAPERS**

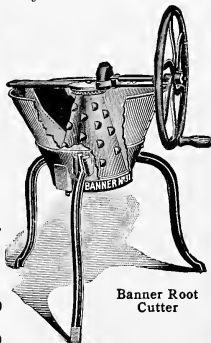
With Runners

No. 0, \$20; No. 1, \$9; No. 2, \$8.50; No. 3, \$8.

**CORN SHELLERS**

Rover..... \$15 00

I. H. Co., Power, with separator..... 35 00



Banner Root Cutter

**WHEELBARROWS**



Garden Wheelbarrow

**GARDEN WHEELBARROWS**

A good strong Barrow for everyday use.

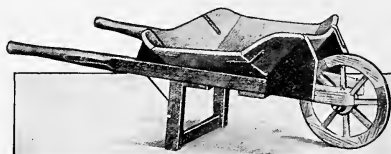
No. 64..... \$7 00  
 No. 65..... 7 50  
 No. 66..... 8 50  
 Boy's..... \$4 and 6 00



Steel-Tray Barrow

**STEEL-TRAY BARROWS**

No. 75A, Syracuse..... \$7 50  
 No. M-3..... 6 00  
 No. M-4..... 6 50  
 T-6..... 7 00  
 Rex..... 4 00



Wood Canal Barrow

**WOOD CANAL BARROWS**

Much used by contractors and for rough work. With steel wheel, \$3.50.

**ALL-STEEL TUBULAR BARROWS**

For very heavy work. Ask for price.



Stone Boat

**STONE BOAT**

Well made of seasoned oak, with iron head. 1-horse-size, \$9.50; 2-horse-size, \$10. Steel Head, 34-in., \$5.25.

**NEW SHARPLES  
SUCTION FEED CREAM  
SEPARATOR**

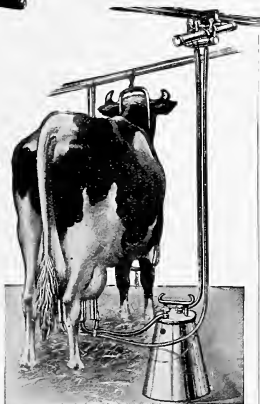
All Sharples Cream Separators are guaranteed to be as represented. They will be sold subject to the warrant of their superiority in every feature. If interested send for descriptive catalogue and prices.



Sharples Cream Separator

**THE SHARPLES  
UPWARD  
SQUEEZE MILKER**

The nightmare of the dairyman has been to get and keep good, reliable, cleanly, efficient milkers who would stay right on the job twice a day, 365 days a year. The Sharples Milker solves the problem. Send for descriptive catalogue and prices.



Sharples Milker

**DE LAVAL CREAM SEPARATOR**

The De Laval Cream Separator constitutes the best-known means, in the light of science and the world's experience, for separating cream from milk.

Briefly stated, the process of centrifugal separation consists in passing the milk through a mechanically operated and rapidly revolved steel bowl, the inflow and discharge being continuous and the separation practically instantaneous—with all of the advantages and none of the disadvantages of gravity setting or other skimming of milk. No. 7 (capacity 200 lbs.), \$60; No. 8 (capacity 225 lbs.), \$75; No. 10 (capacity 350 lbs.), \$85; No. 12 (capacity 500 lbs.), \$95. Larger



sizes for creamery and factory.

**MILK PAILS**

(Not shown.) 75 cts. to \$4 each.

**MILK CANS**

(Not shown.) Standard 10-qt. size. Market price.

**DAZEY CHURN**

Dazey Churn. Most sanitary Churn on the market. Extra-heavy glass jar, nickel-plated top. No. 300, \$5.50; No. 20, \$1.50; No. 40, \$2.25.



Varnished Cylinder Churn



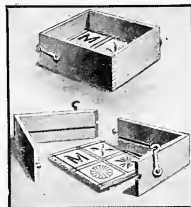
**VARNISHED CYLINDER  
CHURN**

Varnished Cylinder Churn. No. 0, \$3.25; No. 1, \$3.50; No. 2, \$4; No. 3, \$4.50.



**CHAMPION MILK COOLER**

It is a perfect aerator, removing all flavors arising from excessive cabbage, turnip, or silo rations. No. 2, \$9; No. 3, \$10.80; No. 4, \$13.50.



**NEW ENGLAND BUTTER MOLD**

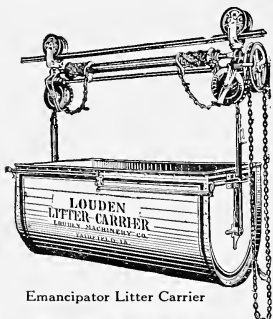
1-lb. size, 90 cts.; ½-lb. size, 75 cts. Ayers. 1-lb. size, \$1.50.

**MOUNTED GRINDSTONE**

Iron Frame, heavy . . . . .	\$39 00
Wood Frame, 24 inches . . . . .	22 50
Wood Frame, 26 inches . . . . .	25 00
Wood Frame, 28 inches . . . . .	27 75
Red Frame, Iron Legs . . . . .	16 00
Bicycle . . . . .	11 00

# LOUDEN

## EMANCIPATOR LITTER CARRIER



Emancipator Litter Carrier

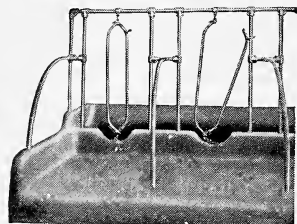
Takes out the equal of five wheelbarrow loads of manure at a single trip—takes it clean without spilling or dripping—carries it clear away from the door—dumps the entire load into manure-pit or manure-spreader. It will save you more hard, disagreeable work than any implement about the place. The 10-bushel tub is let down close to the floor where even a 12-year-old boy can shovel the manure quickly and easily into it. He gives the carrier a little shove as he goes without putting the shovel aside. The big tub is loaded almost as quickly as a wheelbarrow carrying only a fifth as much. The same heavy double-bead track is used with the Litter Carrier that has been used for many years in connection with Louden Hay Carriers.



Double-Bead Steel Track

## LOUDEN STEEL STALLS AND STANCHIONS

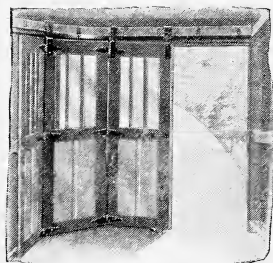
Milk and misery don't go together. The Louden Swinging Tubular Steel Stanchion gives the cow pasture-comfort. In a Louden Stanchion she can turn around to card herself—she can lie down with her head tucked against the side of her body, just as she sleeps out in a June pasture. Farmers who have used them say that cows will pay for the complete steel stalls and stanchions in two years out of the extra production the pasture-comfort makes possible.



Steel Stall

## LOUDEN DETACHABLE WATER-BOWLS

Give the cows a fresh drink any time day or night when they want it, and as much as they want. A cow must drink  $4\frac{1}{2}$  gallons of water for every gallon of milk she produces. The winter slump in milk production is in large measure due to the cows not getting enough water to drink. Louden Water-Bowls also do away with that disagreeable chore of having to turn the cows out to water once or twice a day no matter how disagreeable the weather may be. A Massachusetts dairyman got a 40 per cent increase in milk production last January, February, and March after installing the Louden Water-Bowls. You can add \$3 a month to your milk-check for each cow milked during the winter, by simply installing Louden Water-Bowls.

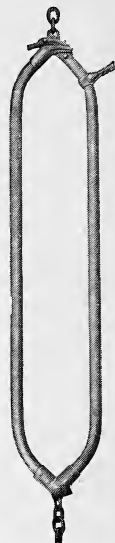


Louden Garage Door Hanger

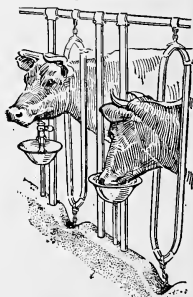
## LOUDEN GARAGE DOOR HANGER

Absolutely the handiest and most economical Garage Door Hanger made. Door slides around corner on inside, taking up very little room. First section of door forms a foot door. Outfits are complete with track, roller-bearing trolleys, hinges, stay rollers, screws, and nails. Made for 6-, 8-, 10-, or 12-foot doors. Anyone can install it.

The Louden representative will be pleased to call on you, and give figures for the Louden Line



Louden Tubular Steel Stanchion



Detachable Water-Bowls

## BUCKLEY'S PATENT WATERING DEVICE FOR WATERING STOCK IN STABLE

Water in the Stable is a Necessity

It has come to be regarded as a matter of necessity for the proper care of stock, while in the stable, that they should have constant access to water of suitable temperature. The Buckley process shows the most practical method of having it. **Complete, \$3.**



Buckley's Watering Device

## CRUMB'S CHAIN HANGING WOOD STANCHION

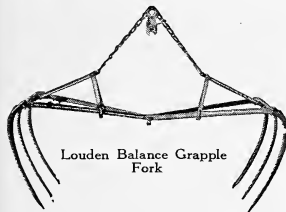
(Not shown)

This device is made from thoroughly seasoned hard wood, framed and bolted together in the most substantial manner. At its opposite ends chains are attached by which it is suspended from the top beam of the stall-frame, and secured thereto by a chain of sufficient length to allow it a free and easy motion in all directions. Sole agents for Rhode Island. **\$2.50.**

## Louden Hay Tools Get the Hay in While the Sun Shines

### LOUDEN SENIOR HAY CARRIER

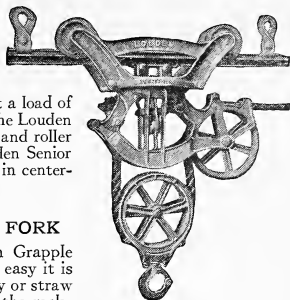
The Louden Senior Hay Carrier is a sturdy, dependable carrier built to safely lift a load of 1,500 pounds—a good deal more than would ever stick to even such a greedy fork as the Louden Balance Grapple shown below. The rope wheel and pulley are 7 inches in diameter and roller bearing. This makes the draft easier and gives longer wear to the rope. The Louden Senior Carrier is reversible so that it can be used in center-drive or end-hoist barns.



Louden Balance Grapple Fork

### LOUDEN BALANCE GRAPPLE FORK

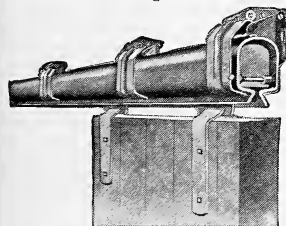
Unless you have actually used a Louden Grapple Fork, it will be hard to convince you of how easy it is to set, what enormous loads of all kinds of hay or straw it takes up, how clean it takes the hay off the rack, how little it spills. No special care is required in loading the hay—the Balance Grapple Fork clinches its wide-spread steel tines about a big load of hay and mows it away. The fork comes down open, a 12-year-old boy can guide it to the next "bite" as it comes down, then a step on each end to ram it into the load—a snap of the latch, and you are all ready for another pull.



Louden Senior Hay Carrier

### LOUDEN SINGLE DRUM POWER HOIST

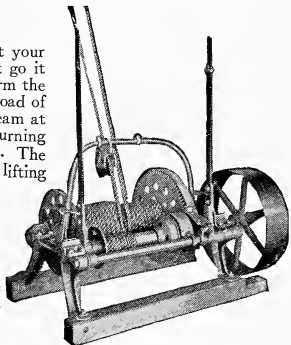
Belt it up with your tractor or any engine of 4 horse-power or more, and start your engine. Nothing happens at the hoist until you pull a lever—the moment you let go it springs into neutral—you can't forget to make it safe. Hard maple conical blocks form the clutch. Pull the main lever and your clutch takes hold gradually but surely. Your load of hay goes up as fast as a team could take it—the hoist takes the place of an extra team at haying-time. To return, work the other lever—it is much quicker and easier than turning a horse or team around and wasting your strength pulling the carrier back by hand. The hoist, besides taking the place of a team at harvest-time, is mighty handy for heavy lifting of all kinds. The big brake holds the load securely at any point desired.



Bird-Proof Barn-Door Hanger

### LOUDEN BIRD-PROOF BARN DOOR HANGERS

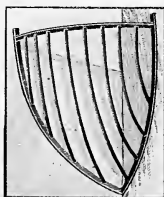
Note the straight sides and flared-out lips of the Bird-proof Barn Door Track at the left. They give this track a strength and durability not usually found in closed tracks. Note also that the track is flexibly hung from big sturdy brackets. This flexible hanging permits the door to climb ice or trash without damaging the track or hangers. In fact the door could be swung outward and upward until it stood upside down on the track without any damage to the door, trolleys, or track. There are four roller-bearing wheels for each door, making even the heaviest door roll remarkably easy.



Louden Single Drum Power Hoist



Ratchet Jack



Corner Hay Rack

### CORNER HAY-RACK

Will not waste hay. \$2.50.

### CORNER FEED-TROUGH

Best cast-iron. \$2.50.

### OX-YOKES

Made of best seasoned stock. Complete with bows, No. 4, \$14; No. 5, \$16; No. 8, \$17.



Ox-Yoke



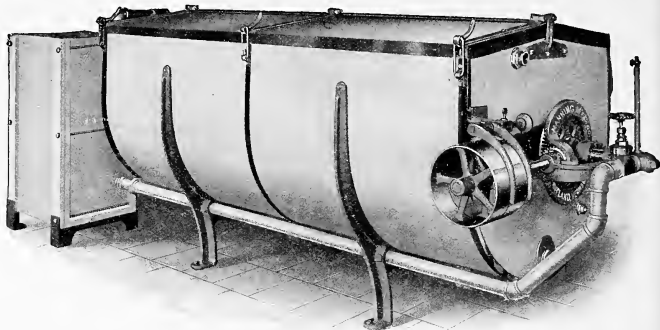
Corner Feed Trough

### PRATT'S RATCHET JACK

Best Jack made for heavy work. No. 7, \$5.75; No. 5, \$3.50.

**MANNING PASTEURIZER**

The Manning Pasteurizer is a complete unit, heater, holder, and cooler, in one machine. It heats quickly to 140 or 145 degrees, with a minimum amount of steam, holds absolute temperatures for 30 minutes, and cools to 40 degrees in the shortest time with the smallest amount of ice or salt. It saves valuable floor-space, does not waste milk, like long-flow outfits, and because of direct application, perfect insulation, and superior construction, needs less heating and cooling mediums. The low first cost, economical up-keep, and great efficiency of the method of pasteurization.



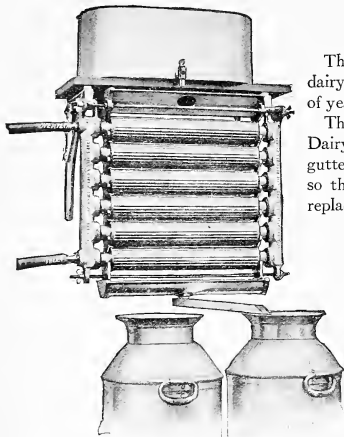
Manning makes the batch system by far the safest, most sanitary, and the least costly

ASK FOR DESCRIPTIVE CATALOGUE AND PRICE

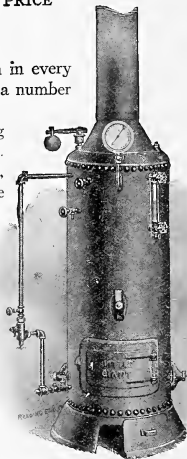
**MANNING DAIRY COOLERS**

The Manning Dairy Cooler is favorably known in every dairy section of the world, as it has been sold for a number of years.

The unique unit construction of the Manning Dairy Cooler puts it in a class by itself. The tubs, gutters, manifolds, in fact, all parts, are removable, so that in case of necessity any worn part may be replaced. All parts are interchangeable.

**FULL-LENGTH TUBE VERTICAL BOILER**

This type of Boiler is especially desirable where space is limited. Being easily handled and a quick steamer, it is very popular and it is extensively used in creameries and milk plants.

**THATCHER MILK BOTTLES**

These superior quality Milk Bottles are made to stand the rough handling of every-day usage. Made of best flint glass and annealed in specially designed lehrs, insuring maximum strength. 1-qt., \$1 per doz., \$5 per 1/2 gross, \$9 per gross. 1-pt., 75 cts. per doz., \$4 per 1/2 gross, \$7 per gross; 1/2-pt., 55 cts. per doz., \$3 per 1/2 gross, \$5 per gross.

**PIQUALITY MILK BOTTLE CAPS**

"Piquality" means that nothing but the best of materials are used in the manufacture of Piquality Caps. 50 cts. per 1,000, \$2.10 for 5,000, \$18 for 50,000.

Get our price on Bottle Caps printed with your own design; it costs but little more and protects you

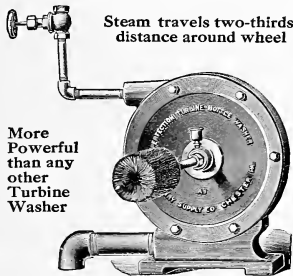






**CHESTER CASE RINSER AND STERILIZER**

The Chester Case Rinser and Sterilizer is used by many dairymen for sterilizing the bottles after they have been brushed and cleaned in ordinary wash-tanks.

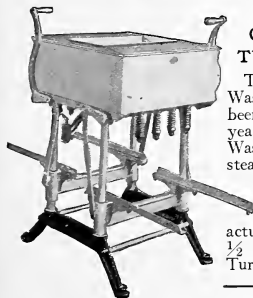


Steam travels two-thirds distance around wheel

More Powerful than any other Turbine Washer

**CHESTER STEAM TURBINE WASHER**

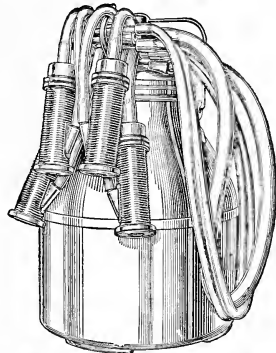
The Chester Steam Turbine Washer is well known, having been in the market for many years. This is the only Turbine Washer made in which the steam travels  $\frac{2}{3}$  of the way around the wheel, thus taking all of the power out of the steam. It actually requires only about  $\frac{1}{3}$  of the steam that most Turbine Washers use.



**MANNING BOTTLE FILLER**

In these days of competition every labor-saving device is necessary to the dairyman.

**The De Laval Milker**



Sooner or later you will use a

**De Laval**

1. Increases milk-production.
2. Saves time and labor.
3. Produces cleaner milk.
4. Makes dairying much more pleasant.
5. Makes more money.

We can prove every point, and convince you that the De Laval Milker will soon pay for itself, if you are milking ten or more cows by hand. Give us an opportunity.

Large illustrated descriptive catalogue, with prices for installing, sent upon request.



**BOTTLE CASE**

**NOTICE.**—To dairymen or farmers who are thinking of putting in a new plant or remodeling an old one, we suggest they write us. We have an expert who will call on them, go over the matter thoroughly with them, and give them the cost.



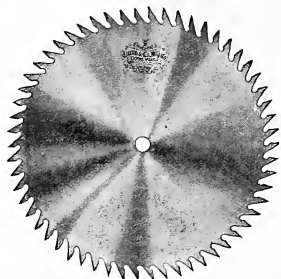
### MARTIN FARM DITCHER, TERRACER, AND ROAD GRADER FOR TRACTOR

The best tool in the world for building terraces, to stop the washing away of top soil on hillside and rolling farms, for cutting new ditches, back-filling after tiling, cleaning out old ditches, filling gullies, leveling bumps, and grading roads. The most important tool ever brought onto the farm. Was needed before the plow.

#### Does the Work of 100 Men

This machine cuts a V-shaped ditch down to 4 feet. It is reversible, throws the dirt to either side, so that you can ditch close to a fence. Can be adjusted for a narrow or wide cut. Made all of steel and has no working parts to wear out. Lasts a lifetime.

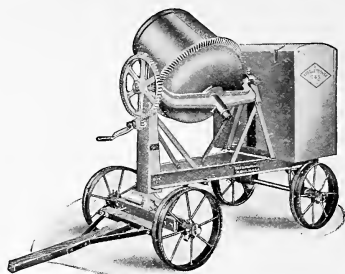
Ask for descriptive Catalogue and special price



### CIRCULAR SAW

A Saw is a delicate tool. When you stop to think of the thinness of the metal and the severe work that a saw performs, you can readily understand what we mean when we say that a Saw is a delicate tool.

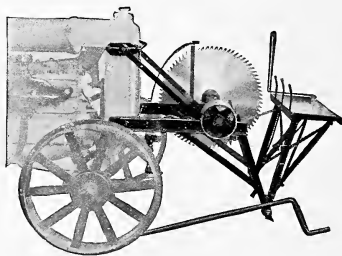
To manufacture a Saw that will give satisfaction out of such a thin piece of steel requires a combination of the best talent, widest experience, large facilities, and the most improved methods of production.



### O. & S. CONCRETE MIXER

You've mixed concrete by hand. Enough said! Just what would you have given when you finished your first day's work for a sturdy, farm-size Mixer that would have completed the job in one-third the time and with one-fourth the labor? What would it have meant to you to have had all of the hard work taken care of by a busy little gasoline engine? Perfectly mixed concrete—better concrete—and no backaches, no drudgery for anyone!

Now think of the dozens of concrete jobs that you would like to have done—building fence-posts, silos, well-tops, feeding-floors, foundations, sidewalks—improvements that will add 15 per cent to the valuation of your farm. With a thoroughly reliable farm-size Mixer it's easy work—and quick work. You can save from \$5 to \$18 per day on labor.



### STOVER SAW RIG

Take the saw to the wood—Not the wood to the saw

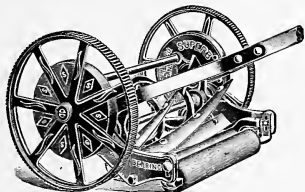
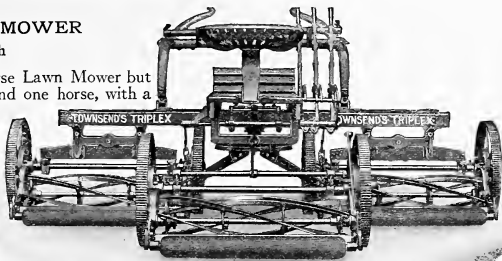
It is unnecessary to spend considerable time, hard work, and double handling to assemble the wood to be sawed on one or more centrally located piles as with the old system, or lose the time to relocate the old outfits when one pile has been sawed. With the Stover Rig attached to your Fordson you can take your outfit wherever poles, etc., happen to be, saw them up, and go on. This convenient, practical, labor-saving and money-making outfit is moderately priced, and when figuring the saving that can be effected by its use over the old method, as well as returns from custom work, the outfit will pay for itself in a comparatively short time.

Can be used for all kinds of power and under all kinds of conditions.

**TOWNSEND'S TRIPLEX LAWN MOWER**

The Greatest Grass-Cutter on Earth

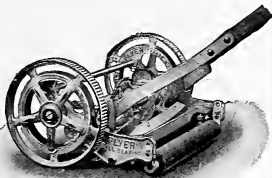
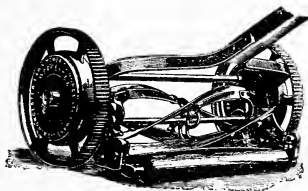
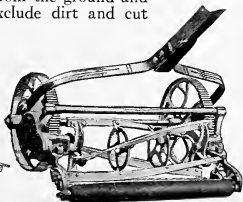
Here is a Mower much lighter than the ordinary horse Lawn Mower but which cuts three times as wide a swath. One man and one horse, with a Triplex, will cut more grass in a day than three men and three horses with three ordinary horse Lawn Mowers, thus saving the wages of two men, the cost of two horses, and the cost of their care and keep. This Mower will cut a swath 86 inches wide. One man and one horse, with a Triplex, will cut more grass in a day than one man with the best motor Mower ever made, and cut it better, at a small fraction of the cost. Can you ask more? We will let you verify it. It floats over the uneven ground as a ship rides the waves; one Mower may be climbing a knoll, a second may be skimming the level, and a third may be paring a hollow.

**"SUPERB" BALL-BEARING MOWER**

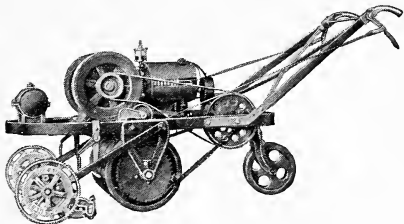
A magnificent Mower, with 12-inch wheel and 7-inch reel. It is the only Mower on the market with 12-inch wheel. The large wheel adds to the power and ease of operation. The large reel enables it to cut through grass so high that it would choke most other mowers. It possesses these two great advantages without the disadvantage of extra weight, the strength not having been sacrificed.

**TOWNSEND'S  
"FLYER"  
BALL-BEARING  
MOWER**

A good, free-cutting, easy-running Mower, with open wheel and frame, made on the two-gear principle. Gears well up from the ground and fully shielded so as to exclude dirt and cut grass. Has 9-inch wheels, 4-bladed reel, the finest bottom knife and the famous Townsend finish.

**GENUINE  
PHILADELPHIA  
LAWN MOWER****THE LARK MOWER**

A low-priced Mower, well made and durable; does good work, is simple in construction, and not liable to get out of order.

**IDEAL POWER LAWN MOWER**

Ideal Power Lawn Mowers are designed and built for keeping large lawns in fine condition. That they are great savers of time and money is evidenced by the thousands in use on large estates, municipal parks, cemeteries, golf-courses, college grounds, school-grounds, ball-parks, etc.

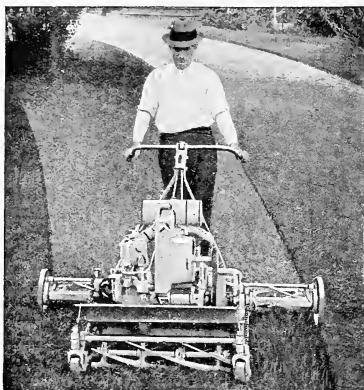
The Ideal, as here shown, is a combined power Mower and Roller. The 30-inch cutting unit is easily raised or lowered by a conveniently placed lever.

This machine will mow from 4 to 5 acres of grass per day, at an operating expense of about 50 cents for fuel and oil. It will do more and better work than five men with hand Mowers. Quickly converted into a riding Mower with the riding trailer which is furnished at a slight additional cost.

When used for golf-course work, an interchangeable cutting unit can be furnished for use on putting-greens.

Ask for descriptive Catalogue and special price

# COLDWELL Power Lawn Mowers



Ask for descriptive Catalogue and prices

## COLDWELL MODEL "L" MOTOR LAWN MOWER AND ROLLER

A practical motor-driven, hand-controlled Lawn Mower with plenty of reserve power, making it possible to cut close up to and around trees, shrubbery, walks, and driveways; to operate efficiently on the smaller areas and at the same time to cut from 4 to 6 acres per day on the larger areas of lawn. In this model is combined the extreme flexibility of the hand Mower with the large cutting capacity, rolling feature, and other advantages and conveniences which can be obtained only with a motor Mower.

Its operation and care are extremely simple and easily understood.

Fuller & Johnson, 4-cycle, water-cooled motor. Bosch magneto. Schebler carburetor. Height of cut  $\frac{3}{8}$  to 2 inches. Capacity 6 to 10 acres per day. Fuel consumption 1 gal. gasoline per 10 hours running. Allyn-Zerk force-feed lubrication.

The gasoline tank holds sufficient for full day's cutting.

The new detachable Gang Units for use with the Model "L" increase the cutting width from 25 to 60 inches for cutting the large open stretches of lawn.

The Gang Units are easily attached or detached. The couplings are flexible so that the units readily follow the contour of the ground.

These Gang Units are made so that they can be attached to all Model "L" Motor Lawn Mowers now in service.

## COLDWELL ELECTRIC MOWER

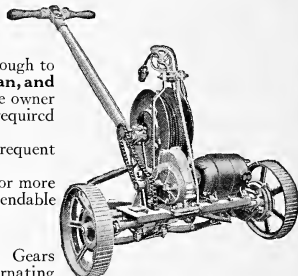
This Coldwell model has been brought out to supply the demand for a simple, inexpensive power Lawn Mower suitable for use on lawns which are not extensive enough to warrant the purchase of gasoline power Mowers. The Electric Mower is **simple, clean, and quiet**, and since its operation requires no knowledge of mechanics or electricity, the owner or any member of the family can mow the lawn without any effort beyond that required to walk along and steer the machine.

The Electric mows the lawn quickly and without labor, permitting of more frequent cutting and finer results.

It is equally suitable for the city or suburban resident with lawns covering one or more city lots, or even half an acre or more. A simple, efficient, inexpensive, and dependable power Mower which eliminates entirely the drudgery of mowing the lawn by hand.

"As easy to operate as a Vacuum Cleaner"

Five blades. Timken tapered roller bearings. Allyn-Zerk force-feed lubrication. Gears run in oil.  $\frac{1}{2}$  H. P. General Electric Universal Motor, for either direct or alternating current; 110 volts. Fuel consumption about the same as an electric iron. Automatic reel, with 150 feet of supply cable. Width of cut, 21 inches.



Ask for descriptive Catalogue and prices

## Thompson's "Golf-Special" Grass Seeder for Golf Grounds Parks and Estates

It is easily understood why greens, fairways, and lawns must be evenly and accurately seeded to get a smooth, uniform growth of grass. Sowing by hand is slovenly, wasteful, and unsatisfactory. The only safe and sure method is to use a machine with a positive, accurately controlled, force feed.

The Thompson's "Golf Special" Wheelbarrow Seeder illustrated, is built especially for this work. It is the result of half a century of experience and is sturdy, reliable, and quite inexpensive. It is simple in operation, yet positive in results. It has no gears, cams or rat-trap machinery to get out of order.

No. 95 "Golf Special" Grass Seeder. Sows swath 14 feet wide.

Ask for descriptive Catalogue and prices

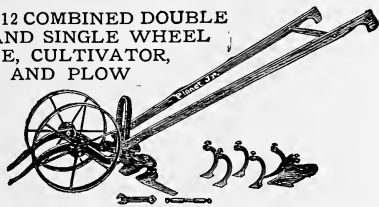


# Planet Jr. Garden Tools

The New "PLANET JR." Catalogue is the handsomest, best, and most instructive book ever issued on a similar subject. Full of little points that bring profit. Full of true and handsome illustrations. We mail it free to any address on application.



## No. 12 COMBINED DOUBLE AND SINGLE WHEEL HOE, CULTIVATOR, AND PLOW



This tool is identical with No. 11 Double Wheel Hoe, except that it has one pair plows, one pair hoes, four cultivator teeth, and a pair of leaf-lifters only, and is sold at a correspondingly lower price.

## No. 13 COMBINED DOUBLE AND SINGLE WHEEL HOE

This tool is the No. 11, with 6-inch hoes only, these being the tools that are most used. Any or all of the other attachments shown with No. 11 may be added at any time.



## No. 16 PLANET JR. SINGLE WHEEL HOE, CULTIVATOR, RAKE, AND PLOW

These Single Wheel Hoes are the highest type of their class. They have a great variety of attachments, and there is scarcely any garden culture of which they are not capable.

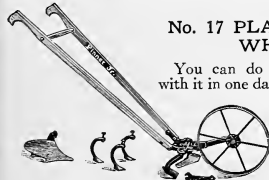
Nos. 16, 17, 17½, and 18 have the same steel wheels, frames and handles, but the attachments sold with each vary.

All attachments are of a special pattern, carefully tested by practical men; no others ever offered compare with them. All the steel parts are high carbon steel, oil-tempered, and specially hardened, finely formed, finished, and polished and work to a charm. Everyone who cultivates needs one.

## No. 17 PLANET JR. SINGLE WHEEL HOE

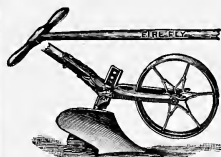
You can do more and better hoeing with it in one day than you can do in three days with a hand hoe.

The No. 17 has an outfit sufficient for most garden work. Weight, 24 pounds.



## No. 18 SINGLE WHEEL HOE

This has one pair of 6-inch hoes only—the tools that are most constantly used throughout the season. Other attachments can be added as needed. Weight, 19 pounds.



## FIREFLY PLOW

This tool will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going twice. Furrows for manure or seeds can be opened and covered. In cultivating, plow away, weed the row and plow back again. This tool will enable a busy man to do in his spare minutes nearly all the work of a family garden. Chicken-raisers find it of great advantage in plowing up their scratching-yards. Weight, packed, 14 pounds.

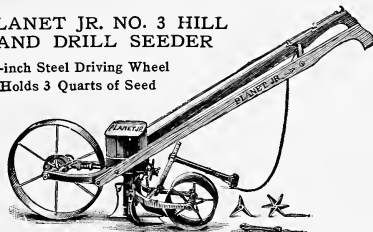
## NEW STYLE STAR PULVERIZER AND CULTIVATOR

A very handy tool for the flower- and vegetable-garden. Cut 7½ inches and can be used where plants are very close. The star discs break up the soil, while the oscillating blade—which works backward and forward—pulverizes the soil

and cuts off the weeds directly beneath the surface. Will cultivate your garden directly after a rain without leaving the soil in a lumpy condition.

## PLANET JR. NO. 3 HILL AND DRILL SEEDER

15-inch Steel Driving Wheel  
Holds 3 Quarts of Seed



A favorite among onion-growers, market-gardeners and seedsmen. Weight, packed, 44 pounds

The No. 3 driving wheel is steel, with heavy forged steel spokes, not "piano wire," of proper height, with broad face, making the tool light and easy running, even with the hopper filled to the brim.

The special force feed is admirable, working equally well whether sowing with an ounce or a full hopper.

The hill dropping is simple and reliable, making hills 4, 6, 8, 12, or 24 inches apart.

## PLANET JR. NO. 5 HILL AND DRILL SEEDER

16½-inch steel wheel. Sheet-steel hopper holding 5 quarts. Built on the same lines as No. 3 Drill, only larger. Weight, packed, 52 pounds.

**PLANET JR. No. 4  
COMBINED HILL AND  
DRILL SEEDER,  
WHEEL HOE, CULTI-  
VATOR AND PLOW**  
Holds  $2\frac{1}{2}$  Quarts of Seed



This tool combines, in a single, convenient implement, a capital hill-dropping seeder, a continuous-row seeder, an admirable single wheel hoe, an excellent furrower, a capital wheel cultivator and a rapid and efficient wheel garden plow. In a word, with a great variety of tools, excellent in design and quality, it is without an equal for easy adjustment, lightness, strength, and beauty. It is a practical, everyday time-, labor- and money-saver. It sows in continuous rows with great uniformity, and drops with accuracy in hills, 4, 6, 8, 12, or 24 inches apart. The feed is automatically stopped by raising the handles, and started by lowering them. Weight, 49 pounds.

**PLANET JR. No. 25  
COMBINED HILL AND DRILL  
SEEDER AND DOUBLE  
WHEEL HOE, CULTIVA-  
TOR, AND PLOW**

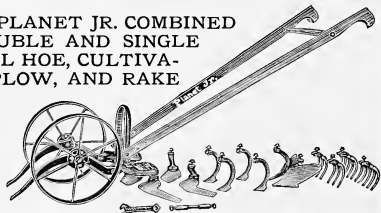


Holds  
 $2\frac{1}{2}$   
Quarts  
of Seed

This new combined machine is intended for gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used to good advantage, and yet prefer not to buy seeders and wheel hoes separately.

As a seeder it is practically the same as the Planet Jr. No. 4; will sow in drills any thickness, or drop in hills 4, 6, 8, 12, or 24 inches apart, and has the same feed, hill-dropping mechanism, and automatic device for stopping the feed, and has also the new seed index. It is thoroughly substantial and is accurate in planting all kinds of garden seeds in either hills or drills. Weight, packed, 59 pounds.

**No. 11 PLANET JR. COMBINED  
DOUBLE AND SINGLE  
WHEEL HOE, CULTIVA-  
TOR, PLOW, AND RAKE**



A Double and Single Wheel Hoe in one. 14-inch steel wheels for 1918. Straddles crops till 20 inches high, then can be worked between rows with one or two wheels. The hoes are wonderful weed-killers and leave the ground almost level.

**PLANET JR. No. 8  
HORSE HOE AND  
CULTIVATOR**



A great favorite, being complete and easily operated. Especially strong and intended for long-continued service. Equipment consists of four 3 x 8-inch cultivator steels; one 12 x 8-inch cultivator steel; two 6-inch hillers; one 7-inch shovel; lever wheel; lever expander; depth regulator. The teeth are regular Planet Jr. beveled steel type, thickest in the center where wear is the hardest. Handle adjustment up or down for height, and an important side adjustment. Invaluable in cultivating almost every crop grown in rows. Weight, 83 pounds.

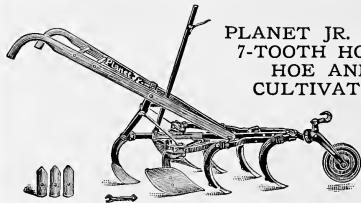
**PLANET JR. No. 7 HORSE HOE**

The No. 7 Horse Hoe is the No. 8 without the depth regulator. It works the same as the No. 8 in every way, except that it lacks the steadiness and easy control of depth made possible by the depth regulator.

**No. 9 PLANET JR. HORSE HOE**

A very popular tool which is identical with the No. 7, except that it has a plain wheel instead of the lever wheel. Popular because of its strength, lightness, easy change of width, and perfection of work. Handles adjustable in height and sidewise. Equipment as shown in cut offers a tool which will always be useful. Will stand incredible strain; you can cultivate to any reasonable depth with it, and adjust for any useful width.

**PLANET JR. No. 82  
7-TOOTH HORSE  
HOE AND  
CULTIVATOR**



A comparatively new combination of Horse Hoe and Cultivator that has become very popular during the few years that it has been on the market. It has all the advantages of our No. 9 Horse Hoe; its reversible side standards can be turned to any angle desired. The seven teeth insure fine and thorough cultivation. Will take all the extra attachments which fit our Nos. 7, 8, and 9 Horse Hoes, and the whole combination is one which is valuable for hoeing, hilling, and thorough cultivating.

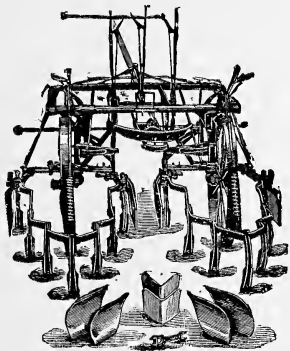
**No. 83 PLANET JR. 7-TOOTH PLAIN  
CULTIVATOR**

In the opinion of those who ought to know, it is the coming one-horse Cultivator. The seven teeth instead of the ordinary five are  $2\frac{1}{4}$  inches wide, and their work is finer and more thorough than that of the 5-tooth Cultivator. A favorite where fine cultivation is essential. Finishes all rows up to 42 inches apart, and will work the middles complete in one passage. Can be run deep or shallow. Takes extra attachments shown on pages 63, 64, and 65 of the Planet Jr. Catalogue.

### PLANET JR. 12-TOOTH HARROW, CULTIVATOR, AND PULVERIZER



Gardeners cultivate better than formerly. It has been found to pay best. With the 12-tooth Harrow you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil and mellow and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. It's a special favorite with strawberry-growers market-gardeners and truckers.



### PLANET JR. No. 72 TWO-ROW PIVOT-WHEEL CULTIVATOR, PLOW, FURROWER AND RIDGER

With the improved No. 72 we complete the cultivation of two rows at one passage, at all widths from 28 to 44 inches inclusive, and the implement is especially built to do this when the rows are irregular. This tool is so designed that the operator can make changes in width of gangs instantly while in motion, by means of a handy lever for each gang, so as to accommodate the machine perfectly to rows which vary greatly in width. The wheels and gangs can be easily changed for crops planted different widths apart.

### DOUBLE CELERY HILLERS



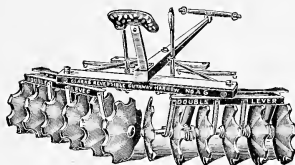
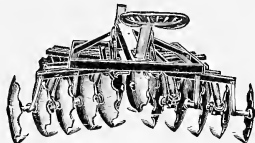
These are now considered indispensable. The leaf-lifters are adjustable in height by bending slightly, and are especially valuable for first workings. With their aid some of our best and largest growers hill their celery without any handing.

See the 1926 Planet Jr. Catalogue for full description of tools above.

Mailed free on application. See also pages 61 and 62.

### CLARK'S DOUBLE-ACTION CUTAWAY HARROW

The cut represents the A-5 Double-Action Cutaway Harrow with short head and jointed pole. This is the popular two-horse size. We also sell sizes from 3 to 12 feet, with 16-, 18-, or 20-inch cutaway discs.

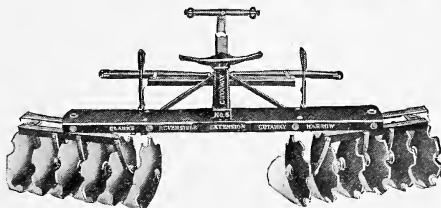
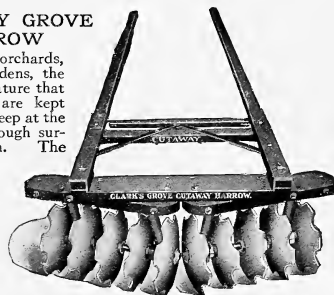


### CLARK'S SINGLE-ACTION REVERSIBLE CUTAWAY HARROW

The cut represents the 6-foot Double-Lever Reversible Cutaway Harrow. They are made from 4 to 12 feet in width, and are reversible up to 7 feet.

### CUTAWAY GROVE HARROW

In many orchards, groves, and gardens, the soil is of such nature that often Harrows are kept from going too deep at the sacrifice of thorough surface cultivation. The Cutaway Grove Harrow overcomes this difficulty.



### CUTAWAY EXTENSION-HEAD SINGLE-ACTION HARROW

To the orchardist the Cutaway Extension-Head Single-Action Harrows are fast becoming the most indispensable tools they use. When the farmers of every class fully understand the soil and realize the importance of intensive tillage, they will recognize how they can increase their crops with Cutaway Single-Action Harrows.

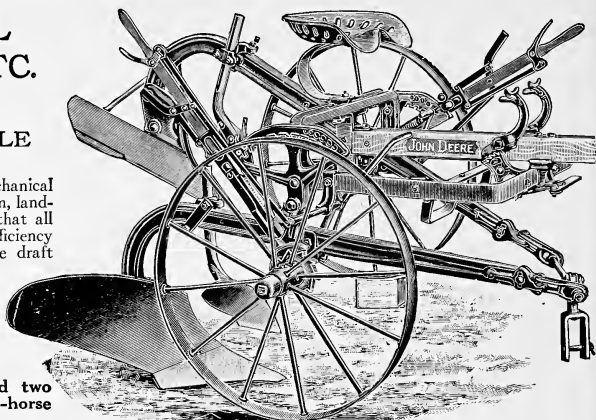
# AGRICULTURAL IMPLEMENTS, ETC.

AT LOWEST MARKET PRICE

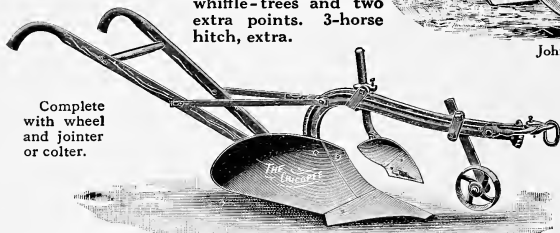
## JOHN DEERE REVERSIBLE SULKY PLOW

The John Deere is constructed on the mechanical principle that it is necessary to have the beam, landside, wheels, and pole running in line, so that all tendency to side draft is obviated. The efficiency of this Sulky is further increased and the draft greatly lightened by means of the automatic pole adjuster, found only in this Plow, as all side strain upon the team is avoided and the operator is enabled to regulate the width of furrow, plow around curves, or obtain the full width of furrow, in plowing side-hill land. **Complete, with eveners,**

**whiffle-trees and two extra points. 3-horse hitch, extra.**



John Deere Reversible Sulky Plow



Complete with wheel and jointer or colter.

No. 100 Chicopee Plow

times, and lessens the draft. Landsides and shares to this Plow are of cast iron. We furnish plain or colter shares as ordered. We also furnish straight colter or jointer.

## No. 100 CHICOPEE PLOW

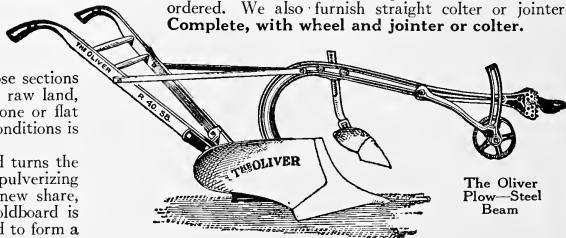
No. 100 is made in similar lines to the Chicopee of previous years but with a shorter beam, moldboard and landside, as this Plow is intended more particularly for use in rough or stony ground where a quick entrance or exit is of great advantage. The moldboards are of hardened soft-center steel with cast shin-piece. This makes it easy and inexpensive to have a good cutting edge to the moldboard at all times. We furnish plain or colter shares as ordered. We also furnish straight colter or jointer. **Complete, with wheel and jointer or colter.**

## THE OLIVER PLOW

Chilled Plows were developed for use in those sections where a general-purpose Plow must plow sod, raw land, clay, sandy land, clay loam, extreme cobblestone or flat stone land and shale. Their success in these conditions is attested by their numerous users today.

The long, gently curved, high-lift moldboard turns the deep furrow-slice completely over, thoroughly pulverizing the soil and covering the trash. With each new share, which is of the cutter type, the shin of the moldboard is renewed. The bottoms are substantially braced to form a rigid construction and reduce possibility of breakage. The

long chilled landside is flanged to hold the Plow in the ground and make it steady running, even in stony ground. Hanging or rolling colter, gage wheel or jointer, furnished extra on order.



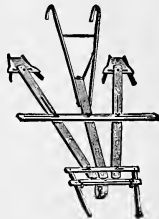
The Oliver Plow—Steel Beam



The Oliver Plow—Wood Beam

## THE GOSLEE IMPROVED FIELD MARKER

A first class three-row Marker, suitable for marking out land for rowed crops of any kind.



Field Marker

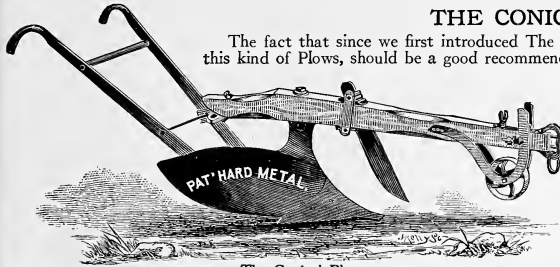


**THE CONICAL PLOW**

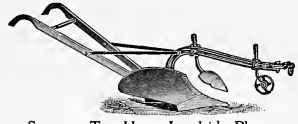
The fact that since we first introduced The Conical we have made and sold over 15,000 of this kind of Plows, should be a good recommendation for it. The demand for this Plow shows the strong hold it has among the farmers.

1-Horse, Plain, No. 2, and 2½.  
No. 4, 2-Horse.

All two-horse Plows with Wheel and Cutter.



The Conical Plow



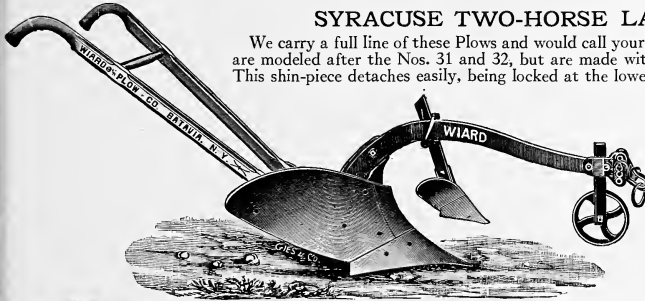
Syracuse Two-Horse Landside Plow

**SYRACUSE TWO-HORSE LANDSIDE PLOW**

We carry a full line of these Plows and would call your attention to the No. 62. These Plows are modeled after the Nos. 31 and 32, but are made with a removable chilled iron shin-piece. This shin-piece detaches easily, being locked at the lower point and held in place by one bolt.

Made with a highly tempered soft-center steel moldboard only. In this Plow we have a combination of strength, durability, light draft, and excellent turning capacity at a low price.

No. 32. Wheel and Cutter.  
No. 452. Wheel and Cutter.



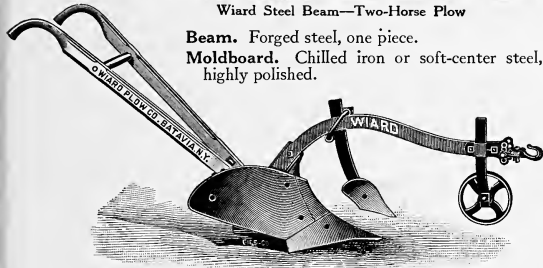
Wiard Steel Beam—Two-Horse Plow

**WIARD STEEL BEAM TWO-HORSE PLOW**

**Specifications and Descriptions**

**Beam.** Forged steel, one piece.  
**Moldboard.** Chilled iron or soft-center steel, highly polished.

- Shin-Piece.** Chilled iron, highly polished.
- Landside.** Cast iron or steel, highly polished.
- Shoe.** Cast iron, chilled on bottom, highly polished.
- Handles.** White oak, adjustable to raise or lower.
- Jointer.** Steel shank, malleable holder, can be raised or lowered.
- Colter.** Steel knife, tempered; or rolling.
- Wheel and Standard.** Adjustable to raise and lower, and can be set to run beam or at side. Standard steel.



Wiard Steel Beam—One-Horse Plow

**WIARD STEEL BEAM—ONE-HORSE PLOW**

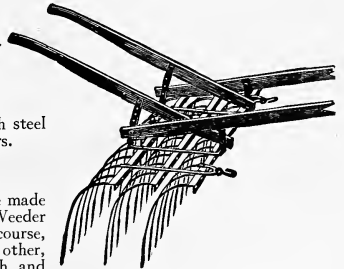
Right-Hand Chilled or Steel Moldboard, fitted Jointer or Steel Knife Colter

No. 74. One-horse, 4 to 7 inches deep, 6 to 11 inches wide; 84 lbs. with Clevis.  
No. 75. One-horse, 4 to 7 inches deep, 6 to 10 inches wide; 80 lbs. with Clevis.

All parts of the two Plows are interchangeable. This series of Plows, with steel beam, is of a late pattern; very light, trim, strong, and durable and ready sellers.

**HALLOCK SUCCESS WEEDER**

Teeth are separately removable. Handles and shafts adjustable. Teeth are made of flat spring-steel (round at lower end). The frame is angle steel, giving the Weeder by far the best frame on the market. It weighs no more than wood and is, of course, better in every way. Each tooth is secured to the frame independently of the other, hence you can in about two minutes remove the teeth over the rows if you wish, and in some cases this is very desirable.



Hallock Success Weeder

## EDDY PLOWS

The No. 4S Plow is a model especially adapted for work on the rough, stony farms of the eastern states. Built to withstand the strains and wear of our hill farms, it has never been excelled for this class of work.

Moldboards are furnished of highest grade soft-center steel, open-hearth steel, or chilled iron, enabling a dealer to carry three different-priced Plows with but one line of extras.

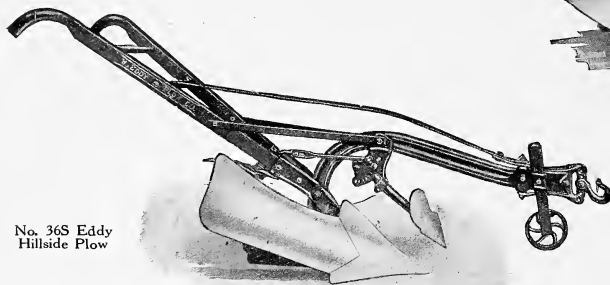


No. 4S Eddy Plow

This cut shows the Plow equipped with colter and with jointer.

While intended primarily for hill-side work, its moldboard is so modeled that it will run evenly and turn a furrow equal to any flat land plow.

We also carry the Eddy one-horse, No. 52L, Wood Beam and O6 Steel Beam Plows.



No. 36S Eddy Hillside Plow

JOHN DEERE SPREADER A Revolution in the Art of Spreader Building

Beater on axle makes it easy to assemble; easy to load—36 inches high; easy to operate—only two levers.

Rotary rake insures uniform spreading and reduced draft.

Ball-bearing eccentric and positive ratchet feed insure easy and uniform operation of steel-link apron under all conditions.

Rear wheels 48 inches high—proper traction, light draft.

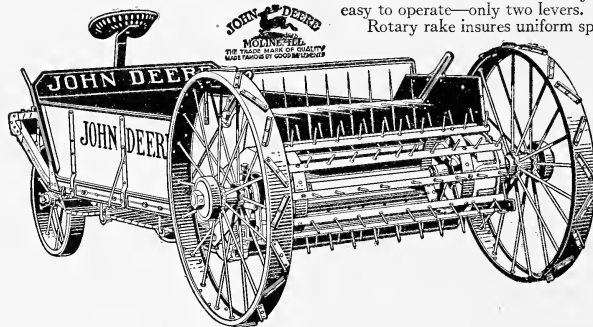
All-steel, 10-bar beater mounted on roller bearings—practically indestructible—easy running.

Beater driving gears simple and durable, like triple gear horsepower—run in oil.

Shock-absorbing spring relieves Spreader and team of sudden strains.

Cold rolled steel axle, mounted in self-aligning bearings, stays put, and runs easy.

High carbon-steel frame, well trussed, carries heavy loads and working parts without sagging.

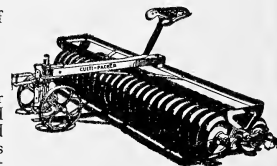


No exposed wearing parts—no chains—no clutches—no adjustments.

Straw Spread Attachment makes a practical Straw Spreader—spreads all kinds of straw in any condition.

INTERNATIONAL CULTI-PACKER THREE TOOLS IN ONE

This is one of the best built machines that ever helped the farmer to get a bumper crop. The frame is made of heavy angle steel bars, bolted fast. Two Channel steel bars run diagonally from the tongue across the frame. It takes the place of the old roller. This is not only a clod crusher, but a pulverizer, packer, and cultivator. This machine is practically indestructible and will last a lifetime. Length 54 inches. Weight 560 pounds.

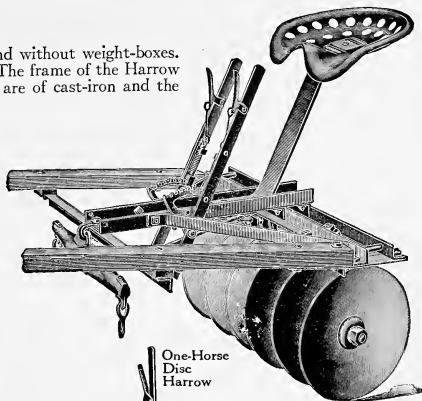
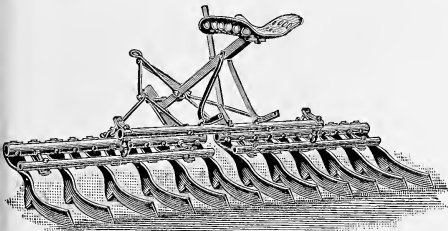


International Cultivator

## ONE-HORSE DISC HARROW

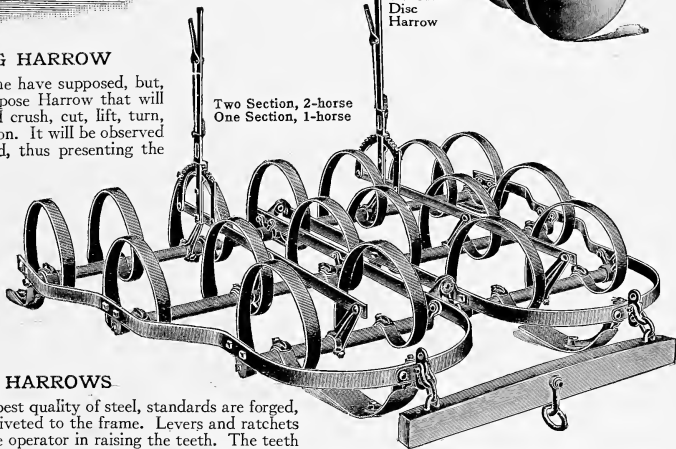
This Harrow is built with eight discs, 16 inches in diameter, and without weight-boxes. It is a light-weight Disc Harrow for farmers using but one horse. The frame of the Harrow is made of steel angle-bars, very strong and stiff. The standards are of cast-iron and the discs are of the same quality as is used on our larger Harrows.

The Two-Horse Harrow has 12 discs, 16 inches diameter.

One-Horse  
Disc  
HarrowTwo Section, 2-horse  
One Section, 1-horse

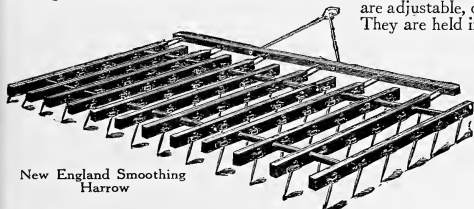
## ACME PULVERIZING HARROW

This is not a special tool, as some have supposed, but, as its name implies, a general-purpose Harrow that will do the whole business, viz.: It will crush, cut, lift, turn, smooth and level, all in one operation. It will be observed that the colters all slope backward, thus presenting the least possible resistance, and as they are beveled and ground to an edge, the draft is reduced to a minimum. Being made entirely of cast steel and wrought iron, it is practically indestructible. Nothing but the colters can possibly wear, and these are readily replaced at a trifling cost.



## SPRING-TOOTH HARROWS

These Harrows are made of the best quality of steel, standards are forged, and high-carbon steel runners are riveted to the frame. Levers and ratchets are forged steel and bent to aid the operator in raising the teeth. The teeth are adjustable, of heavy steel and of a large curve which gives free vibration. They are held in place by a forged steel clip, passing around the tooth.

New England Smoothing  
Harrow

## NEW ENGLAND SMOOTHING HARROW

One of the best Smoothing Harrows on the market. The teeth are  $\frac{1}{8}$  inch mean diameter and are attached to the side of the bars by a malleable clasp, and are so arranged that by hitching to one end of the Harrow the teeth pull slanting; by hitching to the other end the teeth pull straight.

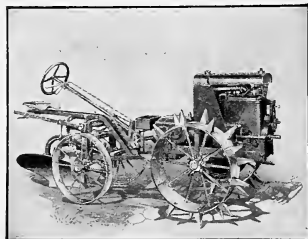
## The Midget Seeder

For Small Farms  
and Home-Gardens



## THE MIDGET SEEDER

Will pay for itself in a very short time, because it saves seed by sowing accurately. Sowing by hand wastes seed. It is very easy to operate and drills almost any kind of garden seed from the smallest up to peas and beans. The index is in plain view and easily adjusted. The shoe is adjustable for any depth desired, and the coverer swings free. The Midget opens the furrow, sows the seed, and covers up, all in one operation. It is sold with handle complete or may be easily attached to almost any wheel cultivator with one bolt. After a fair trial last season it has our full indorsement.



Model G

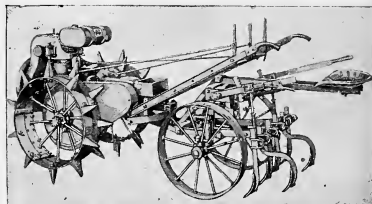
In all kinds of work the Centaur is easy to operate and does the job quicker, easier, better, and at a less cost than it can be done in any other way.

In addition to the Model G Centaur Tractor shown, the Centaur line includes the Model F, which is shown in the accompanying cut. The Model F is a lighter Tractor, being powered by a 5 H. P. air-cooled motor. It is an ideal power unit for the farmer having from 1 to 20 acres under cultivation and for cultivating purposes on large acreages. In cultivating the Model F Centaur will displace a team.

## THE CENTAUR FARM TRACTOR

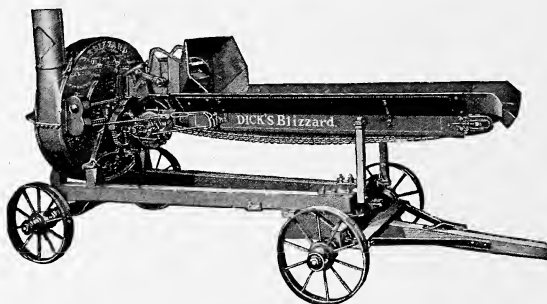
The Model G 10-5 H. P. Centaur is a light farm Tractor of wide utility range. The Centaur plows, harrows, seeds, mows, hauls, and furnishes belt power. The Model G Centaur will do all the power work on the farm having as much as 50 acres under cultivation. The Centaur will handle with ease farm tools requiring two horses.

A 12-inch Plow is used with the Centaur and about  $2\frac{1}{2}$  acres can be plowed in nine hours. The Centaur is the highest type power unit for cultivating purposes and will do more and a better job of cultivating than can be done with a team. In all work the Centaur operates at a cost of about 15 cents an hour.



Model F

## BLIZZARD ENSILAGE CUTTER



At last—A Self-feeding Cutter—Biggest Ensilage Cutter improvement of years

The patented automatic feeding device in use on the latest model of Dick's Blizzard Ensilage Cutter puts this original and old reliable Cutter still further in the lead.

The double-feed feature results in big increase of capacity with easier feeding. It makes Dick's Blizzard Cutters absolutely self-feeding and saves one to three men.



Steel Land Roller

## STEEL LAND ROLLERS

Our Steel Land Rollers are the most popular in the market today. Their construction is that which makes them the strongest, most durable, and easiest-draft Roller in use today. Roller-bearing and closed ends.

One-horse, 6 feet, 2 sections, 2-foot diameter.

Two-horse, 8 feet, 3 sections, 2-foot diameter.

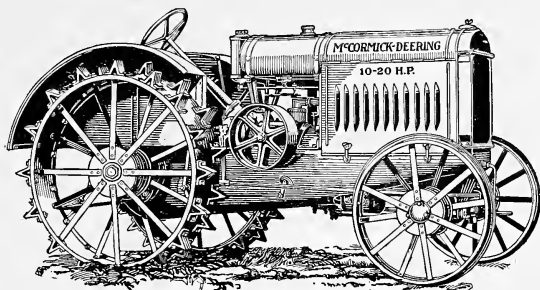
## McCormick-Deering Tractors

McCormick-Deering 10-20 h. p. and 15-30 h. p. Tractors embody the most modern design and practical developments in the Tractor industry. Tractor power and profitable production of crops go hand in hand. The better the power, the greater the production, resulting in more profits.

Good seed-bed preparation is always desirable, and experience shows that it pays well to do a good job. Here again the Tractor farmer has the advantage because he can not only do more work but can do it better. With Tractor-drawn implements, which are much heavier and stronger, he can work the soil to the proper depth and make the seed bed to his liking. He can do just as fast and just as good work the last hour of the day as the first. There is no slighting or skimping; the whole field is all done the same.

McCormick-Deering Tractors are triple-power. The amount of actual service you get from your Tractor depends on the number of ways you can use it—the number of ways it delivers power for useful work. It is only natural then that a triple-power Tractor—one that delivers useful power on the drawbar, the pulley, and also directly to the pulled machine by a power take-off, is more valuable and serviceable to its owner than one that does work only on the belt and drawbar. You have power as you need it.

The efficient lubrication system will enable the



McCormick-Deering 10-20 Horse-Power Tractor

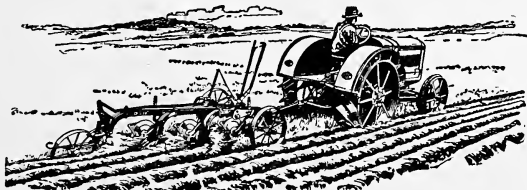
Tractor owner to get more satisfactory service and more productive power from his Tractor.

The powerful engine is of the vertical, 4-cylinder, valve-in-head type. The pistons are long, and provided with four piston rings and two oil grooves. This is considered the very best type of piston construction.

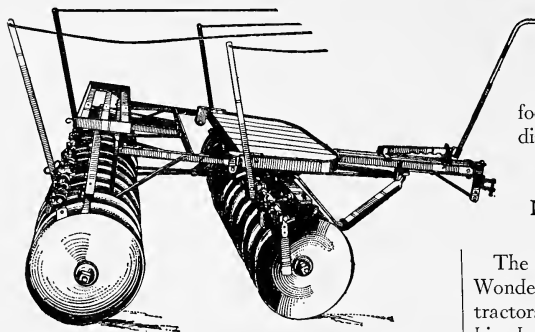
McCormick-Deering Tractors combine the right amount of weight with the power of the engine. Proper weight is very important. It insures the right amount of traction to get the best results on drawbar work.

Other important features of the construction are the thermo-siphon cooling system, durable dry-disc clutch, selective transmission, the accessibility of all working parts, etc. All wearing parts are replaceable. This means that after years of service the parts that may show wear can be replaced on the farm at small cost.

Prices and illustrated catalogue on McCormick-Deering Tractors sent on request



Power for speed and good work in plowing



McCormick-Deering Tractor Disc Harrow

### MCCORMICK-DEERING TRACTOR DISC HARROW

The McCormick-Deering Tractor Disc Harrow is built to stand up to the heavy work which a tractor-drawn harrow is likely to be called upon to do. The side and front frame are made of one piece of heavy steel securely riveted at the corners. The stub tongue comprises two steel angle bars, completing a front frame that is extremely strong and rigid. The rear frame consists of a rigidly braced and cross-braced horizontal frame securely attached to the heavy rear gang arch.

This harrow is built for long service and

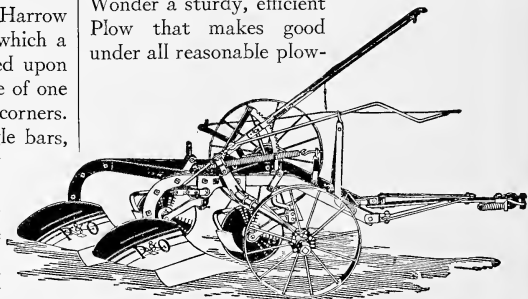
is so constructed that it is rigid while working but flexible when turning.

The McCormick-Deering Tractor Disc Harrow is built in 5-, 6-, 7-, 8-, 9-, and 10-foot sizes and equipped with 16- or 18-inch discs. There is a size to suit any tractor.

Ask for special catalogue and prices

### MCCORMICK-DEERING P. & O. TRACTOR PLOWS

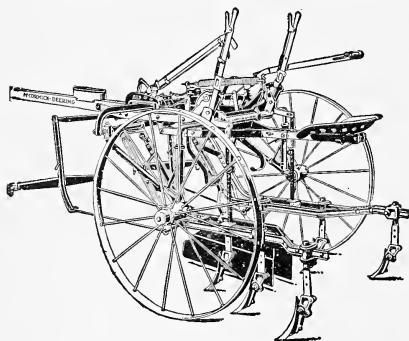
The McCormick-Deering P. & O. Little Wonder Tractor Plow is built for use with small tractors. Sturdiness and dependability are combined with light weight, light draft, and low price. Heat treating parts subject to strain, simplification of design, and the intelligent employment of material, placing weight only where necessary to strengthen, have produced in the Little Wonder a sturdy, efficient Plow that makes good under all reasonable plow-



McCormick-Deering P. &amp; O. Little Wonder Tractor Plow

ing conditions. A single trip rope enables the plowman to get the bottoms into or out of the ground at will. Plenty of clearance between the bottoms, and under the beams, and under the bottoms when they are raised, enables this Plow to do good work in trashy ground.

Sizes and Equipment: Made in 2-furrow only with 14-inch bottoms. Stubble, Scotch Clipper or Black-land bottoms with quick-detachable shares or Slat or Breaker bottoms with bolted shares. Combination colters and jointers furnished. Alfalfa or Cobblestone shares supplied on special orders. A rear-wheel attachment and weed hooks are supplied at additional cost.



McCormick-Deering New 4-Pivot Axle Cultivator  
For description see page 71

Have our Demonstrator call on you. Special catalogue and prices on application

## McCORMICK-DEERING NEW 4-PIVOT AXLE CULTIVATOR

With 6-shovel, Steel-Beam, Pin-Break, Slotted Shank Gangs, Pictured on page 70

The McCormick-Deering New 4-Pivot Axle Cultivators are adaptable to all row crops and can be supplied with a wide range of gang and shovel equipment. Each gang has a double steel beam connected by broad couplings to a movable steel bar which is suspended from a steel I-beam riding on two long rollers, one at each side of the frame. As the gangs are shifted by pressure on the foot

pedals their weight moves on these rollers and almost no effort is required to control them, even in crooked cross cultivation.

Ask us for prices and special catalogue describing the McCormick-Deering New 4-Pivot Axle Cultivator, the gang and shovel equipment and fertilizer attachment.

## McCORMICK-DEERING SPREADER

A McCormick-Deering Spreader saves time and labor, spreads manure evenly, enriches the soil, increases the yield of crops, makes money, and takes drudgery out of work. This Spreader is easy-pulling and light in draft, because it spreads wide from a box that tapers 1½ inches from front to rear, the rear end being wider than the front which prevents the manure from lodging against the box sides.

Power is transmitted from both ends of the rear axle; rear wheels track with the front wheels, helping to reduce the draft.

McCormick-Deering Spreaders are short-coupled and have auto-turn steering device, permitting short turns in cramped or close quarters, powerful, steady double ratchet feed, all-steel frame to which all working parts are attached, two steel beaters working from both top and bottom of the load,



McCormick-Deering No. 2 Spreader

thoroughly shredding the manure, widespread spiral and six speeds for the apron which can be regulated without stopping the team.

McCormick-Deering Spreaders are made in two sizes:

No. 1. Two-horse; capacity 50 to 60 bushels.

No. 2. Three-horse; capacity 65 to 75 bushels.

The easy-pulling McCormick-Deering Spreader helps to make more money per acre regardless of market prices.

## McCORMICK-DEERING FEED GRINDERS

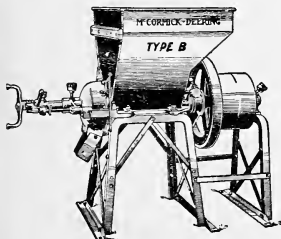
It pays to grind the grain you feed, for grinding feed means saving feed and saving feed means saving money. The man who has had experience in feeding stock knows that if whole corn or oats is fed, a portion of it passes through the intestinal tract undigested. It fills the stomach and satisfies the hunger, but is actually wasted so far as nourishment is concerned, because it adds nothing to the weight of the stock. By experiment, this waste has been found to be from 12 to 26 per cent; that means that 26 out of every 100 bushels of corn and 12 out of every 100 bushels of oats has practically no nourishment value if fed to farm animals without grinding. A McCormick-Deering Feed Grinder will soon pay for itself through the increased value it gives to the grain you feed.

The Type B Grinders are especially designed for grinding corn on the cob, shelled corn, and small grains. They are made in three sizes with 6-inch, 8-inch, and 10-inch grinding plates. They can be adjusted to grind fine or coarse by means of a hand crank. The mills are made almost entirely of steel. When you invest in a McCormick-Deering Feed Grinder, you are assured of a high standard of quality, backed by more than ninety years of manufacturing experience.

### REGULAR EQUIPMENT ON TYPE B

6-inch mill—8-inch pulley with 6½-inch face.  
8-inch mill—10-inch pulley with 8½-inch face.  
10-inch mill—12 inch pulley with 8½-inch face.

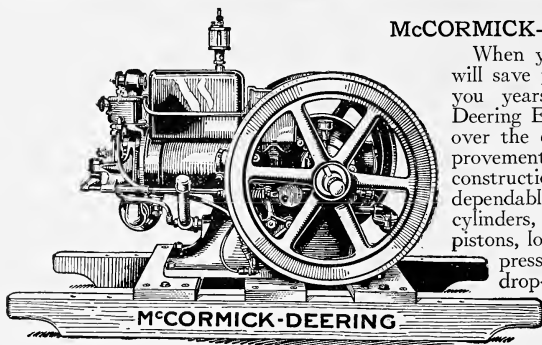
One set of grinding plates attached to mill.  
One extra grinding plate.  
One extra breaker cone.  
Lag screws for attaching mill to floor.  
Supplemental bottom for grinding small grains, when ordered.



McCormick-Deering Type B Feed Grinder

Prices and catalogue describing other types and sizes of McCormick-Deering Feed Grinders on request

## McCORMICK-DEERING ENGINES



McCormick-Deering Engines, 1½ and 3 H. P. Sizes

## REGULAR EQUIPMENT

Magneto; Skids on 1½ and 3 H. P.; Skids on 6 and 10 H. P. when not portable; plain pulley.

A McCormick-Deering Engine will lighten your task and will save you many days of weary, hard work. Ask for special catalogue and prices.

When you select an Engine you want one that will save you money in doing your work and give you years of satisfactory service. McCormick-Deering Engines are doing this for their owners all over the country. Every year has seen some improvement which has added to the high quality of construction. Some of the special features on these dependable quality-made Engines are renewable cylinders, valve-in-head construction, close-fitting pistons, long connecting rods, which reduce the side pressure on the pistons to a minimum, strong drop-forged steel crankshafts, large well-made bearings, serviceable magnetos (no batteries are needed), simple hopper cooling system, throttle governor, strong completely enclosed one-piece crank-case, provided with handhole cover and plates which can be removed, thereby making the working parts easily accessible, serviceable oiling system, etc.

McCormick-Deering Engines are built in 1½, 3, 6, and 10 H. P. sizes.

## McCORMICK-DEERING ENSILAGE CUTTERS

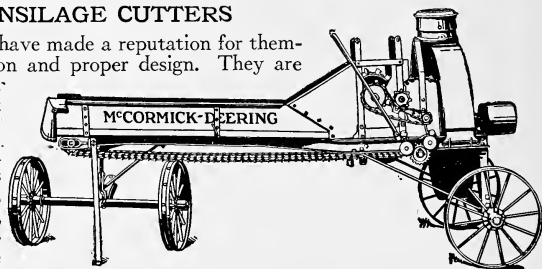
McCormick-Deering Ensilage Cutters have made a reputation for themselves because of their sturdy construction and proper design. They are built of high-grade materials throughout. Steel is used wherever it gives the best service.

There are many splendid features on McCormick-Deering Ensilage Cutters which make them popular with users. For instance, the substantial main frame, steel fly-wheel, knife-on-fly-wheel construction, shear cutting, high throw, large paddle roll, steel conveyor, high and wide feed throat, reversible cutter bar, splendid oiling facilities, and special safety features. Knives can be quickly changed.

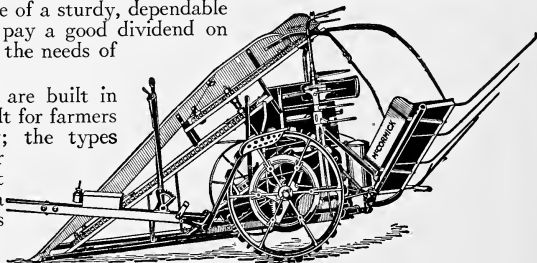
Experience shows that the silo saves from 30 to 40 per cent of the feeding value of the corn crop that would otherwise be wasted. The use of a sturdy, dependable McCormick-Deering ensilage cutter will pay a good dividend on the investment. There is a size to meet the needs of every farm where corn is grown.

McCormick-Deering Ensilage Cutters are built in five sizes: The A, B, and E type are built for farmers who want machines of large capacity; the types F and G are used mainly by the farmer who wishes to fill his own silo without extra help, or where a machine of a smaller capacity than the other types is desirable.

Ask for special catalogue



McCormick-Deering Ensilage Cutter



McCormick Corn Binder. See page 73



### McCORMICK CORN BINDER

The McCormick Corn Binder is made to stand up and give long, satisfactory service under all field conditions. It is a light-draft machine, because it is made almost entirely of steel and all the important revolving parts, which are subject to any great amount of friction, are equipped with self-aligning roller bearings. Large lugs on the main wheel insure good traction and the machine cuts both heavy and light corn with equal facility.

The McCormick picks up down and leaning corn, follows rows easily, vital parts are easily accessible, elevator chains gather and hold stalks upright until bound, makes firm, squarely butted bundles, and the reliable knottor ties right every time. It binds tall or short corn. Every lever for the control of the machine while cutting corn in the field is within easy reach of the man on the seat. Ask for special catalogue illustrating and describing these machines.

Tongue, three-horse evener, and tools are regular equipment on McCormick Corn Binders. With high wages, the cost of cutting corn by hand is too great to be practical. The McCormick Corn Binder will reduce the cost of cutting the corn and will bind it in bundles so that it is easy to handle.

### DEERING MOWERS

Deering Mowers have a world-wide reputation for light-draft and easy-running qualities. They were the first machines of their kind to be equipped with ball and roller bearings. Deering Mowers are made in three types: Regular lift, vertical lift, and giant or heavy-duty type. Strength has been built into the Deering Mower frame where strength is needed. Water cannot accumulate about the butt of the pole and cause it to rot as the end of the pole is covered by the frame of the Mower. The first step in the transmission of the power from the drive-wheels to the knife is through an internal gear and pinion. This is regarded as an unusually strong and efficient type of drive, because with the internal gear the greater part of two teeth is constantly engaged. The crankshaft retains oil. A wide hinge and rugged construction keeps the cutter bar in alignment. Drag-bar arrangement gives

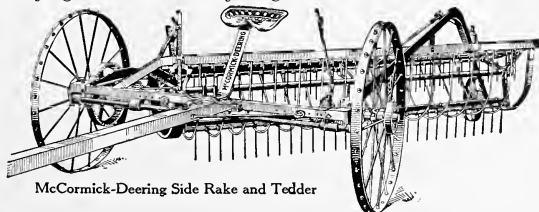
ample traction on rough ground. There are many other good things about Deering Mowers which you should know. Deering Mowers are built in the following widths of cut: Regular and vertical lift, 4½- and 5-foot; Giant Mowers, 4½-, 5-, 6-, and 7-foot.

Ask us for special catalogue, illustrating and describing these dependable Mowers

### McCORMICK-DEERING SIDE RAKE AND TEDDER

The McCormick-Deering Side Rake and Tedder is instantly convertible from a Side Rake to a Tedder by changing the direction in which the reel revolves. One lever controls the direction in which the reel revolves. One lever controls the direction of the reel, another sets the teeth at the correct slant for raking or tedding. Roller bearings make the rake exceptionally light draft. The angle steel frame, the rigid bracing, including large truss beam running over the reel, the extra-heavy gears, heavy piping for reel, tooth bars, and the solid steel main axle gives this machine great strength. Reel ends can be raised or lowered to take care of varying conditions of hay or ground.

One caster wheel is regularly supplied with the McCormick-Deering Side Rake and Tedder. The pole is regular equipment. Neck-yoke, double-trees, and extra caster wheel may be had on special order at additional cost. A McCormick-Deering Side Rake and Tedder will often make it possible for you to cut hay and get it into the barn the same day. The one machine does two important jobs.

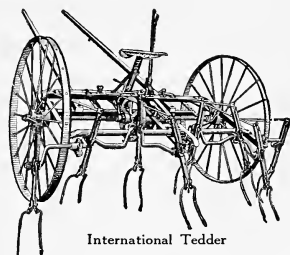


McCormick-Deering Side Rake and Tedder

### CHAMPION IMPROVED MOWER

The high standing of the Champion Improved Mower with dealers and farmers alike did not result from accident. An excellent cutting machine at the outset, improvements suggested by field experience under varying conditions have been added from time to time. The Champion Mower today will bear the keenest scrutiny as to design, quality of material and workmanship, and all-round efficiency.

The regular lift Mowers here illustrated are built in two styles—Champion Improved Regular Lift, with 4- and 5-foot cuts, and the Champion Improved Big Mower, with 4½, 5-, 6-, and 7-foot cuts.

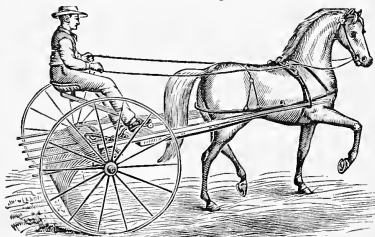


International Tedder

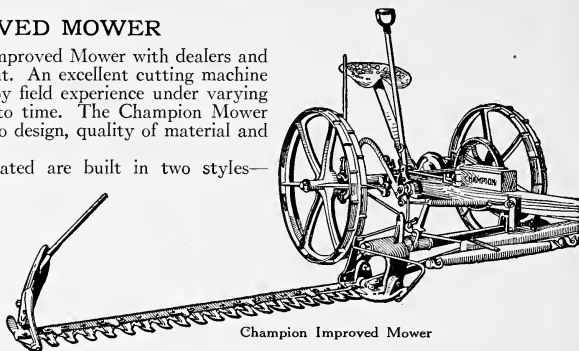
reach of the driver. Seat is adjustable. Fork and main and crank-shaft bearings are supplied with oil-cups. Shafts can be converted into pole for two horses. Made in 6- and 8-fork sizes.

### CHAMPION SELF-DUMP RAKE

The Rake here illustrated is built amply strong to handle hay of the heaviest growth. A specially valuable feature is that the tooth-adjusting lever allows the teeth to be set at any desired distance from the ground, this adjustment being made without driver leaving his seat. A locking device relieves the operator of the trouble of holding teeth down when working in unusually heavy hay. No matter how heavy the load, the Rake will not dump until the trip lever is released.



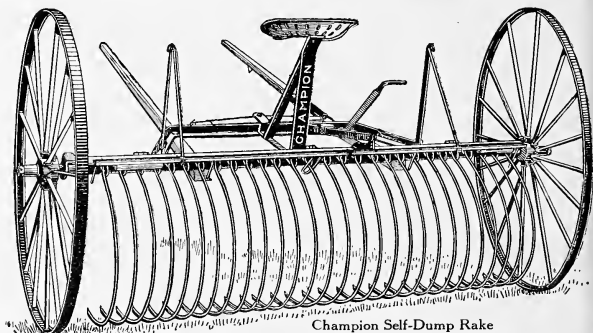
Yankee Horse Rake



Champion Improved Mower

### INTERNATIONAL TEDDERS

On International Hay Tedders the forks are provided with long coiled-steel springs which allow them to spring back when an obstruction is encountered. The springs also relieve the Tedder of the strain caused by the rapid movement of the forks. The power is applied from the center of the main shaft, distributing the strain equally over the entire Tedder. The forks have extra-wide bearings and the boxes are easy to remove. Springs between the main and till frames absorb shock and vibration. Wheels are interchangeable. Clutch and balancing levers are within easy

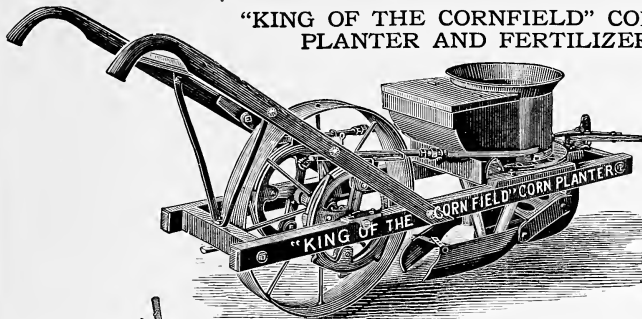


Champion Self-Dump Rake

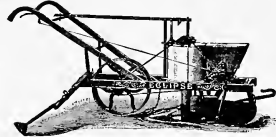
### THE YANKEE HORSE RAKE

Some of the leading points of superior excellence found in the Yankee Horse Rakes: Simplicity of construction and facility of management; adaptability to any and all conditions of surface and crops; operated by the power of the horse and the driver's feet; the rake-head is hung so as to balance the teeth; teeth running level with the ground at their points; has more teeth (which are hung nearer together) than any other Rake; all the teeth inserted and removed in less than two minutes' time, without disturbing any bolts; each tooth independent and supplied with a yielding spring that will permit the tooth to pass safely over any obstruction that the axle will pass.

**"KING OF THE CORNFIELD" CORN, BEAN, AND PEA  
PLANTER AND FERTILIZER DISTRIBUTOR**



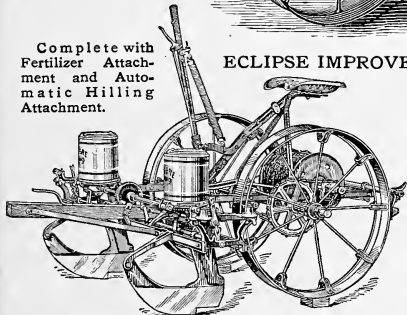
This Planter has proved itself perfectly adapted to every requirement; durable and simple in construction, not liable to get out of order, and anyone can at once understand and manage it.



Eclipse Corn Planter

**ECLIPSE IMPROVED CORN PLANTER AND FERTILIZER DISTRIBUTOR**

Complete with Fertilizer Attachment and Automatic Hilling Attachment.



Deere No. 999 Two-Row Corn Planter

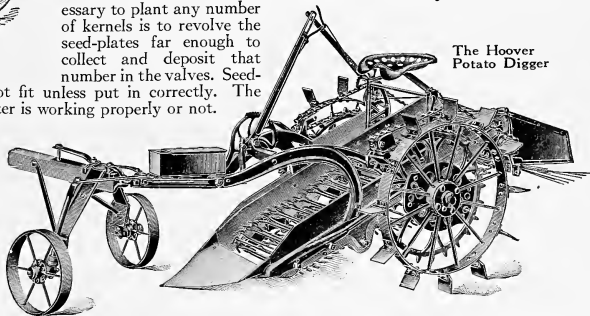
The seed is deposited in the center of the furrow made by the plow, which is constructed with concave places on each side in front of seed-gate. These form heads of moist earth which are cut off by knife edge just back of seed-gate and fall on the seed. The fertilizer is then dropped on each side of the seed. The Planter will drop in hills from 6 to 45 inches in distance. The marker attachment is simple and easily shifted from side to side. The spaces on the arm are marked with figures every 2 inches from 28 to 48 inches.

**DEERE NO. 999 TWO-ROW CORN PLANTER**

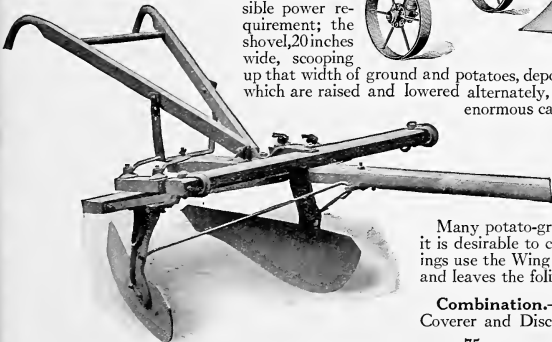
The most accurate Two-Row Planter in use today. All that is necessary to plant any number of kernels is to revolve the seed-plates far enough to collect and deposit that number in the valves. Seed-plates cannot be put in wrong, they will not fit unless put in correctly. The operator can see at a glance whether the planter is working properly or not.

**THE HOOVER POTATO DIGGER**

The Hoover Potato Digger has a great many points in its favor that cannot be found on any other machine; Its simplicity, embodying the scientific principle of separating the dirt from the potatoes with the least possible power requirement; the shovel, 20 inches wide, scooping up that width of ground and potatoes, depositing it on the elevator and separating; the carriers, which are raised and lowered alternately, and are run over a sprocket agitator, giving it an enormous capacity for separating.



The Hoover Potato Digger



**HORSE HOE OR WING COVERER**

These tools are used for hoeing and hilling corn, potatoes, and other hoed crops.

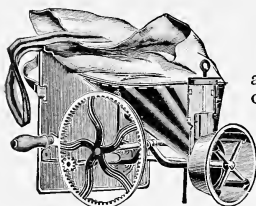
Many potato-growers use the disc hoe for the first two hillings when it is desirable to cover the young plants completely, but for later hillings use the Wing Coverer, which pushes the earth up under the plant and leaves the foliage on top.

**Combination.**—We can furnish a frame with both the Wing Coverer and Disc Coverer so that either set may be put on and used.

### CAHOON SEED SOWER

For Sowing Wheat, Barley, Oats, Buckwheat, Rye, Grass, Seed, etc.

Sows from 4 to 8 acres per hour at a common walking gait, throwing out wheat a distance of 40 feet wide. These machines are the acknowledged superior of all others of their class, and by their use a saving of four-fifths the labor and one-third the seed can be effected. A person entirely unused to sowing by hand can use this machine with perfect success. Grain Seeder Box, 10 feet, for sowing all kinds of grain.



Cahoon Seed Sower



Thompson's Wheelbarrow Sower

### THOMPSON'S WHEELBARROW SOWER

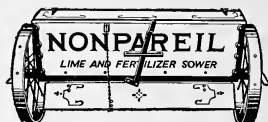
The hopper on this Seeder is made double and will do a large range of work. It sows all small seeds like clover, timothy, Hungarian rape and flax, in any quantity from 6 to 40 quarts to the acre, and millet 3 to 24 quarts to the acre. It also sows chaffy seed like red-top, orchard grass, clean blue grass, any quantity desired to the acre; sows uniformly whole length of box, 14 feet. Especially adapted to the requirements of the New England states.

### ONE-HORSE NONPAREIL LIME AND FERTILIZER SOWER

This one-horse machine was especially designed to meet the growing demand for a machine of this kind. It is the biggest little Sower manufactured, having a sowing swath of only 5 feet, 10 inches, but a capacity of 10 bushels. It has a wide sowing range and will take care of all the different kinds of agricultural lime and commercial fertilizers. This machine is equipped with both cover and screen,  $\frac{3}{8}$  inch mesh. Wheel-guards are also supplied to prevent vines and shrubbery from winding in the wheels.

Nonpareil will distribute successfully every known kind of agricultural lime and commercial fertilizer used on the farm, providing it will pass through the screen into the hopper of the sower. Commercial fertilizer is perhaps the hardest material to sow successfully, and unless it is absolutely dry it is impossible to sow in a satisfactory way less than 600 pounds to the acre.

Wet or damp material is very hard to sow with any degree of success and we do not recommend Nonpareil Sowers for this work. But they are guaranteed to work successfully when material is in fit condition to be put through a sower.



### THE STEVENS' HAND FERTILIZER SOWER

The finest Golf-Greens and Lawns can be obtained only by an even distribution of fertilizers

This Sower does the work perfectly, sowing all kinds of lawn-dressing and other commercial fertilizers, wood-ashes, lime, etc., in large or very small quantities. It can be successfully used for fertilizing strawberry beds, and for other garden and field work; is excellent for sifting wood- or coal-ashes, sawdust, or dry sand on icy walks; will also sow damp sand by removing two blades. The hopper is 34 inches long and holds  $1\frac{1}{2}$  bushels. Weight of machine, 83 pounds. It is well made and nicely painted.

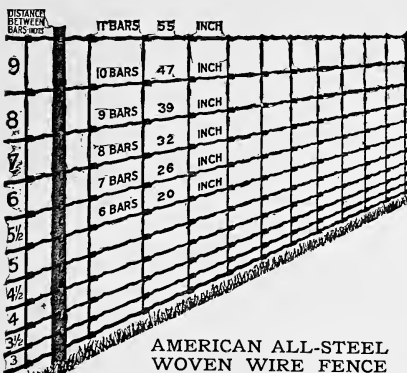


### CALCIUM SPREADER

This outfit is for hand use to spread calcium chloride to get rid of the dust that blows in from the gravel highways, roads, driveways, parks, etc., around summer resorts, fine residences, estates, cemeteries, tennis courts, speedways, athletic fields, golf grounds, and everywhere else that dust rises and blows so badly in the summer months that it spoils the grass, shrubs, etc.

This machine will also spread wood-ashes, fertilizers, ground bone, lime, commercial sheep or poultry manure, sand, and lots of other materials that heretofore have been spread with a shovel and broom. We do not offer this Spreader for long miles of gravel highways where a motor or horse machine is required, but for all reasonable-size jobs this Spreader is just what is needed.

## WIRE FENCING

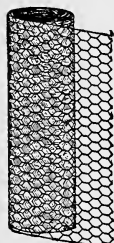


Made of Large, Strong Wires, Heavily Galvanized

Amplly provides for expansion and contraction. Only best Bessemer steel wires used. Always of uniform quality. Never goes wrong, no matter how great a strain is put upon it, does not mutilate, but does efficiently turn cattle, hogs, and pigs.

Every rod of American Fence guaranteed by the manufacturers. Call and see it. Can show you how it will save you money.

No.	Inches high	12-inch stay Price per rod	6-inch stay Price per rod
845	45	Farm Market Price	Farm Market Price
1047	47	Farm Market Price	Farm Market Price
1155	55	Farm Market Price	Farm Market Price
832	32	Hog Market Price	Hog Market Price
939	39	Hog Market Price	Hog Market Price

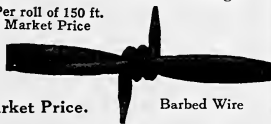


Clinton Poultry Netting

## CLINTON POULTRY NETTING

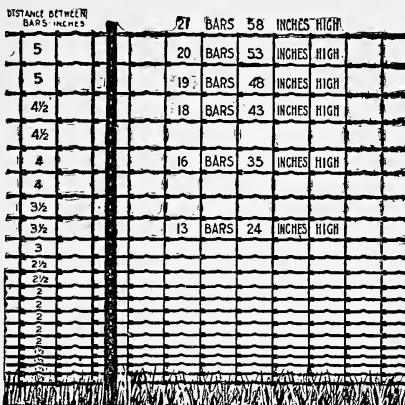
No. 19 Wire, 2-inch mesh, 1 foot high.  
 No. 19 Wire, 2-inch mesh, 2 feet high.  
 No. 19 Wire, 2-inch mesh, 3 feet high.  
 No. 19 Wire, 2-inch mesh, 4 feet high.  
 No. 19 Wire, 2-inch mesh, 5 feet high.  
 No. 19 Wire, 2-inch mesh, 6 feet high.  
 No. 20 Wire, 1-inch mesh, 1 foot high.  
 No. 20 Wire, 1-inch mesh, 2 feet high.  
 No. 20 Wire, 1-inch mesh, 3 feet high.  
 No. 20 Wire, 1-inch mesh, 4 feet high.

Per roll of 150 ft.  
Market Price



Barbed Wire

BARBED WIRE. Market Price.



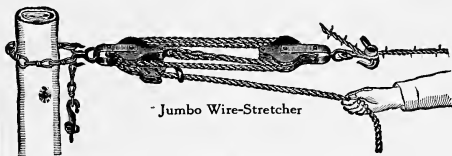
## NEW AMERICAN POULTRY FENCE

This is a fence, not a netting, and, as now made, is, without doubt, the best on the market, adequate for all requirements, in fencing against poultry, large and small. Hence, for poultry-yards, gardens, orchards, etc., it is a great favorite. Stays are 6 inches apart. Spacing from 1 1/2 inches at the bottom to 5 inches at the top. Top and bottom bar, No. 11 wire; intermediate bars, No. 13 wire; stays, No. 14 wire.

The fence costs but little more than the ordinary netting, and in all ways is far superior.

No. 1948. 6-inch stay..... Market Price

No. 2158. 6-inch stay..... Market Price



## JUMBO WIRE-STRETCHER

**For Stretching Wire.** Double-tackle block power stretchers barbed or plain wire as tight as a fiddle-string. Equipped with better than ordinary wire eccentrics—ground and fitted. Holds the wire in a grip that cannot slip.

**For Hoisting.** Enables one man to change wagon-boxes, lift gas engines, and handle heavy loads easily. A handy helper which soon pays its cost in time and labor saved. Saves time, labor, and heavy lifting.

## Stop PATCHING Your Old Roofs! Make Them LEAK-PROOF

Patching is an expensive, never-ending job. Coat your entire old roof with Stormtight, brushing it over the surface of the old roofing material. No more leaks, no more patching, no more maintenance expense—just perfect protection for years.

# STORMTIGHT

Outlasts any roofing and cost nothing for maintenance.

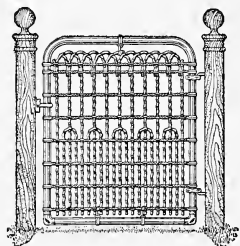
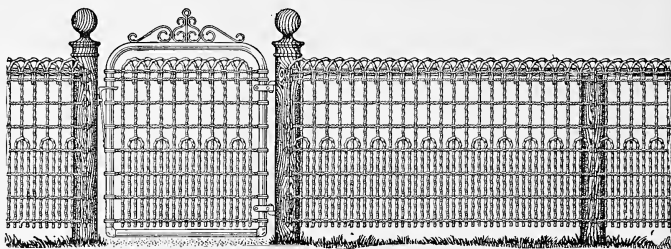
Can be applied over any old roofing whatever. Not affected by heat or cold, rain or snow. Testimonials from plant owners and householders.

## LAWN FENCE

Style "F" fabric is sanitary and attractive. It opens up the view, making gardens, lawns, and playgrounds possible.

Pickets are all No. 9 heavily galvanized wire, woven perfectly even, chicken-tight, and spaced  $2\frac{7}{8}$  inches apart at the top and  $1\frac{3}{8}$  inches at the bottom.

Best heights are 36, 42, and 48 inches. Market price.



### GARDEN GATES

Low-priced, strong, durable.

36, 42, and 48 inches are popular heights.

Market price.

Write for prices on 8-, 10-, 12-, 14-, and 16-foot Farm Gates.

### TREE GUARD

Ready to set up by clasp hooked ends.

Spiral spring protects tree, without shading, rubbing, or bruising the bark.

Made 6 feet high, of heavily galvanized wire, and 9 inches in diameter. Market price.



Tree Guard



THE COW'S THREE BEST FRIENDS

### FLOWER GUARD

Protects flower-beds in lawns, parks, and boulevards. Keeps out children, also chickens, dogs, cats, etc. Fabric may be cut to any desired length to fit any shape or size of flower-bed.

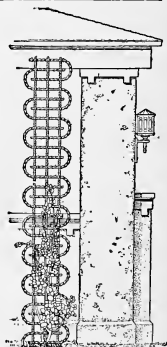


Pickets No. 9, cables No. 13 heavily galvanized wire. Made in two heights, 16- and 22-inch. Market price.

**WE GUARANTEE** that no hing but the very highest-grade materials enter into the construction of any of our Ornamental Fences and Gates, that the workmanship and construction throughout are such as will conform to every illustration and description. If upon receipt of any shipment the goods are found not to be as represented they may be returned, at our expense, and your money will be cheerfully refunded.

### SINGLE TRELLIS

Practical and durable; very attractive in appearance. Retains its shape, and can be cut to any length; well adapted for climbing vines and flowers. 18 inch, per lineal foot, market price.



Single Trellis

RED CROSS LINES



RED CROSS WINE AND FRUIT-PRESSES

	Size of screw	Size of tub outside	Weight
No. 1.....	1 1/8 x 18 3/4 inches.....	12 x 10 inches.....	72 lbs.....
No. 2.....	1 1/2 x 20 1/2 inches.....	14 x 12 inches.....	99 lbs.....
No. 3.....	2 x 23 1/2 inches.....	19 x 22 inches.....	167 lbs.....

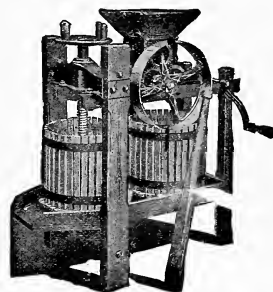
All have Heavy Iron Crosshead and Cold Rolled Steel Press-Screw.

RED CROSS HAND AND POWER CIDER MILLS

	Size of tub outside	Weight
Force Feed, 1 tub.....	14 x 12 inches.....	140 lbs.
Junior, 2 tubs.....	12 x 10 inches.....	190 lbs.
Medium, 2 tubs.....	12 x 12 inches.....	235 lbs.
Senior, 2 tubs.....	19 x 22 inches.....	345 lbs.

Capacity: Force Feed, 2 bbls. per day; Junior, 4 bbls.; Medium, 6 bbls.; Senior, 12 bbls.

The Senior is equipped with two cranks for hand operation and a heavy pulley for power.



Senior Two-Tub Mill



SELF FEED MILL

Force-Feed One-Tub Mill

Ask for general descriptive catalogue of these and the larger Mills. We will be pleased to quote the lowest market price at any time.

TRUE TEMPER SPECIAL DOUBLE-WHEEL CULTIVATOR

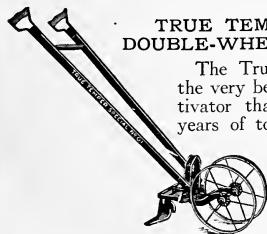
The True Temper Special is the very best Double-wheel Cultivator that nearly a hundred years of tool-making experience can produce.

Frame is made of high-grade steel. It has dust-proof, machined bearings with adjustment for

wear. The wheels run true.

Attachments are forged from tool steel, hardened and polished. Not a rivet or weld in them.

You can do more and better hoeing with it in one day than you can in three days with a hand hoe. It has an outfit sufficient for most garden work.



TRUE TEMPER EAGLE SINGLE-WHEEL CULTIVATOR

The True Temper Eagle is a Single-wheel Cultivator. Like our double-wheel True Temper Special, it is made especially for market gardeners.

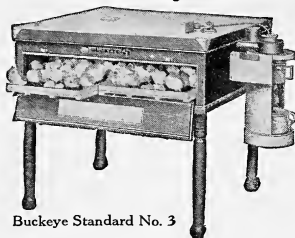
It has a steel frame with a 15-inch steel wheel, supported on each side at the axle.

Handles are made of best selected oak with handle grips that rest the hands and arms while cultivating.

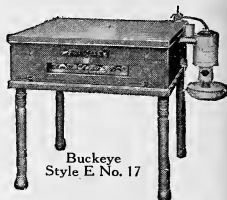
This has one pair of 6-inch hoes only—the tools that are most constantly useful throughout the season. Other attachments can be added as needed.



## Buckeye Incubators Hatch More and Better Chicks



Buckeye Standard No. 3



Buckeye Style E No. 17

There are two styles of the Buckeye Incubator—the Buckeye Standard and the Buckeye Style E. They are the result of over thirty-five years of study and experiment, and they include today every possible device for the promotion of the highest efficiency in incubation. **There are no other incubators like them.** They will hatch more chicks and better chicks than any other incubator in the world. Buckeye Standard Incubators are made with a double-thick case, the outer layer of which is California redwood. Heat insulation is practically perfect. The hot water circulating tank is of **pure copper**—it will never rust or corrode. The automatic regulator is the most perfect device of its kind ever invented—it **assures** the uniform temperature essential to proper incubation at all times and without any attention whatever. The lamp is supplied with either an oil or gas burner—each one efficient, economical in operation, dependable and **fireproof**.

Buckeye Style E Incubators are a little more simply constructed and a little less expensive in price—but they contain all the **essential features of Buckeye design**. **NOTE THIS:** Both Buckeye Standard and Buckeye Style E Incubators carry the same unlimited guarantee—to hatch every hatchable egg every time and under all conditions. You can select either type of Buckeye Incubator and be sure of the best possible hatching results.

**Buckeye Universal Thermometer**

Forscientificincubation, thermometer bulb must be exactly 1 3/4 in. above bottom of egg tray. Buckeye Universal thermometer keeps it there—it can't get out of position. Can be used in any incubator. Price.....\$1.00

### Capacities, Weights, and Prices of Buckeye Incubators

STANDARD			STYLE E		
No. 1 120 eggs (100 lbs.).....	\$37 50	No. 4 350 eggs (230 lbs.).....	\$68 00	No. 14 65 eggs ( 55 lbs.).....	\$16 50
No. 2 175 eggs (135 lbs.).....	44 50	No. 5 600 eggs (325 lbs.).....	107 00	No. 16 120 eggs ( 85 lbs.).....	27 50
No. 3 250 eggs (200 lbs.).....	57 75			No. 17 210 eggs (125 lbs.).....	36 75

## Buckeye Colony Brooders Raise Every Raisable Chick



Buckeye Oil Burner

Buckeye Colony Brooders are made in two types—coal-burning and oil-burning. The coal-burning Buckeye is made with the most scientifically designed Brooder stove ever invented. An accurate double-wafer thermostat assures uniform temperature at all times, **holds** an even fire and prevents it from going out. The oil-burning Buckeye has an extra-large wick burner, clog-proof supply line and leak-proof fuel tank. Both types are remarkably economical in operation, require attention only twice a day and are absolutely fireproof. They keep the chicks warm, contented, and lively, insuring sound, rapid growth.



Buckeye Coal Burner

### Capacities, Weights and Prices

COAL BURNING			OIL BURNING		
No. 18 500 chicks ( 75 lbs.).....	\$21 50	No. 27 200 chicks (40 lbs.).....	\$17 50		
No. 19 1,000 chicks ( 95 lbs.).....	26 50	No. 28 350 chicks (50 lbs.).....	20 00		
No. 25 1,200 chicks (109 lbs.).....	30 00	No. 29 500 chicks (60 lbs.).....	22 50		

## The Buckeye Portable Brooder

A reliable lamp-heated Brooder that assures a constant circulation of fresh, pure air. Simple and inexpensive to operate. Ideal for small flocks.

### Capacities, Weights and Prices

No. 20 60 chicks (19 lbs.).....	\$11 75
No. 21 100 chicks (23 lbs.).....	15 50
No. 22 150 chicks (63 lbs.).....	19 00

**WRITE FOR THE BIG BUCKEYE CATALOGUE.** It is the most valuable poultry book published. Tells how to feed, brood, and cull; how to pick best layers; how to secure eggs in winter, how to market for bigger profits. For Buckeye parts write for Buckeye Parts Price Book.

# Certain-teed

Quality  
Cert-ified

Roofing

Durability  
Guaran-tee'd

It means the best protection for your buildings

## Lone Star Roofing

The question of a desirable Roofing at a reasonable price presents itself to many of our customers, and in view of these conditions we wish to call to your special attention our Lone Star Roofing.

This Roofing will give the most satisfactory service under any climatic conditions, is weather- and waterproof, elastic, durable and fire-retarding. For temporary structures we recommend the use of 1-ply; for permanent buildings we recommend the use of the 2- and 3-ply. **Per roll, lowest market price.**







# Farmers and Market-Gardeners Are Cordially Invited to Make Our Store Their Headquarters when in Providence

## Number of plants to the acre at given distances

Dis. apart.	No. plants	Dis. apart.	No. plants	Dis. apart.	No. plants	Dis. apart.	No. plants
12 x 1 in.	522,720	24 x 24 in.	10,890	36 x 36 in.	4,840	60 x 60 in.	7,743
12 x 1 1/2 "	174,240	30 x 30 "	209,088	42 x 42 "	12,446	8 x 1 ft.	5,467
12 x 2 "	43,600	30 x 6 "	3,848	42 x 24 "	6,223	8 x 2 "	1,813
10 x 1 "	392,040	30 x 12 "	17,424	42 x 36 "	4,148	8 x 8 "	680
18 x 1 "	348,480	30 x 16 "	13,068	48 x 12 "	10,890	10 x 1 "	4,356
18 x 3 "	116,160	30 x 20 "	10,454	48 x 13 "	7,790	10 x 6 "	726
18 x 12 "	29,040	30 x 24 "	8,712	48 x 24 "	5,445	10 x 10 "	435
18 x 18 "	19,360	30 x 30 "	6,970	48 x 30 "	4,356	12 x 1 "	3,630
20 x 1 "	313,635	36 x 3 "	58,800	48 x 36 "	3,630	12 x 5 "	736
20 x 20 "	15,681	36 x 12 "	14,520	48 x 48 "	2,723	12 x 12 "	302
24 x 1 "	261,360	36 x 18 "	9,660	60 x 36 "	2,901	16 x 1 "	2,722
24 x 18 "	15,520	36 x 24 "	7,260	60 x 48 "	2,178	16 x 16 "	170

## Quantity of seed requisite to produce a given number of plants and sow an acre

	Quantity per acre		Quantity per acre
Asparagus, 1 oz. to 800 plants	5,000 lb.	Grass, Timothy	1 lb.
Asparagus roots	8,000 lb.	" Orchard, Perennial Rye and Wood Meadow	25 to 30 "
Barley	120 lbs.	Hungarian	50 "
Beans, Dwarf, 1 lb. to 100 feet of drill	60 "	Kale, 1 oz. to 5,000 plants, or 200 feet of drill	1 1/2 "
Beans, Pole, 1 lb. to 100 hills	30 "	Kohlrabi, 1/2 oz. to 100 feet of drill	2 "
Beet, Garden, 1 oz. to 100 feet of drill	7 "	Leek, 1/2 oz. to 100 feet of drill	4 "
Beet, Mangel, 1 oz. to 100 feet of drill	7 "	Lettuce, 1/2 oz. to 100 feet of drill	3 "
Broccoli, 1 oz. to 5,000 plants	4 ozs.	Melon, Musk, 1 oz. to 100 hills	1 to 3 "
Brussels Sprouts, 1 oz. to 3,000 plants	4 "	" Water, 4 ozs. to 100 hills	1 1/2 to 4 "
Buckwheat	48 lbs.	Millet, Golden	50 "
Cabbage, 1 oz. to 5,000 plants	4 ozs.	Nasturtium, 2 ozs. to 100 feet of drill	10 "
Carrot, 1/2 oz. to 100 feet of drill	2 1/2 lbs.	Oats	100 "
Cauliflower, 1 oz. to 5,000 plants	4 ozs.	Onion seed, 1/2 oz. to 100 feet of drill	4 to 5 "
Celery, 1 oz. to 15,000 plants	2 "	" sets, 2 lbs. to 40 feet of drill	250 "
Chicory	6 "	Parsnips, 1/2 oz. to 100 feet of drill	4 "
Clover, Alsike	4 "	Parsley, 1/2 oz. to 100 feet of drill	3 "
" Alfalfa or Lucerne	15 to 25 "	Pea, Garden, 1 lb. to 100 ft. of drill	120 "
" Mammoth	8 to 12 "	" Field	120 "
" Medium	8 to 12 "	Pepper, 1 oz. to 1,500 plants	1 1/2 "
" White Dutch	6 "	Pumpkin, 1/2 lb. to 100 hills	3 to 4 "
Corn, Field	15 "	Radish, 1/2 oz. to 100 feet of drill	10 to 12 "
" Sweet, 1 lb. to 100 hills	15 "	Rutabaga	60 to 90 "
Cowpeas, in drills	60 "	Rye	60 to 90 "
Cucumber, 1 oz. to 100 hills	1 to 3 "	Sage in drills	4 to 5 "
Dill, 1/2 oz. to 100 feet of drill	5 "	Salsify, 1/2 oz. to 100 feet of drill	8 "
Eggplant, 1 oz. to 2,000 plants	4 ozs.	Squash, 1/2 oz. to 100 feet of drill	10 "
Endive, 1/2 oz. to 100 feet of drill	1 1/2 lbs.	" Winter, 8 ozs. to 100 hills	2 "
Garb, Blue, Kentucky	15 to 20 "	" Winter, 8 ozs. to 100 hills	2 "
" Millet, Japanese	25 "	Tomato, 1 oz. to 2,000 to 3,000 plants	1 to 2 "
" Mixed Law	60 to 100 "	Turnip, 1 oz. to 250 feet of drill	90 to 120 "
" Red-Top Fancy	15 "	Vetch, Spring	30 to 60 "
" Rhode Island Bent	25 to 40 "	Wheat	60 to 90 "

## Standard weights of various articles

Barley	Per bush, 48 lbs.	Corn, Field, on ear	Per bush, 70 lbs.	Millet, Common	50 lbs.	Rye	56 lbs.
Beans	60 "	" Sweet	50 "	Millet, German or Golden	50 "	Sorghum	50 "
Buckwheat	48 "	Grass, Hungarian	48 "	Peas, smooth	60 "	Vetch or Tare	60 "
Clover	60 "	" Timothy	45 "	" wrinkled	56 "	Wheat	60 "
Corn, Field, shelled	56 "	Hemp	40 "	Rape	50 "	Oats	32 "

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**SEEDS AND  
FARM IMPLEMENTS**

*The* **W. E. BARRETT CO.**  
**PROVIDENCE, RHODE ISLAND**