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HAWKEYE SEED COMPANY

Des Moines Iowa.



1904

Instructions to Customers and Correspondents

Order Early—This is more advantageous to us and our customers, but we are prepared to give your orders prompt attention whenever received.

Please use Order Blank whenever convenient.

Give Name, Postoffice and State every time you write to us. If you are on a rural route be sure and give the number. It will save delay.

Remit Money by postoffice money order, express money order or bank draft. If these are not convenient send registered letter. Postage stamps received as cash.

Discounts—We pay cost of remitting by allowing party sending cash with order for garden and flower seeds to amount of one dollar or more to select free additional seeds to amount of ten per cent of the order at prices quoted in this catalogue.

No Charge for Packing or delivering to freight depots or express offices in Des Moines, Iowa.

Charges Prepaid—All vegetable and flower seeds, bulbs and plants, except those noted, are sent prepaid by mail or express by the best route, unless otherwise ordered, and guarantee their safe arrival.

No Goods C. O. D. unless one-half the amount accompanies order, unless by previous agreement.

Errors—We use the greatest care to prevent mistakes, but when they occur will make satisfactory correction. Please keep correct copy of your order for comparison.

Large and Small Orders are alike given careful and prompt attention.

Market Gardeners and others using large quantities of seed will please write for market gardeners' wholesale price list.

Shipping Facilities—Des Moines, being one of the largest railroad centers in the United States, has every facility for prompt and direct shipment in any direction by freight, express or mail.

Questions—Parties desiring to ask us for information pertaining to our business are invited to do so. We will endeavor to reply at consistent length.

Non-Guaranty—As responsible seedsmen we use every effort to send out tested seeds—sure to germinate and true to type—and should any seed prove generally defective will make such reparation as we consider just, in common with other seedsmen. While we exercise the greatest care to have all seeds pure and reliable, we do not give any warranty, expressed or implied. If the purchaser does not accept the seeds on these terms and conditions, they must be returned at once and the money paid for same will be refunded.

Address all letters and make all orders payable to

HAWKEYE SEED CO.,

208-210 Seventh Street

DES MOINES, IOWA

TO OUR CUSTOMERS

We desire to thank those who have favored us with their patronage in the past and hope we may be favored with your orders in the future, and it has always been our earnest desire to merit the same.

To old and new customers we wish to say that in putting out this seed annual we do it for your benefit. We do not claim any enormous or outrageous yields for anything that we have listed in it, but we do claim that our seeds are the best that can be obtained, and thoroughly tested in every way before they leave the house, and under favorable conditions will surely give satisfaction. We are perfectly willing to have our stock placed in competition with those of any other firm, knowing well they will stand the test.

Since issuing our last catalogue we have greatly increased our storage room and we are now better prepared than ever to handle all orders promptly.

Trusting we may be favored with a share of your orders, we are,

Very respectfully,

HAWKEYE SEED COMPANY.

Retail store 208-210 Seventh St.
Seed Farms, Berwick, Iowa.

OUR AIM!

Reliable Seeds at Fair Prices.

A Catalogue which gives enough varieties to suit the varying conditions of soil, season and customers' tastes, but does not confuse the endless varieties which differ only in the eyes of an expert. In the following pages we have endeavored to offer the most standard old, and some new varieties, which have shown themselves to be of some merit. These we think will cover the wants of the market gardener as well as for home use.

New Varieties. We do not list them out of alphabetical order. They are few in number but well recommended. Try them in a moderate way and you will gain experience.

Our Experience. No one can be a reliable seed man who cannot give intelligent, or who will not give honest advice to the customer who asks it. We will give our customers any reasonable amount of time to answer inquiries in person or by mail.

A Seed Store. We aim to allow no side line to divert us from our main business. Garden tools, poultry supplies, etc., are closely related and fit into our business.

Personal Attention. By concentrating our business we are enabled to give the details an amount of personal care impossible where widely different departments are carried on.

Prices. Our prices are based on the value of good seeds. We try to see how good and not how cheap seeds we can give for the money. We give each customer the lowest price and a *discount which applies to all seeds purchased at postpaid prices.*

Garden Seeds. We aim to recommend what the experience of others and ourselves is desirable in old and new varieties. Growers of vegetables have a valuable lesson to learn in selecting varieties which, planted at one time, give a supply in succession. We try to list as near as possible in order of earliness.

Flower Seeds. We all like flowers. We offer you a moderate list of time-tried favorites and well recommended candidates for public favor.

Farm Seeds. We have no apology to offer when we claim to be able to intelligently and honestly offer a list of farm seeds, and recommend varieties for different soils, latitudes, etc., with a knowledge based on practice.

Fruit Plants. We offer you a select list of fruit plants.

Garden Tools. Up-to-date machinery means everything. Buy tools adapted to your work. We offer you that selection in horse and hand tools.

Fertilizers, Insecticides, Spray Pumps, Traps, Fruit Baskets, Fruit Boxes, and miscellaneous items whose price and quality are important to the gardener and fruit grower, we are prepared to supply.

HAWKEYE SEED CO., DES MOINES,
IOWA

Special Bargain Collections of Seeds

You will notice that this year we list all vegetable packets at five cents per packet, whereas in the two previous years they have been three cents per packet.

When we first commenced business we put up our three cent packet equal to any five cent packet sold elsewhere, but this year we have decided to put up a larger packet and make it five cents straight. We absolutely guarantee that you will receive more seed in proportion to the price of the two packets.

We sincerely trust that our customers will not let this interfere with their purchase of seeds this spring.

We are making the following special offers on packets this year of which you cannot fail to take advantage. We do this to introduce our seeds, we wish to get them into every community where seeds can be grown. We send out no seed that has not undergone a thorough test as to germination, we do this to protect our customers as well as ourselves. If you have never grown our seed send for one of our collections, and judge for yourself as to their quality.

These are all sent postpaid. **BARGAIN SEED COLLECTIONS** *We make no discount or change.*

25c. COLLECTION NO. 1. 25c.
10 packets for 25c.

\$1.00. COLLECTION NO. 3. \$1.00.
40 Packets for \$1.00.

Beans, Valentine
Beets, Crosby's imp. Egypt.
Cucumber, White Spine.
Cabbage, Henderson summer.
Lettuce, Hanson.
Tomato, Dwarf champion.
Radish, Sct. globe.
Peas, Premium gem.
Turnip, White Milan.
Salsify, Mam. Sandwich Island.

Beans, Germ. black wax.
Beans, Dreer's bush Lima.
Beet, Crosby's imp. Egypt.
Beet, Dewing's turnip.
Cabbage, H's summer.
Cabbage, All seasons.
Carrot, Chantenay.
Sweet Corn, Red cory.
Sweet Corn, Country gent.
Celery, White plume.
Cucumber, Long green.
Cucumber, White spine.
Lettuce, Hanson.
Lettuce, Grand Rapids.
Endive, Green curled.
Leek, American flag.
Egg Plant, Purple.
Kohl rabi, Purple Vienna.
Musk Melon, Osage.
Musk Melon, Hackensack.

Watermelon, Kolb's gem
Watermelon, Cole's early
Watermelon, Dixie.
Pepper, Bell or bull nose
Pepper, Cayenne.
Peas, First in market.
Peas, Premium gem.
Onion, Wethersfield.
Onion, Prize-taker.
Parsnip, Hollow crown.
Parsley, Champion curled
Salsify, Sandwich Islands.
Radish, Scarlet globe.
Radish, Lady finger.
Radish, Chartier.
Tomato, Dwf. Champion.
Tomato, New Hawkeye.
Squash, Hubbard.
Spinach, Long standing.
Squash, Summer crook-neck.

50c. COLLECTION NO. 2. 50c.
20 Packets for 50c.

Beans, Germ. black wax.
Beans, Valentine.
Cucumber, Long green.
Beet, Eclipse.
Carrot, Chantenay.
Celery, Golden heart.
Cabbage, Henderson.
Lettuce, Grand Rapids.
Sweet Corn, Red cory.
Onion, Wethersfield.
Radish, Lady finger.
Watermelon, Kolb's gem.
Watermelon, Cole's early.
Musk Melon, Osage.
Peas, Premium gem.
Peas, Champ. of England.
Parsnips, Hollow crown.
Spinach, Long standing.
Tomato, Dwf. champion.
Endive, Green curled.

CUSTOMERS DISCOUNT

Customers sending \$1.00 may order to amount of \$1.10.	
" " 2.00 " " " " " " 2.20.	
" " 3.00 " " " " " " 3.30.	
" " 4.00 " " " " " " 4.40.	
" " 5.00 " " " " " " 5.50.	

This includes only packets, ounce, quarter pounds, half pounds, pounds, half pints, pints and quarts, all of which are sent postpaid. If you are a market gardener or use any great quantity of seed, write to us and we will be pleased to send you our special price list.

A LIST OF VEGETABLE SEEDS ASPARAGUS

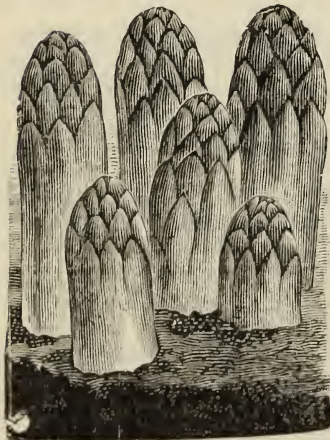
An ounce will sow fifty feet of drill.

Sow seed late in the fall or early in the spring as soon as ground can be worked, in drills one foot apart, and one inch deep, firming the soil over seed, soaking seed in warm water for twelve hours before planting is a good plan. When plants are well up thin to three inches apart in the row and keep free from weeds. Transplant, the following spring in deep rich beds. Every year after the first cutting, beds should be given a good top dressing of manure and salt. Just before winter cover beds with three inches of straw or leaves and remove early in the spring.

Columbian Mam. White Sprouts are white and remain so as long as they are fit for use. Pkt. 5c., oz. 7c., $\frac{1}{4}$ lb. 20c., lb. 60.

Conover's Colossal. A large rapid grower of excellent quality, packet 5 cents, ounce 7, $\frac{1}{4}$ pound 12, pound 45.

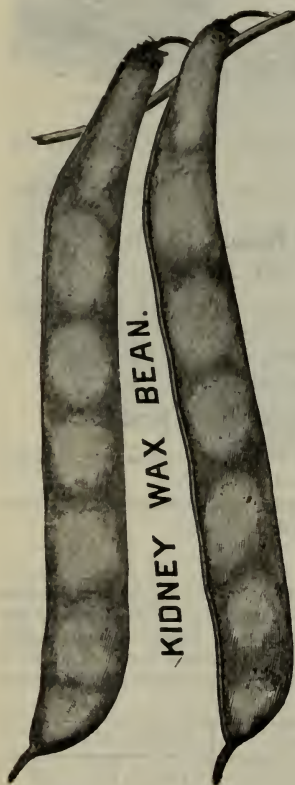
Palmetto The earliest variety and a quick grower, a very good yielder, packet 5c., oz. 7, $\frac{1}{4}$ lb. 15, lb. 50.



Columbian Mammoth White.

Asparagus Roots

A great deal of time and trouble may be spared by planting the roots; you can do this either in the fall or spring. Plant in well manured ground in trenches about two feet apart and ten inches apart in the row. Put them at least six or eight inches deep. We supply the following; in very fine roots. See Roots and Plants page 27.



Bush Beans

Yellow Podded Varieties One quart to one hundred feet of drill, two bushels to an acre.

German Black Wax. The earliest and best of the yellow podded varieties. Pods are round, medium length, and thickness, yellowish white and of fine flavor. It continues in bearing from 35 to 40 days, but later the pods are not as large as the later sorts. The best snap short bean for the home garden. Vine is dwarf and compact.

Golden Wax. Pods are large, tender, entirely stringless and of a rich golden color, it excels as a snap bean, and as a sure bean for winter it has no superior. Vine is dwarf and compact.

Golden Wax, Rust Proof. Much like the preceding variety only bred to resist as far as possible the beans' worst enemy—rust.

Kidney Wax, Wardwell's. This variety is as early as the golden wax, but grows taller, pods are long, waxy, stringless and of a nice golden color. It is the heaviest yielder of the yellow podded beans. We recommend it especially for the market garden.

White Wax. A new white, rustless, wax-podded bean, matures quick and is very productive, slow to harden, retaining their juicy flavor for days after they are ready to pull, pods are round, white and very fleshy. A good variety for the market gardener.

Yosemite Mammoth. The pods frequently attain a length of 10 to 12 inches are nearly all solid pulp and absolutely stringless, cooking very tender and delicious, a rich golden color, very productive and a favorite with the market gardener.



Yellow Podded Bush Beans

Pkts 5c each, Postpaid

	Postpaid		Exp. or Freight	
	PINT	QUART	PECK	BUSHEL
German Black Wax. Very early, extra fine flavor.....	.25	.45	1.75	6.00
Golden Wax. Known by everyone, very productive.....	.25	.45	1.75	6.00
Garden Wax, Rust Proof. Bred to resist rust.....	.25	.45	1.75	6.00
Kidney Wax, Wardwell's. Very prolific, waxy pods.....	.25	.45	1.75	6.00
White Wax. Yellow pods and white bean.....	.25	.45	1.75	6.00
Yosemite, Mammoth. Gives generous return of golden pods	.40	.65	2.00	7.50

Bush Beans, Green Podded

Early Mohawk. Earliest green podded variety. Can be planted in colder ground than other sorts. Mostly grown in the south for northern markets.

Stringless Green Pod. Two weeks earlier than the Valentine. Pods are long, round, thick-meated and exceptionally stringless.

Valentine Improved. More robust and vigorous than the common Valentine; produces an abundance of round thick-fleshed pods, very uniform in ripening.

Bush Lima

Henderson's Bush Lima. Earliest of the Limas. Yields an abundance of fine beans. Its quality makes it a favorite with the market gardener.

Dreer's Bush Lima. Pods are medium sized, having three or four thick beans in them, easily shelled and of very fine quality.

Burpee's Bush Lima. Bush is very compact and large, growing from 18 to 20 inches in height. Yields abundance of large, well flavored beans.

Bush Beans That Shell

One Quart to 50 Hills in Rows Three Feet Apart

Dwarf Horticultural or Speckled Cranberry.

This bean requires more attention and care than other varieties. It yields medium sized pods, well filled with large beans. Both bean and pod become splashed with red toward maturity, as soon as beans will shell, which is when pod is yet green; they furnish one of the ingredients of the toothsome succotash.

White Navy or Pea Bean. A well known variety, considered the best for working purposes. It is also valuable as a field bean.

White Kidney. An excellent shell bean for using as a green bean succotash. One of the best for winter use.

Soja or American Coffee Berry. Sometimes roasted and used as coffee, excellent as a forage and fertilizer crop. Write for prices on larger quantities.

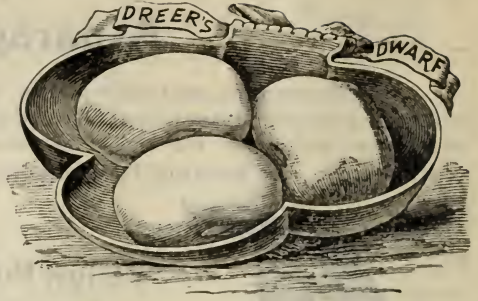
Pole Lima

One Quart to 50 Hills, Two Feet Apart

Dreer's. The earliest pole bean, medium sized pods. When green, beans are large as a large Lima, very productive, fine flavor. Best for short seasons.

Large Lima. An old favorite, well adapted for home and market garden.

King of Garden. In habit and growth it is similar to White Lima, but matures much earlier, it makes a continuous yield to end of season. Pods are from 6 to 8 inches long containing many rich flavored beans.



Pole Beans, Shell

One Quart to 50 Hills

Cut Short or Corn Hill. Does well in corn, but will not stand crowning.

Dutch Case Knife. An excellent corn bean. Large white bean, nothing better for cooking.

Pole Beans, Snap Podded

Lazy Wife's. Pods 6 to 8 inches long, entirely stringless, a fine flavor when cooked.

Kentucky Wonder or Old Homestead. Very prolific, bearing its pods in clusters.

BEAN CULTURE

Beans do the best in sandy loam, and as they are tender annuals all danger of frost must be past before planting. They should be planted in drills, an inch deep, and twelve inches apart, drop beans about every three inches in row. The dwarf varieties require no support. One pint package will supply abundance for home use. A continuous supply can be had by planting the hardiest, therefore, the earliest varieties at first and follow at intervals of two to four weeks with the others up to the first of July. For horse cultivation have rows two and a half to three feet apart.

Bush Lima and Pole Beans Full Size Packet 5 cts.	Postpaid		Exp. or Freight	
	PINT	QUART	PECK	BUSHEL
Early Mohawk. Very early pods, flat beans good quality...	.25	.40	1.25	5.25
Stringless Green Pod. New and early, long thick-meated pods.....	.25	.40	1.25	5.00
Valentine. A standby, pods long, round and thick-fleshed.....	.25	.40	1.25	5.00
Bush Lima				
Henderson's Bush Lima. Very early, beans numerous....	.25	.50	2.00	
Dreer's Bush Lima. Pods medium sized, easily shelled.....	.30	.50	2.50	
Burpee's Bush Lima. Large beans, extra fine flavor.....	.25	.50	2.25	
Dwarf Horticultural. Large beans, good for succotash.....	.25	.40	1.75	
White Navy or Pea Bean. A standard variety.....	.20	.35	1.50	5.00
White Kidney. Fine for shelling.....	.20	.35	1.50	5.00
American Coffee Berry. A good fertilizer.....	.20	.35	.75	2.75
Pole Beans				
Dreer's. Best for short seasons.....	.25	.50	3.00	
Large Lima. An old favorite.....	.25	.45	3.00	
King of Garden Lima. Very productive.....	.25	.50	3.00	
Cut Short on Corn Hill. Best for shelling.....	.25	.50	3.00	
Dutch Case Knife. None better for cornfields.....	.25	.45	3.00	
Lazy Wife. Entirely stringless, rich flavor.....	.25	.50	3.00	
Kentucky Wonder. Very productive, best for snaps.....	.30	.50	3.00	

TABLE BEETS

One Ounce to Fifty Feet of Drill.



Market Garden. A very productive, turnip-shaped, but skin is a smooth red, and flesh remains red after cooking. It matures early and has given the very best satisfaction as a bunch beet. It is the best market garden beet known.

Dewing's Improved Blood Turnip. A splendid variety for late summer, fall and winter keeping crops. Skin smooth, flesh dark red with white bonds. It is very productive and a general favorite with all market gardeners.

Swiss Chard, Silver or Sea Kale. It is superior to any other beet for greens. The waxy mid-ribs may be cooked as asparagus or used like celery.

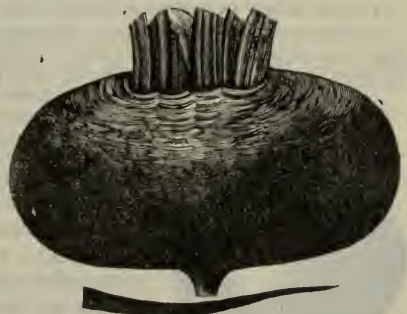
Half Long Blood. A very fine beet half way between the slow growing long and the quick maturing turnip shaped varieties. The flesh is a rich dark red, very sweet and tender. If these are sown the same time as earlier varieties they keep a supply of tender beets without the trouble of repeated sowings. No variety better for winter use.

Edmand's Blood Turnip. One of the most productive varieties grown. Not a first early but it follows very closely, and is the most uniform of all turnip beets. The roots are round and very smooth, a good marketable size and for table use it has no equal.

Crosby's Imported Egyptian. This is the earliest variety under cultivation. It is a great improvement on the old Egyptian, it is more handsome, thicker, and its shape is more regular, it is very smooth and red with small tops. When small it is excellent for bunching and for cooking it has no equal. Its general good qualities make it a favorite with the home and market gardener.

Early Eclipse. Second in earliness to Crosby's, turnip shaped, deep red and smooth skin. One of the best table beets. Very productive and good for bunching.

Detroit Dark Blood. Turnip shaped, color extra dark red, uniformly good shaped, flesh crisp and sweet, a fine second early variety.

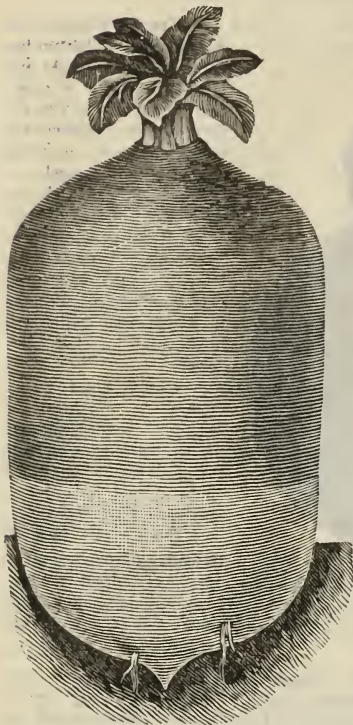


Dewing's

TABLE BEETS A LIST OF THE BEST VARIETIES	Postpaid		Postpaid	
	PACKET	OUNCES	¼ lb.	POUND
Crosby's Improved Egyptian. The earliest variety known . . .	.05	.07	.20	.65
Early Eclipse. Fine shape, smooth skin, a good seller . . .	.05	.07	.15	.50
Edmand's. A main cropper . . .	.05	.07	.15	.50
Market Garden. Good size, fine for table . . .	.05	.07	.20	.60
Dewing's Improved Blood Turnip. Good for winter use . . .	.05	.07	.20	.60
Half Long Blood. Very good for continuous crop . . .	.05	.07	.15	.50
Detroit Dark Blood. Good for home and market gardens . . .	.05	.10	.25	.75
Sugar Beet. Preferred by some . . .	.05	.05	.15	.40
Swiss Chard, Silver or Sea Kale. Grown for greens . . .	.05	.10	.20	.65

Mangel Wurzels or Stock Beets

We List Only the Best Varieties Grown for Stock Feeding.



Golden Tankard.

Mangel Wurzel as a stock beet is rapidly coming to the front; try some this year and be convinced. Our experience favors sowing in April or May, in drills sixteen or eighteen inches apart, depending on hand and wheel hoe cultivation. If your soil is deep and mellow we recommend the **Long Red**, if shallow try the **Golden Tankard** or **Yellow Globe**; when planted early they need less attention, for they soon shade the ground so completely that the weeds cannot grow, and in this way they also retain the moisture. The results from their use is very gratifying as is shown in the improved condition of animals, the increased yield of milk in cows and the great saving of hay and fodder. They can be raised at a very low cost and produce immense crops—cases have been known where they yield 2,000 bushels to a single acre. Dairy men claim that it is the best conditioner for horses, hogs and cattle. Full cultural directions will be sent on application. Use five or six pounds to the acre.



Giant Long Red.

Giant Long Red—Largest Mangel Grown

One Ounce to 50 Feet of Drill—Five or Six Pounds to an Acre.

This is king of all the mangels. Growing one-half above the ground as it does, it reaches an immense size; when conditions favor, it sometimes weighs 50 pounds to the single beet, producing twenty-five tons or more per acre. It is very nutritious, and fed to cows in winter it produces an increased flow of milk, resembling in color and quality the same that is produced from grass in June. Many of the western farmers who have grown this variety pronounce it the best grown. It is a general favorite with farmers and dairymen.



Yellow Globe.

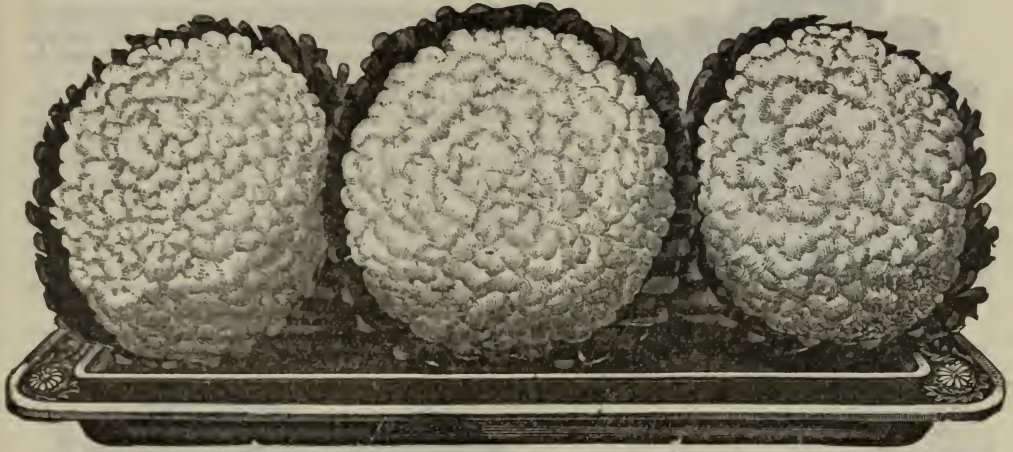
Golden Tankard. Shaped exactly like cut, easily harvested as it grows out of the ground. A better variety for thin soil than long red. It is an excellent yielder, yellow flushed, having less water and more sugar than other varieties. It increases the flow of milk and imparts its yellow color to it. If you have never raised beets for stock be sure and include this variety in your list. Dairy men and stock men are making a larger demand for this every year.

Yellow Globe. This is the best variety for this soil, very easily harvested, and with reasonable conditions it will readily repay for labor and room. The flesh being firm and fine grained makes it an excellent keeping variety. The best yellow beet under cultivation.

	OUNCE	Postpaid 1/4 lb.	POUND
Giant Long Red. Best for deep mellow soil. . . . .	.05	.10	.35
Golden Tankard. Best variety for cows. . . . .	.05	.10	.35
Yellow Globe. Well adapted to thin soil . . . . .	.05	.12	.35

Five pounds of any variety not postpaid \$1.00

CAULIFLOWER



EARLY SNOWBALL

An Ounce to Fifteen Hundred Plants.

One of the best varieties of cauliflower under cultivation, it is the earliest and surest to make a head. Its dwarf habits, and the outer leaves being so short it can be planted as close as 18 or 20 inches apart. It is very profitable to raise under the glass, and is the best market variety. We consider we make no mistake in listing this variety only. We can recommend it for late as well as early planting. Don't fail to include this in your list of seeds this year. Price postpaid, packet 20c., $\frac{1}{4}$ oz. 60c., oz. \$2.00.



Oxheart.

smooth, fine shaped, flesh a deep orange color, very large shouldered and medium early. Price per packet 5c., oz. 10c., $\frac{1}{4}$ lb 20c., lb. 65c.

Danver's. It is in form about midway between the Shorthorn and Long orange varieties, growing generally with a stump root; it is a rich dark orange color, grows very large, is smooth and the flesh is very close in texture with the core. It is a first class carrot for any soil, and under proper cultivation will yield the greatest weight per acre for length of its roots than any other carrot grown. It is very sweet and tender, an excellent table variety, popular with the market gardener. Price per packet 5c., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 65c.

Oxheart. This is the most valuable variety under cultivation. In size it is half way between the Half long and the Scarlet Horn sorts, it grows very large at the shoulder, making it an elegant shape, color deep orange. On account of its extreme shortness it is easily harvested. It produces a continued supply of the best roots during the entire season. A splendid variety for hogs and cattle. Raise this variety for your stock. Price per packet 3c., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 65c. Five pounds of any variety, not postpaid, \$2.50.

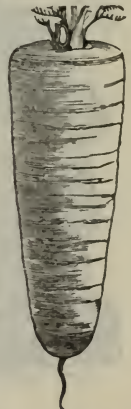
CARROTS

One oz. to 150 Feet of Drill, Four lbs. to an Acre.

Be sure to raise some carrots for your horses and cattle.

Early Scarlet Horn. Stumprooted, early variety, very popular for feeding and bunching. Tops are small, flesh orange, a fine variety for flavoring. It is also well adapted for early outside growing. Price, packet 5c., oz. 10c., $\frac{1}{4}$ lb 20c., lb. 60c.

Chantenay. This is a stump rooted variety, uniformly



Danver's

Reliable Cabbage Seed

One Ounce Will Produce About 1500 Plants.

The following is a carefully selected list that will enable the intelligent grower to meet the demand for summer, fall and winter cabbage. We have aimed to avoid duplication and list distinct varieties, not mere strains.

Early Jersey Wakefield. The earliest and best. Ever since the date of its introduction it has been a deservedly popular variety, for in point of usefulness it has no superior. The heads assume a conical shape, are very fine grained and well shaped, it has but few outside leaves, and for this reason can be planted closer. We offer a good strain of exceptionally pure seed.

Henderson's Summer. It is about ten days later than the Wakefield but fully twice as large, heads are somewhat flatter. It is decidedly the best large early cabbage grown, and is very popular with market gardeners. Keeps longer without bursting than any other variety.



Early Jersey Wakefield.

Early Winningstadt. A well known, popular variety. One of the best for general use, being very hardy and sure to head, it seems to suffer less from cabbage worm than any other variety; heads are conical and very hard, a good keeper for winter. As a second early cabbage it has no equal, a good one for the market.

All Seasons or Vandergaw. This well known variety is second in earliness to Henderson's summer, heads being larger and more solid, it can be planted when too late for other varieties, does well any part of the season, it is first class for fall and winter use. Very sure to make a head, one of the best sorts for the market gardener.

Surehead. This popular variety produces large round flattened heads of uniform size, very solid and of fine texture. Its strong point is that it is sure to head even in most unfavorable seasons. None better for keeping or shipping, a general favorite with large growers.

Premium Flat Dutch. Heads are large and very solid, crisp, white and tender, and with ordinary good cultivation are sure to head, because of its few outer leaves and its compact growth it can be planted close, in this way it produces more to the acre than any other sort. It is a genuine favorite for the fact that seed can be sown in open ground, thus avoiding the use of hot beds, as a shipper and for winter market it has to superior. Our



Surehead.

strain of seed is excellent. We especially recommend this to marketmen.

Short Stem Drumhead. This is one of the best late varieties. Heads are well formed and solid, very large at the base, ripening evenly as it does, crop can be harvested at almost a single cutting. The general fine keeping quality of the head makes it an excellent shipper. It is always sure to head.

Drumhead Savoy. The best late Savoy variety. Heads are large, compact, finely curved and an excellent keeper, does not do so well in extreme hot weather, but makes its best growth in September and October, it has no superior of its kind as a winter cabbage.

Holland or Danish Ballhead. It thrives well on thin soils and in highly exposed situations, the heads are a good marketable size, are very large, round and heavy. It is one of the few imported sorts which produces heads that will keep through the winter. Our strain of seed in this is the best.

Mammoth Red Rock. This is the best, largest and surest heading red cabbage under cultivation, heads are a rich deep red to the core. Heads sometimes reach 12 inches



Premium Flat Dutch.

in diameter. **Cabbage and Allied Vegetables and How to Grow, sent postpaid 50c.**

RELIABLE CABBAGE SEED BEST VARIETIES	Postpaid		Postpaid	
	PKT.	OUNCE	1/4 LB	POUND
Early Jersey Wakefield. The best of early varieties.....	.05	.25	.60	2.50
Henderson's Summer. Earliest flat headed sort .....	.05	.20	.60	2.00
Early Winningstadt. Fine, large, solid heads .....	.05	.20	.60	2.00
All Seasons or Vandergaw. Does well any part of the season	.05	.20	.60	2.00
Surehead. A very reliable header .....	.05	.20	.60	2.00
Premium Flat Dutch. Best for late fall and winter crop.....	.05	.20	.50	1.75
Short Stem Drumhead. Largest late variety .....	.05	.20	.50	1.75
Drumhead Savoy. A very good variety. ....	.05	.20	.60	2.00
Holland or Danish Ballhead. Very hard head—long keeper	.05	.25	.75	2.50
Mammoth Red Rock. Deep red color—very solid.....	.03	.25	.75	2.50

SWEET CORN

THE BEST VARIETIES

One quart plants 250 hills; six to eight quarts per acre.

Daybreak. Known to be the earliest sweet corn grown. A dwarf variety. Ears four to six inches long, covered tightly by husks. Grown mostly for home use.

Extra Early Cory. A standard first early variety, popular with market gardeners for first early market. It is of dwarf growth, medium sized ears, well filled.

Extra Early White Cory. Next in earliness to White Cory, but has white cob. Ears are six to eight inches long, closely covered by husk. Well flavored and a quick seller.

Early Champion. The earliest corn of good size under cultivation. Is very sweet and tender. Kernels are full of milk. Best for table use.

Early Minnesota. A fine second early variety. Ears large, well filled and excellent quality. A favorite with market gardeners.

Early Crosby. One of the most desirable varieties for general crop and medium early use. Unsurpassed for home or market.

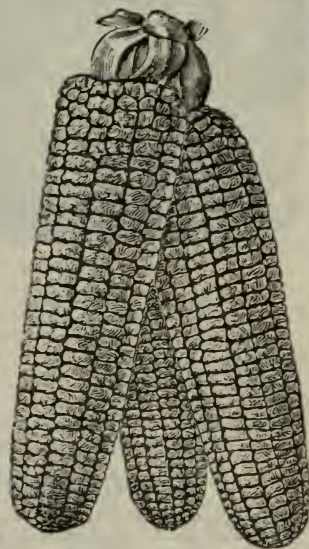
Country Gentlemen or Shoe Peg. A second early variety, with deep grains irregularly arranged. Ears fair sized, fine flavor, rich and tender.

Egyptian. A large variety, somewhat resembling the Evergreen. Flavor very rich and sweet. A main cropper.

Hickox. Large sized, good quality. A week earlier than Stowell's.

Livingston's Evergreen. Great favorite with market men. Plant as late as July 1st. Ears very large, well filled to tip with large kernels. Very productive; small cob. For early feeding makes an excellent fodder. Will out sell any late corn in market.

Stowell's Evergreen. Ears are medium sized; grains deep and tender, remaining so for a long time. A favorite with canners and market men. We have an extra fine strain of seed to offer.

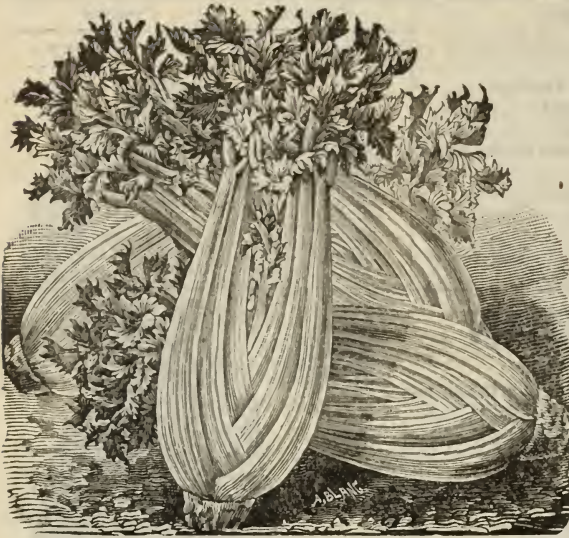


WHITE COB CORN



LIVINGSTON'S EVERGREEN

Our Prices on Sweet Corn Large Packets 5c	Postpaid		Exp. or Freight	
	PINT	QUART	PECK	BUSHELS
Daybreak. Earliest out.....	.25	.45	1.75	6.00
Extra Early Cory. Standard variety .....	.20	.35	1.25	4.00
Early White Cory. Has white cob .....	.20	.35	1.25	4.00
Early Champion. Good sized ears .....	.20	.35	1.25	4.00
Early Minnesota. Second early.....	.20	.35	1.25	4.00
Early Crosby. A favorite.....	.20	.35	1.25	4.00
Country Gentleman. Unexcelled for table use.....	.20	.35	1.25	4.00
Egyptian. Main cropper.....	.20	.35	1.25	4.00
Hickox. Week earlier than Stowell's.....	.20	.35	1.00	3.50
Livingston's Evergreen. Large ears—highest quality.....	.20	.35	1.00	3.50
Stowell's Evergreen. Largest sized—main cropper.....	.20	.35	1.00	3.50



WHITE PLUME CRESS

One ounce to 25 feet of drill.

Sow thickly, cover lightly. Requires frequent sowings to have continuous supply.

Curled Garden Cress. Best variety. Does best in cool weather. Pkt. 3c; oz. 7c; $\frac{1}{4}$ lb. 15c; lb. 50c.

Water Cress. Will thrive along edges of shallow water. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

Cucumber

One ounce to 50 hills; two pounds to an acre.
Slug Shot is the best remedy for Bugs. Five pounds, 35c, not postpaid.

Early Green Cluster. A short, prickly, early variety, bearing in clusters near the root. Color pale green. It is well noted for its productiveness, early maturity and prolificness. A good table variety.

Forcing White Spine. A strain of White Spine which has been improved through careful selection with a view to use for forcing in hothouses or frames. Desirable as an early variety for home or market. Dark green color. Fruit set near the roots of the vines.

Improved White Spine. The best variety for all purposes, and for this reason it is very popular. Very productive. Color beautiful green at pickling stage. Fine shape, and the best variety for slicing. Fruit is medium size, from six to eight inches in length and two to three inches in diameter. An excellent early shipper, highly recommended for home or market garden.

Improved Long Green. This variety has taken the lead all through the country as the most productive variety under cultivation. We know of no other variety that we would sooner recommend for general garden culture than this. It is also excellent for forcing and one of the best selling cucumbers on the market. The young fruits are of the finest shape and quality for pickles. They are very long and dark in color. They are excellent for slicing and when ripe are good for preserving. Market gardeners know and appreciate it.

Chicago Pickle. This is considered by every one to be the best variety for pickles, and being of fine flavor it is also valuable for slicing. The dark green fruit is of medium length and pointed at both ends.

CELERY

One ounce for 2,000 plants.
CELERY CULTURE.

The non-professional grower should buy for early crop, plants started in hot beds in March; for late fall and winter crop, plants can be had from seed sown in April. Sow the seed shallow, barely covering, in a bed made very fine. Keep surface of bed continually moist, by frequent waterings, covering it with coarse cloth or lath screen. When plants are size of straw, transplant to two inches apart. Transplant from field from June 1st to middle of July. Plants should be shaded a few days if weather is clear. Draw earth up closely around them to protect stalk and make them grow upright. Blanching for winter use is best done in cellar or cave.

White Plume. It possesses the crispness, rich nutty flavor and long keeping qualities peculiar to the white sorts. Appearance attractive and quality the best; habit of growth strong and vigorous. Price, postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c.

Golden Heart. Very early, small size, rich flavor. Its height makes it very desirable to grow on limited room. When blanched, head is light yellow. Price, postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c.

Golden Rose. Stocky growth, smooth, solid and crisp, good appearance, fine flavor, a strong, healthy grower. Blanching qualities well fixed—put away in fall and blanch for winter use. Pkt. 5c; oz. 35c; $\frac{1}{4}$ lb. \$1.15, postpaid.

Golden Self-Blanching. The best variety for fall and early winter use. Grows large size, very crisp and tender. By its manner of growth, it needs slight banking to put in good condition. Pkt. 5c; oz. 30c; $\frac{1}{4}$ lb. \$1.00, postpaid.

CELERIAC

(TURNIP ROOTED CELERY.)

A celery in which root is used instead of the stalk. Plant and cultivate same as celery. Used mostly for flavoring.

Giant Prages. Large, smooth variety. Good for market and excellent keeper. Pkt. 5c; oz. 20c.



EARLY GREEN CLUSTER

Cucumber—Continued

Emerald. Its evergreen quality retains that rich dark green color so desirable until it is fully ripe. Very prolific, with smooth spineless skin. Its color, size and handsome shape makes it in great demand for pickles. Flesh is crisp and tender, good for early forcing and for slicing it is unsurpassed. The fruit sets early and its vigorous vines abound in long handsome fruits of the most desirable quality. It is the best shipping variety.

Small Gherkin or Burr. A novelty from West Indies. A very small oval variety grown extensively for pickles. Prolific to an extraordinary degree. Very slow to germinate. Should be pickled when young.

Serpent or Snake. A very interesting curiosity. The cucumbers grow curled like a snake with head protruding, and often reach a length of four to six feet. Of fair quality—sometimes used for the table, but grown more on account of its peculiar shape.



EMERALD CUCUMBER

USE SLUG SHOT FOR BUGS.

CUCUMBERS AT LOWEST PRICES

A SELECTED LIST

	Postpaid		Postpaid	
	PACKET	OUNCE	¼ lb.	POUND
Early Green Cluster. Earliest variety.....	.05	.10	.35	1.00
Forcing White Spine. Desirable for home and market.....	.05	.10	.35	1.00
Improved White Spine. Good shape—fine for slicing.....	.05	.10	.35	1.00
Long Green. Fine quality for pickles.....	.05	.10	.35	1.00
Chicago Pickle. Very prolific—best for pickles.....	.05	.15	.55	1.50
Emerald. Best for general use.....	.05	.10	.35	1.00
Small Gherkins. For bottling pickles.....	.05	.10	.35	1.00
Serpent or Snake Cucumber. An interesting curiosity.....	.05	.10	.35	1.00



LARGE THORNLESS

EGG PLANT

One ounce makes 1,000 plants.

Large Purple. The standard market and home table strain. Plant is strong and vigorous. Pkt. 5c; ¼ oz. 20c; oz. 35.

Pearl White. Resembles the preceding in everything but color; a creamy white shade of green around stem.

ENDIVE

One ounce to 150 feet of drill.



GREEN CURLED

Green Curled. The hardiest variety. Has handsomely curled green leaves, which blanch white, crisp and tender. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.40.

Broad Leaved Batavian. Forms large heads of thick broad leaves, preferred for flavoring soups. When blanched is excellent in salads. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

Gourds

Dipper. Can be used for dipper. Growing on trellis, their weight causes them to grow straight. Very handy, easily prepared and durable. Pkt. 5c; oz. 15c.

Nest Egg. An ornamental climber. Gourds are very useful as nest eggs. Pkt. 5c; oz. 25c.

Dish Cloth or Luffa. Requires a long season. Lining of fruit sometimes used for a dish cloth. Has ornamental blossoms. Pkt. 3c; oz. 25c.

Sugar Trough. Thick durable shells. Can be used for many purposes. Pkt. 3c; oz. 15c.

Hercules Club. Often grows four to eight feet long. Pkt. 3c; oz. 15c.

Ornamental Sorts. Many beautiful shapes and colors mixed. Pkt. 3c; oz. 15c.

One packet of each of the above for only 10c.



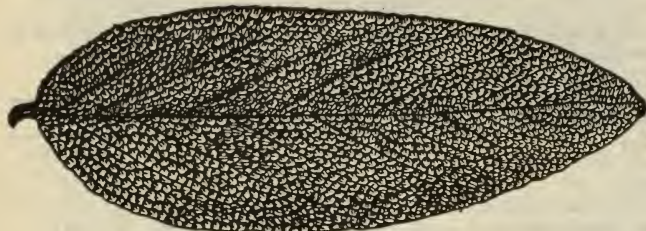
HERBS

Herbs delight in a rich mellow soil. Sow the seed early in the spring in shallow drills one foot apart. When up a few inches thin to proper distance. Care should be taken to harvest them on a dry day, just before they come into full bloom; dry quickly in the shade, pack closely in dry boxes to exclude the air entirely.

	Pkt.	Oz.		Pkt.	Oz.		Pkt.	Oz.
Anise	5	15	Dill.....	5	10	Sweet Marjoram....	5	15
Balsam Apple.....	5	20	Fennel, Sweet.....	5	10	Saffron	5	15
Basil, Sweet.....	5	15	Hoarhound	5	25	Sage	5	15
Borage	5	20	Lavendar.....	5	20	Savory, Summer....	5	10
Caraway.....	5	10	Rosemary.....	5	40	Thyme.....	5	25
Coriander.....	5	10	Rue	5	15			

HOLT'S MAMMOTH SAGE

This large leaved variety has been tested for years and we recommend it to be far superior to the old sort. It yields more leaves to the plant than a dozen of the common sage. Plants are strong, grow a foot high, and spread from two to three feet the first season. The leaves are borne well up from the ground, are clean, strong in flavor and of excellent quality. Perfectly hardy, even in extreme northern states. This variety does not produce seed; hence we offer strong rooted plants only, which are ready during April or May. Each 8c; two for 15c; four for 25c; doz. 60c, postpaid. 100, \$3.00, not prepaid.



KOHL RABI

When young and tender they are fine for table use, better as a rule than early turnips—sweeter and more tender. For early use sow in hot bed and transplant like cabbage. For winter use sow about middle of June in rows 18 inches apart, thinning to three inches in the row.



Early White Vienna—Flesh is white and tender. Best for forcing for early market. Pkt. 5c; oz. 20c; ¼ lb. 60c.

Early Purple Vienna—Color is purple, and a little later than the white. Pkt. 5c; oz. 20c; ¼ lb. 60c

LEEK

May be sliced for salad, or cooked and served as onions. Plants are hardy and will stand freezing. Sow seed early, in drills and keep well hoed and free from weeds. Blanch early in fall.



American Flag—Very large. Pkt. 5c; oz. 10c.

Large Musselburg—Fine flavor. Pkt. 5c; oz. 10c

LETTUCE

One ounce to 2,000 plants.

The following list, though small, will readily cover the season. Sow in open ground just as soon as frost is out deep enough to use a garden rake. When plants are up a few inches, if heads are wanted thin to six inches apart each way. Have the soil rich, and if season continues cold and moist fine plants can be grown. All varieties are injured by hot dry weather. For later use sow on north side of a high fence or under lath screen. If the hot bed is used, start it quite early. Don't give much heat, but plenty of water and air on fine days. Thin plants out or they will become weak. One-half ounce will sow 100 feet of drill.

Black Seeded Simpson This is the first early lettuce. It does not form a head, but rapidly forms a large mass of beautiful crisp, curly leaves, very light in color. It retains its tenderness longer than any other variety. One of the very best for growing under glass.



Black Seeded Simpson

Lettuce—Continued



IMPROVED HANSON

Improved Hanson—This variety forms the most perfect heads of any. When planted early, thinned to

six inches apart and given proper care, it produces heads that are creamy white inside and very tender. It may be sown thickly and used satisfactorily at any stage of its growth. Its fine qualities have made it very popular, and it retains its friends. An excellent variety for the market. Longer in running to seed than any other.

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

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

Prize Head—Specially desirable for home gardens. Too tender for markets unless delivered direct to customers. It forms a dense cluster of brownish red leaves that are remarkably sweet and tender. It is slow to run to seed and retains its good condition for a long time. Don't fail to include this as one of your varieties for this year.

The Best Lettuce Seed

Special Prices to Market Gardeners

	Postpaid		Postpaid	
	PKT.	OUNCE	¼ LB.	POUND
Black Seeded Simpson —The earliest grown.....	.05	.10	.30	1.00
Improved Hanson —An early head variety.....	.05	.10	.30	1.10
Grand Rapids —Best for forcing.....	.05	.10	.30	1.00
Buttercup —Fine for the market.....	.05	.10	.30	1.00
Prize Head —Beats them all for family use.....	.05	.10	.30	1.10

Mustard

One ounce to 150 feet of drill.

A salad used with cress or for greens. Sow in rows. Cut when two inches high.

White English—Mild and tender when young. Pkt. 5c; oz. 7c; ¼ lb. 20c.

Southern Giant Curled—Popular in the south. Pkt. 5c; oz. 15c; ¼ lb. 30c.

Rhubarb



Succeeds well in rich soil. Sow in spring in drills; thin plants to six inches apart.

Victoria—Standard. Pkt. 5c; oz. 15c; ¼ lb. 40c.

Linneaus—Largest. Pkt. 5c; oz. 15c; ¼ lb. 40c.

Roots, by mail, 15c each. Not prepaid, 8c.

MUSHROOMS

Mushrooms can be grown in several different ways—in houses for the purpose, in cellars, in sheds or in the meadow providing there are no pipes underneath. To make them grow mix rich manure with one-fourth of its bulk of loam, when it retains temperature of 85 or 90 degrees, make holes with dibble four inches apart, into which put a piece of spawn about an inch square, covering it over well. After ten days spread fresh loam over bed two inches thick. Plant in August for crop in December. Price: per lb. 25c; five lbs. \$1.10 postpaid.

MUSKMELON

One ounce to 50 hills; four lbs. per acre.

Melons thrive best in a light, rich soil. Plant early in May, when the ground has become warm and dry, in hills six feet apart each way for muskmelons and eight feet for watermelons. It is best to put some well rotted manure in each hill when planting. When plants are a foot high, pinch off the tops, as it strengthens the vines and makes fruit mature earlier. Give plenty of water, and occasionally feed liquid manure.



NETTED GEM

Netted Gem—One of the earliest and best small melons grown. Globular in shape, very uniform in size and weight, flesh light green and of very fine flavor. Exceedingly productive and will keep for nearly a week after being picked. Excellent for shipping.

Muskmelon—Continued

Emerald Gem—One of the sweetest melons under cultivation. Comes into bearing about the same time as *Netted Gem*. It is medium sized, deeply ribbed, not netted, but smooth and handsome. The flesh is orange colored, thick, very sweet and delicate flavor. It ripens early and is very prolific. Rind is dark green. The only extra early variety having salmon flesh.

Rocky Ford—Well known as a fine table melon. Fruit is medium sized, globular in shape. Flesh light green, thick, very sweet and high flavored. An excellent shipper. We offer selected stock in this.

Early Green Nutmeg—This is the best variety under cultivation for family use. Vines vigorous, hardy and productive. Fruit round, slightly flattened at both ends, ribbed and covered with coarse netting. Flesh scented, thick, sweet and of the highest flavor.

Extra Early Hackensack—One of the best general crop green fleshed nutmegs now offered. Round, well netted, large size. Flesh green, thick and a delicious flavor. Beautiful in appearance. Very prolific and a favorite for the market. Our strain of seed in this is excellent.

Tip Top—Yellow flesh. Uniformly good through the season. Slightly netted. Vines vigorous and prolific. A standard market melon.

Perfection—This variety has given general satisfaction on account of its extra fine quality. It is of nutmeg shape and quite large size, sometimes weighing six to eight pounds each. The skin is a dark green color, heavily netted, and for this reason they are in great demand on the market. Flesh is very thick, salmon color, and very rich flavor.

Osage or Miller's Cream—The great popularity which this melon has attained is due largely to its peculiar luscious, spicy flavor and its perfect shipping qualities. The dark green skin is very thin and slightly netted. The salmon flesh is extremely thick

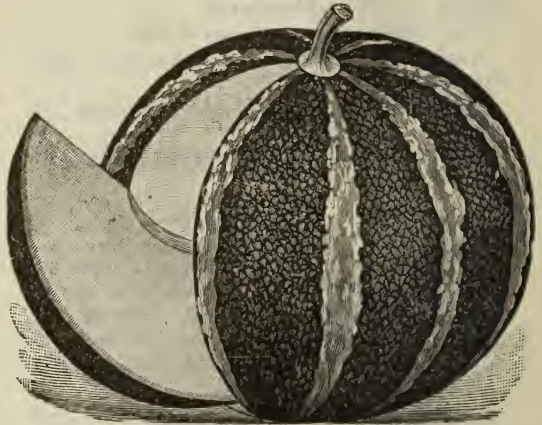


ROCKY FORD

and remarkably sweet. It is an excellent keeper and will stand shipping better than any other melon grown.

Cream Canteloupe—Large size, medium early and a good shipper. Yellow fleshed and highly flavored. A reliable sort for restaurants and hotels.

Winter Pineapple—Must be stored in order that it may ripen; best for fall and winter use.



EARLY GREEN NUTMEG

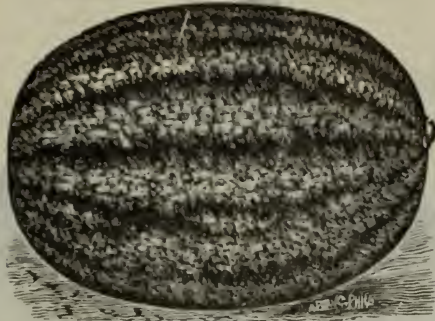
The Finest Muskmelons

Special Prices to Marketmen

	Postpaid		Postpaid	
	PKT.	OUNCE	¼ LB.	POUND
Netted Gem —Earliest and best small melon.....	.05	.12	.35	.90
Emerald Gem —Sweetest on the list.....	.05	.10	.25	.85
Rocky Ford —Well known as a fine table melon.....	.05	.10	.30	.85
Early Green Nutmeg —Fine flavored; good size.....	.05	.10	.25	.75
Extra Early Hackensack —One of the best for general crop..	.05	.10	.25	.85
Tip Top —A standard market melon.....	.05	.10	.25	.85
Perfection —A general favorite.....	.05	.10	.25	.75
Osage or Miller's Cream —Best shipper and keeper.....	.05	.10	.25	.75
Cream Canteloupe —Splendid full flavored sort.....	.05	.10	.25	.75
Winter Pineapple —For fall and winter use.....	.05	.10	.25	.75

WATERMELON

One ounce for 30 hills; two lbs. per acre.



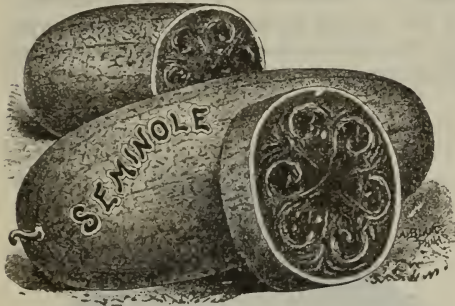
PHINNEY

Watermelons require about the same soil conditions as the muskmelon. Plant early in May in hills eight to ten feet apart each way, putting eight to ten seeds to the hill. Hoe often and thoroughly.

Extra Early Phinney—The first early variety. Medium and uniform in size and a beautiful form. One of the best melons for main crop under cultivation. Smooth skin, with white mottled and dark green stripes. Flesh light red; very sweet and delicious.

Cole's Early—Early enough to plant where melon season is short. Color, green, striped with lighter shades. Oval in shape. Flesh red, crisp and sweet.

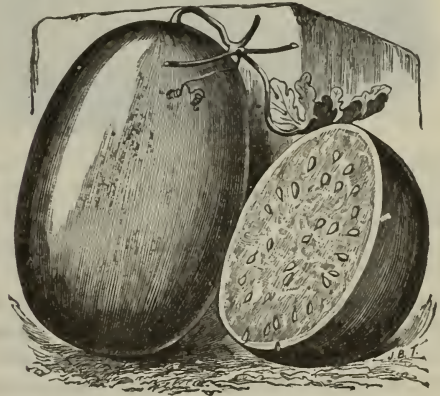
Seminole—One of the best large long melons. Very early and productive. Flavor is delicious. It has two colors—gray and light green, both growing on the same vine.



Fordhook—The largest early melon. Round, medium green, flesh bright red and of fine quality. Rind is very tough, making it valuable for shipping.

McIver's Sugar—Medium early, having the finest flavor of any melon known. It is a very large melon, averaging about 30 pounds. The skin is mottled, with broad bands of white and narrow ones of green. Rind is thin and tough. Flesh is light red, tender and of a delicious flavor.

Peerless or Ice Cream—Medium early. Nothing better listed for main crop, for the home or near markets. Medium sized, oval shaped, color very light green, finely netted. Crimson flesh of very delicious flavor. Seeds white.



Pride of Georgia—Medium early. Color dark mottled green. Good size and quality. An excellent shipper.

The Dixie—This new watermelon has excellent merits and we can recommend it as being the best shipper. It is larger, earlier and more productive than Kolb's Gem. It is fine in appearance and its flesh is unexcelled.

Kolb's Gem—Grown largely in the south. Fruit is nearly round. Dark green, mixed with light shades.

Preserving Citron—Used for preserving. A round handsome fruit of small size.

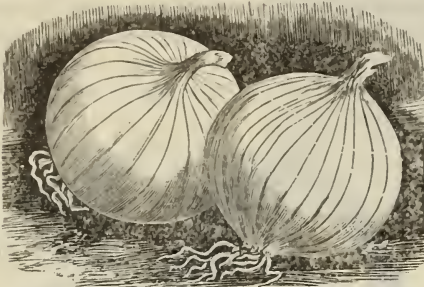
Watermelons Worth Growing

	Postpaid		Postpaid	
	PKT.	OUNCE	¼ LB.	POUND
Extra Early Phinney —The first to ripen.....	.05	.07	.15	.50
Cole's Early —Does well on short season.....	.05	.07	.20	.60
Seminole —Very large and productive.....	.05	.07	.20	.60
Fordhook —The largest early melon.....	.05	.07	.20	.60
McIver's Sugar —Finest flavored of them all.....	.05	.10	.15	.60
Peerless or Ice Cream —Nothing better for home use.....	.05	.07	.15	.50
Pride of Georgia —Good size and quality.....	.05	.07	.15	.50
The Dixie —A reliable cropper.....	.05	.07	.15	.50
Kolb's Gem —The great shipper.....	.05	.07	.15	.50
Preserving Citron —Used for preserves.....	.05	.10	.25	.75

Superior Onion Seed

One ounce to 150 feet of drill; four lbs. to an acre.

Onion seed should be sown in the spring as soon as the soil can be worked readily. Sow thickly in drills one inch deep and one foot apart, in strong, well-manured land. When about four inches high thin to three about inches apart in row, keeping them well hoed and free from weeds.



White Barletta—Positively the earliest onion under cultivation, used mostly for pickling. Pure white, mild and delicate. Well adapted to table use, and if grown by the transplanting method makes a very good bunch onion.

Large White Globe—Sometimes called Southport White Globe. It produces handsome, well shaped bulbs. A good yielder and has the finest table qualities. To produce the best white onions requires good seed, rich land and careful harvesting. They should not stand too long before pulling after they have ripened, and should be cured in the shade. Our strain of seed is the finest that can be obtained.

Large White Globe (Northern grown seed)—Grown from select stock to produce the highest type of white globe onions. Large sized, globular in form, skin and flesh a pure white. We suggest that you include this as a part of your onion seed order, and try a high grade seed.

Yellow Globe Danvers—Known everywhere as a very heavy yielder of superior quality. Medium large, attractive color, well shaped with small neck. They are good keepers, excellent for shipping, and will sell readily on the market.

Red Globe (Southport)—Matures for main crop. It is round, glossy and dark red color. It produces large crop on favorable soil, and is a good keeper.

Large Red Globe—Nothing finer offered in Red Globe seed. It is grown to supply the particular onion growers who want something for critical customers. Plant some alongside of other stock and compare them. Good for fall or winter use. Skin a very glossy deep crimson.



LARGE RED GLOBE

Australian Brown—It is of medium size, wonderfully hard and solid, and most attractive for market both as to form and appearance. They are extremely early in ripening, and never make any stiff necks. It is about four weeks earlier than the Red Wethersfield. Will keep in good condition longer than any other onion. The skin is a clear amber brown, and the quality sure to please. Fine for winter use.



AUSTRALIAN BROWN

THE BEST GARDEN PEAS

Peas thrive better in ground that has been manured for a previous crop. For dwarf varieties you can hardly make the ground too rich. Sow the early varieties as soon as ground can be worked, in rows two to three inches deep and two to three feet apart, according to manner of cultivation. For a succession sow every two weeks until June. In the middle of July a good crop can be obtained by sowing the extra early sorts. They should be kept clean with hoe or cultivator, and earthed up at least twice during growth. Wrinkled varieties are not so hardy as smooth ones, and if planted early should be planted in dry soil. The following, so far as possible, are listed in order of maturity. Our stock of peas are grown in the far north; thus they are early maturing, vigorous and free from bugs.

One quart sows 80 feet of drill; two to three bushels per acre.

Alaska—An early dwarf variety, which can be planted while the ground is yet cold. It is the earliest pea under cultivation. Any market gardener who wishes an early pea of the best quality should have this on his list this year. It bears long straight pods, well filled with peas of the finest quality. Ready to pick in fifty days.

First in Market—A dwarf variety only a few days later than the Alaska, and not so hardy. Quality the best, and on account of its hardiness can be planted from ten to fifteen days earlier than the wrinkled varieties. It requires no support and seldom grows over twenty-four inches high. The pods are straight and handsome, full of medium sized peas of superior quality. It is exceedingly productive for an early variety. For even ripening it is unexcelled, as almost the entire crop can be harvested at one picking, so that ground may be cleared and replanted. Bears in fifty-five days.



FIRST IN MARKET

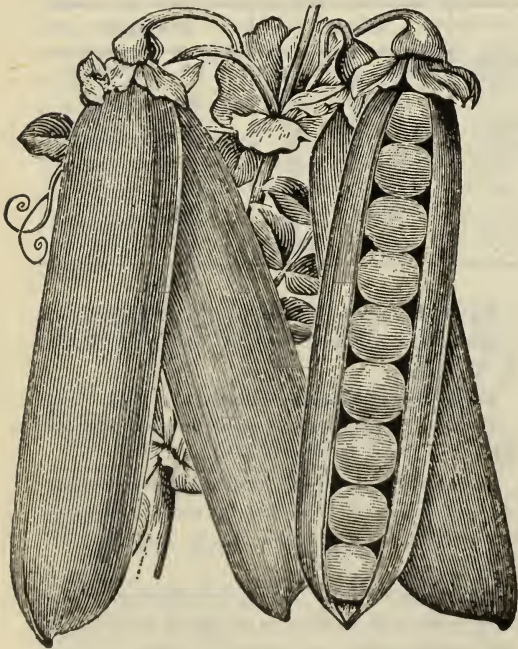
Premium Gem—A very fine dwarf wrinkled pea of the Little Gem type, on which it is an improvement, having larger pods and being more productive. A very profitable one for the home or market garden. Ready to pick in sixty days.

Gradus—An extra early wrinkled pea. It is large, of the finest quality, and nearly as early as the smooth sorts. The vine grows about thirty inches high. The pods are of a bright green color and measure four inches or more in length, and well filled with luscious peas of first class table quality, and retain their color and appearance after cooking.

Nott's Excelsior—One of the earliest and best dwarf peas under cultivation. The pods are about three inches long and each one is filled with six to eight peas of the finest quality. It not only yields more heavily in bulk of pods than any other dwarf varieties of the same season, but also of shell peas. A standard for home or market garden. Ready to pick in fifty-five days.

Everbearing—A half dwarf wrinkled second early sort, very productive. Peas large, tender and well flavored. Continues long in bearing.

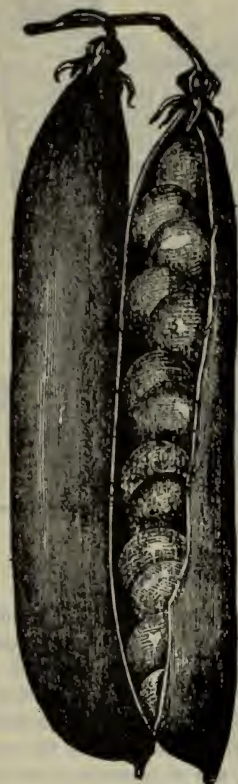
American Wonder—The earliest wrinkled pea grown and constantly coming into general use. It is a wrinkled dwarf of robust habit, growing from ten to fifteen inches high, and producing a profusion of good sized, well filled pods of excellent quality. The pea is a little above the average in size, very sweet and delicious. Ready to pick in fifty days.



NOTT'S EXCELSIOR

GARDEN PEAS

Continued



GRADUS

Advancer—Half dwarf wrinkled second early variety, bearing well filled long pods, tender and delicious. It is a very sure bearer; ready to pick in sixty days.

Telephone—A half dwarf wrinkled sort, elegant shape, very productive. Pods large and well filled with fine flavored peas.

Stratagem—A half dwarf wrinkled second early variety, vigorous and productive. Pods are long and well filled with peas of excellent quality. An enormous cropper.

Champion of England—A fall late wrinkled variety, bearing peas of the very best quality. It is necessary to support it to obtain the best results. Ready for market in eighty-five days.

Large White Marrowfat—A tall, late, smooth pea. An enormous cropper; very popular with the market gardener. Ready in eighty days.

PEANUTS

Early Spanish—Earliest; fine quality. Postpaid: pkt. 5c; ½ lb. 20c; lb. 35c.

Mammoth Virginia—Largest grower. Postpaid: pkt. 5c; ½ lb. 20c; lb. 35c.

PEPPERS

One ounce to 1500 plants.



Bell or Bull Nose

Coral Gem Bouquet—Small; very fine; extremely hot. Used in making pepper sauce. The plant is ornamental, and often marketed on the bush. Prepaid pkt. 5c; oz. 30c.

Cayenne (Chili)—Small, red and very hot. Used in pickles. Prepaid: pkt. 5c; oz. 25c.

Long Red Cayenne—Beautiful and productive. Four inches long and a half inch or more in diameter. Flesh thick and hot. Prepaid: pkt. 5c; oz. 25c.

Large Bell or Bull Nose—An early variety of mild flavor. Rind is thick and fleshy. The most popular for making mangoes. Prepaid: pkt. 5c; oz. 20c.

Large Sweet Mountain—Very large and excellent for mangoes. Prepaid: pkt. 5c; oz. 20c.

Mammoth Ruby King Mango—The largest of all. When ripe are bright red: always pleasant and mild. The best to raise on poor soil. Prepaid: pkt. 5c; oz. 20c.

Mammoth Golden Queen—A very large yellow sort. Good shape and fine for mangoes. Prepaid: pkt. 5c; oz. 25c.

PEAS

Large Packets 10c, Postpaid

	Postpaid		Exp. or Freight	
	PINT	QUART	PECK	BUSHEL
Alaska—Earliest out.....	.25	.45	2.00	7.00
First in Market—Very hardy.....	.25	.45	2.00	7.00
American Wonder—First wrinkled.....	.25	.50	2.25	8.00
Premium Gem—For markets.....	.25	.45	2.00	7.00
Gradus—Very productive.....	.35	.60	3.25	11.00
Nott's Excelsior—Standard of the market.....	.25	.50	2.25	8.00
Everbearing—The long bearer.....	.25	.45	2.00	7.00
Advancer—Sure bearer.....	.25	.45	2.00	7.00
Telephone—Fine quality.....	.25	.45	2.00	7.00
Stratagem—An enormous cropper.....	.25	.45	2.00	7.00
Champion of England—Good bearer.....	.20	.40	1.75	6.50
Large White Marrowfat—Best cropper.....	.15	.30	1.00	3.50

PARSNIPS



Guernsey

Sow early in the spring, as soon as the ground can be worked readily, in drills fifteen inches apart and one-half inch deep, in rich, well dug and well manured ground. Cultivate similar to carrots, and when plants are well up thin to six inches in the row. It will greatly improve the roots to leave them in the ground during the winter, saving enough in the cellar or pits for immediate use.

One ounce to 100 feet of drill: five pounds to an acre.

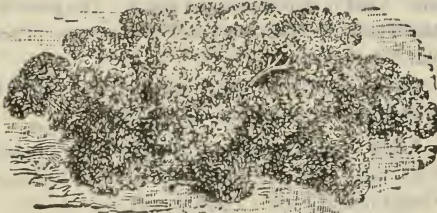
Large Sugar or Hollow Crown—The best variety under cultivation for general use. It has all the points of excellence so desirable to a market gardener, in size, shape, smoothness, and extra sweet rich flavor. It does not crack open and commands a higher price on the market than any other. Be sure you grow some of this seed. Postpaid: pkt. 5c; oz. 7c; $\frac{1}{4}$ lb. 15c; lb. 50c.

Guernsey—An improved strain which has given general satisfaction. The roots are not quite so long as those of the Hollow Crown, but are larger in diameter and more easily harvested. Price, postpaid; pkt. 5c; oz. 7c; $\frac{1}{4}$ lb. 15c; lb. 50c.



Hollow Crown

PARSLEY



Champion Moss Curled

Parsley is used in seasoning soups, etc., for salads and garnishing. Sow early in rows one foot apart. Sow thickly and cover about one-half inch deep.

Double Curled—A fine dwarf. Postpaid: pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c.

Champion Moss Curled—Beautifully crimped and curled. A free grower and best for summer, as it will not turn yellow. Postpaid: pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c.

Fern Leaved—New, dark green, robust grower; a fine summer variety, very desirable for table decorations. Postpaid: pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c.



Non Plus Ultra

Choice Radishes

Radishes do better in a light, rich soil, and in order to bring out their mild quality they must make quick growth. For early use sow in hot beds in winter or very early in the spring, or later on in some sheltered place, well manured and deeply dug. Sow in drills ten inches apart and thin to two inches in the row. For a continued supply, sow at intervals of two or three weeks until September. Sow the winter varieties in July or August. They must be taken up before the frost and stored in a cool cellar or pit during the winter. Freshen them with cold water before using.

One ounce to 100 feet of drill.



New Leafless

New Leafless—This is the earliest radish grown, and an excellent one for forcing. Olive shaped, with scarcely any leaves. It derives its name from the fact that the roots develop faster than the leaves. A fine bright color and excellent flavor. It is desirable for bunching and sells readily on the market. Try some of our seed in this; it is first class.

RADISHES—Continued

Non Plus Ultra—This is one of the very best and most valuable radishes for either the home or market gardener. It is one of the best for forcing, being of a fine round form and bright scarlet color. The flesh is tender and of delicate flavor.

Early Scarlet Turnip—A small, round, red, turnip shaped radish; small top and a very quick grower. Very mild and crisp when young. Excellent for bunching for the market.

White Tipped Scarlet Turnip—A radish handsome in appearance and excellent in quality. Color a deep scarlet; white tipped; good for forcing and a standard variety with the market men.

White Turnip (White Box)—This is similar to the Scarlet Turnip, except in color, which is a pure white. It is just a little later and will bear heat longer without getting spongy.

Early Scarlet Globe—One of the best sorts for outdoor planting as well as forcing. Its color is attractive; flavor mild, crisp and juicy. Stands a great amount of heat without becoming pithy.

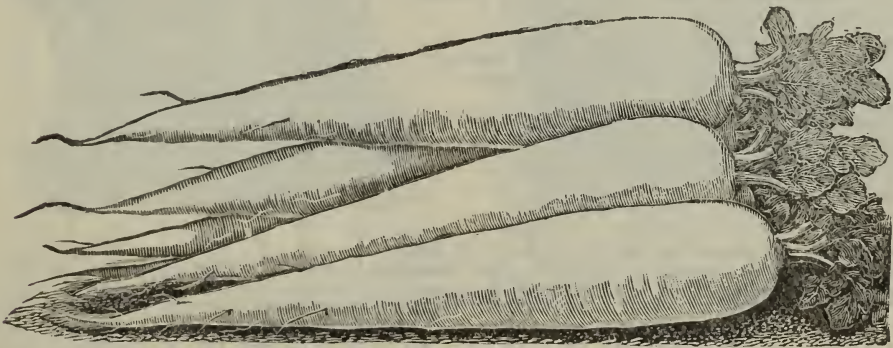
French Breakfast—Medium sized; color light scarlet, white tipped. Quick grower; tender and delicious. An excellent variety for the table, and one of the best for forcing.



SCARLET GLOBE

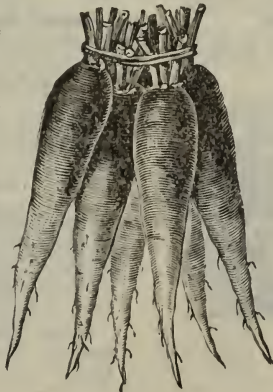


White Tipped Scarlet Turnip



LADY FINGER

Lady Finger—This is one of the finest long white early summer varieties grown. It is pure pearl white, almost transparent, and has that waxy appearance; very firm and solid. Remains in eatable condition fully two weeks before they show any signs of going to seed, and does not become woody. When forcing they have a smaller top than when grown in the field. We recommend this as being the best white radish for the home and market gardener.



Long Scarlet Short Top—The best early long variety for outdoor planting. Quick grower; straight and uniform in color. Grows about seven inches long, and inclines to grow out of the ground. It is a very good sort for forcing.

Cincinnati Market—Is an attractive long scarlet sort; thin skin; small tops; flesh crisp and sweet. A quick grower and remains in good condition longer than most varieties. A desirable radish for any garden.

RADISHES—Continued



CHARTIER

Chartiers (Shepherd's)—A time tried favorite everywhere. The color at the top is crimson, running into pink about the middle and from there downward a pure waxy white. Undoubtedly one of the best all season radishes for outdoor planting.

White Strasburg—The flesh is firm, brittle and tender, and possesses the desirable quality of retaining its crispness even, when roots are old. Roots are handsome, oblong and tapering. Both skin and flesh are pure white.

WINTER RADISH.

Chinese Rose—A brilliant rose colored variety of excellent quality. Good keeper and seller.

China White—Grows large; fine flavor; brittle; white skin and flesh. A good keeper.

Long Black Spanish—Grows six to eight inches long. Skin black; flesh pure white.

Round Black Spanish—Like above, except in shape.

RADISHES

(ALL THE CHOICE VARIETIES)

	Postpaid		Postpaid	
	PKT.	OUNCE	¼ LB.	POUND
New Leafless —The earliest grown. Very few leaves.....	.05	.20	.75	2.00
Non Plus Ultra —Something new. Excellent for forcing.....	.05	.10	.25	.90
Early Scarlet Turnip —An all around favorite. ....	.05	.08	.20	.65
Scarlet Turnip, White Tipped —Fine for early markets.....	.05	.08	.20	.65
White Turnip —An excellent white variety.....	.05	.08	.20	.65
French Breakfast —Early. Scarlet with white top.....	.05	.08	.20	.65
Early Scarlet Globe —First class for outdoor planting.....	.05	.08	.20	.65
Long Scarlet Short Top —Best early long variety.....	.05	.08	.20	.65
Lady Finger —The finest long white sort. ....	.05	.08	.20	.65
Cincinnati Market —Remains long time in good condition....	.05	.08	.20	.65
Chartier —A time tried favorite.....	.05	.08	.20	.65
White Strasburg —Skin and flesh a pure white.....	.05	.08	.20	.65
WINTER SORTS.				
China Rose —A brilliant rose color. Good seller.....	.05	.10	.25	.75
China White —Large; brittle; fine flavor. Excellent keeper...	.05	.10	.25	.75
Long Black Spanish —Grows very long. Skin black; flesh white	.05	.08	.20	.60
Round Black Spanish —Same as above, except in shape.....	.05	.08	.20	.60

SPINACH

For greens. Sow as early as ground can be worked in drills one foot apart and one inch deep.

One ounce to 100 feet of drill; ten lbs. to an acre.

Savoy Leaved
—First early variety. Plants of upright growth; quick grower and best for greens. Postpaid: pkt. 5c; oz. 7c; ¼ lb. 10c; lb. 35c.

Long Standing—An improved strain, desirable to market gardeners, because it is later in going to seed. Pkt. 5c; oz. 7c; ¼ lb. 10c; lb. 35c.



Viroflay or Thick Leaved—Very large, productive and fine quality. Pkt. 5c; oz. 7c; ¼ lb. 10c; lb. 35c.

Round Leaved—Hardy. Best for fall sowing. Pkt. 5c; oz. 7c; ¼ lb. 10c; lb. 35c.

Salsify or Vegetable Oyster

Sow early in drills, eighteen inches apart and two inches deep.

One ounce to fifty feet of drill.

Mammoth Sandwich Island—Grows uniformly to an extra large size, fully double the size and weight of old white sort. Mild and delicious. A standard variety. Postpaid: pkt. 5c; oz., 15c; ¼ lb. 40c; lb. \$1.50.

Long White—A favorite market variety. Fine flavored. Postpaid: pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

SQUASH



WHITE BUSH

One ounce to forty hills of bush varieties; fifteen of others.
Three to four pounds to an acre.

Yellow Bush Scallop—This is the best variety of Yellow Scallop. Very early; dwarf habit; very productive. Deep orange color, flesh pale yellow and excellent quality. Under good cultivation it often attains diameter of two feet.

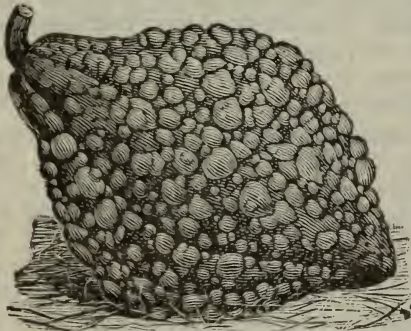
Early Yellow Crookneck—One of the best summer varieties. Skin golden and warted.

Giant Summer Crookneck—An improvement over the common variety, being earlier and larger.

Cushaw (Crookneck)—The old fashioned Cushaw quash is good yet. Color mottled green with white stripes. Flesh yellow; solid; fine grained; very sweet and excellent for pies.

White Bush Scallop—The earliest variety of dwarf habit. Skin a handsome white color and wonderfully productive. Takes up less room than any other sort. A good one for the market and the best for southern shippers.

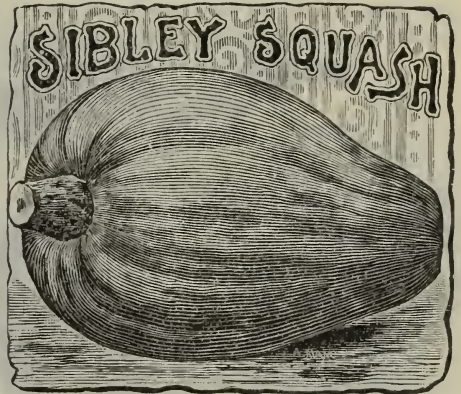
American Turban—A medium sized variety; rind dark orange color; flesh deep yellow and fine grained, rich and sweet. Will keep until late in the season.



HUBBARD

Hubbard—A standard fall and winter variety and more extensively grown for the market than any other sort. A good size; color dark green; shell very hard; flesh yellow, fine grained, dry and sweet. It is the standard of excellence—a good keeper and seller. Our strain of seed in this is especially pure.

Warted Hubbard—A strain of the Hubbard more warted than the original. Color very dark green; shell like flint. Its appearance sells it, and its quality always satisfies the buyer.



Sibley or Pike's Peak—One of the sweetest, driest and best of all late squashes. The form is entirely distinct, being pear shaped. The shell is hard and flinty, though thin and smooth, and of a pale green color. The flesh thick and solid, brilliant orange color, very dry, fine grained and of rich, delicate flavor. Vines are very vigorous and productive, and uniform in ripening. It is one of the best keepers and shippers.

Standard Squash Seed

Try some of these for the Home Garden

	Postpaid		Postpaid	
	PKT.	OUNCE	¼ LB.	POUND
White Bush (Patty Pan) —The earliest and best. . . . .	.05	.07	.15	.45
Yellow Bush (Patty Pan) —Best of the yellow sorts. . . . .	.05	.07	.15	.45
Early Yellow Crookneck —Good summer variety. . . . .	.05	.07	.15	.45
Giant Summer Crookneck —The largest of its kind. . . . .	.05	.07	.15	.45
American Turban —The best fall squash. . . . .	.05	.15	.40	1.10
Hubbard —The standard of excellence. . . . .	.05	.10	.25	.75
Warted Hubbard —Its appearance sells it. . . . .	.05	.10	.30	.85
Sibley —The best late squash grown. . . . .	.05	.15	.35	1.25
Cushaw (Crookneck) —Excellent for pies. . . . .	.05	.07	.20	.65

TOMATOES

For very early plants seed should be sown in hot beds about the first week in March in drills five inches apart and a half inch deep. Later sowings may be made until the latter part of April. If plants are wanted for a small garden, plenty of them can be secured by sowing seed in a shallow box and placing it in a window in the house. Expose them to the air as much as possible, water freely when transplanting, and cover over for a few days to keep the sun from wilting them. Cultivate thoroughly as long as the vines will permit. The fruit is improved much in appearance and quality by training to stake or trellis.

One ounce will produce about 2000 plants.

Early Minnesota—The earliest tomato under cultivation. Fruit is fair size, smooth, good shape and dark red color. Never cracks, ripens even and remains solid a long time. Productiveness and other good qualities make it a choice one for the market before the larger sorts have ripened.



Livingston's Perfection—Large; early; blood red in color; ripens evenly and early, keeping its size until the end of the season. As the season lengthens it becomes more productive and larger. Cannors prefer it to all others, especially those who can the tomato whole. Our strain of seed is excellent, true to name and early maturing.

Livingston's Favorite—A leading variety with the cannors, having a beautiful crimson scarlet flesh, so much desired by those who pack first class goods. Color a rich, dark red; tough skin; ripens very evenly and holds its size well to the end of the season. Very prolific; flavor unexcelled. Flesh is solid and has very few seeds. For general table use, for the market gardener, and for shipping purposes it has no equal.



DWARF CHAMPION

Dwarf Champion—A standard first early tomato. Has stocky, stiff stems, which stand up well even when loaded with fruit. The foliage is a very dark green, leaves thick, and on account of its compact habit of growth, will bear close planting. Fruit medium sized and dark purple in color. It easily leads all others in productiveness. Popular for forcing in greenhouses and first crop in the field.

Livingston's Beauty—The great table and market sort. The color is a very glossy crimson, with a slight tinge of purple. It grows in clusters of four or five large fruits, retaining its large size until late in the season. It ripens very early, is entirely free from specimens, and very seldom cracks. As an early market tomato it is unexcelled, on account of its solidity, toughness of skin and its beautiful color. Even when picked quite green, it will ripen nicely and look well, and keep perfect a week after ripe. Used largely by market men and shippers.



LIVINGSTON'S FAVORITE

TOMATOES—Continued

New Hawkeye—It is very early for one so large. Perfectly smooth, ripens all over and through the center on the same day. A handsome glossy purplish red, meat and seed cells are solid with very few seeds. No waste whatever, as you get five or more cans more to the bushel than from any of the old sorts. Continues bearing until fall. As a canning and general market tomato, it has no equal; it sells on sight. If you are looking for a great big perfectly smooth tomato, an excellent canner, and one that sells before all others, you should try our New Hawkeye. We cannot recommend it too highly.

Livingston's Magnus—This is one of the best new tomatoes ever offered. A purple red in color. Comes early and is a heavy yielder. Perfectly smooth; very solid and heavy.

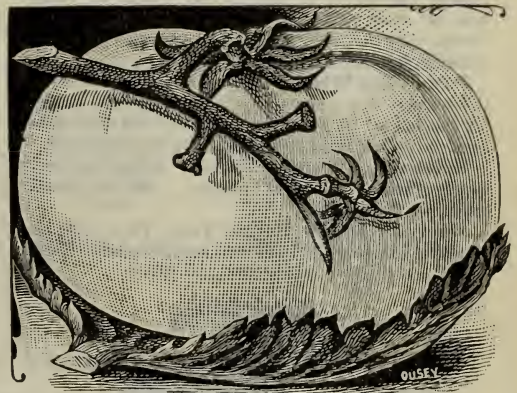


LIVINGSTON'S STONE

Livingston's Stone—This variety is a great favorite with canners. The color is a desirable bright scarlet; very smooth, ripening to the stem; exceedingly solid and firm fleshed. An excellent shipper and canner. Very productive and has no hard core.

Honor Bright—Recommended as a shipping variety. When gathered unripe it will remain for a long time in the package and still be in good condition. In the fall vine with the fruit on may be hung up in the house and fruit will ripen very nicely. Dark red in color, very smooth and attractive; flesh solid, with few seeds.

Golden Queen—It is solid, smooth, entirely free from ridges; large size; ripens early. It is the best yellow variety ever introduced. Fruits are somewhat tinged with red, and make a good contrast sliced in a dish with other sorts. Leads all the yellow ones in its good quality.



GOLDEN QUEEN

Best Quality Tomatoes

It will pay you to grow any of these varieties

	Postpaid		Postpaid	
	PACKET	OUNCE	¼ lb.	POUND
Early Minnesota —Earliest of them all.....	.05	.25	.75	2.25
Dwarf Champion —A standard first early sort.....	.05	.20	.60	2.00
Livingston's Beauty —The great table and market sort.....	.05	.20	.60	2.00
Livingston's Perfection —A long bearer of large fruit.....	.05	.20	.60	2.00
Livingston's Favorite —A leading variety with canners.....	.05	.15	.50	1.75
New Hawkeye —Largest of all and best for canning.....	.05	.20	.60	2.00
Livingston's Stone —A main cropper and good shipper.....	.05	.20	.60	2.00
Livingston's Magnus —A heavy yielder.....	.05	.25	.75	2.25
Honor Bright —The best shipping variety.....	.05	.35	.90	2.50
Golden Queen —A leader of its class.....	.05	.25	.75	2.25
Red Cherry —Used for preserves.....	.05	.25	.75	
Red Plum —Used for pickles and preserves.....	.05	.25	.75	
Yellow Pear —For preserves.....	.05	.25	.75	
Yellow Plum —Excellent for pickles.....	.05	.25	.75	
Husk Tomato —Makes an excellent pie.....	.05	.25	.75	

RELIABLE TURNIPS

Turnips do best in highly enriched, light, sandy soil. Commence sowing the earliest varieties in April in drills from twelve to fifteen inches apart, and thin out early to six inches in the row. For a continuous supply, sow at intervals of two weeks until last week in May for early crop, and from August to September for late crop. In order to preserve them until spring cut the tops an inch or so from the bulb, and store in cool cellar or pit during the winter, covering the roots well over with sand. Though perfectly hardy, turnips should be gathered before the severe frosts set in. They are excellent for stock as well as the table.

One ounce sows 150 feet of drill; one pound to an acre.

Extra Early Purple Top Milan—A standard early variety for spring sowing. Color a pearl white, with bright purple top. It retains its fine flavor and quality until weather is quite hot. Sown early it is ready for use before potatoes are fit to dig, and furnishes a welcome addition to the table.

White Egg—A quick growing egg-shaped variety, smooth and white; flesh firm, sweet and mild. It follows the Milan in season, and its habit of growth enables it to retain its sweetness longer in hot weather.

Purple Top Strap Leaf—The well known popular variety for family or market use in fall or winter. May be sown from July 25th to September 10th. Grows very large. Color white, purple above the ground; fine flavor and an excellent keeper.

Purple Top White Globe—A standard variety for fall sowing. Its shape makes it convenient to prepare for the table. Its appearance, quality and productiveness are points liked by both grower and consumer.

Rutabaga or Swedish Turnip—Largely grown in western states for stock feeding. Sow in June in drills two feet apart.

American Yellow Purple Top—Very solid; fine quality. Valuable for table and feeding stock. Hardy; smooth skin; good keeper and good shape.



MILAN

Extra Early White Milan—The earliest white turnip under cultivation and a very rapid grower. Of splendid growth, small top, single root, clear white skin and flesh—very tender and fine grained. Of attractive appearance and an excellent one for the market.



PURPLE TOP STRAP LEAF

Large White Globe—In rich soil and with favorable season, grows to ten pounds in weight. Skin white and smooth.

Large Amber Globe—A standard when yellow fleshed turnips are wanted. For table or stock feed. Yellow flesh, fine grained and sweet. Very popular in the south.

TOBACCO

Connecticut Seed Leaf—Fine for cigar wrappers. Pkt. 5c; oz. 25c.

Havana—We handle the genuine article. Pkt. 5c; oz. 25c.



First Class Turnips

It will pay you to grow any of these varieties

	Postpaid		Postpaid	
	PKT.	OUNCE	¼ LB.	POUND
Extra Early Purple Top Milan—The earliest grown.....	.05	.10	.25	.75
Extra Early White Milan—Entirely white. One of the best..	.05	.10	.25	.75
White Egg—A quick growing egg shaped variety.....	.05	.07	.15	.50
Purple Top Strap Leaf—A well known popular sort.....	.05	.07	.15	.50
Purple Top White Globe—Excellent for the table.....	.05	.07	.15	.50
Early Flat Dutch—A good size. Pure white.....	.05	.07	.15	.50
Large White Globe—Largest grown.....	.05	.07	.15	.50
Large Amber Globe—Good for stock.....	.05	.07	.15	.50
Rutabaga Amc. Purple Top—Excellent for stock or table use	.05	.10	.20	.60

For the Benefit of our Customers

We are listing here a few special offers under three groups to give you some idea what to order for your garden. All packets listed here are full sized and contain seeds that are thoroughly tested and true to name. We want you to take advantage of these offers for your own benefit, as well as ours.

FOR A SMALL HOME GARDEN.

This includes the following ten packets of reliable garden seeds sent postpaid to any address for only 25c.

Beans.	Cabbage.	Globe Radish.	White Turnip.
Beets.	Lettuce, Head.	Gem Peas.	Mammoth Salsify.
Cucumbers.	Dwarf Tomato.		

FOR A LARGE HOME GARDEN.

This includes the following twenty packets of reliable vegetable seeds sent postpaid to any address for only 50c.

Black Wax Beans.	Celery.	Radish.	Champion Peas.
Valentine Beans.	Cabbage.	Kolb's Gem Watermelon.	Parsnip.
Cucumber.	Lettuce.	Cole's Early Watermelon.	Spinach.
Beet.	Sweet Corn.	Muskmelon.	Tomato.
Carrot.	Onion.	Gem Peas.	Endive.

FOR AN EXTRA LARGE FAMILY GARDEN.

This one includes the following forty well filled packets of reliable vegetable seeds sent free to any address for only \$1.00.

Wax Beans.	Curly Lettuce.	Kolb's Gem Watermelon.	Parsley.
Bush Beans.	Celery.	Cole's Early Watermelon.	Mammoth Salsify.
Egyptian Beet.	Early Cucumber.	Dixie Watermelon.	Globe Radish.
Turnip Beet.	Late Cucumber.	Bull Nose Pepper.	Long White Radish.
Summer Cabbage.	Endive.	Cayenne Pepper.	Chartier Radish.
Late Cabbage.	Leek.	Gem Peas.	Dwarf Tomato.
Carrot.	Egg Plant.	First in Market Peas.	New Hawkeye Tomato.
Sweet Corn.	Kohl Rabi.	Red Onion.	Hubbard Squash.
Late Sweet Corn.	Early Muskmelon.	White Onion.	Summer Squash.
Head Lettuce.	Late Muskmelon.	Parsnip.	Spinach.

OUR LIST OF VEGETABLE PLANTS, ROOTS, ETC.

In order to obtain the best results it pays to set out plants, such as **Cabbage, Cauliflower, Tomatoes, Celery, Pepper**, and all the root varieties. Our stock in these is the best obtainable, and we offer them at prices so low that it will invariably pay you to buy them. Plants are sent by **express** (not mail), and **charges are to be paid by the purchaser**. No order accepted for less than \$1.00 of plants. We keep the following kinds in stock, and can ship fresh pulled plants on short notice. Prices subject to change, owing to damage by frost, etc. Write for special prices on plants in quantity, as we sometimes have a surplus on which we are glad to make a low price. We always make prices according to the quantity desired.

Good, Strong Healthy Plants	Express, buyer's Expense	
	100	1000
Asparagus Roots —Ready when ground thaws.....	.50	3.50
Cabbage —Ready April 10th. Early Summer, Wakefield, Premium Flat Dutch, etc..	.40	2.00
Cauliflower —Early Snowball. Ready about May 1st.....	1.00	7.00
Celery —Early varieties ready May 1st. Late ones after June 20th.....	.60	4.00
Pepper —Ruby King, Bull Nose, Sweet Mountain. Ready May 15th.....	1.00	7.00
Horseradish Sets —Ready when ground thaws.....	.75	6.00
Egg Plant —New York Improved. Ready about May 15th.....	1.00	7.00
Rhubarb Roots —Ready when ground thaws.....	1.50	8.00
Tomatoes —Dwarf Champion, Beauty, New Stone. Ready May 1st.....	.75	5.00
Sweet Potatoes —Yellow Jersey and Nansemond. Ready about May 1st.....	.25	2.00

IMPORTANT TO THE FARMER

RELIABLE SEED CORN

There is no crop which depends more on the nature of the seed than with corn. It is not a question of germination alone, but it must have vigor and vitality. In order that corn raising may prove a success, you must plant the variety adapted to your particular location. The varieties we list here can be grown in Iowa, Nebraska, Missouri and Illinois. Pride of the North or Longfellow Dent may be grown as far north as Minnesota and the Dakotas. Intelligent and reliable information will be given to all inquiries. All our seed corn is thoroughly tested, and not a grain is sent out of which we are not absolutely sure as to germination. It is a very good plan to buy your seed corn early and test it yourself, and if it does not grow the responsibility can be placed where it belongs. The buying of seed corn in the ear is now considered to be the best way, as the purchaser can see just what he is getting. But we recommend our shelled corn to be just as high a type and as true to name as any variety sold in the ear. We can furnish it either way and leave it with our customers to say which they prefer.

One bushel for seven to eight acres.

Price of any variety, on ear or shelled, \$1.75 per bushel.

PRIDE OF THE NORTH

This is an old standard, having originated in the northwest over twenty years ago, and cannot possibly be replaced by an earlier variety. It is the very best early corn, and can be raised farther north than any other variety. The average ear is from six to eight inches in length, yellow in color and moderately dented deep grain. Very productive, but not large enough to be raised extensively when other corns can be grown. The stalks grow only to a medium height and are very leafy, thus making it invaluable for fodder. Will mature in from eighty-five to ninety days.

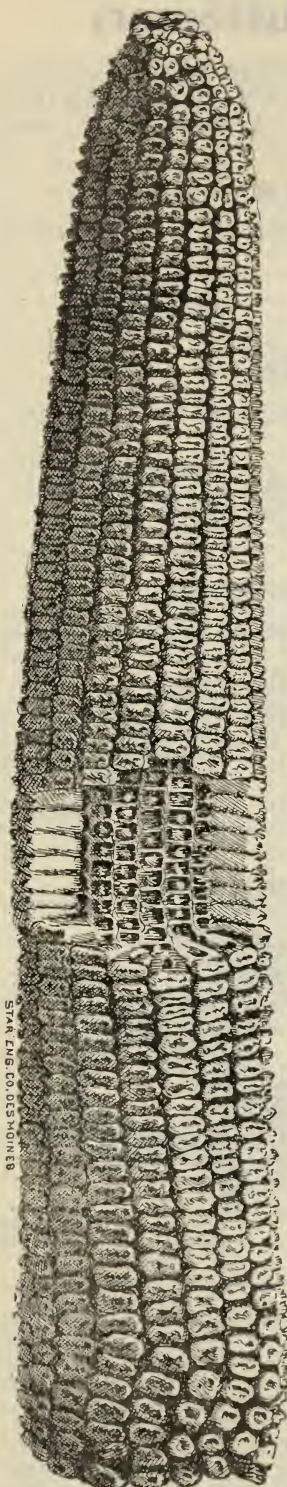
LONGFELLOW DENT

This is not the eight rowed or Yankee corn, but a happy medium between it and the dent varieties. It matures just a little later than Pride of the North, and, its ears being larger, makes it more convenient to gather. Our experience is that it is superior to any early corn in productiveness even in cold and wet weather. Ears are usually from nine to twelve inches long, with twelve to fourteen rows of slightly dented golden grains. It very often attains the remarkable length of sixteen inches. In the latitude of southern Minnesota it is the main crop variety. In the corn belt proper it is the standard for early feed and late replanting. Its record is such that would entitle it to a trial in the hot and dry section of the corn belt. To those who have never tried this variety, we recommend you to try at least a few acres of it. It has agreeably surprised many of our customers.

GOLD MINE

This well known variety hardly needs an introduction, but to those who have never grown it, we heartily recommend it as having a well deserved place among the best field corns. The ears are from seven to nine inches long, with fourteen to sixteen rows of deep, slightly dented grains. The cob is very small and grain a beautiful golden yellow, either on ear or when shelled. It is medium early, and one of the best feeding corns ever produced; however, it is not the most profitable for the market, being so easily shelled that it wastes. Besides, you give too much corn at seventy pounds, as the amount of cob is much less than in larger varieties. It is one of the best and most profitable varieties grown.

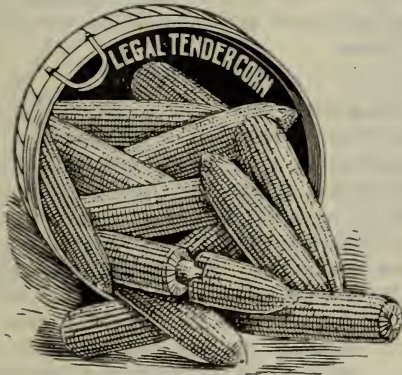
HAWKEYE SEED CO. DES MOINES



LONGFELLOW DENT

RELIABLE SEED CORN—Continued**LEAMING.**

This variety, like some people, "bears acquaintance." We sell Leaming without any addition to the name. This variety, as sent out by the originator, is the best strain of Leaming. Its original characteristics are what makes it a standard in the corn belt. The ears are from seven to ten inches, often in good corn seasons eleven long. The rows sixteen to eighteen in number. The grains are smooth and pleasant to husk, having yellow caps with cherry or wine colored bodies. There is, therefore, considerable difference in color between on the ear and shelled. The typical grain of Leaming is best described by saying it resembles a brick. It is a heavy weighing variety on the ear, and a bushel of the shelled corn is the least bulk of any variety we know. If you want a corn to crib up and stand for years, and then shell and grade well, plant the Leaming. One of our growers shelled a crib last fall which had stood for seven years. It weighed out more than estimated by crib measure and graded satisfactory. The ears taper considerably from butt to tip, often having a shoulder which is characteristic of the variety. Another characteristic we wish buyers to remember is that in the fall the ear will be found riper than the stalk. That while the stalk may appear green and in danger of frost, the ears of corn on examination will be found quite mature. In ripening it is ten to fifteen days earlier than the large yellow sorts. Our reports show it can be expected to mature in an ordinary season seventy-five miles south of the northern boundary of Iowa, and can be planted experimentally to the Minnesota line. It makes a stocky growth. Ears hang on well to the stalk in windy falls. None of the main crop varieties excel it in germinating in cold backward seasons. It has a deserved reputation for late planting on sod or replanting. The growers of Leaming corn have found it a "stand by" this test season. The corn grower whose location is not too far north should try this variety.

**LEGAL TENDER.**

A large well known yellow dent variety—a very prominent late corn. It is the result of many years careful selection by one of Iowa's best seed corn specialists. It is very productive, and of a uniform pure yellow color; ears are eight to eleven inches long, with sixteen to twenty rows of medium sized deep grains; the cob is small at butt, and the ear holds its largeness until the point of tapering off. However well adapted the warm quick soil of the Missouri Valley,

this variety has proven better adapted to the black and heavier soils after being grown in this locality. It matures in about 110 days, and is a very good market corn.

CALICO.

This variety has been produced by mixing varieties While most of the ears are of the true Calico type, some revert to the varieties used in its production. It has very large ear even this season, from eight to eleven inches long, with from eighteen to twenty rows of grains. While the cob is large it is light, and shows a good per cent of shelled corn to width of ear. While not so popular to grow to sell, it has been growing in favor with our customers as a big producer of grain to use on the farm; pleasant to gather. Like all corns with red blood in them it has earliness and hardness to a large degree. It has the size to justify planting it as a main crop on the richest land in the corn belt. Should form part of the acreage in corn northward to the northern boundary of Illinois.

REED'S YELLOW DENT.

In this we have a good sized main crop variety. It is a little later than Leaming. Ears are from eight to eleven inches long, with eighteen to twenty-two rows of fine yellow square grains with a dented smooth top; a good yielder and easy to husk. This corn is becoming better known every year, and still holds its good reputation. We do not recommend planting it too far north, but for the central corn belt it is very profitable.

RELIABLE SEED CORN—Continued

*Price of any variety, on ear or shelled,
\$1.75 per bushel.*

CHAMPION WHITE PEARL.

This is the largest white corn grown. Ears are from eight to eleven inches long, with fourteen to sixteen rows of dented, smooth top grains, making it easy to handle. It requires a full season, and is best adapted to the central or southern corn belt. The best variety for milling.

SILVER MINE.

This variety is well known among corn raisers, as an all around good white corn. Ears from seven to ten inches long, and fourteen to eighteen rows of clear white deep grains, with rather a small cob. Grains are dented and quite rough. It is a big yielder, and in favorable seasons will mature a crop nearly to the north line of Iowa. White varieties are growing in favor; we do not exactly know why, unless it is for the fact that on clay soils and exhausted prairie soils, the white varieties will produce a larger crop than the yellow. It is a very good sort for feeding and, like the Gold Mine, it shells easily and does not handle well on the ear.

REWARD.

No variety we have to furnish shows up any better than this one. Reward is a large yellow dented corn. Some ears show an orange yellow, but when shelled we know of no variety which so nearly equals the Gold Mine in attractive golden yellow. This corn needs no acclimating to the strong black soils of the central corn belt. It has developed in them. It is the result of many years careful selection by a family of Polk county's oldest settlers. During the last few years the writer has aided by suggestions in its improvement. Under other names and without a name it has been sold for seed purposes over several states and given good satisfaction. Reward we named it, and it will reward the grower who plants it under suitable conditions. We know of no yellow variety in which large

**SILVER MINE**

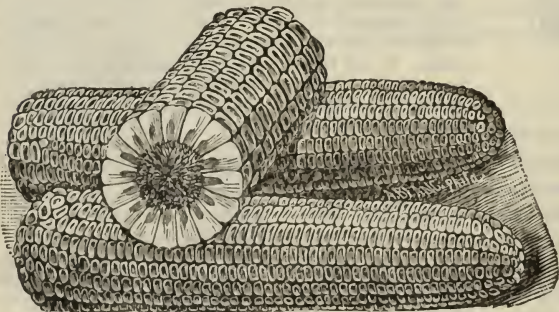
and earliness are so well combined. Ears are seven to eleven inches long, with sixteen to twenty rows of well shaped grains of good depth. Slightly hatched, it is pleasant to husk. Medium sized cob. Like all corn this season, the corn is not of its usual depth. We recommend it as a main crop, yellow dented corn, from the northern boundary of Illinois southward, especially in black, rich soils. It has not been petted and coaxed by garden culture to its present development, but has won its way in the broad fields of farm conditions. We can sell you this corn in the ear. Let us send you a bushel and see what it has done in this "off" season.

PAYMASTER.

This new variety is but little known outside of this county (Polk). It represents twenty years of careful selection by one of our most respected and successful German farmers, Mr. John H. Seibert. A number of our successful farmer friends who have grown it repeatedly urged us to introduce it for trial by other corn growers. Its most striking characteristic is the length of the ears, ranging from ten to fourteen inches; rows number fourteen to eighteen. The color is a pale yellow, with an occasional ear tinged with orange yellow. The corn grower in the central corn belt who wishes a corn capable of yielding a big crop especially adapted to hog and cattle feeding should give Paymaster a trial.

NOTICE.

Look carefully over our list of Seed Corn and if you find anything that suits you, send in your order at once, and we will fill it to your satisfaction.

**REWARD**

SEED OATS

It will be money in your pocket to change your seed oats this year and sow some of the improved varieties we list here. We have made a careful study of oats and we take great pleasure in recommending the following sorts as leaders. Our prices are f. o. b. Des Moines, Iowa.

HAWKEYE SEED CO.'S NEW EARLY CHAMPION.

This is absolutely the earliest and finest oat under cultivation. It is free from rust and very productive. Its yield last year was fifty-five bushels per acre, and has been known to yield 100 bushels. It is a sure cropper. Straw is comparatively short. It is at least ten days earlier than any other variety, and for this fact it escapes the liability to rust. Its greatest value lies in the fact that it is an excellent nurse crop, and if your plans require you to sow grass seed with oats, use our New Champion and try sowing less than two bushels per acre. It is usually ready to cut in the latitude of Des Moines about July 4th, making the earliest feed for summer. It has given entire satisfaction to our customers. We claim to have the best and purest stock in the country, having been treated for smut last spring before sowing; this gives you a good start free from smut. If you are interested in raising oats don't hesitate to give this a trial. Price: per bu., 75c; 10 bu. or more, 65c.

LINCOLN.

This variety holds its record for enormous yielding qualities, combined with a grain of the best quality, and supported by a stiff straw which has stood up under weather that has caused many other varieties to lodge. This, together with its freedom from rust, makes it the most popular oats for main crop. About ten days later than the Champion. Price: per bu., 65c; 10 bu. or more, 60c.

BIG FOUR.

This oats is adapted to most any soil or climate. Has large, long heads, filled with big, plump kernels that weigh out a bushel very fast. It is very productive, stools quite heavily, and the straw being extra strong and stiff, holds up its heavy load of grain wonderfully. It will give you great satisfaction to try it. Price: per bu., 65c; 10 bu. or more, 55c.

SILVER MINE.

This variety is well named, being one of the best large white oats for main crop. Very attractive and a heavy yielder. It is extremely hardy and prolific, with long straw; it will not lodge if sowed on rich ground. Grain always a pure white. Will grow and thrive under very unfavorable climatic and weather conditions—always a sure cropper. One of the very best we have to offer this year when oats are not as bright as in more favorable seasons. Price: per bu., 65c; 10 bu. or more, 60c.

BUCKWHEAT

Japanese—This is a very early dark brown variety, about a week earlier than Silver Hull. Very productive. A vigorous grower of both vines and seed. On account of its large branches does not require such thick sowing as other varieties. It is perfectly hardy and will do well in extreme northern sections. It is excellent for bees.

Silver Hull—A thin skinned variety of a silvery color. Kernels are larger than Japanese and very solid. Very prolific and the heaviest yielder of any variety. It continues long in bloom and is excellent for bees. Makes the best grade of buckwheat flour. Write for prices on buckwheat.



Hawkeye Seed Co.'s New
Early Champion

BARLEY

Success—A new six-rowed beardless variety. Very vigorous grower, producing heavy and well filled heads, supported by strong, stiff straw. Can be harvested before oats and wheat. Brings high price for malting. In good seasons yields 80 bu. per acre. Write for prices.

Manshury—An old well known six-rowed variety. It is the standard and most popular barley grown. It is very productive and has no equal as a heavy yielder. Its malting qualities cannot be excelled. Ripens early and has long heavy heads filled with large, plump, bright kernels, supported by strong stiff straw. Best for feeding, and in favorable seasons will produce 50 bu. per acre. A good paying variety. Write for prices

SORGHUM FOR FODDER

The successful growing of sorghum for fodder has been the greatest addition to farm crops for many years. The quantity and quality of succulent, palatable and nutritious feed produced by an acre of sorghum has proven a revelation to many a stock owner in Iowa and adjoining states. The raising of cane started in Des Moines a few years ago, and since then it has steadily increased until it is without doubt the best feed that can be produced that makes the yield per acre that it does. It will yield from two to six tons per acre and does not have to be harvested until cool weather in the fall.

Do not select rich bottoms or highly manured land to secure the best results. On low grounds severe frosts will require early cutting, and very rich and manured land while producing a heavy crop is deficient in sugar, the most valuable constituent. Plow the ground as for corn. Harrow till fine to remove the clods and conserve moisture and start the weeds to grow. When the weeds have fairly started disk or cultivate and harrow to kill the weeds. Repeat if necessary until time to sow. The early growth of sorghum is small and slow, and for best results requires the soil to be fine and free from weeds. In the latitude of Des Moines sow from June 10th to 20th. With moisture to germinate it may be sown till July 15th. Sow broadcast one hundred pounds per acre. If drilled use eighty pounds per acre. Sown broadcast, cover one inch deep by disking or cultivating lightly. Harrow and finish with planker or roller if weather is dry.

It is neither palatable or nutritious until the sugar is developed.



EARLY AMBER CANE

which is indicated by the seed becoming black. It may then be fed as needed.

Cut for winter use when in danger of severe frost. This period varies here from October 1st to 25th. Cut with a mower, rake into winrows and put in very large cock, 600 to 800 pounds as soon as possible. Don't worry about it spoiling. Do not try to cure it—adopt the opposite course. Preserve its succulence and you will not need a silo. A very good way when cool nights have come and hard frost not far away is to cut and cock what you can each day. A day or two's work will give you an idea how much help you need to complete the job in season. It may be fed from the cock as wanted, or six weeks later put in narrow ricks about eight feet wide. If weather is mild it may heat in wide ricks or if stored in mow in large quantity. All kinds of stock will eat it, hogs included, and thrive amazingly. Nothing better for the dairyman's milk cows. When feeding sorghum decrease the corn ration. Write for prices.

Dwarf Essex Rape

Our stock of this is the genuine English grown Dwarf Essex, the sort that is grown for pasture, producing a large amount of succulent leaves and stems. Some rape is grown for the purpose of producing seed and is much inferior for pasture use. We have sold rape and are observers of how to grow it for years. We issue directions of how to grow and use it, which will be sent on request. The small cost of seeding and the large amount of pasture which is the very best for hogs, sheep and cattle, are the reasons why you should grow rape. Five ponds sow an acre. • One lb. 20c., postpaid; five lbs. 40c, by express not prepaid.

Write for prices on large quantities.

KAFFIR CORN

White Kaffir Corn—Grows from four to five feet high, making a straight, upright growth with numerous wide leaves. The stalks keep green and are brittle and juicy, making excellent fodder either green or dried, which is highly relished by cattle, horses and mules. The seed being white is preferred for making meal.

Red Kaffir Corn—This grows taller than the white. The stalks are more slender and juicy and very leafy. The heads are long, slender, and grow compact and erect, measuring from one to two feet. The seed is red, smaller than the white, and rather hard and brittle. This variety is one of the best drouth resisters among all the non-saccharine sorghums.

Write for prices.

RELIABLE CLOVER SEED

Clover is a plant of great importance to agriculture. not only for pasture and hay crop, but its great value as a fertilizer. It restores fertility to land that has become exhausted from continuous cropping. It is without a doubt the most useful plant to the farmer that can be grown. Sow early in the spring at the rate of about twelve pounds per acre.

Owing to the important changes likely to occur between now and the season of active sale, we attach no prices except where noted, but we respectfully ask you to write us, stating quantity and quality desired; prices and samples will be cheerfully given. Our strain of all the different varieties is the best obtainable and we are quoting the lowest prices.

COMMON RED OR MEDIUM.

This variety is familiar to most every farmer in the country. He knows that a good yield of clover means plenty of hay, excellent for his horses and cattle. Keep the land in continued good condition by sowing Common Red. Nothing will pay you better. Sow it in the spring with other grains, at the rate of six pounds to the acre. If for no other reason than a fertilizer, it will greatly improve the yield of the small grain, and if necessary can be used as pasture after grain has been harvested. It is used to a greater extent than any other variety. It is very hardy and produces large crops of hay of the very best quality. Our Iowa grown seed stands at the head of the list for quality and freedom from obnoxious weed seeds or parasites. Good seed is scarce and high priced this season, and we advise you to place your order early. Prices sent on application.

Prime Clover—Very many wish a cheaper grade of clover will have a very good grade in this. Write for prices.

Mammoth Sapling or English—There is three times as much of this sown for pasture as any other variety. Nothing that grows is better for fattening hogs. Being later, it forms a succession to the Common Red, thus prolonging the season. Use this variety for permanent pasture—does not freeze out easily, and for this reason it is superior for fall sowing. For fertilizing purposes plow it under when green. If sown for hay sow with Timothy to support the excessive growth; they will be ready to cut for hay at the same time. Our strain of seed is the finest on the market.

ALSYKE.

Its one point of great value is that it is extremely hardy and will adapt itself to most any soil or climate, succeeding better on very low ground on the edge of streams or in swamps. It is capable of resisting drouth and wet seasons alike. It makes excellent pasture or hay, and is relished by stock. It is fibrous rooted and consequently is not affected by frost.

WHITE DUTCH.

A standard part of every pasture and once sown will grow on most any soil, and, as its nature is creeping, it will prevent washing. Sow with blue grass at the rate of five pounds per acre. It furnishes bees a sure source of supply.

ALFALFA

Alfalfa is the hardiest and most productive of any variety of clover. The roots sink into the earth from ten to twelve feet, seeking and bringing to the surface fertilizing matter that has been stored in the earth for years. The roots, which are one inch in diameter at the surface, decay from the outside a trifle every year, but is replaced by a stronger growth each spring. It is wonderful the way in which it stands hot, dry weather, and it is the same in a wet season. No matter how hard the rain falls, if the land is properly drained it will still flourish and yield its large crop of hay.

It can be planted broadcast early in the spring. Sow at the rate of twelve to fifteen pounds per acre, and have your soil thoroughly plowed and harrowed. It is the most productive clover grown: it will yield more hay every season than any other variety. Increases the flow of

milk in cows, and is greatly relished by horses, cattle and sheep. It hardly ever yields heavy the first year, but should not be disturbed. Let it stand until the next year, when you will have a good yield of excellent hay. It will keep on bearing more each succeeding year. It is not advisable to cut too much of it at one time, as the rain will spoil it, and it will not be worth more than half for feed. Do not let cattle pasture on it when green; it is apt to cause their death. If you do wish to pasture it, keep feeding it green to your stock a little at a time, gradually increasing the amount until they have become used to it. Then they can be turned on the pasture without harmful results.



COMMON RED



ORCHARD GRASS

RED TOP.

It is especially adapted to wet soils, and is the first of the tame grasses to grow upon land that has been reclaimed from swamp conditions. It will grow under most any condition in marshy ground, or can be grown on rich upland with other grasses, when it makes excellent pasture or meadow. Fine for feeding stock and increases flow of milk. It is extremely hardy. One bushel (fourteen pounds) sows an acre. Price, postpaid: lb. 25c. Write for prices on larger quantities.

HUNGARIAN BROME.

It has long been cultivated on the dry plains of Europe. It is a hardy perennial and withstands the drouth and cold weather better than any other grass. It is a very rapid grower and will thrive where Timothy and Clover cannot live. It will produce good pasture during long periods of hot and dry weather, and as a hay crop it is unexcelled. It is highly relished by stock. Two or three cuttings can be had in one season. It is well adapted to the sub-arid regions of our western states. Sow about thirty pounds to the acre. Postpaid: lb. 35c. Write for prices on larger quantities.

TIMOTHY.

No other natural grass is more largely grown than timothy. It is best adapted to rich loamy soil, where, under favorable conditions, it will produce an abundance of the finest hay. We have an excellent strain of pure seed. Write for prices.

MILLET.

Very valuable to dairymen and stock raisers. Every farmer should make it a point to sow a few acres of millet every year, for it supplies the best kind of fodder for milk cows. Write for prices.



BLUE GRASS



TIMOTHY

GOOD GRASS SEED

Try our Superior Mixed Lawn Grass. Postpaid: lb. 35c.

ORCHARD GRASS.

On account of its earliness it is very valuable for hay and permanent pasture. When grown for hay more than one crop can be cut, and if only one is cut the next growth makes the richest pasture. It is the first to come in the spring and last to leave in the fall, and it seems to thrive better the more it is cut. From its habit of growth it has to be sown with other grasses. It will stand drouth and does not winter kill. Postpaid: lb. 30c. Write for prices on larger quantities.

MIXED LAWN GRASS.

We have had years of experience in selling grass seeds adapted to lawn making. We have adopted a mixture which, we are glad to say, will suit a majority of lawns; the varying conditions of sun and shade, due to buildings and trees, make a variety of grasses necessary. Our mixture is made up after careful study and experiment, and has given general satisfaction to those who have tried it. For parties who can call on us and describe the tract desired to be seeded, we sell a special mixture which will be of particular fitness. Sow this either spring or fall at the rate of one pound to 500 square feet. Postpaid: lb. 35c. Write for prices on larger quantities.

LAWN MAKING.

There is nothing more attractive than a well kept lawn, and there is no reason why every one who has the ground should not have one. You can readily do this by sowing our superior mixed lawn grass. Sow early in the spring or fall. At either season rake into the soil and then cover with a half inch of well-rotted manure. In the absence of rain keep it well sprinkled until fairly started. If soil is very poor use our commercial fertilizer—the very best for lawn making.

Reliable Seed Wheat

Our strain of seed wheat this year is absolutely the best that can be obtained. We have put forth our greatest efforts to secure the best in every variety of seed listed here, and we are glad to say that we have had good success. Write and ask for prices where not mentioned.

EARLY JAVA.

We take great pleasure in introducing to our customers a new variety of wheat, which for earliness and fine quality cannot be excelled. It is at least ten days earlier than Velvet Chaff Blue Stem. For this fact it escapes the extreme hot weather, which is so injurious to small grain. Another good quality is that it can be sown with fall wheat where the stand is poor and will ripen in time to be harvested with it. It is bearded and supported by good stiff straw; yield is about thirty-five bushels per acre. We offer seed grown by ourselves, which we know to be genuine, and recommend it to anyone interested in wheat raising, as we are sure it will give satisfaction. Price, \$1.25 per bushel, bags free, f. o. b. Des Moines. Write for price on large quantities.

VELVET CHAFF BLUE STEM.

A distinct variety, having white, velvet-like chaff; heads beardless. The stem just below the head, when green is a beautiful blue bloom, which disappears as the wheat ripens, both wheat and straw assuming a bright golden tint. The kernel is of the hard variety, similar to the Scotch Fife, but is far more productive and one of the best spring wheats for milling.

WINTER WHEAT.

Large crops of winter wheat can be raised in extreme northern climates, and to insure the best results with winter wheat we recommend any of the following varieties. Of course, fair crops may be had by sowing a common grade of wheat, but that is not what you want. If it does cost you a little more to get a good variety, don't hesitate, but get it. Any one of these strains will give entire satisfaction.

TURKISH RED. New Importation.

This was imported two years ago and grown by us the past two seasons with remarkable success. It surpasses the old Turkish Red both in quality and abundance of yield; the heads are larger and more robust, and the grain is an excellent size; the straw is not coarse, but stands up well, even on strong ground. Another advantage is that it is a harder wheat than the common Turkish, and is preferred by millers to any other fall wheat grown. To those who have grown the common Turkish Red and those who have now grown fall wheat, we advise you to give this a trial. We feel satisfied you will be pleased with the result. Write for prices.

TURKISH RED.

This is an old and well known bearded variety. It



EARLY JAVA SPRING WHEAT

is not quite as hardy or productive as the New Importation, but it holds its own against the bald varieties, as it hardly ever winter kills. Write for prices.

FALL RYE

GIANT WHITE.

This is absolutely the best variety of fall rye under cultivation. A sure cropper, vigorous grower and heavy yielder. It is the best for an early feed crop in the spring, and this point makes it valuable to the dairyman. It can be sown early in the spring and will make an early and abundant pasture, but will not produce a grain crop. Don't forget to write for our fall catalogue; it gives full information in regard to fall grains. Prices quoted on request.

Forage and Fertilizing Seeds

FIELD PEAS.

They are growing in favor as their use becomes known. They can be sown with or without oats. If without, sow two bushels per acre; if with oats, one bushel of peas to one and one-half bushels of oats. Sow early in spring. Plow ground three or four inches deep, taking a narrow furrow. When a foot high, it can be pastured to cows, or hogs can be turned in when oats have headed and peas are formed.

Canada White—These are very valuable for fattening stock, and can be grown as a fertilizer. Valuable as fodder when fed as ground feed. Should not be grown on very rich land or they will run to vine. Prices quoted on request.

Canada Green—Used for the same purpose as the white. It is a little later, and seed is green. Write for prices—they are the lowest.

COW PEAS.

Highly valuable for soiling or for green manuring. Sometimes grown with oats for cutting and feeding stock. Sow early in spring or fall, when ground is cool and moist. If broadcast, sow two and one-half bushels per acre; if in drills, one and one-half bushels. Write for prices.

SOJA BEAN.

Valuable as a forage crop, and also for fertilizing the soil—makes good pasturing feeding it as green fodder. It makes a very heavy growth, generally yielding from eight to ten tons per acre; it builds up flesh rapidly. Sow broadcast one-half bushel to the acre, or plant in drills three feet apart and one foot between plants. Poor, sandy soils may be brought up to a good standard of fertility by plowing under four or five crops of these beans. Write for prices.

SEED POTATOES



EARLY OHIO

In order to make a success of raising potatoes the soil must be a rich, sandy loam. They will do well in most any climate. To fertilize the soil before planting use well rotted manure, but it should not come in contact with the potatoes themselves. The best results may be obtained by using phosphates at the rate of 100 to 150 pounds per acre. The potatoes will invariably be smoother, brighter and more free from rust. Plant early in the spring as soon as ground can be worked readily, in rows three feet apart and one foot in the row. Cover over with three or four inches of soil; as they advance in growth keep them well hilled. Owing to important changes in the market which are likely to take place before time of active sale, we do not attach any prices. Please write for prices, stating quantity desired.

EARLY OHIO.

This variety is the standard for earliness and good quality combined. The northern grown seed has unusual vigor, and it is especially valuable to the market gardener, who must have earliness. Good selected home grown can be obtained for less money and will fill the requirements of the planter.

EARLY ROSE.

This old time favorite is regaining lost ground, especially when northern grown seed is planted. This seed gave some of the best results in this season, when the crop is light. Not so early as the Ohio, but is a heavy yielder. It furnishes a full supply of the finest quality for late summer.

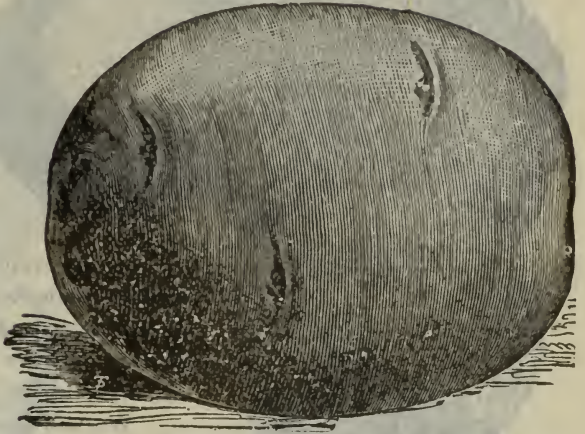
SEED POTATOES Continued

Bliss's Triumph—A very early, smooth, nearly round variety, eyes slightly depressed and a beautiful red color; a vigorous grower, very productive, will outyield any early variety. It produces from ten to twelve tubers per hill, and they are all good sized and excellent quality. Nothing better for the table. Flesh is a pure white, either raw or when cooked. We recommend this as an early potato; a great favorite with market men.

Seneca Beauty—Tubers are very large and smooth, with few eyes close to the surface; a beautiful pink color, uniform in size and shape, scarcely any small ones. Vine vigorous and healthy. Uniform fine grained, cooks dry and of excellent flavor. A good keeper and heavy cropper. On account of its distinct appearance, shape and color, it can be kept pure and easily selected.

Bonanza—A splendid medium late sort, especially desirable for main crop. Large, slightly oblong and flattened; skin smooth, rose colored. Eyes shallow, flesh white, fine grained and dry; well flavored and very productive. A favorite with market men.

Rural New Yorker No. 2—This potato is of very large size and unusually smooth; few and shallow eyes. Shape somewhat round and flattened; skin and flesh are a pure white; superior quality. Matures medium late with a very large yield.



RURAL NEW YORKER No. 2

Seed Sweet Potatoes

Ask for prices March 1st. Close quotations made.

We get Sweet Potatoes from growers who make a business of storing and packing for seed purposes. They are properly handled and will produce large, vigorous plants in abundance. We begin shipping about April 10th. As they sometimes begin rotting soon after leaving storage house, customers must be prepared to put them into the beds as soon as they arrive. We have them carefully dug and stored over winter, especially for sprouting purposes. After we deliver them to railroad or express office in *good condition*, we want it understood that customers take *all risks*. Will book orders at any time, but do not ship until planting season.

One bushel will produce about 2,500 plants.



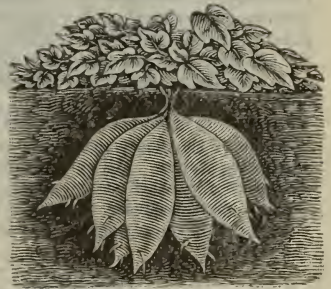
YELLOW JERSEY

Yellow Jersey—This is the main crop variety, growing a good short potato of fine yellow color and excellent quality. Fine for the market.

Yellow Nansemond—Very much like the above, but not so short. Good keeper and fine for table use.

New Vineless—Almost vineless, having a short, bunchy, upright top; a rapid grower. Stands drouth; no vines to run. The very best sweet potato.

Red Jersey—The best red potato on the market. Same growth as Jersey, but color is dark red.



NEW VINELESS

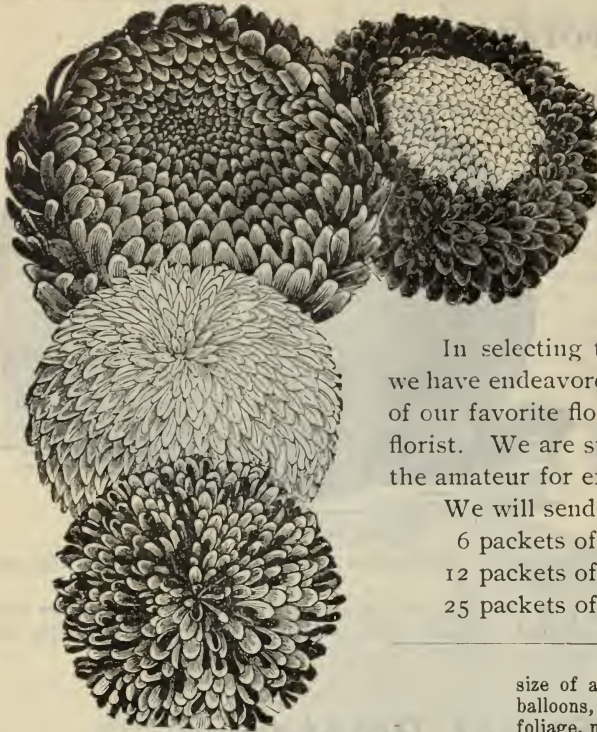
BROOM CORN

Improved Evergreen—The favorite sort. The bush is fine and a good length. Yields well and does not turn red in fields before cutting, having a green variety of bush. Price: peck 40c; bushel, \$1.50.

POP CORN

White Rice—An improved strain of the good old rice variety. Oz. 5c; $\frac{1}{4}$ lb. 10c; lb. 25c, postpaid.

Queen's Golden—A beautiful golden yellow sort. Oz. 5c; $\frac{1}{4}$ lb. 10c; lb. 25c, postpaid.



ASTERS.

Very beautiful and popular plants, growing from ten to thirteen inches high. For profusion of flowers and richness of display the Asters are unrivalled, and constitute the principal adornment of our gardens during the autumn. Sow the seed early in spring, under glass or in pots in the house, and transplant into rich soil, about one foot apart. Half hardy annual.

Victoria—Grows about twenty inches high. This is one of the finest growing strains of the tall growing Asters. All colors, mixed Pkt. 5

Bouquet—A dwarf strain about one foot high. Each plant produces fifteen to twenty blooms. Useful to form edgings to flower beds. All colors, mixed Pkt. 5

ALYSSUM.

An old favorite, as easily grown as a weed. Flowering from early spring until killed by frost and all winter in the house if sown in August. Flowers pure white, of delicate fragrance. Most effective in masses and borders of beds. Very useful in small bouquets.

Odoratum or Sweet—The standard variety. Very handsome Pkt. 5

Little Gem—Plants are very dwarf, and each spreads so as to completely cover a space a foot in diameter. They soon become one mass of bloom, which is pure white, and remains from spring to fall. The little spikes of bloom are deliciously fragrant. . Pkt. 5

BALLOON VINE.

A very rapid grower and delights in a light soil and a warm situation; grows 10 to 15 feet. White flowers followed by seed vessels about the

RELIABLE
FLOWER SEEDS

In selecting the following list of Flower Seeds we have endeavored to meet the tastes of the lover of our favorite flowers, rather than the professional florist. We are sure that these varieties will repay the amateur for expense and time required.

We will send postpaid to any address—

- 6 packets of any variety flowers for \$.25
- 12 packets of any variety flowers for .50
- 25 packets of any variety flowers for 1.00

size of an English walnut, and looks like small balloons, which, with its beautifully cut leaves and foliage, makes a delightful porch screen. . . . Pkt. 3

BALSAM (Lady Slipper or Touch-Me-Not).

Our climate is well adapted to the growth of the Balsam, and with good rich soil and care, plants and flowers of the greatest excellence are produced. Sow in a frame or bed.

- Double Camelia Flowered, Improved**—As double as a rose, which they resemble. Almost every shade of color. Pkt. 5
- Double Mixed**—All colors. Pkt. 3

AGERATUM—Mexicanum.

Very desirable for the garden and highly prized by florists because it bears a great many flowers, and keeps in bloom a long time. Valuable for making bouquets. Blooms constantly all summer, and if removed to the green house it will continue in bloom all winter. Grows 1 1/4 feet high. Plants should stand two feet apart. A half hardy annual, easy to cultivate and succeeds well in any soil. Our strain of seed is of extra fine quality. You should include this in your flower collection. Pkt. 5.



ALYSSUM

FLOWER SEEDS—Continued



CARNATION PINKS.

Extra Choice Mixed—This lovely flower, known to everybody, succeeds in rich, light soil, and will give better results from seed than if grown from slips of old plants. The seed we offer is from the best German growers, and cannot fail to please you.....Pkt. 10



COSMOS.

Bright Colors, Mixed—Plants four to six feet high, with fine feathery foliage, the flowers of all shades of rose, purple and pure white, are abundant late in the fall—September to November. Started early in April in a box, and planted out in May, they will flower before frost, and if taken inside will flower freely until the first of December; fragrant. For cutting, this is one of the finest flowers grown.....Pkt. 5

CALLIOPSIS (Coreopsis).

Fine Mixed—All colors. One of the most showy, free-flowering of hardy annuals; its graceful and showy flowers, embracing nearly every shade of yellow, orange and rich brown, verging to crim-

son, and borne on slender stems, are particularly well adapted for bouquets.....Pkt. 5

BACHELOR'S BUTTON. Hardy annual.

Best Mixed—Two to three feet high. Fine for cut flowers.....Pkt. 5

CANDYTUFT.

Mixed Colors—Universally known and cultivated; considered indispensable for cutting. All the varieties look best in beds or masses. Seeds sown in autumn produce flowers early in the spring; when sown in April, flower from June to September and some of the sorts till frost comes. All the varieties are hardy and easy to cultivate. One foot high.....Pkt. 15



CASTOR BEAN—Ricinus.

Stately, strong growing plants, with very ornamental foliage, particularly well adapted as center plants of groups of Cannas, Caladiums, Dahlias, etc.; of very quick growth in rich soil. Plant where they are required. Tender annual, four to fifteen feet high.

Giganteus—Of mammoth size..... Pkt. 5

Gibsoni—Dwarf; branching, rich foliage.... Pkt. 5

Common—Medium sized variety.....Pkt. 5

CYPRESS VINE—Ipomoea. Annual.

Scarlet and White,

Mixed—A beautiful climber, with delicate dark green feathery foliage and an abundance of bright star-shaped, rose, scarlet and white blossoms, which, in the bright sunshine presents a mass of rare beauty. Planted by the side of veranda, tree or stakes, and trained properly, nothing is prettier.....Pkt. 5



FLOWER SEEDS—Continued



DOUBLE DAISY. Perennial.

Fine Mixed—The Daisy is a charming little plant for edgings and borders. Give it a cool, partially shaded place. Sow seeds very early. The flowers are abundant in the early spring, and may be made to flower later by the use of water.Pkt. 5

FORGET-ME-NOT.

Alpestris Blue—The Forget-Me-Not is an old and favorite plant, bearing clusters of star-shaped, delicate blue flowers, with white and yellow eyes. It flourishes best in a moist, shady situation, and is in constant bloom nearly the whole season. If seeds be sown in autumn it will succeed best and flower earlier in spring. Height six inches.Pkt. 5

ESCHSCHOLTZIA—California Poppy.



Blossoms about two inches in diameter, of many brilliant and showy colors. A bed of Eschscholtzia in the sunshine makes a blaze of color. Sow where plants are wanted to bloom, as they do not bear transplanting. Thin to six inches apart; half hardy perennial, one foot high. Splendid mixed. Pkt. 5.

FOUR O'CLOCK.

(Marvel of Peru.)

Old-fashioned, but none the less beautiful. Plant large, requires four feet of space; makes a pretty hedge. Flowers are funnel-shaped, red, white and striped; very fragrant and opens about four o'clock in the afternoon, remaining open all night. Sow in open ground. Hardy annual.Pkt. 3

HOLLYHOCK.

Plant the seed in June or July in open ground, and in the autumn, when the plants have made five leaves, transplant to permanent position, three feet apart. The following summer they will bloom.

Allegheny New. The color varies from palest shell pink to ruby red. Blooms from June till frost. An acquisitionPkt. 5

Double Pure White—Well known favoritePkt. 3

Choice Mixed—Fine variety of colors.Pkt. 3

CANNA.

The Cannas are desirable not only for their beautiful flowers, but also for their ornamental leaves. There

are a great many varieties, the leaves of some being entirely green, while in others the leafstem, midribs and veins are red. In cold climates sow seed under glass. Roots can be kept in the cellar over winter.

Crozy, Large Flowered—Dwarf habit; blooms early. Remarkable for its beauty of foliage and flowers. Excellent for the potting.Pkt. 5



MORNING GLORY.

Japanese—New. A variety with flowers of unusual size, finely variegated, the leaves are also beautifully marked. A decided improvement. The seed is flinty and should be soaked in warm water till it swells before planting. Sow in May in a warm sunny place in rich soil.Pkt. 5

Common—MixedOz. 7; pkt. 3



MIGNONETTE.

A well known hardy annual, producing dense semi-globular heads of exceedingly fragrant flowers, borne on spikes from three to six inches long. It is in bloom nearly the whole season, and the perfume is so strong and fragrant that the whole atmosphere around is perfumed. If it is sown at intervals during the spring and early summer it will be in bloom until killed by frost. Seeds sown in autumn will bloom early in spring. Hardy annual; perennial if protected. One foot high.

Sweet Mignonette—Large flowering. Pkt. 3c; 1/2 oz. 10c; oz. 15c.

Golden Queen—A mass of golden yellow. Pkt. 5c.

Machét—Very dwarf; vigorous growth; massive spikes of deliciously scented red flowers. Pkt. 5c.

FLOWER SEEDS—Continued

MARIGOLD.

A well-known magnificent plant, with handsome double flowers of rich, beautiful colors, and neat, compact green foliage, producing a splendid effect in almost any situation. Half hardy annual.

- African**—Mixed; tall, two to three feet high. Pkt. 3
- French**—Mixed; dwarf, hardy and showy. Pkt. 3

MORNING BRIDE (Annual).

Mixed Colors—A useful and ornamental plant, with rich and beautifully colored flowers; effective for beds or borders; excellent for cutting. This old and well-known annual is not as generally cultivated as it deserves. Pkt. 3

NASTURTIUMS.

Half hardy annuals. Flowers of all different shades of yellow and red. The dwarf are round headed plants about a foot high, and make very fine beds for the garden. A bed of these Nasturtiums is very attractive.

One-half ounce 10c; ounce 15c.

- Dwarf Mixed**—Flowers of all different shades of yellow and red. The dwarf are round headed plants about a foot high, and make very fine beds for the garden. A bed of Dwarf Nasturtiums is very brilliant and attractive. Pkt. 3
- Tall Mixed**—The Tall Nasturtium is one of our prettiest and best trailers; it blooms more freely than dwarf varieties. Pkt. 3



NASTURTIUM



PHLOX.

In its great variety of rich colors, probably the most brilliant of all annuals. Fine for bedding, making a dazzling show throughout the entire season. Seed may be sown in the open ground in May, or in a hot bed or cold frame earlier; and during the summer and autumn they make a most brilliant bed of showy, yet delicate flowers. Set plants one foot apart.

Star or Cuspidata—The center of each petal runs out into a point one-quarter to one-third of an inch beyond the edge, which gives the flower a regular star-like form. This variety is of compact habit, and bears large umbels of flowers. The beautiful velvety florets, running through shades of scarlet, pink, violet, salmon and white produces an effect not excelled by any other flower. Pkt. 3

Drummondii—The colors range from the purest white to the deepest blood purple or crimson, and is not excelled by any other annual or perennial. During the summer they make a beautiful mass of showy, yet delicate flowers. Set plants one foot apart. Pkt. 3

PORTULACCA.

Makes a dazzling display of beauty, many hued, highly colored. In bloom from about the first of July till frost. Plant in the open ground after it has become warm, in light sandy soil and in a dry situation. Bed should be exposed to the sun.

- Finest Single Mixed**—Many beautiful sorts. Pkt. 3
- Double Rose Flowered**—Perfectly double; many brilliant colors, also striped. Mixed colors. Pkt. 5

FLOWER SEEDS—Continued



PINK—Dianthus.

All this beautiful class of pinks are hardy, and will flower the second season if not allowed to flower too freely the first season. Sow in a hot bed, transplant to six inches apart. If not kept too warm are useful for house plants.

- Fine Single Mixed**—These single pinks are notable for brilliantly colored flowers of large size.Pkt. 3
- Choice Double Mixed**—Large flowers as double and fragrant as a carnation.Pkt. 3

POPPIES.

Showy and ornamental plants with large flowers of brilliant colors. Very attractive in large beds, clumps and mixed borders. Of easy culture, succeeding in any garden soil. Flowers in great profusion all summer if sown early in spring. Sow where they are to remain, as they do not bear transplanting. Two feet high.

- Single Poppies, Mixed**—Many colors. . . .Pkt. 3
- Double Poppies, Mixed**—Unequaled for richness and variety of color.Pkt. 3

SNAPDRAGON—Antirrhinum.

An old favorite border plant, with curiously shaped flowers, with a finely marked throat. They have been much improved and are now really magnificent flowers. They will blossom the first season from seed sown in the spring. Two feet high.

- Mixed**—All colors.Pkt. 3

SALVIA—Flowering Sage.

Very ornamental plants, flowering in spikes, and continues to bloom in open ground till frost, when the plants can be removed to the greenhouse and will

continue to bloom a long time. Plants may be started in a hot bed and transplanted to light, rich soil, about one foot apart.

- Splendens**—A profuse bloomer with spikes ten to twelve inches long of intense scarlet.Pkt. 5



PETUNIA.

Petunias are unsurpassed, if indeed equaled, for massing in beds. Their richness of color, duration of bloom and easy culture will always render them welcome and popular. They do well sown in open border in the spring, or by sowing in hot bed they come earlier into bloom. Be careful not to cover the small seeds too deeply.

- Gen. Dodd**—Single; darkest red. Fine for massing.Pkt. 3
- Blotched and Striped**—Fine for pots, window boxes and bedding.Pkt. 3
- Single Mixed**—Will bring large beautiful flowers of superb colors and markings.Pkt. 5
- Double Mixed**—Sure to produce grand flowers. A certain proportion will come single or semi-double.Pkt. 20

SWEET PEAS.

Sow as early in the spring as the ground can be worked, in trenches five or six inches deep, covering the seed at first with only two inches of soil. As the plants grow fill in the earth about them. Keep the vines copiously watered, and cut flowers freely. Do not allow seed to form.

- Fine Mixed**—Does not contain so many varieties as Gilt Edge, but will give good results. Use it by the pound; it's cheap. Pkt. 5c; ¼ lb. 12c; lb. 35c.
- Gilt Edge Mixed**—Contains all desirable varieties and latest novelties, Pkt. 5c; oz. 7c. ¼ lb. 15; lb. 50c.
- Double Mixed**—Contains good assortment of best double varieties. Pkt. 5c; oz. 10c; ¼ lb. 25c.

FLOWER SEEDS—Continued

PANSIES



The Pansy is a popular flower with florists and amateurs, giving abundance of bloom until after severe frosts, enduring our hard winters with safety, and greeting us in the earliest spring with a profusion of bright blossoms. Pansy seed may be sown in the hot bed or open ground; if sown in the spring get it in as early as possible, so as to have the plants in bloom during the early rains. If sown in October they will flower in early spring. To have good flowers the plants should be vigorous and make rapid growth. Young plants give the largest flowers. The following varieties and collections are secured from specialists in Europe and elsewhere, regardless of cost. We do not hesitate to recommend them with the greatest confidence. No one can offer better stock, although their prices may be higher. At prices quoted here we give liberal packets according to quality of seed.

- White**—Satin white; yellow center.Pkt. 5
- Black**—Blackest pansy grown.Pkt. 5
- Yellow**—Pure yellow; very fine.Pkt. 5
- Purple**—Rich shade; elegant.Pkt. 5
- Brown**—Very good.Pkt. 5

- Red Flowered**—A new color in pansies; deep claret red. They come very true from seed. . Pkt. 5
- Good Quality, Mixed**—A good assortment, well mixed.Cz. \$1.50; pkt. 5
- Large Flowering, Mixed**—Very fine mixed, including all separate colors of German pansies. Pkt. 5
- Superb Mixed**—This mixture has been produced after careful selection and combining a number of high priced collections grown by specialists. We are confident it will please every one. . Pkt. 15

SPECIAL

We will send free to any address any 5 cent packet of flower seed in this catalogue at the following rate:

Six 5 cent packets for..... 25c
 Twelve 5 cent packets for..... 50c
 Twenty-five 5 cent packets for... \$1.00

Don't Delay. Send Order Now.

FLOWER SEEDS—Continued

VERBENA.

Seedlings are stronger and more vigorous than plants from cuttings, and are usually fragrant, especially the light colors. The seeds sprout very unevenly, some not coming up for six weeks after others. They flower perfectly well from seed sown in spring. If started in the house in pots or shallow boxes in winter, they will bloom sooner. Transplant as fast as plants are two inches high, two feet apart each way.



MAMMOTH VERBENA

- Mammoth**—This class of Verbenas produces flowers of enormous size, the florets being fully one inch in diameter and with white eyes. Our illustration, which is about one-half natural size, represents extremely well size and form. Mixed...Pkt.10
- Cloth of Gold**—A very effective, clear golden yellow foliage bedder; its deep crimson flowers form a striking contrastPkt.10
- Scarlet Defiance**—True deep scarletPkt. 5
- Pure White**—Quite true..... Pkt. 5
- Striped Varieties**—A great variety.....Pkt. 5
- Choicest Mixed**—Saved only from the most beautiful named flowersPkt.10
- Fine Mixed**.....Pkt.5

ZINNIA.

The Zinnia is a brilliant annual and general favorite, its splendid double flowers rivaling in beauty, size and form moderate sized Dahlias. They bloom until frost.



ZINNIA POMPON

- Pompon**—Charming, long, very double flowers, having colors ranging from pure white, through creams and buffs to clear yellow, and from softest pink to deepest crimson. Mixed.....Pkt. 5

- Large Flowering**—Finest double mixed Pkt. 5
- Double pure white**..... Pkt. 5
- Dwarf Fireball**—Double, fiery scarlet.....Pkt. 5
- Golden Yellow**—Flowers large, perfect in shape, clear golden yellow.....Pkt. 5

Miscellaneous List of Flower Seeds

The following is a list of the best known flower seeds. Six 5 cent packets for 25 cents to any address. Pkt.

- Agrostemma**—Annual. Fine for edging..... 5
- Canterbury Bells**—Hardy biennial. Bell shaped flowers 5
- Calendula (Pot Marigold)**—Hardy annual..... 5
- Coleus**—Annual. For ornamental bedding and pot culture 5
- Cockscomb (Celosia)**—Fine mixed..... 5
- Canary Bird Flower**—Annual. Ornamental creeper 5
- Collinsia**—Hardy annual. Mixed. Free bloomer. 5
- Evening Primrose**—Open evenings. Fine flowering plants..... 5
- Fox Glove (Digitalis)**—Mixed. Makes handsome plants 5
- Gourds**—Mixed. Small ornamental sorts..... 5
- Gypsophila**—Adapted to rockwork and edgings.. 5
- Godetia**—Annual. Mixed. Free and constant bloomer 5
- Gilia**—Annual. Mixed. Finely cut foliage, celestial blue blossoms..... 5
- Heliotrope**—Annual. Mixed. Fragrant. For bedding uses and pot culture..... 5
- Hyacinth Bean**—Annual. Splendid climber. Purple and lilac flowers..... 5
- Ice Plant**—Tender annual. Peculiar foliage... 5
- Larkspur**—Annual. Mixed. Produces dense spikes of flowers..... 5
- Lantana**—Perennial. Mixed. Bush covered with blossoms followed by berries..... 5
- Nicotina**—Sweet scented tobacco plant 5
- Nemophila (Love Grove)**—Mixed. Exquisite flowers..... 5
- Nolana**—Annual. Mixed. Trailing plant for baskets or rock work..... 5
- Sensitive Plant**—An oddity. Attracting attention 5
- Sweet William**—Hardy perennial. Fine mixed.. 5
- Smilax**—Tender perennial. Fine climber..... 5
- Sunflower**—Annual. Dwarf double. Good for screens 5
- Sunflower (Mammoth Russian)**—Large, productive; ¼ lb. 10c; oz. 5c..... 5
- Sedum (Stone Crop)**—Mixed. For rockery or hanging baskets. 5
- Violet**—Fine for beds and edgings in shady situation 5

Special price made on large quantities. We carry nothing but high grade seed that will pay you to grow.

Summer Flowering Bulbs

Bulbs and plants are sent by mail, prepaid, unless otherwise noted, and unless specially ordered otherwise. When seeds and bulbs are ordered together, those not injured by frost will be sent at once, and the more tender ones later. If larger quantities are wanted, please write, and we will be glad to quote good prices.

AMARYLLIS.

These bulbs produce attractive showy flowers, resembling lilies. They require rich soil and plenty of water during their growing period. Each

- Formississima (Jacobean Lily)**—Flowers deep crimson; color very striking. 10
- Atamasco**—Fine for bedding. White suffused with rose. . . . Doz. 35c; three for 10c; each 5
- Johnsonii**—Flowers large, crimson, striped with white. Very fine. 25

AMPELOPSIS—Ivy.

- Boston or Japan Ivy (Veitchii)**—A variety that has tendrils so strong that they cling to any kind of wall, wood, brick or stone, clothing it during summer with a mass of deep green overlapping leaves. These change in autumn to a bright yellow and crimson. 25
- Virginia Creeper American Ivy**—A perfectly hardy variety under all conditions. Grows very rapidly. 25



BEGONIAS—Tuberous Rooted.

The extra large size and beautiful colors recommend this flower to all. They are easily grown and cared for. For growing in pots or boxes in the house, plant in rich sandy soil; give good drainage, water freely after the leaves start, but do not let the soil become sour or logged from over watering. If it is desired to have a bed outdoors, select a shady, moist situation, making the bed rich with thoroughly rotted manure and leaf mould, if obtainable. Plant as soon as danger from frost is over. After the plants start into vigorous growth keep well watered. If planted in a proper situation no plant will give a more magnificent display throughout the summer. The single varieties are most satisfactory for general purpose.

- Single Mixed**—Fine tubers embracing every shade of color. Doz. 75c; four for 25c; each 10
- Double Mixed**—Fine mixtures of many varieties. Doz. \$1.50; four for 50c; each 15

CANNAS.

These magnificent bedding plants have grown in popularity. Their size, foliage, brilliant bloom and

stately appearance are making them favorites everywhere. The named varieties we offer afford a selection of some of the most distinctive varieties in color and size. The unnamed colors allow the purchase in quantity at a moderate price where wanted for growing in masses or beds of large size.



- Madam Crozy**—This grand sort has flowers of deepest vermilion red, with a distinct gold border; almost incessantly in bloom and have large individual flowers. Height 4 ft. D z. \$1.00; each 10
- New Yellow Canna Burbank**—California seedling of great merit; giant orchid-like, canary yellow, double the size of Madam Crozy. Fine bedding plant with large leaves. Doz. \$1.00; each 10
- Flamingo**—A superb variety. Flowers very large and of fine, even rounded form. Color, deep, glowing crimson, exceedingly bright and attractive. Plant vigorous, with massive dark green foliage. Sure to become a popular bedder, and one of the best for indoor blooming in winter. Three and one-half feet. Doz. \$1.00; each 10
- Duke of Marlborough**—Three feet The darkest Canna known, a beautiful crimson maroon. This is a sturdy, erect grower, fine metallic green foliage. No matter how many varieties you have you need this to make your collection complete; it is entirely distinct from all others. . . . Each 15
- Red Shades, Mixed** Doz. 75c; each 8
- Yellow Shades, Mixed**. Doz. 75c; each 8
- Bronze Shades, Mixed**. Doz. 75c; each 8

SUMMER FLOWERING BULBS Continued



CALADIUM—Elephant's Ear.

A beautiful, large, showy foliage plant, immense leaves, frequently four feet by two and one-half feet. Plant often attains a height of five feet, the immense leaves producing a tropical effect. Better results are obtained by starting the bulbs for a month in pots. Transplant to the open ground when the weather has become warm. Have the soil very rich and supply abundant moisture.

- First Size**—Bulbs one and one-half to two inches in diameter.....Doz. \$1.00; each 10
- Larger Sized**—Two and three inches in diameter.....Doz. \$2.00; each 20
- Mammoth Bulb**—Produce enormous stalks and leaves.....Each 50

CLEMATIS.

"Queen of the climbers" is an appropriate term. There is nothing to compare with it for covering porches, trellises, etc. They require a sunny location. Their growth is so rapid they will reach a height of fifteen feet during the season. Dig the ground deep, make it rich, and water whenever needed. We offer fine large plants in good condition to grow.

Madam Edward Andre—This new variety of a brilliant crimson, a color in Clematis heretofore unknown. It is a rapid grower, hardy and very prolific in bloom.....Each 50

Paniculata—A fine, hardy variety, having small sweet scented flowers borne in immense numbers. One specimen of which we know furnished a bushel basket full of bloom at one time, and yet they were hardly missed from the vine. The flowers appear in September. One of the best Clematis to use as a screen, as it grows up very rapidly and has glossy green leaves. Extra strong plants 30c.....Each 25

Jackmanii—Large, rich, deep purple flowers. A very popular sort everywhere. Very hardy, but does best if given some protection. Strong plants that will bloom some this season. Extra strong plants, 75c.....Each 50

Henryii—Leading white variety. Strong grower, having flowers of large size and creamy white. Large plants. Extra strong plants, 75c... Each 50



CINNAMON VINE.

This beautiful climber is perfectly hardy, the stem dying down every autumn, but growing up again so rapidly in the spring as to completely cover any trellis or arbor in the season. It is as easily cultivated as the Madeira Vine, has no insect enemies, and is not affected by drouth; and, with its beautiful heart-shaped leaves, bright green peculiar foliage, and clusters of delicate white flowers, it is one of the most desirable climbers in cultivation. Strong roots. Four for 25c; two for 15c; each 8c.



GRAND DUKE ALEXIS.

DAHLIAS.

SUMMER FLOWERING BULBS—Continued

DAHLIAS.

(See cut preceding page.)

The Dahlia has always been a favorite for autumn flowers, being large symmetrical and perfect. Colors, brilliant and varied. Set three feet apart after danger of frost is over. Support plants by tying to stakes.

Grand Duke Alexis—Largest variety known; sometimes six inches in diameter. Entirely new form, each petal being twisted and curved funnel shaped with astonishing regularity. Pure white, shading to most delicate, charming shell pink. Each 20c.

Maid of Kent (Grand Mogul)—Intense scarlet, variegated with pure white, often solid scarlet. A pure Cactus Dahlia of large size. Extra fine. Height four feet. Each 15c.

Kaiser Wilhelm—One of the grandest sorts; immense size and perfect form. Deep yellow, shaded and tipped with cherry red. Three feet high. Each 10c.

John Elitch—Best red Dahlia grown. A broad leaved cactus with long stems. Solid dazzling red. Large and double to center. Five feet high. Each 15c.

Prince of India—Very large, often six inches in diameter; very prolific. Flowers of perfect form, remaining full in center after outer petals have faded. Color a beautiful, rich crimson. Four feet high. Each 15c.



GLADIOLUS.

One of the most showy and attractive of summer flowering bulbs. Numerous varieties and easy of culture. They thrive in almost all soils. Plant where they will get plenty of sunlight. Set bulbs six to eight inches apart, large ones four inches deep, small ones two inches deep. Make an early planting, as soon as ground is warm and dry, and additional plantings every week until middle of June for a succession. Flowers are borne in tall, dense spikes, and in every shade of delicate, rich and brilliant coloring. For cut flowers in vases, for house and table decorations, no flower is more beautiful or lasting.

	Each	Doz.	100
Red of various shades	3	25	\$1.50
Striped and Variegated	4	45	3.00
White and Light	5	50	3.00
Yellow Shades	5	50	3.75
Pink Shades	4	40	3.00
Extra Fine Mixed	3	25	1.50

HARDY LILIES.

Lilies thrive best in a dry, rich soil. They should be planted deep, as they form two sets of roots, one below,

the other above the bulb. All the Lilies listed here are hardy out doors.

Auratum (Gold banded)—Extremely fragrant and very beautiful. Flowers dotted with crimson, with a gold band running through center of each. Each, 15c.

Longiflorum (Easter Lily)—Favorite sort for garden. Each, 15c.

Tigrinum (Single Tiger Lily)—Flowers orange red, spotted with black. Each, 15c.

Tenuifolium—Of dwarf habit. Flowers bright red, drooping. Each, 15c.

HYDRANGEA—Paniculata Grandiflora

These noble summer and autumn flowering shrubs are absolutely hardy, grow in any soil, and bloom same year they are set out: will flower abundantly, bearing immense panicles of bloom, white at first and turning to rose in autumn. An annual shortening of the branches tends to increase the size of the flowers. Large plants by express, 25c to 50c.



MADEIRA VINE.

The old favorite "Climbing Magnonette," thick glossy leaves and long feathery, very fragrant white flowers. Pint, 25c; one-half pint, 15c; each, 5c.

RUBBEEKIA—Golden Glow.

This plant is compact, growing four to five feet high, producing numerous stems which are laden with double golden yellow flowers, in size and general appearance resembling a Cactus Dahlia. Doz., \$1.00; each, 10c.

TUBEROSE.

Flowers waxy white and the sweetest scented flower that grows. The growing plant is fond of light and heat and must have full sunlight when bedded, and plenty of water after it begins to grow freely, but not too much water when first started, and should not be planted outside before May 1st.

Excelsior Dwarf Pearl—Flowers large, very double.

- Stem two to three feet tall. The following sizes:
- Small sized bulbs—Large enough to bloom. Doz., 25c; each, 3c.
- Medium sized bulbs—Very good ones. Doz., 40c; each, 5c.
- Mammoth sized bulbs—Extra fine. Doz., 60c; each, 7c.

FRUIT PLANTS

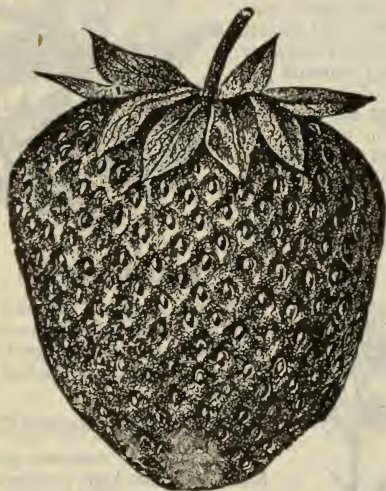
Prices—Our prices are as low as first-class plants can be sold in quantities mentioned. Good plants put up in first class shape cannot be sold at shoddy prices without loss to somebody. Cheap plants, as a rule, mean poor plants. We sell 50 plants at the 100 rate; 500 at the 1,000 rate. No plants sent C. O. D. Our prices by dozen and 100 include postage; by the 1,000 they are not prepaid.

Good Packing—We pack in first class shape; plants trimmed, roots straight and tied up in bundles. Packed in good clean moss. No charge for packing.

Never Substitute—When ordering late please give second choice to avoid delay of writing you, as we never substitute without permission.

Varieties marked **P** are pistillate, that is have imperfect flowers, and must have a variety marked **S** or staminate planted alongside every second row. The pistillate are the more productive.

STRAWBERRIES.



CRESCENT

Crescent (P.)—Has earned a place at the head of the list. This is a very prolific berry, bearing profusely even under neglect. A great cropper; early. Fertilize by planting Bederwood alongside each or every second row. Doz., 25c; 100, 80c.

Bederwood (S.)—Commences ripening early and lasts a long time. Bears bright red berries on a stiff upright stem, which keeps them free from soiling. Doz., 25c; 100, 80c.

Warfield (P.)—This is one of the free growing plant makers. Berries medium size, roundly conical, rich dark red color all the way through, very firm and a good shipper. Fertilize with Bederwood or Splendid. Doz., 25c; 100, 80c.

Splendid (P.)—This berry is well named. It is very productive, of uniform medium sized berries—berries that are firm and show up well in the package. It is an excellent shipper. Doz., 25c; 100, 80c.

Gandy (S.)—This is the standard late berry of America; large, firm, uniform and very attractive. Will not do its best at fruiting time on light, sandy soil. Black swamp or medium stiff soil seems to suit it best. Doz., 30c; 100, \$1.00.

RASPBERRIES.



Gregg—This black cap does much better in a clay or timber soil than it does on prairie soil. A fine, large popular late sort. Per doz., 50c, postpaid; by express, not prepaid, per 100, \$1.25; per 1,000, \$8.00.

Older—Originated in Iowa years ago, and has stood all our test winters. The hardiest and most productive of any. The berry is coal black, about the size of the Gregg. Ripens about three days earlier than Tyler or Palmer, and about six days earlier than Gregg, and lasts the longest of any. Decidedly the richest and best berry when canned. It stands without a rival in resisting cold and drouth, in northern Iowa, northern Illinois and Wisconsin. Try it; you will not be disappointed. Per doz., 50c, postpaid; by express, not prepaid, per 100, \$1.25; per 1,000, \$8.00.

Palmer—The best and most productive of any of our very early black cap raspberries. Three pickings will take about all the fruit. It produces a heavy crop of good sized berries that you can get into market the first of any, and get the best prices. Per doz., 50c, postpaid; by express, not prepaid, per 100, \$1.25; per 1,000, \$8.00.

Cuthbert—The standard red raspberry. Does well on any soil, but, like all red raspberries, succeeds best on clay or timber soils. Doz., 50c; 100, \$1.25.

BLACKBERRIES.



Snyder—Esteemed in the coldest portions of the country on account of its extreme hardness. Berries of medium size, but produced in abundance; sweet, juicy, and when fully ripe without a hard core. Well adapted to the northwest, where severe winters injure other varieties. Doz., 50c, postpaid; by express, not prepaid, 100, \$1.25; 1,000, \$8.00.

We are prepared to furnish you with the best in all of these different plants at bottom prices. Place orders early. Special quotations made.

PLANT STANDS

We carry a large stock of plant stands and can fill all orders promptly. Our stands are well put up, very strong and durable, will outlast any other. The prices below given include the arch, if you don't want arch deduct \$1.00 from the price listed. Send for complete circular.

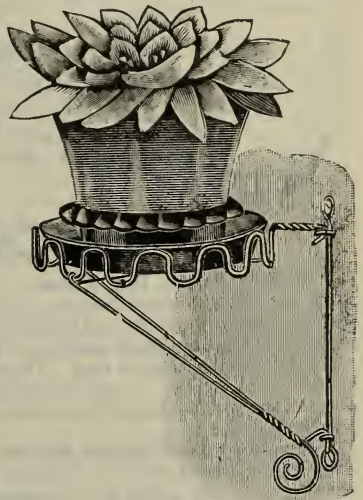
Order by number.

No. 7, 6 feet 6 inches high, holds 24 pots,	price \$4.50
No. 8, 6 feet 8 inches high, holds 30 pots,	" 6.50
No. 9, 3 feet 6 inches high, holds 35 pots,	" 7.00
No. 10, 5 feet 7 inches high, holds 20 pots,	" 4.00
No. 11, occupies 24x30 space holds 18 pots,	" 2.75
No. 12, 5 feet 6 inches high, holds 14 pots,	" 3.50
No. 13, 6 feet 6 inches high, holds 30 pots,	" 5.00

WIRE BRACKETS

Very desirable for window decorating. Easily put up and can be readily removed. Very durable.

5 inch size, each . . .	15c
6 inch size, each . . .	20c
7 inch size, each . . .	25c



No. 10

FLOWER POTS

We carry a very complete stock of the best grade flower pots, jardiniers, hanging baskets, etc., and can supply in any quantity.

All orders to be shipped should amount to at least three dollars, when we pack and deliver to our depot free of charge.



Fluted Pots

Diameter	Each	Doz.	100
4 inches	3c	\$.30	\$1.80
5 inches	4c	.40	2.75
6 inches	6c	.60	4.00
7 inches	8c	.85	6.00
8 inches	12c	1.15	7.75
9 inches	17c	1.60	
10 inches	22c	2.25	
12 inches	40c		
15 inches	90c		

To those who wish larger quantities than here mentioned, we will be pleased to make a special price on application.



Saucers

Diameter	Each	Doz.	100
4 inches	2c	\$.15	\$.90
5 inches	2c	.18	1.25
6 inches	3c	.30	2.00
7 inches	4c	.35	2.15
8 inches	5c	.45	
9 inches	6c	.55	
10 inches	8c	.70	
12 inches	15c	1.25	
15 inches	25c		

Gold Fish and Aquaria Supplies



you from fifty cents upwards to five and six dollars, or you can choose what you want from list given below. Plain gold, gorgeous tailed, pearly, oriole, we have them in most any size from 10 cents up, nice fish can be had for 10, 15, 20, 25, 30, 35 and 40 cents each. Parties ordering by mail can depend on getting as fine assortment as if here themselves; when they are to be shipped add ten cents for bucket.

An aquarium is a beautiful household ornament, it suits everywhere, especially the apartments of the sick. It has a tendency to make the home cheerful and the inmates happy. An aquarium is no longer a luxury, for we have made our prices so low that no home should be without one. Full information sent with every order. Aquarium supplies are sent by express at the expense of purchaser. Distance need not stand in the way of procuring them, as we ship fish hundreds of miles with safety. We make up outfits costing



FISH GLOBES

1 gallon standing globe.....	\$1.00	3 quart hanging globe.....	\$.50
1½ gallon standing globe.....	1.40	4 quart hanging globe.....	.60
2 gallon standing globe.....	1.75	6 quart hanging globe.....	.75
1½ quart hanging globe.....	.20	8 quart hanging globe.....	1.00
2 quart hanging globe.....	.35	10 quart hanging globe.....	1.25

Fish food ten cents per box, postpaid.

Dog Cakes and Remedies

Spratt's Patent Dog Cakes. Spratt's patent dog cakes are a staple and constant diet, no other food being necessary. Dogs fed on them and nothing else for years have remained in the very best condition. They are not medicinal, but a plain wholesome food. They will keep any length of time in a dry place. Prices, three pounds, 25c; five pounds, 40c; ten pounds, 75c; twenty-five pounds, \$1.75; one hundred pounds, \$6.50.

Spratt's Patent Terrier Biscuits. These are especially prepared for terriers of all breeds, and other medium sized dogs. Price, carton 25 cents, not postpaid.

Spratt's Patent Pet Dog Biscuits. Especially prepared for small pet dogs. May be fed dry or broken in milk. Price, carton, 35c.

We carry a full line of dog soap and medicine. Circulars sent free.



Fruit Boxes and Baskets

A neat, clean package, in which to put your fruit, goes a long ways toward selling it, and for highest market price. We carry a large stock and can usually supply in any quantity, from 1,000 to car load of the best white wood. Ask for special prices on large quantities; mention amount. The quality is unexcelled, the wood being the toughest fibre and close grained; hence no loss in making up. In ordering boxes it is best to get also a form, magnetic hammer and tacks, so you are ready to go ahead without delay, making your boxes.

Michigan Square. Strongest and most durable box made. Write for prices.

Crates for Michigan boxes.

Warren's Picking Crate. Each 25c.

Tacks and Crate Nails.

Magnetic Hammers. Selected.

Forms and Wire. Write for prices before you buy.

Grape Baskets. We buy in car lots and make as low prices as any one, considering the quality. Special prices made on large quantities.

Climax 8 pound size complete with cover. Write for prices.

Diamond Markets. One or two handles, dozen 35c; one hundred \$2.60.

Bushels. Each 15; dozen \$1.50.

All Fruit Packages are shipped at the expense of the purchaser.

INSECTICIDES

FERTILIZERS



Slug Shot.

Non-poisonous; no danger need be apprehended by the person applying it, nor will it injure chickens or animals should they eat it, unless in large quantities. It does not render injurious the vegetable and fruits on which it is applied, and yet it is probably the best insect destroyer ever offered for the destruction of potato bugs and all worms and insects. It comes ready to be applied, and is simply dusted lightly on, so that it reaches all parts of the plants. For further information send for slug shot circular; sent free.

Prices—By mail, postpaid, pound 25c; not prepaid, 5 pounds 35c; 10 pounds, 60c; 50 pounds, \$2.50; 100 pounds, \$4.50; barrels holding 235 pounds, net 4½ cents a pound.

Dusters for slug shot or other powders—One half gallon size, 30c.

Sulpho Tobacco Soap. In this preparation we offer to the florist, to the amateur grower, and all who are interested in flower growing, either indoor or outdoor, a tobacco preparation which meets the necessity for an easily applied and absolutely effectual insect destroyer. It is dissolved in warm or cold water and sprinkled or sprayed over the plants. Very easily done, very effectual; absolutely safe in use on tenderest plant, and is non-poisonous. It is a very vigorous fertilizer; 2 oz. pkg., 10c; postpaid 15c; 6 oz. pkg., 20c; postpaid 25c.

Persian Insect Powder. The best known of all insect destroyers, and when fresh, is almost sure death to all kinds of insects. Postpaid, oz., 7c; ¼ lb., 20c; lb., 65c.

Whale Oil Soap. One of the cheapest and most effective remedies to destroy slugs, bugs, insects, etc., on trees, plants, etc. Dissolve one pound in seven gallons of water and sprinkle on the foliage. Postpaid, lb., 30c; not prepaid, lb., 15c; 8 lbs., \$1.00.

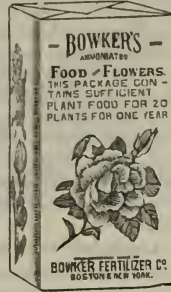
Flyo Curo.—Will keep flies off horses, cattle, hogs, etc. Horses don't need to fight flies all day, you have no trouble with the cows at milking time, and all animals thrive where Flyo Curo is used. Quart can, 75c; 3 for \$2.15.

Express or Freight to be Paid by Purchaser

The commercial fertilizers should be known to be appreciated by both market and private gardeners. We briefly mention some of them to induce the reader to begin experimenting how to use them. Try them on a part of the plants as they are injurious used injudiciously, yet anyone can well afford a small loss to acquire an intelligent use of them.

Bowker's Food for

Flowers. Perfectly odorless and clean. Full directions and care of household plants is given in a little booklet entitled "Window gardening," free with each package; ½ package, 15c; postpaid, 25c; 1 lb. package, 25c; postpaid, 40c. (Cut shows large package.)

**Ground Bone.** Good for

all purposes; especially adapted for lawns and florists' use. Very strong and lasting. Stable manure is offensive and contains an abundance of weed seeds. Price best grade bone, lb., 5c; 10 lbs., 30c; 25 lbs., 65c; 50 lbs., \$1.20; 100 lbs., \$2.25.

Nitrate of Soda. This looks much like common salt and should be kept from domestic animals as it is injurious to them. It produces stem and leaf growth early in the cool spring weather before the plants can avail themselves of other plant food in the soil. Try sowing two pounds to the square rod on your lawn in spring when grass starts. Try sowing two pounds per square rod on onions. Try scattering a tablespoonful around each tomato plant when six inches high in a circle two feet in diameter and see the effect following after a rain.

How to use Nitrate of Soda

The lumps in this should be removed by sifting; they should be broken up, which is easily done by pounding.

For Asparagus, a top dressing of 250 lbs. per acre just as soon as the first shoots make their appearance.

For Beets, a top dressing of from 50 to 100 lbs. per acre once every week or ten days for at least three or four weeks after the plants have well started.

For Cabbage and Cauliflower, a top dressing of 100 lbs. per acre after the plants have begun to make growth after transplanting, and 200 lbs. per acre more after the heads begin to form.

For Cucumbers or Pickles, a top dressing of 100 lbs. per acre after the plants begin to run.

For Celery, frequent and reasonably heavy top dressings of 100 lbs. per acre or more well worked into the soil after the plants are established.

For Egg Plant, Spinach and Lettuce, a top dressing of 100 lbs. per acre after the plants are well started.

For Onions, a top dressing of from 75 to 100 lbs. two or three times at intervals of about three weeks, after the crops have well started.

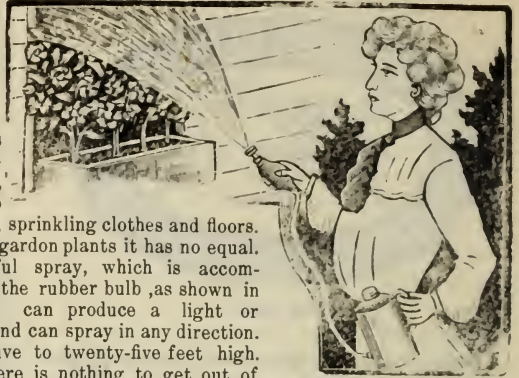
For Strawberries, a top dressing of about 100 lbs. per acre after the plants have blossomed.

Price, one lb., 10c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.00, not prepaid.

Sprayers and Garden Tools

The Lightning Whirling Spray

This sprayer is best adapted for garden use, greenhouses, house plants. Also for washing windows, sprinkling clothes and floors. For killing insects on garden plants it has no equal. It throws a powerful spray, which is accomplished by squeezing the rubber bulb, as shown in cut. The operator can produce a light or heavy spray at will, and can spray in any direction. It will spray from five to twenty-five feet high. It is durable and there is nothing to get out of order. It is easy to operate and very useful in every household. Price, \$1.00, not postpaid.

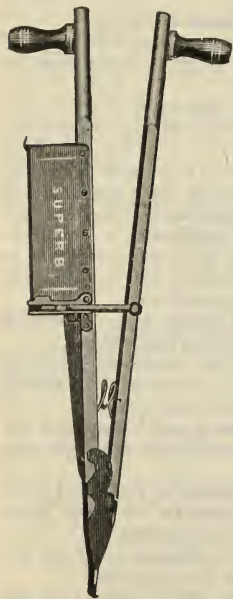


Myers Brass Spray Pump

as fine as mist. Not a drop of it is wasted, as it is so fine that it readily adheres to all parts of the foliage. It is adapted to all crops growing near the ground, also small fruit trees; to stock raisers to spray their work horses or milch cows with, to drive away flies, using: Fish oil, two quarts; crude carbolic acid, one pint; oil penny royal, one ounce; oil of tar, eight ounces. Mix together and spray with the Lightning Exterminator, thereby relieving the animals of pain and misery caused by these pests. Price, double-tube, galvanized tank, 75c; copper tank, \$1.00; glass tank, 75c.

Lightning Insect Exterminator.

It kills or drives away everything in the way of an insect pest obnoxious to yourself, your animals or your crops. The air chamber is of large capacity so that only one stroke is necessary to cover an entire hill of potatoes; and the reservoir holding two quarts supplies sufficient for 2,000 hills. It is a great saver of liquid insecticides as it throws a spray



Myers' Brass Spray Pump. It is fitted out complete with hose, combination vermorel, fine and coarse spray and solid stream nozzle. It is made of brass and is not affected by the poisonous arsenites used for spraying. The work is done on the down stroke of plunger and nothing on the up. It is very easy to operate and has great power. Will throw a solid stream 50 feet and is of unusual value for washing windows, buggies, etc. For spraying fruit of all kinds it is arranged so that it discharges a fine jet into bottom of bucket to keep the solution thoroughly mixed and agitated. We can furnish formula for spraying different kinds of fruit and tell when it should be done. The pump is provided with a combination nozzle, and also with a sprinkler for flowers, and will throw a spray as fine as mist, or as coarse as required. It can be bolted to the inside of a barrel if wanted by removing the foot rest. Price, bucket size, \$3.75; barrel size, \$6.00.

GARDEN TROWELS

New Handy Digger. This trowel is one solid piece of steel; shank and blade very strong, and will not pull out of the handle. 6 inch blade, each 25c; 7 inch blade, 50c, postpaid.

Common Steel. Very useful in loosening the soil or in transplanting of plants. They are made of fine cold rolled steel with malleable iron shanks, firmly riveted. A first class article of the kind. 6 inches in length, 20c, postpaid; 7 inches in length, 25c, postpaid.

Forged Steel Garden Trowels. The blade and shank are made of one piece of steel, being forged out in the same way as mason's brick trowels. They are very strong. 5 inch 40c, postpaid; 6 inch 50c, postpaid.



ROTARY CORN PLANTER

Decidedly the best hand corn planter made, and a very desirable implement for those who have but a small field or need to replant their ground. It puts the corn exactly where you want it and at the proper depth. It is easily worked and a most satisfactory tool in every way. Each \$1.25.

GARDEN TOOLS

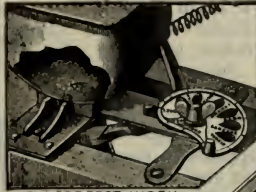
The record of the New Model Drill has been entirely satisfactory, and its place as one of the leading drills has become firmly established. It is simple and easy to operate; built strong; large wheel in front makes running easy; a perfect hole for the seed to pass through, being diamond shaped, and can be adjusted to any size. The index is plain, a simple agitator which does the work and never gets out of order. Price, \$7.50.

The No. 4 Combined Single and Double Wheel Hoe and Drill Seeder. This tool will do most any work as it can be changed to make any of the above named tools. Has a high wheel, a nice set of tools and is a good seeder. Price, \$9.50.

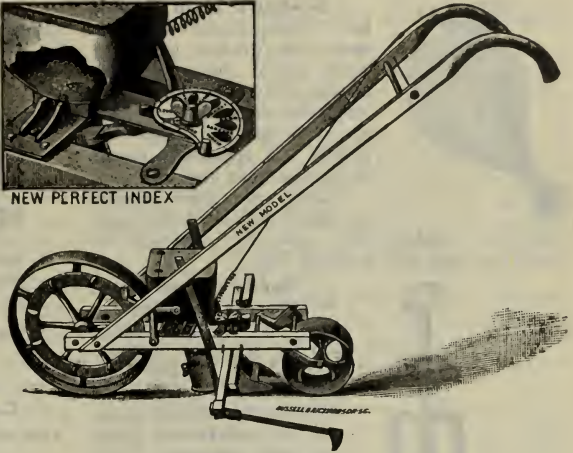
The No. 15 Combined Single Wheel Hoe Hill and Drill Seeder. This differs from the No. 4 in that it has only a single wheel hoe but has a hill dropping attachment as well as a drill. Price, \$9.50.

The Dixie Horse Hoe. With plain wheel and lever expander. Makes a light tool which will do the work of a small garden and can be adjusted readily by the lever. Price, \$5.50.

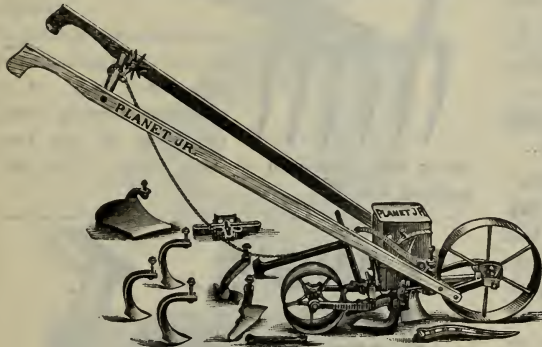
The Dixie Horse Hoe With expander lever only, the other parts being the same as above machine except it is without wheel. Price, \$4.50.



NEW PERFECT INDEX



New Model Drill.



Planet Jr. No. 4 Combined Drill.

Planet Jr. No. 12 Double Wheel Hoe. This is the new style of this machine with adjustable expansion arch; it has one pair hoes, four cultivator teeth and one pair of ploughs and leaf lifters. Price, \$7.00.

Planet Jr. No. 17 Single Wheel Hoe. This is one of the best in single wheel machines. Has an adjustable wheel which can be set to one side if you wish to use it as a double machine. Has one pair of hoes, three cultivator teeth and plow. Price, \$5.00.

Planet Jr. Horse Hoe. It has five shovels with extra steels for hilling work. Has lever adjuster on wheel and a lever expander. It is well built and will last for years. Price, \$8.00.

McGee Garden Cultivator. For hand cultivation no tool has ever been produced that excels the McGee Garden Cultivator either in ease, quickness or thoroughness of work. It has an arch frame and two wheels like a tongueless cultivator, springs between the beams on handles, and arch enables the operator to control easily, accurately and instantly the side movement of the knives or cultivators. The McGee is furnished with a set of weeding knives and a set of cultivators. Price, \$4.25.

Planet Jr. Tools

Planet Jr. Combined Single Wheel Hoe Hill and Drill Seeder. This is one of the finest tools of its kind on the market today. Is very easily changed from one tool to another. Has a very adjustable index and a force brush feed. When used as a cultivator the drill part is entirely taken off. Price, \$10.50.



AS A HOE
McGee Cultivator.

Tools and Traps



Scolley's Plant Sprinkler. Indispensable for floral work or window gardening. Very useful for dampening clothes or for all purposes where sprinkling is necessary. They are often used for years constantly and apparently remain as good as when new.

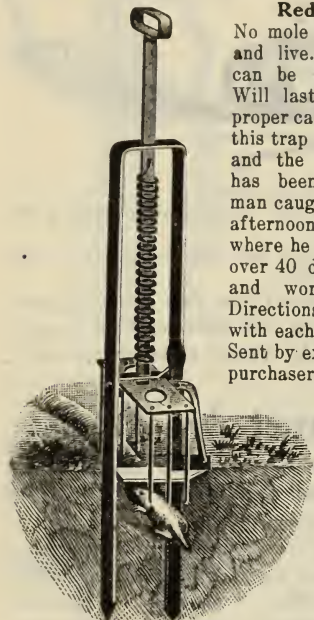
Large size, either straight or angle neck, each 85c; postpaid 95c. Medium size, each, 65c; postpaid 73c. Small size, each 45c; postpaid, 51c.



NEW PRINCIPLE

When properly set will catch 19 out of 20. **The Best Trap Made for POCKET GOPHERS.**

No Danger and Easy to Set. Sure Catch. Sample trap, sent postpaid for 25 cts. Full Directions With Each Trap.



Reddick Mole Trap. No mole can pass under it and live. Easily operated, can be set in a moment. Will last a lifetime with proper care. We have sold this trap for several years, and the satisfaction given has been universal. One man caught three during an afternoon while set near where he was at work, and over 40 during the season, and won a \$5.00 prize. Directions for operating go with each trap. Price, 75c. Sent by express or freight at purchaser's expense.

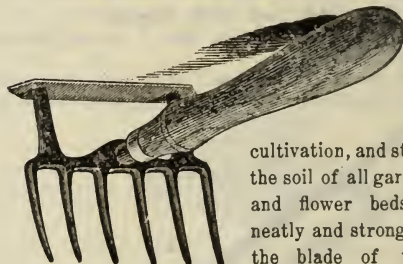
These traps will do the work...

The Out-o'-

Sight Mole Trap One of the best mole traps on the market. Especially valuable for hot beds on account of its convenient height.

Full particulars for setting with each trap. Price, \$1.00; postage 25c; \$5.00 for half dozen.

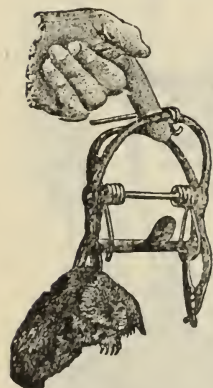
Combination Weeder. Combining both the rake and hoe. A perfect weeder. Specially adapted to



cutting weeds and grass, shallow

cultivation, and stirring of the soil of all garden crops and flower beds. It is neatly and strongly made, the blade of the best

spring steel, sharpened on both edges. Price, 30c; postpaid, 40c.



Daisy Spraying Pump. This popular little sprayer is used for spraying insecticides and white-wash in the poultry house, also for spraying fruit trees and plants. Price only \$1.00, prepaid. Can be sent by express only.



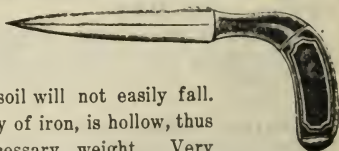
Excelsior Weeding Hook. Indispensable to the cultivation of flower or vegetable garden. Price 15c each; postpaid 20c.

LANG'S HAND WEEDER

HANDIEST TOOL ON EARTH. 25c By MAIL PREPAID



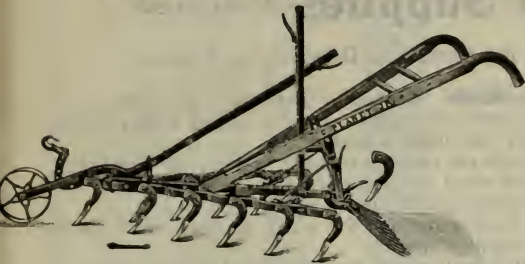
Improved Transplanting Dibble. Especially designed for setting out all kinds of plants. Is superior in design and finish, making a smooth hole



into which the soil will not easily fall. Is made entirely of iron, is hollow, thus avoiding unnecessary weight. Very strong and just fits the hand. Each, 35c; postpaid, 40c.

Wood Handle Dibble. This dibble has a smooth steel point with large handle; light, strong, durable. *Small.* For setting small seeding plants. Each 20c; postpaid 30c. *Large.* For setting all kinds of vegetable and fruit plants. Each, 30c; postpaid 40c.

GARDEN TOOLS—Continued]



Planet Jr. No. 12 Tooth Harrow. This too is made for light or shallow cultivation, having twelve teeth in place of shovels, a liner expander and a liner adjuster on wheel with a pulverizer which can be attached to the rear, leaving the ground in excellent condition. It is one of the most useful tools on the market, especially useful in strawberry raising. Price, \$8.50.

BROADCAST SEEDERS



Broadcast Seeder

Little Giant Crank. One of the best hand seeders. Very simple, easy to operate. It is cheap and always ready for use. It works whether windy or not. It has a crank and is operated by a cog wheel gearing. Iron frame; agitator to prevent seed from clogging; hand hold on side; strong, light and easy running. Sows flax and clover 36 feet to the round; wheat, 50 feet; buckwheat, 46; barley, 40; oats, 36; timothy 27. Price, only \$1.75.

Little Giant Fiddle Bow. Same as above except that it is run by a bow instead of a crank, and not quite so easy to operate. We have an overstock of this seeder on which we are making the low price of 75c. Send and get one.

Columbian. We take pleasure in offering this new seeder, knowing it will prove satisfactory in every way. It is operated by a crank same as the Little Giant, but it has a cut off attachment and a cast distributing wheel. A first class seeder in every way. Price, \$1.75.

Poultry and Stock Supplies

We carry a complete stock of poultry supplies of the best quality, and on which we make the lowest prices. A few of the prices given here are subject to important market changes.

Lee's Lice Killer is a liquid preparation for destroying insects on chickens, hogs and other stock, without the necessity of handling, dipping, dusting or greasing fowls or animals. Price, 1 qt. can, 35c; ½ gallon can, 60c; 1 gallon can, \$1.00; not postpaid.

Lee's Egg Maker. It supplies material needed by all fowls. 2½ lb. package, 25c; not postpaid.

Lee's Hog Remedy prevents and cures worms, indigestion, coughs, fevers and stomach disorders; it is an appetizer and digestive assistant. It is a preventive and cure for cholera in early stages. Price, twenty-five pound keg, \$2.00; not prepaid.

Peerless Gopher Killer is a quick and positive exterminator for gophers, ground squirrels or prairie dogs that burrow deeply in the ground. When poured in the gopher holes it forms a heavy gas, which sinks to the bottom of the burrow. One quart cans 75c, not prepaid.

Lee's Conditioner keeps animals in a thrifty growing condition. Price, 2½ lb. package 25c.

Pratt's Poultry Food makes little chicks grow quickly and healthy and free from disease—it prevents gapes or any other disease. One of the best poultry foods we sell. Price, trial package 10c; 16 oz. pkg. 25c; 5 lb. pkg. 60c; 12 lb. sack \$1.25; 25 lb. sack \$2.50; not prepaid.

Pratt's Food. It regulates the bowels, blood, liver and digestive organs. Nothing better to keep horses in a healthy condition. Package 25c; 7 pound pkg. 50c; 12 lb. bag 75c; not postpaid.

Pratt's Gall Cure. Cures harness and saddle galls, scratches, cuts, wounds, burns and open sores. It is safe to use and quick to act. Price, 25c per box; not prepaid.

Germazone. A wonderful remedy for the prevention and cure of roup, cholera, sore head, etc. Prevents contagion. Price, 12 oz. bottle 50c; not prepaid.

Bug Killer. For household use. For bugs, roaches, ants, beetles and bed bugs. Does not stain. Price, per bottle 50c; not prepaid.

Lambert's Louse Killer. This is a liquid preparation for killing insects on chickens, hogs and other animals. It is something new—just out this year, and is the best louse killer introduced, it does the work instantly—no louse can live where it is used. We highly recommend this as the best louse killer on the market. Price, ½ gallon 60c; 1 gallon \$1.00.

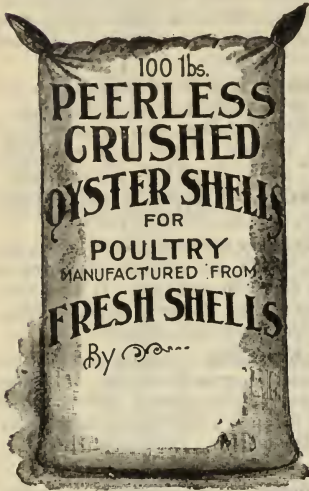
Champion Leg Bands. A copper band; very serviceable; easily put on. Doz. 15c; hundred \$1.00; not postpaid.

Climax Leg Band. The stay on kind. Have no sharp edges or wire exposed to injure fowls. All sizes. Price, dozen 15c; one hundred \$1.00; not postpaid.

We carry a full line of Bird Supplies. Write for Poultry Circulars.

Poultry and Stock Supplies—Continued

Reliable Goods, Low Prices. No Charge for Packing or Delivering to Railroad.



Crushed Oyster Shells. We sell oyster shell not clam shell. Big difference. Experience counts. It pays to feed oyster shells. Why? They supply carbonate of lime.

Nothing that fowls eat supplies so much material for egg shells. They supply just what corn fed fowls need so much.

They remedy dropping soft shelled eggs.

They increase the thickness of the shell so eggs carry better and keep in good condition longer.

Feed in shallow trough or pan nailed under a shed at height so fowls can help themselves.

Price, bag (100 lbs.), 75c; 50 lbs., 50c; 10 lbs., 15c.

Mica Crystal Grit. Fowls must have something to aid in grinding their food. It needs to be hard and sharp. Mica grit is composed of Quartz and Mica. One is hard the other sharp. And the peculiar way they are united causes the edge of the pieces to break off sharp and not wear smooth in grinding the fowls food. It also contains some iron, which acts as a tonic.



Grit is especially needed in winter when fowls are confined and even with a farm range they eat grit greedily, showing they need it. Feed as directed for oyster shell. Price, bag (100 lbs.), \$1.00; 50 lbs., 60c; 25 lbs., 35c; 10 lbs., 15c.

Bone Meal and Granulated Bone. In either form it furnishes superphosphate of lime or bone material. Bone material is needed by all growing fowls and especially those of the large breeds. It is an easier way to feed bone than using a bone cutter. You buy no moisture. No bad smell. Feed the meal a handful three times a week in mash to a dozen fowls. Granulated bone is about like cracked corn. Feed small handful three times a week to a dozen fowls, on wide board or shallow trough. Price, 100 lbs., \$2.50; 50 lbs., \$1.30; 25 lbs., 75c; 10 lbs., 35c.

Akron Drinking Fountain. It keeps the water clean and cool, which means healthy fowls

Prevents small chicks from getting drowned

A child can fill it.

Easily cleaned. When

from home you know

the chickens have

water. Price, size ½

gallon, 25c; one gallon, 35c; two gallons, 50c.



Mann's Bone Cutters. This is the best and most satisfactory bone cutter made for cutting green or fresh bone. We have the 1902 model. Price, No. 5 B, balance wheel and four knives, \$8.50; No. 7 B M, balance wheel and six knives, \$13.00

Hall's Roupe Cure. Used successfully by poultrymen. Guaranteed to cure. Two sized boxes. Price, 25c and 50c, postpaid.

Conkey Roupe Cure will positively cure roupe in all its forms. Comes in two sizes. Price, 50c and \$1.00, postpaid.

Poultry Wire Netting. The best made. Thoroughly galvanized to prevent rusting. Two inch mesh in rolls of one hundred and fifty running feet. Price, ½c per square foot. Cut rolls at one cent per square foot. Special prices on five and ten roll orders.

Above list sent at buyer's expense except where noted. Address all orders to



WORLD'S POULTRY BOOK IN GREATEST COLORS
SEND 10 CENTS—worth \$100 to any poultry raiser. Treats on diseases, cures, scientific feeding, rearing chickens, ducks, geese and turkeys, from practical experience. It beautifully illustrates land and water fowls. Gives our formulas of how to feed to make hens lay 200 eggs a year. Prices quoted on thoroughbred poultry and eggs.
IOWA POULTRY CO.,
AND BUY OF THE Dept. 614, Des Moines, Iowa.

Beef Meal is meat, bone and blood, kiln dried. The appetite of fowls for insects and other animal food tells what they crave. Does it pay in eggs and growth? Try and see. Try how near it comes to green cut bone with much less disagreeable labor. No offensive odor. No work. Always ready. Kiln dried—you buy no water or other waste. Feed handful three times a week to a dozen fowls, in a mash feed. Price, 100 lbs., \$2.50; 50 lbs., \$1.30; 25 lbs., 75c; 10 lbs., 35c.

HAWKEYE SEED CO.,
DES MOINES, IOWA.



Lambert's Electric Louse Killer

**DOES THE WORK INSTANTLY,
AND THOROUGHLY**

We take pleasure in recommending this Louse Killer to those interested in poultry raising, knowing well that it is absolutely the best on the market. It is a liquid preparation guaranteed to destroy lice on poultry and stock without the slightest injury to the fowl or animal.

It is applied with a brush to the poultry house, nests, and roosts, thus avoiding the inconvenience of handling fowls.

When used as directed it is perfectly safe, and will in no way injure the bodies of chicks or of larger fowls.

One or two applications will keep the poultry house free from mites for an entire season. It is an absolute protection to young fruit trees from Rabbits and Borers. Try it thoroughly, and if you do not find it exactly as represented we will gladly refund your money. Price $\frac{1}{2}$ gal. 60c.; gal. \$1.00. **Special prices to dealers and jobbers.**

REMEMBER

That all of our Seeds are thoroughly tested before leaving the house, and show the highest type of germination.

DON'T DELAY,

But send in your order now for some of our Reliable Seeds. No matter how small it may be, we will give it our prompt and careful attention.

All inquiries will be treated in a courteous manner, giving you such information as you desire concerning our business.

Address all orders to

HAWKEYE SEED CO.,

208-210 W. Seventh St. DES MOINES, IOWA.

