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Indiana

MICHAEL SEED STORE

ANNUAL
CATALOGUE
1921



GOLDEN BANTAM
SWEET CORN



LITTLE MARVEL
PEAS



ROYAL PURPLE
WAX BEANS

SIoux CITY IOWA

Lawn Grass



Lawn Grass

BLUE GRASS

The best and most velvety lawn grass is our native grown **Kentucky Blue Grass**. It comes earliest in the spring and is the last and freshest green anywhere to be seen in the Autumn until winter comes again. There is sometimes trouble in getting it to come up quick and make a permanent sod but this is often due perhaps to weather conditions and the quality of seed used. After years of experience we have come to understand and realize the importance and the requisite attention necessary to secure quality in **Blue Grass Seed**. Quality of **Blue Grass** seed that we are now offering for lawn purposes is a high grade Product grown especially for us, extra re-cleaned, sun-dried, highest germination, double weight, all chaff eliminated and in no sense to be compared to the chaffy grades of **Blue Grass** seed usually offered for sale. This quality we handle under the name of **Purity Brand** which when sown on a well prepared seed bed in early spring-time will soon make a well sodded lawn. **Purity Brand 50c per lb.**

MAGIC LAWN SEED

This is a special lawn grass of our own blend. It is made up of the best kinds and highest grades of domestic and imported grasses used in lawn work. It comes up quick and grows like magic giving a continuous green turf throughout the season. The soil should be well prepared with a surface of black earth or some well rotted manure mixed in the soil and sown as early in the spring-time as you can have the ground prepared. Sow at the rate of one pound to every 500 square feet. Remember that this is our own blend and sold only by ourselves at our Seed store, 316 Pearl Street. **Per lb., 50c.**

RESEEDING LAWN GRASS

This is a special blend of grasses for reseeding the lawn after it is well raked and cleaned in the spring time. It has the effect to liven up an old lawn where the grass shows the effect of age and needs revivifying. Sprinkle this seed over the lawn with a liberal application of sheep fertilizer well raked in, early in the spring time, which will bring the desired result. **Per pound 50c.**

FERTILIZERS

Sheep fertilizer	per 100	\$3.50
Bone Meal fertilizer	per 100	4.50
Purity Peat Humus	per 100	2.50
Manure (Well rotted)	per wagon load	5.00

DEEP ROOTED LAWN GRASS

This is a blend of strong powerful rooted grasses. It is especially valuable and is blended on purpose for just such places where we have had trouble to get sod firmly set. Shady nooks, terraces, slopes, sun-baked corners, and other trying places difficult to get a catch and a sod started with those velvety foliage surface rooted grasses. In these places **Deep Rooted Lawn Grass** planted early in the spring-time with some good fertilizer well mixed in the soil brings the desired results. **Per lb., 50c.**

WHITE CLOVER SEED

Nothing adds a more pleasing and effective appearance to the lawn than the verdant green of white clover. Mixed with blue grass or other grasses in the lawn it is very effective. It is also sometime sown by itself alone but best results may be had when used in mixture with other grasses at the rate of about one pound of white clover to three or four pounds of the other. **Per pound Diamond Brand, 80c.**

HOW TO MAKE A LAWN

Among the various methods for increasing the fertility of the soil and preparing the seed bed for a lawn, we find that humus plays a most important part. Humus and organic matter with a percentage of lime added, keeps the soil sweet and porous. This, aside from the fertility feature, has the effect to increase the capacity of the soil to retain moisture, which latter property is an important thing in the verdant effect of the lawn. When the summer is over and the winter comes on and there is no longer any growth of the grass, soon after the ground is frozen, it is a wise plan to fertilize the lawn with a good coat of well rotted manure. Then again in the spring-time, before the growth of grass starts, this coating of manure should be well raked into the soil and all the ruffage raked off so as to give the grass a free chance to get plenty of sunlight to grow. Should this method be overlooked in Autumn then in the spring time in order to give the grass a freshness that you cannot effect any other way, a moderate amount of sheep fertilizer should be raked into the soil as early as possible in the spring-time.

These suggestions in regard to the care of your lawn will well re-pay the time and expense in the increased growth of the grass.

THE MICHAEL SEED STORE

Auto Phone 2142 New Phone 935-M

J. S. MICHAEL, Manager

316 E. Pearl St., SIOUX CITY, IOWA

SEE REVERSE SIDE THIS PAGE FOR ORDER BLANKS

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THE HOME OF GOOD SEEDS

Bulbs, Plants and Nursery Stock

The House That Michael Built.

A FRIENDLY TIP: Plant a home garden this spring. It is a sure cure for spring fever, a healthful exercise and a swat at the **High Cost of Living**. This applies to the **city man, the suburbanite and the farmer too**. For the latter it is a boon. Any farmer can save \$500.00 a year with a good home garden.

CATALOG: In handing you our new catalog we wish to express our thanks and appreciation and good will in days gone by.

VEGETABLE AND FLOWER SEEDS: We carry a full line of these seeds and they are the best the country affords. Purest quality, of strong germination, grown and carefully selected for us by special growers; men who exercise the greatest care to have the seeds choice, pure and reliable.

CLOVER AND GRASS SEEDS: Our field and grass seeds are of superfine quality, extra re-cleaned, pure, free from foul and obnoxious weed seed as it is possible to render them by the best process of re-cleaning.

NURSERY STOCK: Our cellar arrangements for handling nursery stock surpasses anything in the country for keeping this stock in just as nice shape after it is dug up in the spring time and brought to our house as if it was just dug out of the ground when the purchaser comes to get it. We call your attention to Page 30 for the Nursery Department.

DISCLAIMER: While we exercise the greatest care to have all seeds pure and reliable, it is positively understood we sell no seeds, plants, bulbs or nursery stock with any warranty expressed or implied in any respect and will not be in any way responsible for the crop.

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The Michael Seed Store

316 PEARL STREET

SIOUX CITY, IOWA

Date _____

Name _____

R. R. Station _____

State _____

Packer _____

Terms _____

Ship Via _____

CAUTION:—It is fully as incumbent upon the part of the buyer to see that he gets what he bought as it is upon the part of the seller to exercise every caution and care to furnish what he sold. Mistakes occur in the best regulated business. The buyer should therefore check his purchase over, examine it carefully before planting and know positively that all is correct.

Quantity	Description of Article Ordered	Price	Amount

The Michael Seed Store

J. S. MICHAEL, Manager

316 Pearl Street, Sioux City, Iowa

Auto Phone, 2142—Iowa Phone, 935-M

Prices and Description

VEGETABLE SEEDS

BEANS, PEAS AND SWEET CORN come first—other SEEDS in alphabetical order.

NOTICE—Prices quoted are f. o. b. Sioux City, Iowa. If ordered sent by mail, add 10c per pint, 15c per quart or 8c per pound to catalog prices.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

All prices quoted are subject to stocks on hand and market fluctuation.

Beans

Beans are very sensitive to both cold and wet. It would be useless to plant them until the ground is warm. They can be safely planted first when the apple is in bloom. For garden culture make your rows about 18 inches apart and 8 inches apart in the rows. One quart plants about 100 foot rows.

Golden Wax. The old standard wax sort. Productive and early with yellow semi-round pods of good quality. Improved Golden Wax also at same prices. Prices: ½ lb., 15c; 1 lb., 25c; 10 lbs., \$2.00.

American Black Wax. The old standard Black Wax Bush Bean. The pods are round, brittle, of handsome golden yellow color, and of buttery flavor when cooked. Price: ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 10 lbs., \$2.00.

Davis White Wax. A new white, rustless, productive, wax-podded bean; pods flat, very long, white waxy color, and handsome; seeds clear white. Price: ½ lb., 15c; 1 lb., 25c; 10 lbs., \$2.25.

Stringless Green Pod. The earliest and hardiest of all green-podded sorts; large, handsome pods, some of which measure six inches in length. Very productive, bearing profusely the beautiful green pods, perfectly round, straight, broad, tender, brittle, fleshy and entirely stringless. Price: ½ lb., 15c; 1 lb., 25c; 15 lbs., \$3.25.

Extra Early Round Pod Red Valentine. For Snaps there is nothing superior to this dwarf green-podded sort, both for the home and market garden. Many prefer it to the wax varieties. Pods medium length, curved cylindrical, with crease in back, very fleshy, crisp and tender. Price: ½ lb., 15c; 1 lb., 25c; 15 lbs., \$3.00.

Improved Dwarf Lima. A true bush form of the large White Lima, a circular bush 15 to 20 inches high, self-supported by its own thick stems. Unsurpassed in productiveness and quality of its large, handsome pods. Price: ½ lb., 25c; 1 lb., 40c; 10 lbs., \$3.50.

Large White Lima. Vine, tall growing, requires poles or support, pods borne in clusters, long, broad, very thin, dark green; seed very large, oval, flat greenish white. Price: ½ lb., 15c; 1 lb., 30c; 10 lbs., \$2.50.

Kentucky Wonder, or Old Homestead. Pole variety, long flat green pods, seven to nine inches in length, fleshy and stringless. Heavy yielder. Excellent for snap beans. Price: ½ lb., 15c; 1 lb., 30c; 10 lbs., \$2.50.

Field Bean. White. The finest white field bean, a heavy yielder in all sections of the country. Price: 1 lb., 15c; 10 lbs., \$1.00; per 100 lbs., \$8.00. Bags extra.



Royal Round Pod Purple Wax Bean

ROYAL ROUND POD PURPLE WAX BEAN. We are offering this season as a specialty this splendid wax bean. It has proven itself to be one of the very best of all the wax sorts. The plants are good size without runners; leaves are dark green. Pods are very round and deep yellow in color, very brittle, stringless, without fibre and unsurpassed in quality. For the market gardener who wants a first class round podded wax bean, this is one of the best that has ever appeared. Price: ½ lb., 15c; 1 lb., 25c.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

Peas

Peas are among the earliest seeds that can be planted at the close of winter. The round smooth sorts are the hardiest and are often planted without danger before the frost is out of the ground. The wrinkled sorts are not so hardy and cannot with safety be planted quite so early; but plant all kinds as early as possible and plant on a warm, quick, rich soil. Peas will mature earlier if planted only an inch deep. Where earliness is most important they should not be planted deeper, but larger pods and more of them may be had by deeper planting. Dwarf varieties are planted in rows 15 inches to 2 feet apart. Two quarts of seeds sow a hundred yards of rows.

Alaska or Earliest of All. The vines are of medium height and of distinctive light color. The pods are of good size, about two and one half to two and three-fourths inches long. Seed small, smooth, and bluish green in color. This sort matures all of its crop at once and is an invaluable variety for market gardeners and canners. Price: $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 10 lbs., \$2.00

Ferry's First and Best. The earliest and most even, extra early peas in existence, maturing well together. Price: $\frac{1}{2}$ lb., 10c; 1 lb., 20c; 10 lbs., \$1.50.

Little Gem. Probably the best known and more widely grown second early. It comes in following the first earlies, grows about 15 to 18 inches high and bears heavily of large, plump pods. The peas are wrinkled and very sweet. Price: $\frac{1}{2}$ lb., 15c; 1 lb., 30c; 10 lbs., \$2.50.

American Wonder. Somewhat similar to Nott's Excelsior; a very early wrinkled pea; very dwarf. Pods quite large, but not many to a vine. Price: $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 10 lbs., \$2.50.



Little Marvel

LITTLE MARVEL. New improved variety lately introduced. The most valuable home garden variety yet introduced, very early, large podded and a great cropper, 18 inches high, pods very dark green, produced in pairs and always well filled. Price: $\frac{1}{2}$ lb., 20c; 1 lb., 35c.



Michael's Early June Pea

MICHAEL'S EARLY JUNE PEA. This is actually the earliest pea known. Being a dented solid berry, it will stand planting two weeks earlier than the wrinkled varieties without injury from weather conditions which hardy quality gives it an extra early start. The berry is bluish green in color; vines grow about knee high and good averaged size pod; well filled and of a very rich quality. Price per $\frac{1}{2}$ lb., 15c; per lb., 25c; 10 lbs., \$2.00.

Nott's Excelsior. A very sweet, very dwarf, early pea, small bush, about 15 inches high. Bears very heavily in a favorable season, but subject to weather conditions more than the smooth peas. Very high quality. Price: $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 10 lbs., \$2.50.

Harvester. This handsome wrinkled pea is the largest of the dwarf varieties and almost identical with the Laxtonian. The pods are dark green, about four inches in length and of splendid quality; early in season; vines vigorous and productive; average 15 to 18 inches high. Price: $\frac{1}{2}$ lb., 20c; 1 lb., 35c.

Telephone. The Telephone is medium early in season, bears a long time; the pods are always of good size, well filled and the quality is of the very best. Price: $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 10 lbs., \$2.00.

Champion of England. The best late season tall pea. One of the oldest varieties of peas. There is no sweeter pea than the Champion of England. The vines grow almost 5 feet high, are very vigorous and produce a heavy crop of good sized pods filled from end to end with luscious peas. Price: $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 10 lbs., \$2.25.

Marrowfat (Late). One of the oldest and best known peas. A great yielder of ordinary quality peas. Price: 1 lb., 20c; 10 lbs., \$1.75.

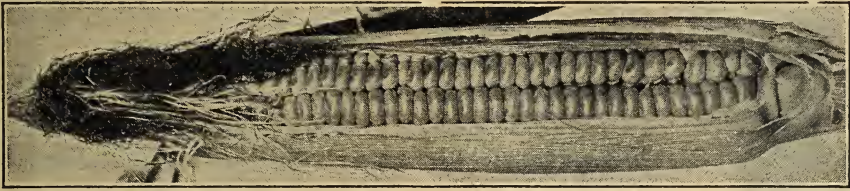
Edible Pod Pea. This class of pea is but little known. They have a sweet, brittle, succulent pod and can be used same as snap beans, cooking both pod and pea together. Price: $\frac{1}{2}$ lb., 20c; 1 lb., 35c.

Canada Field Pea. A splendid crop to sow with oats or barley for green feed. Will produce a crop and enrich the soil at the same time. Succeeds well almost anywhere and is very prolific. Price: 1 lb., 15c; 15 lbs., \$1.75. Per 100 lbs., \$7.50. Bags extra.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

Sweet Corn

DON'T PLANT SWEET CORN DEEP—Sweet Corn should not be planted over one inch deep; most people plant two or three inches deep—most sure to rot. Also do not plant too early. Not as early as field corn.



Dinner Bell

Dinner Bell. This Sweet Corn for earliness surpasses anything yet introduced. It originated in North Dakota and while it is not as sweet as some of the later kinds it makes up for all this by coming in season so far ahead of them that it has served its purpose and gone before the others are ready to be used as green corn. The ears are not large but medium in size, pure white and of extra good quality for so early a corn. Price: ½ lb., 15c; 1 lb., 25c; 10 lbs., 2.25.

White Mexican. Originated at Sioux City. Early as any of the extra earlies and far sweeter than any of them. Price: 1 lb., 20c; 15 lbs., \$1.75.

Golden Bantam. A new variety of sweet corn; the richest and sweetest of all corns. It may be planted thickly and as late as July 15th with splendid results for table use as green corn. Price: ½ lb., 10c; 1 lb., 15c; 15 lbs., \$2.00.

Extra Early Cory. Standard early sort, fair quality and very early. Price: 1 lb., 15c.

Minnesota Early. The best and most popular of the older varieties. The stalks are short and bear two long ears each, having eight rows of very sweet and tender kernels. Price: ½ lb., 10c; 1 lb., 15c; 15 lbs., \$2.00.

Country Gentleman. This variety frequently has four good sized ears, while the average is three to a stalk. The cob is very small, giving good kernels of pearly whiteness. It is without doubt the sweetest and most tender of all sweet corn. Price: ½ lb., 10c; 1 lb., 20c; 10 lbs., \$1.75.

Stowell's Evergreen. The standard big late corn. Good big ears, sweet and solid, and heavy yielder. Used extensively by the canning factories and for drying. Stays green and tender for a long time. Select hand picked stock. Price: ½ lb., 10c; 1 lb., 15c; 10 lbs., \$1.40.

Sweet Corn for Fodder. Good vitality; early or late. Price on application.

Table Beets

For earliest use sow seed of any round sort. Seed for main crop may be sown as soon as the ground can be gotten in proper condition. For table beets sow in drills 18 inches apart, and thin to stand 3 to 4 inches apart in the row. Use 1 ounce to 200 feet of drill and cover lightly; 5 to 6 lbs. per acre. Round and turnip shaped beets are best for spring and summer; the half long kinds for winter. For sugar beets and mangels make the rows 2½ to 3 feet apart, and sow 6 to 8 pounds per acre. A light loamy soil is best for all beets.

Extra Early Flat Egyptian. An early variety. The tops are small and the beets are round on top, but flat at bottom end. The color of flesh is light red. Price: oz., 10c; ¼ lb., 25c; ½ lb., 40c; 1 lb., 75c.

Crosby's Egyptian. A variety of beet which has nearly supplanted the original Egyptian, and is more desirable because of its shape and fine quality. It is extremely early. Price: oz., 10c; ¼ lb., 25c; ½ lb., 40c; 1 lb., 65c.

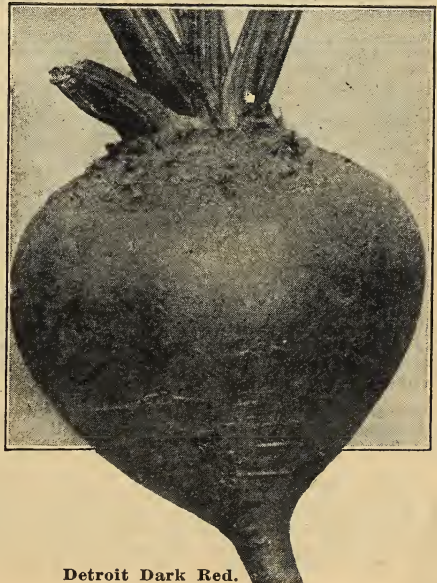
Early Blood Turnip. A fine specimen of Blood Turnip Beet, early and good for summer and autumn use. Price: oz., 10c; ¼ lb., 25c; ½ lb., 40c; 1 lb., 75c.

Swiss Chard, or Spinach Beet. The leaves of Swiss Chard are used as greens, cooked in same manner as spinach, and the large ribs are prepared like asparagus, in which manner they are delicious. Price: oz., 10c.

Half Long Blood. Dark red flesh. Price: oz., 10c; ½ lb., 40c; 1 lb., 70c.

Long Smooth Dark Blood. Price: oz., 10c; 2 ozs., 15c; ½ lb., 35c; 1 lb., 60c.

Detroit Dark Red. A grand beet with tops exceptionally small and upright; roots are perfect turnip shape with small tap root. Color dark blood red. One of the best for market gardener and the home gardener. Price: 1 oz., 10c; ¼ lb., 25c; ½ lb., 40c; 1 lb., 75c.



Detroit Dark Red.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

Half Sugar Mangel Wurzel



The Best for Stock Feeding.

A strain of beets very desirable for stock feeding, affording not only a very large crop much easier to harvest than other sorts, but much richer in sugar and other nutritive elements growing out of the ground. Can be harvested easily. Price: 1 lb., 50c; 10 lbs., \$4.00.

Mangel Wurzel

Mammoth Long Red.

This is the heaviest cropping and largest of all mangels. The roots grow from one-half to two-thirds above the surface and are frequently two or more feet in length by six inches in diameter. Dark, richly colored foliage; skin bright red; flesh white, with veined rings of rosy-pink. Price: oz., 10c; ½ lb., 25c; 1 lb., 45c, postpaid.

Golden Tankard. Best for dairy farming. It is of a rich, deep yellow throughout. Early, hardy and a heavy cropper. Price: oz., 10c; 1 lb., 50c; 5 lbs., \$2.25.

Sugar Beets

Sugar Beets may be grown in any tillable soil that is capable of producing good crops of vegetables. A few rows of Sugar Beets in the garden will be sufficient for a supply of syrup for home use. A bushel of Sugar Beets will produce about a gallon of syrup. Splendid for stock food.

White French Sugar. Price: oz., 10c; ¼ lb., 25c; 1 lb., 60c.

Write for U. S. Department of Agriculture for Farm Bulletin No. 823.

Cauliflower

One ounce of seed will produce about 3,000 plants.



Cauliflower (Danish Grown Seed).

Early Snowball. Esteemed for its earliness and its heading qualities, producing large, solid, pure white heads; dwarf in habit and as early as any; one of the best sorts for forcing. Price: pkt., 15c; ¼ oz., \$1.00; ½ oz., \$1.75; oz., \$2.75.

Danish Giant. One of the finest late varieties of robust habit; heads large, compact and thoroughly protected by leaves. Price: pkt., 15c; ¼ oz., 80c; ½ oz., \$1.50; oz., \$2.50.

Cabbage

Culture. The Cabbage is a great feeder and well repays heavy manuring and high culture. It succeeds best on well drained soil. Early cabbage may be started in early spring in a hotbed. For main crop, summer and autumn cabbage, the seed should be sown in a rich bed in the open air in May or June. Sow shallow; 1 oz., of seed for 4,000 plants, 3 to 4 ozs. for an acre. Set the plants 2 to 3 feet apart each way. Give frequent cultivation.

Early Spring Cabbage. The earliest flat head. As early as Jersey Wakefield. Yields more than the early pointed heads. Solid, uniform and finely grained. Price: ½ oz., 15c; oz., 25c.

Early Jersey Wakefield. Considered by many gardeners the very best early variety. Of large size for so early a kind. Heads hard and solid, and have few outside leaves. Our seed is extra select highest quality. American grown. Price: ½ oz., 10c; oz., 20c.

Winningsstadt. Cone-shaped summer sort; a sure header and a good keeper. Price: ½ oz., 15c; oz., 25c.

Danish Ball-Head (120 days) (Dutch Winter or Hollander.) The heads are of medium size, solid and deep, averaging in weight nearly eight pounds. Their quality is superior and they are just as solid in spring as when put away in the fall. Price: ½ oz., 10c; oz., 20c; ¼ lb., \$1.00; lb., \$2.75.



New Early Cabbage

Copenhagen. An entirely new type of early cabbage. As early as Early Jersey Wakefield, as large as All Head, hardier, solder and better quality than either. Price: ½ oz., 15c; oz., 30c; ¼ lb., \$1.00; lb., \$3.75.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.



All Head Early.

All Head Early. All Head Early is of special value because of close adherence to the type in habit of growth and the shape and quality of the head. Head large, very solid and flat. Quality excellent. By planting late it can be used also as a winter cabbage. Price: $\frac{1}{2}$ oz., 10c; oz., 20c; $\frac{1}{4}$ lb., 75c.

Early Flat Dutch Cabbage. A valuable second early sort, with good size, solid heads; sells well and are good keepers. Price: $\frac{1}{2}$ oz., 10c; oz., 20c; $\frac{1}{4}$ lb., 75c.

Henderson's Early Summer. An excellent second early cabbage. Same as All Head. Price: See All Head.

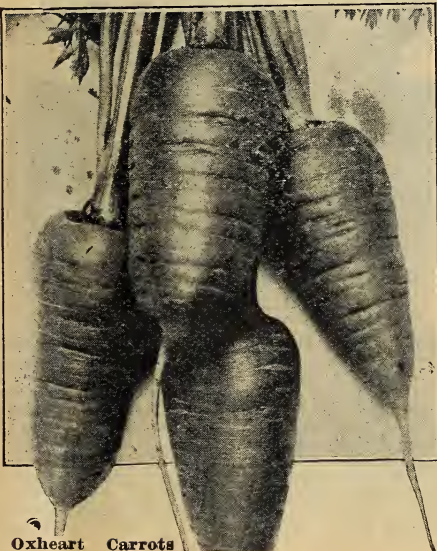
Henderson's Succession. An excellent variety of large, flat head maturing in midsummer. Same as All Head. Price: See All Head.

Premium Late Flat Dutch. This old and well-known variety is still the standard winter kind. Heads large, solid and first-class keeper. Price: $\frac{1}{2}$ oz., 10c; oz., 20c; lb., \$2.50.

Late Drumhead. A very deep, solid, sure heading variety, which in rich soil will grow to a very large size; solid and excellent flavor. Price: $\frac{1}{2}$ oz., 15c; oz., 25c; lb., \$2.75.

Haco. The Earliest of All Red Cabbage. The best large red cabbage. A sure head of good red color to the center. Price: $\frac{1}{2}$ oz., 50c; oz., 75c.

For Cabbage Plants see page 21.



Oxheart Carrots

Carrots

Carrots require a deep, well worked soil. Plant in rows 15 inches apart for table sorts; cover $\frac{1}{2}$ inch deep. One ounce plants 50 feet. Carrots are excellent for stock, especially for horses. Sow any time before July 1st in rows 24 inches apart. Thin to 6 inches in the rows; two pounds of seed to the acre. Store in winter the same as turnips. For feeding stock grow the White or Yellow Belgian, which yields big crops.

Oxheart or Guerande. We do not hesitate to call this the most valuable variety in existence. It is intermediate between the Half Long and Horn varieties, attaining a diameter of 3 to 4 inches at the neck, of beautiful shape and rich orange color. It is excellent for hogs and other live stock and has yielded 1,200 bushels per acre. Price: oz., 10c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.

Earliest Short Horn (French Forcing). This variety is small, reddish-orange, of globular shape and excellent flavor. Price: oz., 15c; 3 ozs., 35c; $\frac{1}{2}$ lb., 75c; lb., \$1.50.

Danvers Half Long. A popular standard variety of rich, dark orange color. Very smooth and handsome. In form halfway between Oxheart and the Long Orange, and wonderfully productive. Price: oz., 10c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.

Chantenay Half-Long. Resembling the Danvers, with larger shoulder. Medium early and heavy cropper. Price: oz., 10c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.

Improved Long Orange. A well-known sort, roots long, thickest near the crown, tapering regularly to a point, color deep orange. Price: oz., 10c; 2 oz., 15c; $\frac{1}{2}$ lb., 40c; lb., 75c.

Large Yellow Belgian. Used for feeding cattle; grows large and is very productive. Price: oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c; 5 lbs., \$3.00.

Celery

One ounce will produce 5,000 plants.

Celery. Celery seed is slow to germinate and ample time must be given. Sow thinly and cover lightly keep constantly moist. Count on about 4,000 plants per ounce of seed. When the seedling plants are 3 inches high they should be clipped at the top. Favor stock growth or else transplanted.

White Plume Celery. The earliest celery. Easiest to grow, as it blanches without even earthing up. Price: $\frac{1}{2}$ oz., 10c; oz., 15c.

Giant Pascal. A superior keeping sort. The stalks are very large, solid, crisp and of rich nutty flavor; it blanches very easily and retains its freshness a long time. Price: $\frac{1}{2}$ oz., 10c; oz., 15c.

Golden Self-Blanching. The leading early variety. Stalks are broader and heavier than those of White Plume, and superior in quality, while it is only a little later. Price: $\frac{1}{2}$ oz., 20c; oz., 35c.



White Plume Celery.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.



The Davis Perfect Cucumber.

Cucumbers

The Davis Perfect Cucumber. An excellent new cucumber for both outdoor use and forcing. It is a most carefully selected strain of the White Spine type. It is slim, slightly pointed, a dark glossy green color, very tender, brittle and of fine flavor, vigorous grower, withstanding blight and disease better than other sorts. Price: oz., 15c; 3 ozs., 35c; lb., \$1.75.

Cucumbers thrive best on warm, rich, sandy soil, the richer the better. Crop should never be planted until soil is warm and the trees are out in full leaf. Plant in hills 4 feet apart and thin to about 4 plants to the hill. Second planting about middle of July for fall. One ounce for 50 hills. For best results use our Quick Crop Fertilizer for cucumbers.

Improved Early White Spine. An excellent variety which produces an early crop of cucumbers. The fruits are straight, light green, with white spines. Price: oz., 10c; 3 ozs., 25c; lb., \$1.25.

Early Cluster. Vine vigorous, producing the bulk of the crop near the root and in clusters. Fruit short, with uniformly thick end, dark green, but paler at blossom end. A hardy and very productive sort. Price: oz., 10c; 3 ozs., 25c; lb., \$1.25.

Early Frame Short Green. This variety is an excellent sort, both for table use and for pickling. Plants very vigorous, fruit straight, a little smaller at the ends, bright green, light at the blossom end. Comes into condition for use a little later than the Early Cluster. Price: oz., 10c; 3 ozs., 25c; lb., \$1.25.

Boston Pickling. A distinct and very productive variety extensively grown for pickles. The fruits are of medium size, very smooth, symmetrical and bright green. Price: oz., 10c; 3 ozs., 25c; lb., \$1.25.

Improved Long Green (Jersey Pickle). Fruits are long, firm and crisp. The small fruits are used for pickles and larger ones are excellent for slicing. The vines make a strong growth and are very productive. Price: oz., 15c; 3 ozs., 35c; lb., \$1.50.

Klondike Cucumber. This variety is one of the best for slicing. The color is rich dark green, and the fruits grow to a uniform size, measuring about 7 inches in length and 2 inches thick when in good condition for use. Price: oz., 10c; 3 ozs., 25c; lb., \$1.25.

Lettuce

Culture. Lettuce, to be at its best, should be grown rapidly, hence the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For winter, sow under glass from November to February and thin out as necessary. For general crop, sow outdoors as early in the spring as the ground can be worked, in drills 18 inches apart, and thin young plants to 4 inches apart in the row. As the plants begin to crowd, thin them out and use as required. In this way a much longer succession of cutting may be had from the same ground. For best results use our Quick Crop Fertilizer for lettuce. Price: Per lb., 15c.



Black Seeded Simpson.

Black Seeded Simpson. Nearly double the size of an ordinary Curled Simpson. Stands summer well without becoming tough or running to seed quickly. By far the most popular variety for greenhouse forcing, making large, handsome heads in a very short time. Price: oz., 15c; 2 ozs., 25c; ¼ lb., 40c; lb., \$1.00.

Grand Rapids (Seed black). A lettuce for greenhouse forcing, quick growth, hardy, little liable to rot and remaining in condition several days after being fit to cut. Will stand shipping long distances better than most sorts. Price: oz., 15c; 2 ozs., 25c; ¼ lb., 40c; lb., \$1.00.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.



Big Boston.

Big Boston. A. (Seed White.) Popular for outdoor culture, a compact, large heading sort. Plants large, very hardy and vigorous; leaves broad, comparatively smooth, but wavy at edge, thin, very hard and crisp, color bright light green, the head slightly tinged with reddish brown. Price: oz., 15c; 2 ozs., 25c; ¼ lb., 40c; lb., \$1.00.

Iceberg. The large curly leaves covering the heads are bright, light green, with slight reddish tinge at edges. Center thoroughly blanched. In early spring or hottest summer days quality is simply perfect. Price: pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

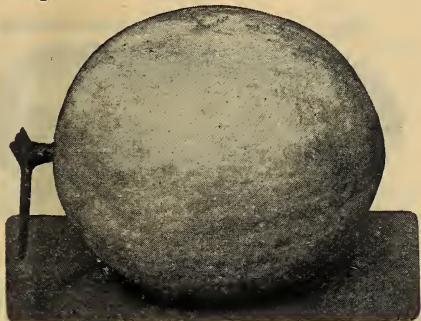
Early Prize Head. B. (Seed White.) A large clustering, non-heading lettuce. The most easily grown variety in cultivation. The leaves of the variety are crimped, bright green tinged with brownish red, very tender and sweet. Price: oz., 15c; 2 ozs., 25c; ½ lb., 50c; lb., \$1.00.

Early Curled Simpson. White seeded. One of the best of the leaf lettuces. Quite similar to Early Curled Silesia. Price: oz., 15c; 2 ozs., 25c; ½ lb., 40c; lb., \$1.00.

Hanson. Leaves are curly and tender and form a head as large as an early cabbage. Slow to run to seed. Creamy white inside. Price: oz., 15c; 2 ozs., 25c; ½ lb., 50c; lb., \$1.00.

Muskmelon Seed

Culture. Plant seeds in hills 4 to 6 feet apart each way, after danger of frost is over. Use well rotted manure in the hills. One ounce of seed to 50 hills; 2 to 3 pounds to the acre. A light warm soil is best. In hoeing, draw the soil well up to the plants. Fight bugs with tobacco dust and slug shot.



Honey Dew.

Honey Dew. The skin is a very delicate yellow; surface almost perfectly smooth. The rind is thin, the flesh is very thick and in color blends from a near white at the rind to the daintiest of emerald green at the seed cavity. The flesh is crisp and delicious, very sweet, juicy and possesses a honey flavor very pleasing to the palate. Price: ½ oz., 10c; oz., 15c.

"Hoodoo" Melon. (Introducer's Strain). A new orange-fleshed variety of the finest quality. Very vigorous, remarkably blight resisting and very productive. Fruits small and of uniform size. Netting exceptionally fine and dense. Flesh very thick. Price: oz., 15c; ¼ lb., 75c; lb., \$2.50.



Rocky Ford.

Rocky Ford. (Netted Gem). The flesh is deep and thick, and light green in color. The flavor is exceedingly fine. The skin is regularly ribbed orange-fleshed variety of the finest quality, and thickly netted. It is a heavy cropper, and in wide favor as a market melon. Our seeds are saved from a field in which only seed melons are grown. Very dependable. Price: oz., 10c; ½ lb., 75c; lb., \$1.25.

Emerald Gem. One of the sweetest melons in cultivation; smooth skin, deep salmon colored flesh; early and prolific. The ideal home melon. Price: oz., 15c; ½ lb., 60c; lb., \$1.00.

Extra Early Hackensack. Ten days earlier than the old Hackensack. Flesh light green and excellent in flavor. Price: oz., 15c; ½ lb., \$1.00; lb., \$1.50.

HACKENSACK or TURK'S CAP. The very largest of all nutmeg sorts. The fruits are round, flattened at the ends and have very broad ribs. Flesh is green, fine quality. Price: oz., 10c; ½ lb., 60c; lb., \$1.00.

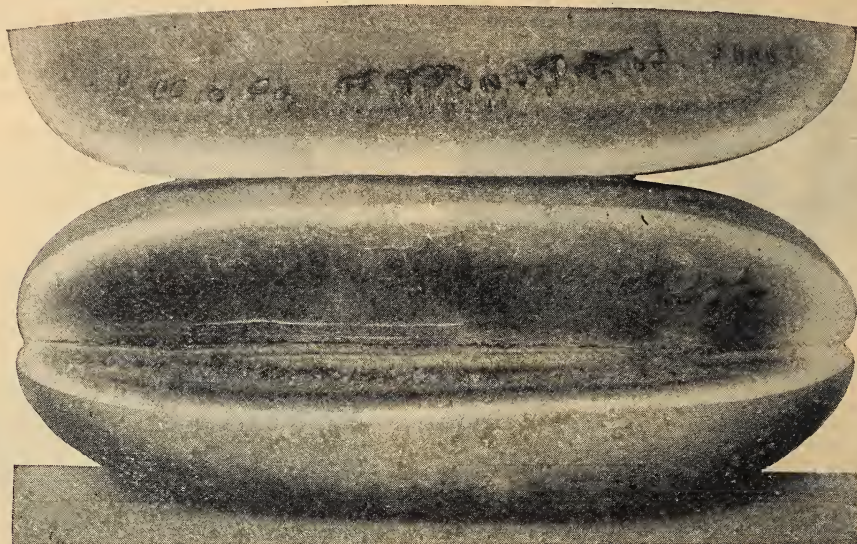
Osage (Salmon and Green). Medium to large sized, oval, slightly ribbed, dark green in color. Flesh is deep salmon color and very thick. Covered more or less with shallow netting. Price: oz., 10c; ½ lb., 75c; lb., \$1.25.

Early Citron Landreth's. Very early half flat sort. Flesh green, of fair quality. Price: oz., 10c; ½ lb., 60c; lb., \$1.00.

Banana. Cucumber shape. Delicious odor. Rather late maturing. Price: oz., 10c; ½ lb., 60c; lb., \$1.00.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

Watermelon Seed



Irish Gray.

Culture. The essential thing in melon culture is to get good strong vines early in the season. To this end plant your melons in hills 8 feet apart, made rich with some good fertilizer or well-rotted manure thoroughly mixed with the soil. As soon as the ground is warm and dry plant 15 to 20 seeds in each hill, and thin out when the plants begin to grow, leaving only 3 to 5 of the most vigorous. Protect the young plants from insects and hasten their growth by the use of liquid manure. From 3 to 5 pounds plant an acre. Fight bugs with slug shot and tobacco dust.

One ounce will plant fifty hills and four pounds will plant one acre.

Irish Gray. The old ones go and the new ones come—sometimes the same old girl with a new dress, and then again something grander than ever appeared before—as for instance the Honey Dew in Musk Melons, we now have the IRISH GRAY in Watermelons. A superb new sort just out. Bright sparkling red flesh, sweet, firm, with a yellowish gray rind. For the home it's better and sweeter than Kleckley's Sweet; has a tough rind; better than Tom Watson and out-yields either of those a half more. It's the thing to catch the market with. Price oz., 15c; ¼ lb., 50c; lb., \$1.25.

Cole's Early. The earliest watermelon in cultivation. Can be grown in all Northern states. Black seed, rich red flesh. Price oz., 10c; ½ lb., 40c; lb., 75c.

Georgia Rattlesnake. Oblong, dark and striped; bright red flesh.

Peerless or Ice Cream Very early; red flesh; good home melon.

Dark Icing. Early, round, solid, with thin dark green skin; of superior quality.

Light Icing. Round in form like above; flesh of fine quality.

Sweet Heart. Mottled light green; large, oval, heavy; red flesh; fine shipper.

Cuban Queen. Early, solid and heavy; skin striped dark and light green.

Kolb Gem. Very large; flesh red; a good shipping sort; popular in the South.

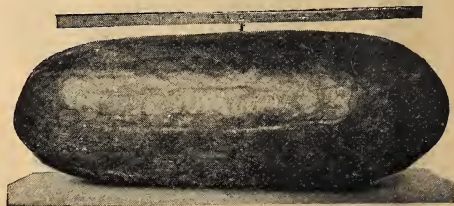
Green Citron. (Red Seed). Round and handsome; for preserving only.

Above varieties not priced we quote as follows: Price: oz., 10c; ½ lb., 50c; lb., 85c. In 5-lb. lots and over, 10c per lb. may be deducted.



Monte Cristo.

Monte Cristo or Kleckley's Sweets. Unsurpassed for home use or near markets. Melons of medium size, oblong, tapering slightly towards the stem end; dark green. Flesh very bright, rich red, exceedingly sweet. Price: oz., 10c; ½ lb., 50c; lb., 90c.



Tom Watson.

Tom Watson. A large, oblong melon, the skin of which is dark green. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. Price: oz., 10c; ½ lb., 50c; lb., 80c.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

Onion Seed

The onion not only contains considerable nutriment and has valuable medicinal properties, but is most useful in counteracting the bad effects of sedentary life. The odor it imparts to the breath may be avoided by thorough cooking.

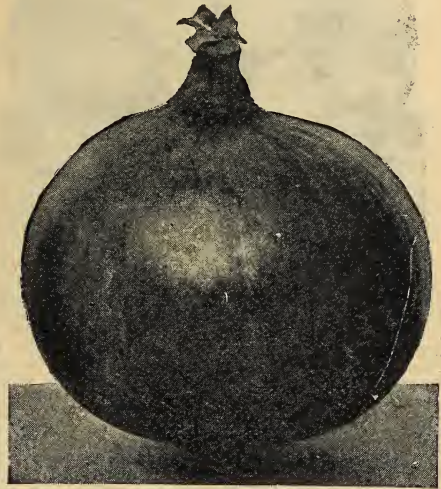
In onion culture, thorough preparation of the ground, careful sowing and the best of after culture, though essential, avail nothing unless seed of the best quality be used.

Sow the seed as soon as the ground can be gotten ready, and it can be done best with a Planet Jr. hand seed drill adjusted to sow the desired quantity of seed about one-half inch deep. The quantity needed will vary with the soil, the seed used and the kind of onions desired. Thin seeding gives much larger onions than thick seeding. Four to five pounds per acre is the usual quantity needed to grow large onions.

Gathering. As soon as the tops die and fall the bulbs should be gathered into windrows. Cut off the tops when perfectly dry; leave lay a few days.



White Globe.



Red Wethersfield.

ONION—Large Red Wethersfield. The best known of all the onions. Good seller, great keeper, the best of all standard sorts. My stock of this onion seed is most select and sure to grow. Price: ½ oz., 10c; oz., 20c; lb., \$2.25; 5 lbs., \$10.00.

ONION—Southport Red Globe. On account of its beautiful shape and rich red color, these onions bring a premium in any market and is an excellent keeper. The seed we offer is grown from true type bulbs. Subject to test before planting and if not found absolutely satisfactory, money will be refunded. Price: ½ oz., 10c; oz., 20c; ½ lb., \$1.00; 1 lb., \$1.75; 5 lbs., \$8.50; 10 lbs., \$15.00.

Yellow Globe Danvers. The most extensively used yellow onions. Bulbs of medium size, uniformly globe shaped, with small neck, and ripen very evenly. Flesh white, Crisp, and of mild and excellent flavor. Price: ½ oz., 10c; oz., 20c; ½ lb., \$1.40; lb., \$2.50.

ONION—White Globe. This is the largest successful pure white onion in cultivation. Perfect globe shaped, very solid; keeps well and always brings the top of the market. Price: ½ oz., 15c; 1 oz., 25c; ½ lb., \$1.75; lb., \$3.25.

ONIONS—

	½ oz.	1 oz.	½ lb.
Prize Taker (the largest onion grown, very mild).....	\$0.10	\$0.20	\$1.50
White Silver Skin, round, white, medium.....	.15	.25	2.00
Mammoth Silver Skin, a large, white onion.....	.15	.25	2.00
New Queen, early, small white onion for pickling.....	.15	.25	-----

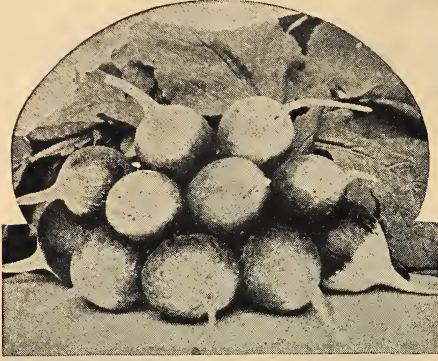
Onion Sets

Many prefer to grow onions from sets, as they are less trouble and are ready for use earlier than those grown from seed. Sets grown from seed are known as bottom sets. One quart will plant a row 50 feet long. Ten bushels will plant one acre. Multipliers are fine for bunching green. We sell by the pound only. Special Prices in Large Lots on all Varieties. Bottom Onion Sets, per lb., 15c; 3 lbs., 40c. Perennial Sets, 15c lb.; 3 lbs., 35c. Summer Top Sets, 25c lb. Multiplier or Potato Sets, 20c per lb. Add 6c per lb., 2 lbs., 8c; 5 lbs., 14c, if by parcel post.

NOTICE—ALL PRICES SUBJECT TO MARKET CHANGES AND STOCKS ON HAND. When out of any one kind we reserve the right to fill with next best at price of next best.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

Radish Seed



Culture. For forcing under glass, scatter evenly over the surface 100 seeds to the square foot and cover with one-half inch of soil, sifted. For open ground culture, sow on rich, sandy soil as soon in spring as it is fit to work, in drills twelve inches apart and thin out the plants if necessary to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender and brittle roots. Successional sowing from one week to ten days apart will keep up a supply. After the hot weather of summer begins it is better to sow the summer and winter varieties, as they do not become tough and stringy nor pithy as the earlier sort are apt to do when planted in late summer time. One ounce sows about 50 feet of row.

Remember, a succession is secured by planting seed every ten days.

Saxa Globe Radish. This is the best forcing and quickest outdoor radish to date. A new 20-day variety. Remarkable for the small size of its leaves. The flesh is firm, crisp and fine quality, dark red, globe shaped bulbs of even size. Price: ½ oz., 10c; oz., 15c; ¼ lb., 50c.

Icele, the Finest Eating, a most Distinctive Long White Radish. The best eating radish, and the best white variety. This sort has long, slender, pure white roots, which remain mild and crisp until they grow of larger size. Tops are quite short, making it early, and also allowing close planting. A succession is secured by planting seed every ten days. Price: pkt., 5c; oz., 10c; ½ lb., 60c; lb., \$1.00.



Bull Nose pepper

SPECIAL PRICES 5 TO 10 LB. LOTS ON ALL SORTS.

Scarlet Turnip, White Tipped. One of the handsomest of the turnip radishes and a great favorite in many large markets for early outdoor planting. Roots slightly flattened on the under side, color very deep scarlet with a white tip, flesh white and of the best quality. Price: oz., 10c; ½ lb., 50c; lb., \$1.00.

Early Scarlet Turnip. A splendid extra early round, bright red radish. Price: oz., 10c; ½ lb., 50c; lb., 80c. Plant every ten days.

Early Scarlet Globe. A desirable sort for hot-bed forcing and outdoor planting. Very early top small. One of the best selling and most attractive radishes on account of its bright scarlet color and handsome shape; flesh white and tender, fit to pull in 28 days. Price: oz., 10c; ½ lb., 75c; 1 lb., \$1.40; 5 lbs., \$6.00.

Crimson Giant. An early sort, looking much like the old **Early Scarlet Globe**, but more perfect in shape. It comes early, but keeps on growing and remains tender, solid and sweet until it gets as large as a teacup, or larger. Price: oz., 10c; ½ lb., 75c; lb., \$1.25.

RADISHES

	1 oz.	½ lb.	lb.
French Breakfast, stump rooted sort	\$.10	\$.75	\$1.00
Long Scarlet Short Top	.10	.75	1.00
Chartier Half Long White, white bottom	.10	.75	1.00
White Strasburg	.10	.75	1.00
Early White Turnip	.10	.75	1.00

WINTER SORTS

	1 oz.	½ lb.	lb.
Cal. Mam. White Winter	\$.10	\$.60	\$1.00
Rose White Winter	.10	.60	1.00
Black Spanish, round or long	.10	.60	1.00

Manure Ash Fertilizer. Analyzes 2 per cent ammonia, 8 per cent phosphoric acid and 2 per cent potash, and is manufactured solely with animal and vegetable matter. It is recommended upon actual knowledge of results for home gardens, radishes, truck gardens, potatoes, and most field crops. Price: 4 lbs., 25c; 15 lbs., 50c; 100 lbs., \$3.50.

Pepper

(One ounce will produce about 1,800 plants. Sow seed in hotbed early in spring; transplant to open ground when the weather is favorable. Seeds germinate slowly and require considerable heat.

Chinese Giant. Most gigantic of all Giant Peppers. A fine mild red pepper, of enormous size, magnificent appearance and brilliant, gloss, scarlet color. The flesh is mild and unusually thick. Price: ½ oz., 25c; oz., 50c; ¼ lb., \$2.00.

Large Bell, or Bull Nose. An early standard sort. Price: oz., 40c.

Red Cayenne. Pods long and slim, of medium size. Pungent. Price: oz., 25c; ¼ lb., 75c.

Ruby King. Very large size. When ripe they are of a beautiful bright ruby red color. Price: oz., 25c; ¼ lb., \$1.00.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

Spinach

An easily grown plant; the seed may be planted in the fall to secure good spinach early in the spring or even throughout the winter. The better and richer the soil, the larger and more tender the leaves will be. Use 8 pounds of seed per acre. For the home garden use one-half ounce for 100 feet of row.

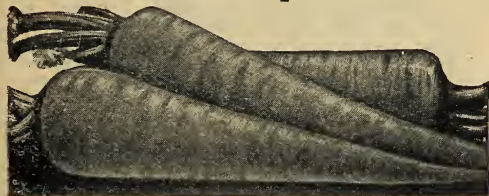


Bloomsdale Savoy

Long Standing. A deep green variety with rather elongated smooth leaves. Seed, round. Stands a long time without running to seed. Price: oz., 10c; lb., 60c.

Bloomsdale Savoy. The variety most generally used. Leaves large, round and thick. Very much savoyed and rich dark green. One of the earliest varieties. Price: oz., 10c; 1 lb., 75c.

Parsnip



(One ounce will sow 200 feet of drill.)

Sow early in spring in good, rich soil, which has been plowed deep. They are improved by frost.

Improved Hollow Crown. Fine grained and excellent. Per oz., 10c; ¼ lb., 30c; lb., 75c.



Hubbard Squash, True Warty

Pumpkin



Sugar Pie Pumpkin

Culture. Plant from May to July in hills 6 feet apart each way. One ounce for 15 hills; two pounds to an acre.

Connecticut Field or Cow Pumpkin. The big yellow kind that is grown so much in the corn fields. Price: oz., 10c; 1 lb., 75c; 4 lbs., \$2.50.

Small Sugar. Best of all pie pumpkins. Very sweet and tender. Looks like a Yankee Pumpkin, but smaller. Early and prolific. Price: oz., 10c; ¼ lb., 35c; lb., \$1.25.

Quaker Pie. A very prolific variety; a good keeper and one of the best for pies. Price: oz., 10c; ¼ lb., 40c; lb., \$1.50.

Green Striped Cushaw. Fruits very large, with crooked neck. Color creamy white, irregularly striped or traced with green. Flesh light yellow, very thick, rather coarse but sweet. This sort is very productive and popular in some sections. Price: pkt., 5c; oz., 15c; 2 oz., 25c.

Squash

SQUASH—True Warty Hubbard. The standard winter squash. Large, olive-shaped, with dark green skin and very rich flesh. Almost everyone is well acquainted with the Warty Hubbard. Our strain is extra fine and very warty. Price: oz., 15c; ¼ lb., 50c; lb., \$1.75.

Red or Golden Hubbard. A perfect type of the Green Hubbard except in color which is a bright, deep orange-yellow, very showy and attractive. Flesh deep, golden yellow. Price: oz., 15c.

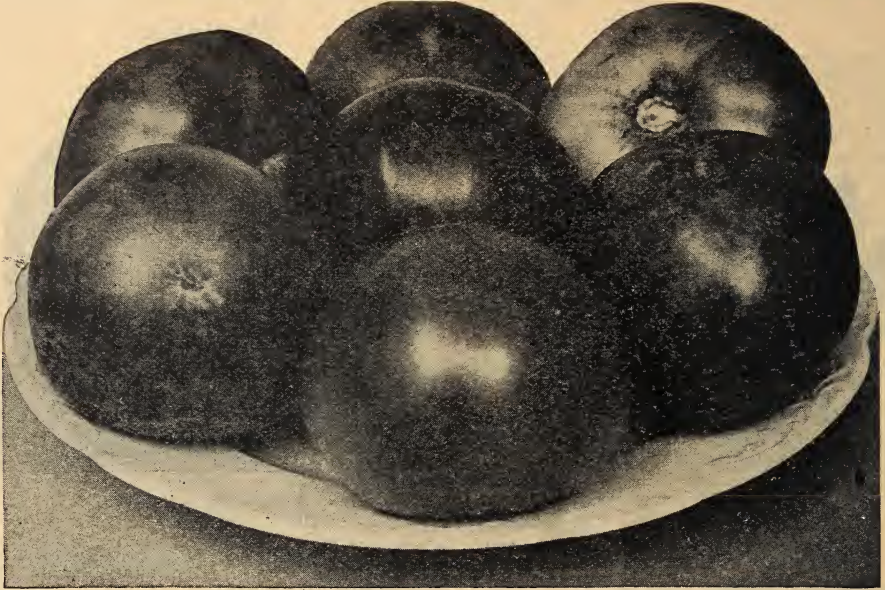
Boston Marrow. This is a very productive fall and winter variety of medium to large size, oval shape, and thin skin. It is much used for canning and making pies. The fruits when ripe are bright orange with a shading of light cream color. The flesh is of rich salmon-yellow color, fine grained and of excellent flavor, but not as dry as the Hubbard. Price: pkt., 5c; oz., 15c; ¼ lb., 40c.

SQUASH—Early White Bush. Price: oz., 15c.

SQUASH—Golden Summer Crookneck. Price: oz., 15c.

SQUASH—Mammoth Chili. A very large and attractive variety. The skin is a rich orange yellow, flesh thick, fine grained and sweet. Price: oz., 15c; ¼ lb., 50c; lb., \$1.75.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.



Bonny Best

Specially Saved Tomato Seeds

We do not use Canning Factory Seed.

One ounce produces about 2,000 plants. For early crop sow in hotbeds in January or February. For late crop, in open beds in May.

Culture. Sow in a hotbed in early spring or the seed may be sown in shallow boxes and placed in a window when one does not wish to have the trouble of making a hotbed. Transplant to the open ground when all danger of frost is past, setting the plants three or four feet apart each way. Use Bone and Potash Fertilizer, or well rotted manure in the hills.

Bonny Best. The fruits of this desirable early sort are most attractive in shape and color. The crop ripens more uniformly than any other early scarlet fruited sort, and is of superior solidity and interior color. The vines are vigorous and produce a good crop of exceptionally round and deep fruits. One of the best for gardeners whose trade demands fruits of beautiful shape and color. Price: $\frac{1}{2}$ oz., 20c; oz., 35c; $\frac{1}{4}$ lb., \$1.25.

Dwarf Champion. A purple fruited variety forming a strong, erect, bushy plant two feet high. Often sold as Tree Tomato. Fruit smooth, medium sized, fairly solid and of good flavor. Desirable for forcing, as it can be planted more closely on the bench than the tall growing kinds. Price: $\frac{1}{2}$ oz., 15c; oz., 25c; $\frac{1}{4}$ lb., \$1.00.

Ponderosa. The largest variety in cultivation. Price: $\frac{1}{2}$ oz., 25c.

Earliana. It is a full week ahead of all others. Plants of strong growth and very productive; fruit large, deep red, and of superior quality. Smooth and free from cracks. Price: $\frac{1}{2}$ oz., 10c; oz., 20c; $\frac{1}{4}$ lb., 75c.

Early Acme. One of the earliest and handsomest varieties. Medium size, perfectly smooth and regular, very solid fruit, borne profusely. Dark red with purplish tint. Price: $\frac{1}{2}$ oz., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c.

New Stone. One of the heaviest and most solid fruited of the large tomatoes. Vines vigorous and productive. Fruit round, slightly flattened, very large, very rich scarlet. Price: $\frac{1}{2}$ oz., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Dwarf Stone. Plants grow dwarf and stocky, like those of Dwarf Champion, and can be set out close together. The fruit is like Stone, solid and deep red, and of fine quality. Ripens a little earlier than Stone. It is worth planting in every home garden. Price: $\frac{1}{2}$ oz., 15c; oz., 25c; $\frac{1}{4}$ lb., \$1.00.

Golden Queen. A very handsome yellow tomato of large size. Price: $\frac{1}{2}$ oz., 10c; oz., 20c.

Yellow Pear and Yellow Plum. A small yellow tomato; is grown for preserves. Price: $\frac{1}{2}$ oz., 15c; oz., 25c.

Other Varieties. We can supply any of the standard sorts, whether listed here or not.

For Tomato Plants, see page 21.

Turnips

Early Turnips should be planted very early. Late Turnips can be sown in July or August and will keep growing until the ground freezes. Use 2 pounds of seeds to an acre.

Extra Early White Milan. The earliest turnip. Tops very small, very erect and compact. Price: oz., 15c; $\frac{1}{2}$ lb., 75c; lb., \$1.25.

Extra Early Purple Top Milan. Similar to the White Milan except the upper portion is a beautiful purple-red. Price: oz., 15c; $\frac{1}{2}$ lb., 75c; lb., \$1.25.

Purple Top, Strap-Leaved. The most popular sort. More largely grown than any other tur-

nip; will form good size bulbs in seven or eight weeks. Price: oz., 10c; $\frac{1}{2}$ lb., 40c; lb., 60c.

Purple Top White Globe. Of a perfect shape with smooth, white skin; flesh pure white, firm and crisp and of quick growth. Price: oz., 10c; $\frac{1}{2}$ lb., 40c; lb., 60c.

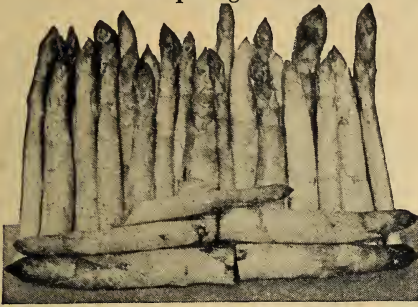
Rutabaga or Swedes

Rutabaga or Swedes—Improved American Purple-Top. For the fine qualities and productiveness this is the best. The roots are finer and larger than the ordinary; the flesh is a rich yellow. Price: oz., 10c; $\frac{1}{2}$ lb., 40c; lb., 65c.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

MISCELLANEOUS VEGETABLES

Asparagus



The Asparagus bed furnishes the first green delicacy for the table in the spring, is universally popular and requires but little care.

Bonvallet's Giant. Price: oz., 15c.
Columbia Mammoth White. Price: oz., 10c.
Conover's Colossal. Price: oz., 10c.
Asparagus Roots. Two years old. See page 21.

Cress or Pepper Grass

Early Curled. Well-known salad. Sow at intervals all season. Price: oz., 20c.
True Water. Sow seeds along the border of running water. Price: ½ oz., 20c.

Egg Plant

A tender plant that should be started quite early in a hotbed and transplanted.



Improved New York Purple

New York Improved Large Purple. Fruits large, nearly round, dark purple, free of thorns. Price: ½ oz., 30c; oz., 50c.

Black Beauty. Fruit large, symmetrical in shape and of a rich dark purple color. Little earlier than our Improved Large Purple. Price: ½ oz., 30c; oz., 50c.

Endive

(One ounce will sow about 60 square feet).
 One of the best salads for fall and winter use. Sow seed in April for early use or in June or July for winter use. When leaves are eight inches long tie them together with a string near top to blanch. Price: oz., 15c.

Broccoli

The culture is the same in all essentials as for cauliflower. Withstands greater extremes of temperature than cauliflower.

Early White Vienna. Extremely early, with distinctly small tops. Price: ½ oz., 15c.

Early Purple Vienna. Very early, with small top, the left stems being tinged with purple. Price: ½ oz., 15c.

Mustard

New White Chinese. Leaves tender and delicious. Price: oz., 10c.

Kohl Rabi

The Kohl Rabi is a vegetable intermediate between the cabbage and turnip and somewhat resembles each in flavor. The edible part is a turnip shaped bush formed by the enlargement of the stem. Price: oz., 15c.

Brussels Sprouts

Improved Half Dwarf. The plants grow two to three feet high and produce from the sides of the stalk numerous little sprouts which resemble small cabbages one or two inches in diameter. Price: ½ oz., 25c.

Kale or Borecole

Dwarf German. Very hardy, with dark green leaves; much improved by frost. Price: oz., 15c.
Dwarf Curled Scotch. Dwarf, beautifully curled, bright green. Price: oz., 15c.

Leek

Belongs to the onion family. Set the roots deep and draw the earth to them when cultivating.

London Flag. The variety generally cultivated in this country. Price: oz., 20c.

Parsley

(One ounce will sow 150 feet of drill.)

Sow very early, thinly in drills one foot apart and half an inch deep. Soak seed in warm water a few hours before sowing.

Champion Moss Curled. A very select stock, finely crimped and curled. Price: oz., 10c; ¼ lb., 25c; lb., 75c.

Hamburg. Turnip-rooted variety; used for flavoring soups.

Rhubarb

Easily raised from seed.

Large Victoria. The standard variety. Price: oz., 10c; ¼ lb., 30c; lb., 85c, postpaid.
 For Rhubarb Roots, see page 21.

Salsify

Mammoth Sandwich Island. By far the largest and best for market. Roots of superior quality and double the size of the old variety. Price: oz., 25c.

Sweet Herbs

	½ oz.
Large Victoria Rhubarb	\$0.10
Anise Seeds, aromatic	.10
Caraway	.25
Catnip (Cat Mint)	.10
Coriander for flavoring	.16
Dill (2 oz., 30c; ¼ lb., 50c)	.20
Lavender	.25
Marjoram, Sweet	.20
Saffron	.15
Sage, Broad Leaf	.15
Savory, Summer	.25
Thyme	

Mushroom Spawn

Mushroom Culture. Mushrooms may be grown any place where the conditions of temperature and moisture are favorable. A shed, cellar, cave or vacant space in greenhouse. Twelve page pamphlet telling how to prepare bed, plant and grow the crop, 25c each, free with order for \$1.00 worth of spawn.

We carry the American Spawn Co.'s Pure Mushroom Spawn, conceded to be the best spawn sold. Always fresh.
American Spawn, in bricks, each.....\$0.30
One brick, by mail, postpaid......40

BULK FLOWER SEEDS

Are better, cost less, more certain to grow than paper seeds.

One of the most cherished recollections that we have of our mother's or grandmother's home is that of the beautiful array of brilliantly colored flowers—marigolds, daisies, pansies, balsams, asters, pinks, poppies, nasturtiums and other flowers in great array.

NOTICE!

Prices: All Flower Seeds in Bulk put up in quantities of 10c, 15c and 25c worth of each sort to suit buyer. In ordering state value each kind wanted and we will fill accordingly. Trade packet, 8c each; 2 for 15c.

Ageratum. A beautiful, hardy annual, covered with bloom all summer.

Alyssum. Sweet scented, hardy annual, blooms early in the spring; a pure white flower, and continues to bloom until late autumn. **Little Gem,** annual; Saxtile yellow, perennial.

Aster

Aster. In their many varieties and colors, are the grandest and most beautiful flowers that bloom in the home garden.



American Aster

Aster, American Beauty. This new type of Aster of American origin is one of the most attractive of all large flowering branching sorts, vigorous grower and profuse bloomer with whorled center as the flower unfolds. Comes in two shades:

American Beauty (same as the famous rose of that name) and again the same type comes in a bluish purple. ,

Price per packet, either color straight or mixed, 15c.

OTHER ASTERS

Giant Comet Branching Type. Mixed. Price: pkt., 15c.

Extra Early Express. (Early Flowering type). Very early. Mixed. Price pkt., 10c.

Balsam. Known as Lady Slipper, and Touch-Me-Not. The colors range from white to dark purple. Hardy annual, one to two feet high. Mixed Double Sorts.

Calendula, (officianalis). This variety has large flowers resembling in size and form the finest aster. It blooms profusely with a succession of bright deep orange flowers, from July until frost.

Callopsis. Snowy border plant, flowers bright yellow or rich brown, either self-colored or with these colors and red contrasted. All sorts mixed.

Canary Bird Flower. One of the best climbing plants with graceful foliage and yellow flower fancifully resembling the canary bird.

Candytuft. Showy, branching plants six to twelve inches high; will bloom from July to September, or if planted in the fall, from May to July. All sorts mixed.

Castor Bean (Ricinus). Tall, majestic plants for lawns, with leaves of green metallic blue; of very quick growth in rich soil. **Zanzibariensis,** very large green; and the **Gibsonia,** beautiful bronze foliage.



Celosia—Woolflower

Celosia (plumosis). Distinct variety of bush form of growth about 2 feet, branching freely and bearing a profusion of beautiful ball-shaped woolly flower heads of intense scarlet. Sometimes called the **Wool Flower.** Surpassing the Red Geranium in blooming effect and blooms all summer until the frost comes. Price: pkt., 20c.

Carnation. "Florists Pink", easily grown from seed; free blooming; flowers bright with clove-like fragrance; some varieties are suited for house plants; other do best in the open ground. Plant in April. Half hardy perennial. **Margaret Mixed, Dwarf Mixed.**

Centuria-Cyanus (Bachelor Buttons, Corn Flower) in its improved forms is one of the most attractive of garden flowers. One to two feet high. **Double Mixed.**

Coreopsis. Very showy, free flowering plants, native of this country, fine for borders and beds. **Yellow Flowering.**

Cosmos. A very effective autumn flower, bush-like plants 3 to 5 feet high, and covered with large single dahlia-like flowers. **Early Flowering, mixed.**

Cypress Vine. A most beautiful climber with delicate, dark green, feathery foliage, scarlet blossoms. Tender, annual.

Forget-Me-Not (Myosotis). A favorite old-fashioned flower, bearing in profusion clusters of blue blossoms. It thrives well in the shade or open border. Hardy perennial.

Four O'Clock (Marvel of Peru). The flowers are funnel-shaped and open about four o'clock in the afternoon and remain open all night and generally perish before noon next day; will grow in any soil. Hardy annual, 2 feet high.

Price per trade packet on seeds described below, except otherwise quoted: 8c each, 2 for 15c.

Gypsophila.....(Baby's Breath). Pretty free flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers.

Heliotrope. Highly valued for the fragrance of their flowers and duration of bloom.

Job's Tears. An ornamental grass known botanically as *Colx Lachryma*. Grows 2 to 3 feet high, with broad corn-like leaves.

Kochia or Summer Cypress. (*Kochia Tricophylla*). A highly ornamental annual, having a cypress-like appearance. Its bright autumn coloring has given it two other names: "Mexican Fire Plant" and "Burning Bush."

Marigold. Old-fashioned flower blooming in profusion; usually 2 feet high; blooms till frost comes.

Mignonette. A well-known hardy annual, producing exceedingly fragrant flowers. Seed sown in autumn will bloom early in the spring; thrives best in cool temperature; 1 foot high. **Mixed Sorts and New Machet.**

Morning Glory. Handsome, showy climber, suitable for covering windows, trellis, old stumps, etc., if support be given the vines. Hardy annual; 10 feet high. **Giant Japanese Mixed.**

Pinks. For beautiful and lasting cut flowers, ease of culture and freedom of bloom, the hardy garden pinks have no superior among annuals; 18 inches high. **Chinese Double**, fine mixed; **Midnight Blood Red**, **Double White**.

Poppies. Great advance has been made in recent years in the development of the Poppy. No other flower produces a more brilliant display of colors during the blooming period. **Double Carnation Type**, **New Shirley**. Dazzling **Silk Scarlet**; **Oriental Poppy**, brilliant color. **Eschscholtzia (California Poppy)**.

Portulaca or Rose Moss. There are few flowers in cultivation that make such a dazzling display of color in the bright sunshine as a bed of *Portulacas*. The flowers close in shadow but are open in sunshine. We carry **Single Mixed and Double Mixed**.

Petunia. For freedom of bloom, variety of color and effectiveness these have no equals. If only a little care is bestowed upon them. *Petunias* will produce their handsome, sweet-scented flowers in their delicate and gorgeous colors throughout the whole summer.

Salvia. Among the most brilliant colored flowers and extremely useful for bedding. Blooms are of fiery red crimson color, continuing to flower for a long time. Tender perennial; blooms until frost; height 2 to 3 feet. See page 19 for plants. **Salvia Splendens**, scarlet flowered.

Salpiglossis. Very showy bedding or border plants, with richly-colored, funnel-shaped flowers, which are purple, scarlet, crimson, yellow, buff, blue and almost black; height, 1 foot. **Fine Mixed Sorts.**

Stocks. To such perfection has selection brought this flower that good seed will have a large proportion of exceedingly double flowers. Average height, 1½ feet. **Double German.**

Sensitive Plant. Very pretty and curious plant, its leaves closing when touched. The seeds start slow and it is best to start them in boxes; cover shallow and see that they do not dry out; it makes a good house plant for winter and always pleases the children.

Sweet Williams. For display in the garden, the Sweet William is unsurpassed. The seed can be planted in the spring in the open ground and will blossom in the fall. Hardy perennial; 1½ feet high. **Fine Mixed Single. Mixed Double.**

Verbena. Sown in May, they will bloom in August, but if started in the house in pots in winter, they will be in bloom sooner. Seeds should be soaked in lukewarm water before planting, and care should be taken that the soil be very rich. Half hardy perennial trailer; 6 to 10 inches high. **Fine Mixed Sorts.**



Pansy.

Pansies. Pansies are now produced in almost infinite variety of form, color and markings. We have the plants as well as the seed. See page 21 for plants. **Giant Flowering**, all colors; **Choice mixed**, many colors. Price: **pkt., 10c.**

Masterpiece, this has a double-fluted flower. Price: **Pkt., 25c. Potted Plants, per doz., 75c.**

Zinnia. Showy plants with large, double flowers. Might be taken for dwarf Dahlias. Few flowers are more easily grown or bloom more abundantly throughout the season. Sow the seed early and transplant to 1½ feet apart in good rich soil. **Mixed Double**, all colors.



Jacqueminot Zinnia. This splendid red-flowering Zinnia surpasses any other that has ever been grown. The plants are strong, vigorous growers, about 18 inches high. Just covered with velvety, double red flowers throughout the summer until frost in fall.

Price of trade packet seeds described on this page, 8c each, 2 for 15c.

Nasturtiums

GIANT FLOWERING

Nasturtium. Few flowers equal the *Nasturtium* in richness and variety of colors, freedom of bloom and ease of culture. They are suitable for bedding and handsome climbers, grow quickly, thrive in the poorest soil and furnish the greatest abundance of long-lasting, sweet-scented cut flowers.

King Theodore. Rich, deep crimson flower; most striking and beautiful of all tall-growing *Nasturtiums*. Foliage dark green and vigorous. 1 oz., 15c; $\frac{1}{4}$ lb., 45c.

Lobb's Climbing Nasturtiums. These should not be confounded with the common tall *Nasturtiums*, as they surpass them by far in the remarkable brilliancy of the flowers. The flowers are much larger than those of the old-fashioned kind, and in nearly all of them the petals overlap each other. $\frac{1}{2}$ oz., 10c; oz., 15c.

Tall Chameleon. The flowers of this new *nasturtium* are in color crimson, gold and bronze, bordered and flamed, changing in hue almost daily, hence named 'chameleon.' $\frac{1}{2}$ oz., 10c; oz., 15c.

Nasturtium, Tall Mixed. In this mixture will be found the choicest of all colors and varieties. Price: oz., 10c; $\frac{1}{4}$ lb., 35c.



Dwarf Nasturtium

Nasturtium, King of Tom Thumb. A dwarf variety with intense deep scarlet flowers, dark green foliage. Price 15c per oz., $\frac{1}{4}$ lb., 45c.

Nasturtium, Dwarf King Theodore. Velvety red flowers with dark green foliage. Price 15c per oz., $\frac{1}{4}$ lb., 45c.

Nasturtium, Dwarf Mixed. A special mixture of Dwarf *Nasturtium* of a great many colors in even proportions. Price 10c per oz., $\frac{1}{4}$ lb., 35c.



Sweet Peas. Sweet Peas are among the most beautiful of all our hardy annuals. Select a sunny, open place several feet from any building and as far as possible from large trees. Sow as early in the spring as possible. Plant in rows and have the rows trenched for planting 4 to 6 inches deep. In dry weather water freely and keep the flowers picked closely. If allowed to go to seed the plants will stop blooming.

Manure Ash Fertilizer. Is the ashes from manure; contains 6 per cent total potash. They take the place of wood ashes, and give a great deal better all-round results, and do not make the muss that wood ashes do, and are especially valuable as a potash proposition; are used extensively for top dressing for Sweet Peas.

Spencer Standards Varieties

The *Spencer Types* are exceptionally large size, with long stems, the wings waved or frilled and the effect remarkably graceful and attractive. All *Spencers* are decidedly shy seeders. The price higher than for the older (*Grandiflora* type). We offer in the different shades, what we can sider to be the best varieties.

Apple Blossom Spencer. (Rose Spencer). Standard with primrose wings. Very large; true *Spencer* form. Per $\frac{1}{2}$ oz., 15c; oz., 25c; $\frac{1}{4}$ lb., 75c.

Blanch Ferry (Pink Spencer). Usually a little darker than *Blanche Ferry* and some of the flowers show striping. It is one of the most attractive varieties ever introduced. Per $\frac{1}{2}$ oz., 15c; oz., 25c; $\frac{1}{4}$ lb., 75c.

Etta Dyke (White Spencer). Standard and wings of pure white, beautifully waved and fluted. An especially attractive variety of very large size. Per $\frac{1}{2}$ oz., 15c; oz., 25c; $\frac{1}{4}$ lb., 75c.

Mrs. Hugh Dickson (Salmon Pink Spencer). A light on cream background, strong growers; throws four flowers to a stem. Per $\frac{1}{2}$ oz., 15c; oz., 25c; $\frac{1}{4}$ lb., 75c.

King Edward VII (Red Spencer). The best pure red *Spencer*; very large, with especially immense wings. Per $\frac{1}{2}$ oz., 10c; oz., 20c; $\frac{1}{4}$ lb., 60c.

Othello (Maroon Spencer). Of immense size, with large drooping wings; rich maroon. Per $\frac{1}{2}$ oz., 20c; oz., 35c; $\frac{1}{4}$ lb., \$1.25.

Spencer Mixed. All the *Spencer* varieties included in making up this magnificent mixture. A splendid range of colors is thus assured in remarkably large size and wonderfully attractive form. Per $\frac{1}{2}$ oz., 10c; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$2.00.

Hercules (Rose Spencer). A pale size. Per $\frac{1}{2}$ oz., rosy pink of giant 15c.

GRANDIFLORA TYPE

Eckford Mixture. This is an old and well known mixture of *Grandiflora* type. Contains some of the entire list and cannot fail to give the very highest satisfaction of the *Grandiflora* Sweet Peas that for years have been the pride of the flower garden. Price: Per $\frac{1}{2}$ oz., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., \$1.00.



Eckford Mixture

DEPARTMENT OF BULBS, ROOTS AND FLOWERING PLANTS

Peonies

Peonies. These big hearted flowers are as much liked today as they were by our grandfathers a century ago. Peonies will grow and do well anywhere pie plant will grow. Give them a deep, rich soil, plenty of barnyard manure, or better still, manure from the hen house, and they will repay you one hundred fold. The Peony, once planted, lasts a generation and grows better every year. They are perfectly hardy and need no winter protection whatever.

Festiva Maxima Peony. Is the Queen of all. The acme of perfection, with every point of excellence. Without exception the plant itself is one of the hardiest, most robust and powerful growers of the entire list of Peonies. The flower, a glorious form of purest white combines great size with wondrous beauty. Flecked here and there with a speck of crimson which seems to bring out the white in clearer relief. 3 to 5 year roots. Price: Each, 50c. 3 year old undivided clump, \$2.50.

L'Esperance. Exceedingly fine, vivid rose-colored flowers, high, full center, very compact, very early and free blooming, highly perfumed. The best fragrant rose-colored peony. 3 to 5 year roots. Price: 35c each. 3 year old undivided clump, \$2.00.

Felix Crousse. The ideal self-colored red Peony; large, globular and compact, an even shade of bright red without trace of any other color; a strong, vigorous grower. 3 to 5 year roots. Price: 75c each. 3 year old undivided clump, \$3.00.

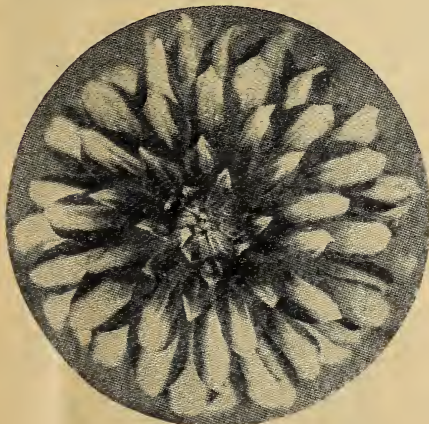


Nigra (Grandiflora Rubra). Extra large, perfect balls of blood red, magnificent flowers. Probably the largest peony in existence. Flowers often eight to nine inches across, and so double as to appear like perfect balls. Price: Each, 50c; 2 for 90c.

Mixed Peonies. Our Mixed Peonies are made up of broken lots of our very best named varieties, some of which are worth five times the price we ask for them. Price: Each, 25c; 6 for \$1.40.

Dahlia

As a home flower nothing equals the **Dahlia**. Plant the roots two feet apart, about four inches deep; lay them flat on side.



Gaiety

American Beauty. Brilliant, crimson red, rich and glowing, similar in shade to the American Beauty Rose. One of the most prolific bloomers ever introduced. Price 25c each.

Souvenir Douzon (Decorative). An immense flower with broad, flat petals and full to the center. The largest red in the decorative section. Price: Each, 25c.

Purple Manitou. Immense flower; often solid purple in color, sometimes mottled with crimson; very attractive. Price 35c each.

Tango Masterpiece. A gigantic flower of clear, pure color, without shading; borne on long stems. Blooms early and continuously through the season. Color, clear rich tango. It is indeed a masterpiece. Height, 4 feet. Price: 35c each; 3 for \$1.00.

Delice. Its beautiful soft, yet lively color, a glowing rose-pink, together with its perfect shape, stout, stiff stems, which hold the flowers well above the foliage. Price 25c each; 3 for 70c.

Moonbeam (1916). (Decorative). An immense flower, borne on excellent stems. Color, clear canary yellow. One of the very best of the light yellows. Plant a sturdy grower. Blooms very freely and an excellent keeper when cut. Price: 25c each.

Gaiety. A superb new decorative, vivid scarlet, heavily marked with pure white. Stems are long and flowers are produced freely. Price: 25c each.

Mrs. Winters (Decorative). This superb white Dahlia is generally and favorably known. Always reliable, always satisfactory. As a white it has neither superior nor equal. Price 25c each.

D. M. Moore (Show). A flower of mammoth size, produced in profusion on long, stiff stems. Its color is a deep, velvety maroon. It has no equal in its color. Price: Each, 25c.

Souvenir Franz Liszt. (Peoneo flowering). Dark purple, maroon. Veined and shaded with white. Flowers very large. Price: Each, 35c.

Mixed Sorts. Various colors and kinds, mixed. Price: Each 15c; 2 for 25c.

Canna Roots and Plants

The king of bedders. The plant requires deeply dug, well enriched soil. Plant when ground is warm. Set the taller kinds for the center and dwarf kinds for the outer edges. Canna plants ready about May 1st.

Yellow King Humbert. A charming new variety with orchid blooming yellow flowers. Per root 15c each.



King Humbert Canna. (4 ft.) Bronze foliage Velvety, orange scarlet, flecked carmine; heart-shaped ears of a deep purple. Price: Per root, 15c each; doz., \$1.75.

Beacon. (4 to 4½ ft.) Heavy, lateral growing rich green foliage. Flowers of very rich cardinal, which are produced in great masses. Its immense flowers with handsome foliage are very striking. Per root, 15c each; 3 for 40c; doz., \$1.50.

Wyoming. (7 ft.) Purple foliage. One of the most majestic Cannas. Blossoms orange colored, true Orchid shape, with large, rounded petals. Per root, 10c; doz., \$1.00.

Musafolia. (8 ft.) Green foliage with Bronze border. Grown for foliage only, which on account of its enormous Mussa-like leaves, and is used for making screens and backgrounds. Per root, 5c; doz., 50c; 100 \$3.75.

Dwarf Mixture. Red flowering. Per doz., \$1.00.

Tall Mixture. Red flowering. per doz., 75c.

CANNA PLANTS (Potted) Per Doz

Canna Plants. The Canna is a tender, subtropical plant; roots easily affected by severe weather changes and often rot in the ground by being planted too early. The most effective way of planting them is to use plants which are started in a greenhouse early in the season and in 4 inch pots having 2 to 5 leaves on them by the first of May at which time, weather permitting, they can be planted outdoors.

Wyoming, Tall bronze, orange orchid flower grown in 4 in pot.....	3.00
Beacon, Dwarf green, red orchid flower grown in 4 in pot.....	2.50
Humbert, Dwarf bronze orange scarlet flower grown in 4 in pot.....	3.00
Musifolia, Tall green foliage, red flower grown in 4 in pot.....	2.50

Gladiolus Bulbs—Super Named Gladiolus

Gladiolus. Planted every two weeks from time soil can be cultivated until July; will give a lot of bloom from June until cut down by frost. Plant 6 inches apart in rows. The varieties listed below are a selection of the finest and most distinct kinds, including the sorts best suited for our soil and climate. We quote only first size bulbs.

America. Soft lavender pink, very light, almost a tinted white. Large, spreading blooms, immense flowers, first size bulb. Doz., 75c.

Panama. A new seedling of America, which is a much deeper pink. Spike very long with flowers large and well arranged, first size bulb. Each, 10c; doz., 90c.

Mrs. Frank Pendleton. In addition, the size of bloom is not exceeded by any other. One of the most exquisitely colored. The color is a delicately flushed salmon pink, first size bulb. Each, 10c; doz., \$1.00.

Empress of India. Dark, blackish-red, the darkest of all Gladioli; immense flower and extremely rich, first size bulb. 10c each, \$1.00 dozen.

Willy Wigman. Beautiful large white flower with distinct dark crimson blotch on the throat of the lower petals, first size bulb. Each, 10c; doz., 90c.

Lilly Lehman. White blossoms, splendid bloomer. Just as white as a lily, first size bulb. Each, 10c; doz., \$1.00.

Brenchleyensis. Intense fiery scarlet; very showy. A favorite for massing. Fine sort for planting in clumps among shrubs, first size bulb. Doz., 60c.

Mrs. Frances King. Effective flower spike with a good line of reserve buds continually opening. Flower 4½ inches, a brilliant vermilion scarlet. Each 8c; 2 for 15c; doz., 75c.

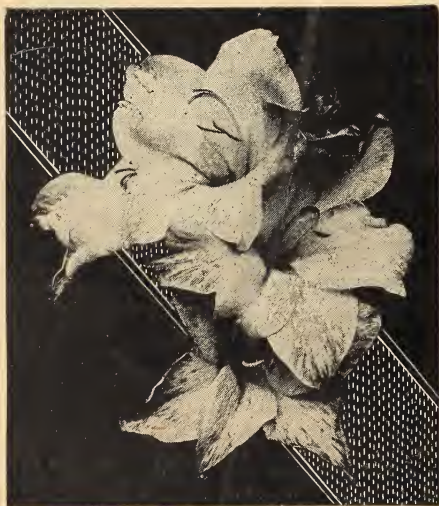
Princeps. The flowers are 5 to 6 inches broad. The color is brilliant scarlet-crimson, carrying mostly three broad white blotches on the lower petals, first size bulb. Each 10c.

Niagara. In color the flowers are a delightful cream shade with the two lower petals or segments blending to canary yellow. The throat is splashed with carmine, first size bulb. Each 10c; doz., \$1.00.

Imported Bulbs Mixed. First size. Beautiful blend. Doz., 50c.

Primulinus Gladiola. A new race of beautiful Gladiola; medium sized flowers and the very earliest of all varieties to bloom.

Native Mixtures. All kinds home-raised bulbs. Doz., 35c; \$2.50 per 100.



HERBACEOUS FLOWERING PLANTS, ROOTS AND BULBS

Lilies

Auratum Liliun (Gold-banded Lily). The grandest of all hardy Lilies; flowers white, spotted with maroon, having a bright yellow band through each petal. Each, 25c; doz., \$2.50.

Auratum Rubrum (Lily). Enormous flowers, sometimes measuring 10 inches across; pure white, beautifully spotted and with a deep crimson stripe. Each, 25c; doz., \$2.50.

Trigrdias Lily. These very handsome summer-flowering bulbs should be planted in the spring. They will flower profusely all summer. Each, 20c; doz., \$2.00.

Lilium Candidum (Madonna or Annunciation Lily). This is one of the oldest, loveliest and best known Lilies. The flowers are snow white, with the most delightful fragrance. Each, 25c; doz., \$2.50.

Lily Funkia. The bell-shaped bluish lavender flowers are produced on a flower stock three to four feet high. Each, doz.,

Lily of the Valley. The most charming of the spring perennials. Pips, each, 5c; doz., 50c; large clumps, each, 25c.

Hardy

Bleeding Heart. An old-fashioned favorite, equally well adapted for forcing as for planting the open border. Price: Clumps, each, 60c.

Campanula (Bell Flower). Bell-shaped flowers, well known and most easily grown. Price: Field Clumps, each 25c; doz., \$2.75.

Cinnamon Vine. A rapid-growing climber. The leaves are bright glossy green. Good roots. Each 5c; doz., 50c; extra large roots, each, 10c; doz., \$1.00.

Columbine (Rocky Mountain) (The Colorado State Flower). Flowers very large; lavender and white; each root forms a large clump. Each 25c; doz., \$2.50; Potted Plants, doz.,

Coreopsis Grandiflora. A showy border plant with large, handsome orange yellow flowers; blooms through the season. Each, 20c; doz., \$2.00.

Delphinium (Hardy Larkspur). Few plants are so handsome in the garden as these perennial Larkspurs. Each 25c; doz., \$2.75.

Golden Glow Chrysanthemum. A large, very showy plant, attaining a height of six feet, producing hundreds of flowers resembling yellow Chrysanthemums. Each 15c; doz., \$1.50.



Hardy Outdoor Chrysanthemums

Dianthus (Hardy Garden Pinks). Charming summer flowering border plants, more or less fragrant. Two-year clumps, each, 20c; doz., \$2.25.

Digitalis (Foxglove). 3 to 5 feet. Stately old garden favorites for garden and shrubbery borders, and naturalizing in suitable places. Field Clumps, each, 25c; doz., \$2.75.

Gaillardia. A showy flower, beginning to bloom in June and continuing through the season. Petals vary from scarlet-orange to crimson. Field Clumps, each, 25c; doz., \$2.75.

Hardy Phlox. Extremely showy and satisfactory plant. All colors. Choice Roots, each, 10c; doz., \$1.00.



Hollyhock.

Hollyhock Roots. This old-time flower appeals to our sentimental affection of the long ago and is still dear to us. A good background for the lower growing plants. Separate colors, pink, white, crimson or yellow. Roots, each, 15c; doz., \$1.50.

Madrea Vines. One of the best and most popular climbers on account of its dark green foliage. Strong Roots, each, 5c; doz., 50c.

Shasta Daisies (Alaska). Immense snow white flowers. Blooms through the season. The best daisy in the list. Each 25c; doz., \$2.75.

Not Hardy

Begonias, Tuberous-rooted. For brilliancy of color, duration and profusion of bloom, few plants can compare with the tuberous-rooted begonias offered.

Begonia, Single Mixed. Price: Each, 3 for Begonia, Single Mixed. Price on application.

Begonia, Double Mixed. Price: Each, 3 for Begonia, Double Mixed. Price on application.

Elephant's Ear (Caladium Esculentum). Grand 'tropic-looking plant'. In rich soil, if freely watered, they will produce enormous leaves, frequently four feet long, three feet wide. Height, 4 to 5 feet. Fair sized bulbs, each, 15c; medium sized bulbs, 25c; monster giant bulbs, 50c each.

Tuberoses. Large blooming bulbs; this is one of the bulbs all should have. Synonym of sweetness and purity. Kinds—Dwarf, Pearl or Tall Double. Price: Each, 5c; 12 for 50c.

Montbretias. One of the brightest and most winsome flowers we know of. From July to October they are one mass of blooms; graceful, bright and cheery. Each, 5c; doz., 50c.

Hardy Irises

(FLEUR DE LIS)



Beautiful Iris
French
Fleur de Lis
"Orchids of the
Garden."
National Flower
of France.

There is a peculiar charm about the Iris that appeals to all lovers of the beautiful in flowers. The blossoms are of rich and varied colors, quaint forms and some varieties are very fragrant.

Culture. A very sunny location suits them best. They can be planted in the spring, but the most favorable time is after blooming, late summer or early autumn.

Mixed Iris. These are made up from choice named varieties, fine flowered sorts in brilliant colors. Each 5c; doz., 50c; 50 for \$1.75.

Florentine Alba. Very large flower, pure white of a distinct individuality and rare. Each, 10c; doz., 75c; per 100, \$5.00.

Pallida Dalmatica. One of the most beautiful of the Fleur de lis Iris. Exquisite shade of lavender. Each, 10c; doz., \$1.00.

Juniata. Standard petals and falling petals; clear blue; large, fragrant flower. The tallest of the Bearded Irises, with unusually long, drooping foliage. Noted for its fragrance. Each, 35c; 3 for \$1.00.

Kochii. Richest of all the clear dark purple, large flowering Iris. Immense bloom of the Black Prince type. Each, 15c; doz., \$1.50.

Dwarf Iris (Chamari). Very dwarf. Earliest bloomer of all, blooming early in April. Deep rich purple flower, fine for border work. Each, 5c; 6 for 25c; doz., 40c; 100, \$3.00.

House and Conservatory Plants

Asparagus Plumosus (Lace Fern). Fine for table decoration. Suitable for hanging baskets and porch boxes. 6-inch specimen plants, each, \$1.00; 4-inch pots, each, 50c.

Cyperus Alternifolius (Umbrella Plant). Excellent house or aquatic plant. 3-inch pots, each, 50c; 4-inch pots, each, 75c.

Dracaema Indivisa. Much used for vases, window boxes and hanging baskets. 5-inch pots, each, \$1.00; 6-inch pots, each, \$1.50.

FERNS—Boston. Long graceful drooping fronds. Called by many the Fountain Fern. Each, 4-inch pots, 75c; each, 6-inch pots, \$1.50.

Dish Ferns. We sell thousands of these handsome ferns, dwarf in habit, for fern dishes. Each, 10c; doz., \$1.00.

Pandanus (Screw Pine) Utilis. Green leaves, red spines. Variegated Veitchii green and white. 4-inch pots, each, \$2.00; 6-inch pots, each, \$3.00.

PALMS. We have Kentia Belmoreana and Fosteriana, and Phoenix Canariensis and Roebelenii; fine plants. Price: 4 inch pots, each, 75c; 6 inch pots, each, \$2.00.

Scilla Maritima (Sea Onion). An ornamental plant, the scaly layers of the bulbs being used for making Syrup of Squills. Price: Each, 25c medium to large, 35c.



Hardy Ferns

FOR OUTDOOR CULTURE.

Many of our native hardy outdoor Ferns take as readily to culture as most of our garden flowers. The Ostrich Fern, an orchid feathered foliage type, is the most popular variety for garden cultivation. With a little well-rotted manure mixed with the soil or some leaf mold from the woods, it will flourish as well as in its wild state.

MONSTER ROOTS. Price: 20c each; 6 for \$1.00; doz., \$1.50.

Autumn Planting Bulbs

FOR EARLY SPRING FLOWERS.
SEASON TO PLANT, OCTOBER AND NOVEMBER.

Hyacinth, Tulips, Narcissus, Jonquils, Crocus and Snowdrops, which bloom so early in the spring are for autumn planting only.

Many persons, seeing these beautiful flowers all abloom in early springtime, think they can get some, too, right away, but alas, their surprise and chagrin when informed that to have them in Springtime all abloom the bulbs must be planted the autumn before. We have a catalog of all these Bulbs and Herbaceous Perennial Roots for autumn planting, prices, descriptions, etc., free for the asking.

Remember—We have a complete line of these bulbs in season. September until November.

Plant Department

Flowering Plants

FOR HANGING BASKETS

We grow large quantities of all these popular varieties of flowering plants.

Hanging Baskets. All filled with beautiful plants and swinging from ceiling on porch or veranda, are charming and attractive to the home. Each \$2.50 and \$3.00, according to size and plants used.

Plumosis Hanging Baskets. Dark green feathery foliage. Price: Each, \$3.50 to \$4.00.

Sprengerii Hanging Baskets. Everlasting rich green foliage. Price: Each, \$3.00 to \$3.50. Wire Hanging Baskets Empty 60c each.

Green Sheet Moss for lining hanging basket. Price: Per lb., 35c.

FOR BEDDING, WINDOWBOXES AND VASES

Aster Plants. American type. American purple and American Beauty Rose. Giant branching. Potted Plants, doz., 75c. Mixed in Baskets of 1 doz., 50c.

Coleus Plants. For border work. Either golden, green, red, black and variegated foliage. Price: 2½-inch pots, doz., 75c.

Dusty Miller Plants. For foliage only; border plant of the finest sort. Price: 2½-inch pots, doz., 75c.

Mme. Sallerio. The best border Geranium. Foliage variegated green and white. Price: 2½-inch pots, doz., \$1.00.

GERANIUMS.

Prices do not include pots.

Geranium Plants. The grandest of all bedding plants. Double flowering dark red, pink and white; potted plants only.

S. A. Nutt. Best of the dark crimson-scarlet bedders. Perfectly double and a remarkably free bloomer; blooms all summer.

La Favorite. The best double white bedding Geranium.

Madame Perkins. Large flowering, cerise pink, unparalleled for beauty and freshness.

Price: 4-inch pots, each, 25c; doz., \$2.75.

Ivy Leaved. A free flowering variety. Extra fine for porch boxes. Price: Each, 3-inch, 15c; 4-inch, 25c.

Lobelia Plants. Easy culture, used in vases and border; blue flower. Price: 2½-inch pots, doz., 75c.

Pansy Plants. Mixed colors, finest French strains, large fluted flowering sort. Price: Potted, 2½-inch pots, each, 8c; doz., 75c. In baskets, earth, basket of dozen, 50c.

Petunia Plants. Single large fringed flowering Italian strains. Price: 2½-inch pots, each, 15c; 3 for 35c; doz., \$1.00; double flowering sorts, each, 25c; doz., \$2.50.

Salvia Plants. Richest scarlet flower; finest of all bedding plants; long spikes of dazzling red, lasting all summer until frost. Price: 2½-inch pots, doz., \$1.00; 4-inch pots, doz., \$2.50; growing in baskets, earth, basket of doz., 50c.

Sprengerii (Emerald Feather). For foliage only; for porch boxes and hanging baskets. Price: 3-inch pots, doz., \$2.50; 4-inch, 25 each, \$3.00.

Verbena Plants. Single plants of this pretty annual creeper will carpet a space 8 to 10 inches in diameter with neat foliage and scores of fine flowers. Price: All colors, 2½-inch pots, doz., 75c; growing in basket of earth, basket of doz., 50c.

Vinca Vines. For foliage only; variegated and green; hanging baskets and porch boxes. Price: 2½-inch pots, doz., \$1.50; 3-inch pots, doz., \$2.25; 4-inch, 25 each, \$3.00.

Vegetable Plants

We grow large quantities of Vegetable Plants and Roots, and can supply all the varieties listed below in their proper season. Well grown and packed to carry a long distance, they can be shipped from the beds on a day's notice. All prices subject to season conditions, stocks on hand and change at time of purchase. Write for spring prices.

Cabbage Plants. Transplanted plants, early sorts ready April 15th; late sorts ready May 10th. Doz., 15c; 100, \$1.00; Potted Plants, 50c doz.

Cauliflower Plants. Early Snowball and second early. Transplanted Plants, doz., 25c; 100, \$1.75.

Celery plants. Ready May 10th. Early White Plume. Golden Self Blanching and Pascal. Doz., 10c; per 100, 75c.

Egg Plants. In pots or growing in basket of earth only. Basket Earth, 50c; Potted Plants, doz., 60c.

Pepper Plants. Bull Nose and Chinese Giant in bulk. Doz., 15c; in basket earth growing, doz., 50c; 100, \$1.50.

Sweet Potato Plants. Ready about May 5th. Yellow Jersey plants. Price: 100 plants, 75c; 500, \$3.25; 1,000, \$6.00.

Horseradish. Large roots, each, 10c; doz., 75c. Special price in quantities.

Tomato Plants. Dwarf Champion (Tree). Ready about May 1st. Earliana, Bonny Best, Dwarf Champion and other leading sorts. Per doz., growing in basket earth, basket, 25c. Potted Plants, 2-inch pots. Fancy Plants, doz., 50c; 3-inch pots, doz., 75c; 4-inch pots, doz., \$1.50.

Transplanted Plants. Loose in bulk. Doz., 15c; 100, \$1.15; 1,000, \$10.00.

Seedling Plants. 100, 50c; 1,000, \$4.00; all kinds when ready.

Asparagus Roots. Crowns should be set early in spring or late in fall. Mammoth White or green Palmetto. 2-year-old roots. Doz., 25c; 100, \$1.50; 1,000, \$10.00.

Rhubarb or Pie Plant (Wine Plant). Roots can be planted either fall or spring. Choicest large sorts, roots, each, 10c; doz., \$1.00; 100, \$7.50.

Chives. Per clump, 15c.

Mint. (Spearmint). Per clump, 20c.

Write for special price list of plants in spring before planting.

ALFALFA AND CLOVER SEED

On account of the unsettled market on grass seeds at this time as we go to print, we are not quoting. Prices will be made on application with sample of seed.

Caution. It is fully as incumbent upon the part of the buyer to see that he gets what he bought as it is upon the part of the seller to exercise every caution and care to furnish what he sold. Mistakes occur in the best regulated business. The buyer should therefore check his purchases over, examine it carefully just before planting, and know positively that all is correct.

Alfalfa

The Clover and Grass Seed we handle are clean and free of all foul and obnoxious weed seed. We invite everyone interested to call and inspect our stocks before buying elsewhere.

Remember, all prices named on these seeds are subject to market changes without notice. Ask for samples and special prices on your seeds. Grain bags extra, 60c each. Come, be friendly and give us a call.

Turkestan Alfalfa

Our seed is imported direct from the cold, northern country of Asiatic Turkestan, on the Siberian plains of Russia. Recommended by the U. S. Government Department of Agriculture for years as the hardest strain of this great forage plant to be found anywhere on Mother Earth. We offer this seed for sale, true and tried, 99 per cent purity, highest germination. Price on application.

Native Alfalfa—Non-Irrigated

This grand clover forage plant is now a success everywhere. Every farmer has either heard of or knows its worth and merit. The plant grows, thrives and does well on any of the rolling prairies or well-drained bottom lands. The young plants are tender; the seed should not be sown till the frost has left and ground is warm. One bushel of 60 lbs. will sow three to four acres. It should not be cropped or pastured the first year. Can be planted with a light nurse crop of barley, speltz or wheat.

The stock we handle is northern-grown native Nebraska and Dakota seed. Price, per bu., \$10.00 to \$12.00.

Grimm Alfalfa

A very hardy, acclimated strain developed in Minnesota. The roots are more or less of lateral tendency, and do not consist entirely of one straight tap root. For this reason it is desirable for land having a hard sub-soil, which is difficult for the roots to penetrate. It is claimed by the Department of Agriculture that it has come to be through its long continued acclimating absolutely one of the hardest varieties that we have in America. Price on application.

Red Alsike and White Clover

Medium Red Clover. This is by far the most important of all the varieties for practical purposes. Sow in spring or fall, and if no other grasses are used, at the rate of 15 pounds per acre; more is used on old soil than on new. Price, per bu., \$11.00.

Mammoth Red or Sapling (Trifolium pratense.) Similar to Red Clover, but coarser, taller and more hardy. Sow from 12 to 15 pounds per acre. Price on application.

Alsike or Swedish Clover. The most hardy of all clover. On rich, moist soil it yields an enormous quantity of hay or pasturage, but its greatest value is for sowing with other clover and grasses, as it forms a thick bottom and greatly increases the yield. Sow in spring or fall



Field of Alfalfa.

at the rate of 10 pounds per acre when used alone. Price on application.

White Clover. A small perennial variety valuable for pasturage and for lawns. It accommodates itself to a variety of soils and can be grown anywhere. Can be used to great advantage in pasturage mixtures. Sow in spring at rate of 8 to 10 pounds per acre, or when used with other grasses half that amount. Price: Per lb., 80c; price per 100 or in quantity on application.

Sweet Clover—White Flowering

Sweet Clover is known by several names, viz.: Bokhara, Tree-clover, Giant Alfalfa, and Honey Lotus. There are two preferred varieties, White and Yellow Flowering Biennial varieties. The White Flowering Biennial is preferred to all others because it grows taller, makes a more powerful root growth and produces more forage.

Like Alfalfa and other legumes, all the various varieties are fertilizers, because Nitrogen gathering bacteria infest the roots. It can be planted very early in the spring-time with or without a nurse crop. Its first year's growth is 2 to 3 feet. The first year's crop for hay should be cut in the latter part of the summer or early fall. It can be cut close without injury to the plant. The second year's crop for first cutting should be cut high for hay, not later than the first appearance of the blossom. Price: per bu., \$9.00.

Giant White Annual. This is a valuable new type discovered by Prof. Hughes of the Iowa State College. It is just like the big biennial white except that it is an annual and makes its entire growth and seeds the first season. Seed very scarce yet. 50c per oz.



Field of Medium Red Clover

See Page 44 for Nitragin cultures, inoculation for Alfalfa, Sweet Clover and other legumes.

Prices on seed quoted on this page are subject to market changes without notice.

Timothy

Timothy. This well-known grass is the best of all grasses for hay. Succeeds very well on all kinds of soil, but is well adapted to moderately moist land. Should be cut just when the blossom begins to fall. Can be sown in spring or fall. One bushel sows 3 acres. Is used in mixture with clover and other grasses to good advantage. Per Bushel, \$4.50.

English Blue Grass



English Blue Grass.

It is a success everywhere, on all kinds of land, and never freezes out. It comes early in the spring, is green all summer and lasts until late autumn. It's an early quick crop and a nutritious pasture grass. It's a perennial, 2 to 3 feet high and heads out in June. Best seed, per lb., 40c. About 15 lbs. per acre. Special price on quantity.

Bromus Inermis

(Awnless Brome Grass.)

A hardy perennial standing extremes of heat, cold and drouth better than any other of our cultivated grasses. It is especially adapted to the Northwest. It grows with great rapidity and produces luxuriant pastures. The analysis made shows that it is exceedingly rich in flesh-forming ingredients. Sow about 15 to 20 pounds to the acre. Choice Dakota grown seed, bu., \$5.00.

Orchard Grass

Orchard Grass. This grass does well everywhere, and for hay can be cut much earlier than timothy. Succeeds the best of grasses in timbered lands or orchards. Sow one to two bushels per acre. Lb., 25c.

Kentucky Blue Grass



Kentucky Blue Grass

The universal pasture grass of America and the finest lawn grass in the world is our own Kentucky Blue Grass.

It starts like magic with the first smile of spring and is a velvet green until winter comes. It can be grown on the wild prairie and will catch but the best results are to be had by getting the seed well mixed with the soil. The seed we offer comes direct from Kentucky in car lots, and is fresh, clean and pure. Sold at rate of 14 pounds per bushel. For field seeding, 21-lb. quality, price on application. For lawn culture, double gravity our Purity Brand, 100 per cent pure, highest germination. Price: Lb., 50c.

21 lb. quality \$33.00 per 100 lbs.

Red Top



Red Top.

Red Top.

This grass is especially suited to low, wet, spouty lands; is, in fact, the only grass which is a real success on such soil. Stands our northern winters, can be sown on wet land without cultivation, and will catch. Into the wet soil it spreads its network of roots, tames the land and in a few years makes a deep, substantial sod. The seed often comes in the chaff, but the only thing to plant is the solid seed, clean from chaff. Sow 10 pounds per

acre. We quote best solid seed, very best, per lb., 40c. Price in quantity on application.

Rye Grass

This grass, though but an annual in this climate, in a very short time after the seed is sown it makes as fine a pasture as other grasses of long standing. The leaves are very dark green with a rich tint to the blade. It makes a pasture quick as oats or rye would, and being a grass is of far greater value. It makes a splendid winter pasture if left to cure on the ground. Per lb., 20c; per 100 lbs., \$12.50.

Forage and Field Seeds Department

Tennessee Millet

Pure Tennessee Millet of all the well-known kinds, is by far the most valuable. This well-known sort reaches the acme of perfection in the more southern states, and it is a fact that when the southern grown seed is planted in the north, it produces a taller stalk, and heavier growth of foliage than can possibly be raised from our own northern grown seed. Plant three-fourths bushel per acre. Price on application.

Sudan Grass

What U. S. Department of Agriculture thinks about Sudan Grass. That it is a tall annual grass, growing when sown broadcast, to height of 4 to 6 feet. It stools abundantly, as many as 100 stalks coming from a single root. Yields two cuttings in one season. It is a marked success, especially in semi-arid sections of the West. Drilling or broadcasting 15 to 25 pounds of seed per acre. Lb., 15c; 100 lbs. for \$10.00. Price in quantity on application.

Speltz

Has now been grown in the United States in a large way for several years and each succeeding season not only emphasizes its value, but sees its production increasing to an enormous extent.



Seed Oats

Iowa No. 103. Seed oats. This is a very prolific new variety of white oats, bred from a sport of the Kherson oats, discovered in a plant of that variety on the Iowa Agricultural College ground at Ames. Attention to this sport developed what is now known as the Pedigree Iowa No. 103 Oats. It is an immense cropper, great yielder, outyielding the parent stock by almost double. Has a good, strong stock, and stands well under adverse conditions. Every farmer interested in these crops should get at least enough to get his seed stock started from this valuable sort. Price: Per bu., \$1.00. Special price on quantity.

Pedigree Oats No. 105. This is a yellow oat bred up like No. 103 by the Iowa Agricultural College, who recommended it with unstinted praise as the best yellow oat ever introduced. J. O. Westrum, of Hamilton county, writing, says: "It is an early variety with strong, stiff straw that stands well on rich, black soil or slough land, is a great yielder and beats anything in oats ever raised around here." \$1.50 per bu. Special price in quantity.

Fancy Oats. Under this heading we offer standard, white oats which we are able to get from our customers who make a specialty of oats. These oats are carefully re-cleaned and are able to offer at a very reasonable price and make special prices in quantity.

Sugar Cane for Fodder

The greatest of all forage and fodder plants. It will yield two crops of fodder and a good fall pasture in one season. Roots deep into the subsoil and stands the drouths that often destroy other crops. As a rough provender it is unsurpassed. Sow 1 to 2 bushels per acre. Bu., \$1.50. Bags extra 60c. Special prices in quantity on application.



Sudan Grass

Marquis Wheat

A Thousand-Dollar Prize Wheat of Canadian Origin

Unquestionably the best all-around spring wheat grown. Has yielded as high as 50 bushels to the acre. Extremely early and productive as well as hardy. A favorite in Minnesota and is the best beardless wheat for Iowa farmers. Grows stiff, strong straw and is two weeks earlier than Blue Stem. Easy to handle at harvest, for it is free from beards. Millers praise it highly. Price on application.

Winter Rye

A good stock reclaimer. Fine for sowing in spring for pasture. Price: \$2.50 per bu.

Feterita

A Variety of Kaffir Corn, the New Drouth Resisting Plant

Feterita was introduced recently and has already in one year made a great name for itself in the drouth-stricken southwest country. It is 25 days earlier than Kaffir Corn, outyields Kaffir by far and is little affected by drouth. Per bu., \$2.25. Regular White or Red Kaffir Corn at \$2.00 per bu.

Barley Seed

Six Rowed. There are many who want to obtain or change their seed of barley, but who do not want to pay the price necessary to ask for the newer sorts. This is a good standard sort. Price on application.

Flax Seed

Minnesota No. 25. A wilt-resisting Flax which is a selection made by the Minnesota Experiment Station from stock received from the department of agriculture at Washington. Fine seed re-cleaned for seeding purpose. Price on application.

Buckwheat

This is very valuable for use on ground that cannot be seeded until late in the summer, as it can be sown as late as July 1st and still makes a good crop. Per bu., \$2.75.



Soy or Soja Beans



Dwarf Essex Rape

Dwarf Essex Rape

An annual plant of the cabbage family, grows very quickly in any weather and makes a big, loose bunch of leaves, somewhat like cabbage leaves, but long and narrow; grows all summer without going to seed. When eaten off it sprouts up from near the ground. All kinds of stock eat it readily and thrive on it, but most valuable for hogs, especially young stock. Broadcast, 5 lbs. per acre on well-prepared land, early in the spring, and after it gets started it will keep a dozen shoats to the acre all summer without other feed. Price subject to change. Per lb., 15c; per 100 lbs., \$10.00.

Cowpeas

Culture. Cowpeas should not be sown until the ground is thoroughly warm, say about the time corn is coming up. They should be drilled, as they do much better that way than broadcast. Can be some times drilled with a wheat drill, using one bushel per acre. Could be also drilled with a corn planter, leaving them either full corn-row width or straddling the rows and making them closer together. In this way you use from a peck to a half bushel per acre. They can be grown for hay or green feed, or can be plowed under for green manuring. For the corn-belt country the Whippoorwill and New Era are the two best varieties. Price on application.

Canadian Field Peas

This is the variety of peas grown so extensively in the North and Northwest as a field crop. They are somewhat similar to the ordinary garden pea, but make longer vines and more pods. They should be sown very early in the spring, either alone or with oats or barley at the rate of from one to two bushels per acre. They may be cut and cured for hay or let ripen and threshed like small grain. Price subject to change, per lb., 10c; per bu., \$4.75. Bags extra.

Soy or Soja Beans

Northern Grown. Valuable for hay or soiling food for cows, hogs and sheep pasture, also green manure. They resemble the navy bean in general appearance. Like clover they are great soil enrichers, gathering in nitrogen from the air and storing it in the soil. Many tests show that they may be grown wherever corn will ripen. They should be planted after corn in rows 2½ feet apart with 6 to 8 plants to the foot of row if grown for the beans, requiring about one-half bushel of seed per acre. When grown for hay, it is preferable to plant the rows closer together or sow broadcast, at the rate of 40 lbs. per acre. Price on application.

Syrup Cane Seed

Amber Syrup Cane. This is the strain of syrup cane we use mostly for our sorghum mills. It is very early, very pure strain of Early Amber. The Amber type differs from the Orange in being earlier, more slender and taller in growth, and is the kind mostly grown in the state, and the only one to go north.

Ames Amber. This is a new syrup producing variety of Cane which has been bred up by the College at Ames, Iowa, and it is one of the greatest sap producing varieties of sorghum in existence. It makes a better flavored variety of syrup and ripens in this climate earlier than any other variety and has been cut last year in just ninety days from the time it was planted, with a yield of about 200 gallons to the acre. In the northern half of Iowa it can be safely planted as late as the first to tenth of June. **Per lb., in the head, 20c; 6 lbs. for \$1.00; 10 lbs. for \$1.50; 25 lbs. for \$3.00.**

Early Rose Syrup Cane. This is another highly bred variety of cane for syrup making. It is different from the Short Orange in being of the Amber type rather than the Orange. The seed is strictly pure. **Per lb., in the head, 15c.**

Short Orange Syrup Cane. The Orange type of cane is heavier stalked than the Amber, but generally later. We have, however, an extra strain of it called "Short Orange" which is the best Orange cane we have ever found, and while not quite so early as the Amber, it is very sweet and makes a very heavy yield. **Per lb., 20c.**



Early Rose Syrup Cane

Sweet Potatoes

Grown Especially for Seed

The potatoes should be planted in a well-prepared hotbed. We can offer Yellow Jersey (the most popular Northern sort). **Lb., 15c; 15 lbs.,**

\$1.75; per measured bu., \$3.00. Write for special prices on quantity.

Seed Potatoes

All These Prices Subject to Market Change.



Red River Early Ohio

Red River Early Ohio. The stock of Early Ohio we offer is grown in the Red River Valley of the North. They are from ten days to two weeks earlier than common stock; are pure bred and free from scab, and were raised especially for seed. If you want something earlier than anything else, don't fail to get a few bushels of these choice earliest. **Price: Pk., \$1.00; ½ bu., \$1.25; bu., \$2.50.**

Irish Cobbler Potato. One of the most valuable first early potatoes. Very productive, globular in form, uniform in size, pure white. **Pk., \$1.00; ½ bu., \$1.50; bu., \$2.75.**

Red River Triumph. The Triumph is the earliest of all varieties. The tubers are nearly round, smooth, medium in size, reddish-pink in color. **Price: ½ bu., \$1.50; bu., \$2.75.**

Carman No. 3. This potato is of large and uniform size, yielding immense crops. It is of perfect form. It has but a few eyes, and they are shallow; the skin and flesh are extremely white and its cooking qualities are very fine. It is a remarkably handsome potato, enormously prolific. **Per pk., \$1.00; bu., \$2.50.**



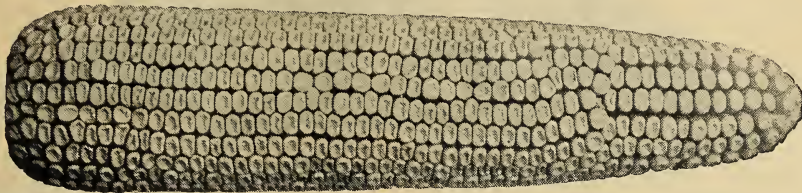
Rural New Yorker

Rural New Yorker No. 2. The standard white market potato. It is very large, usually smooth, oblong, inclining to round and rather flattened. Skin and flesh white. **Price; ½ bu., \$1.25; bu., \$2.50.**

WE RESERVE RIGHT TO FILL ORDERS AT PRICES ON DAY SAME IS RECEIVED.

TIPPED
SELECTED

Seed Corn Department

TESTED AND
GRADED

Our seed corn is grown here in the North, acclimated, selected and tested. We give no guarantee of crop, either expressed or implied, or guarantee of any kind, but if anyone wishes to test our seed corn before planting and is not satisfied with the test, he can return the seed and get his money back.

ALL PRICES SUBJECT TO MARKET CHANGES. Write, phone or call for price on quantity.

Pride of Minnesota

This splendid new early yellow dent corn originated in the central part of Minnesota on the Minnesota River bottoms west of Mankato. It is a well-established cross between the early, short-eared yellow corn known as Minnesota No. 13 and Reid's Yellow Dent. Bred in the climate of Minnesota it makes a variety of great importance to the farmers in the southern Minnesota counties and the northern half of Iowa. It is about a 100-day cropper and retains in size of ear nearly the length of Reid's, slightly more tapering. A great yielder and very much earlier on account of its parent blood of Minnesota No. 13. Length of ears 8 to 10 inches; stalks strong and vigorous. As a seed proposition it is much stronger in germinating properties than the regular Reid's and more certain to come up and grow under severe conditions which often happen in the spring time after corn is planted. Those who have tried this corn in the Iowa corn belt this season are over-enthusiastic on account of its earliness, size of its ear and yielding qualities. Price, on the ear, \$6.00 per bushel, burlap sacks included. Per peck, \$2.00. Sample ears, 25c each, postpaid.

Michael's Early Murdock

Michael's Early Murdock. A beautiful Yellow Dent variety, well adapted on account of its extreme earliness, to Southern Minnesota, South Dakota and the Northwest Corn Belt Section. It was bred up in Wisconsin by careful selection. The ears have well filled out tips, 16 to 20 rows, and very compact on the cob, something like Reid's Yellow Dent, fairly smooth on the outer edge and uniformly a rich yellow. The stalks medium in height, stout and stocky, with ears borne at a regular, uniform distance from the ground. It is a ninety-day variety. Sample on application. Price for selected seed shelled, per bushel, \$3.00; on the ear, in heavy burlap bags, per bu., \$4.00.

The Improved Leaming

The Improved Leaming. The Improved Leaming corn is a medium early yellow variety; large, slightly tapering ears, good grain, and medium sized red cob. It is one of the seven varieties recognized by the Illinois Experiment Station, where it has been first in yield more times than any other variety in "test of varieties." Per bu., shelled, \$2.75.

We have other varieties of field corn and shall be pleased to quote prices on application for any other variety suited to our climate. All prices subject to market changes.

WE RESERVE RIGHT TO FILL ORDERS AT PRICE ON DAY SAME IS RECEIVED.

Silver King

Silver King has almost revolutionized corn growing in Southern Minnesota, South Dakota and Northern Iowa. It will yield more bushels of fine corn than any other Dent variety.

Description. Ears averaging 8 to 9 inches, always filled out clear to the tips, and very uniform in size and type. The corn is pure snow-white in color with good length kernels set compactly in straight rows. The corn is a strong grower, early enough to mature as far north as Oshkosh, Wisconsin, and is especially adapted to resist cold weather. It has a decided double-ear characteristic, one reason for its fine yield records. Per bu., \$3.00

Iowa Silver Mine

Iowa Silver Mine. This is more generally grown throughout the corn belt and more widely and favorably known than any other white corn. It is a sure cropper, middling early, deep-grained, pure white, and a good corn in every way. Per bu., shelled, \$2.75.

Reid's Yellow Dent

Reid's Yellow Dent. This corn is light golden in color. The ears are 9 to 11 inches long; 18 to 24 rows of kernels, each containing 50 to 60 kernels. The cob is completely covered with solid corn. The kernels are moderately rough, rather narrow, medium in thickness, knit very closely together, with no lost space between the rows, and of all corn this is easiest to shuck. Shelled, per bu., \$3.00; on ear, in burlap bag, per bu., \$5.00.

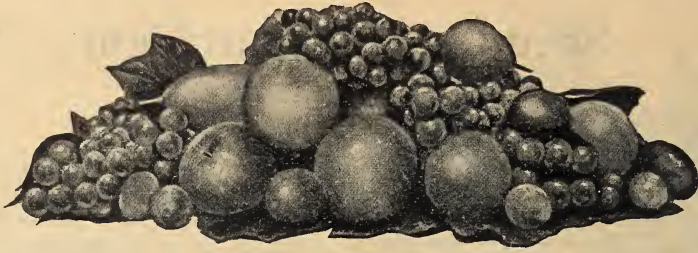
Smut Nose Flint

Smut Nose Flint (8-rowed). A yellow flint corn blazed with red at one end. This is a very early variety, and a great favorite in many localities. Average length of ear, 10 inches. Average height of stalk, about 7 feet. Average distance base of ear from ground, 3 feet. Per bu., \$2.50.

Popcorn

Japanese Dwarf Rice. A very tender and almost hullless popcorn. Ears short and chunky; heavy yielder and is regarded as the coming commercial variety and the right and proper thing to raise now to get the highest market price in popcorns. Price on the ear, 20c per lb. 10 lbs., \$1.50.

White Rice. Most popular grain pointed variety. Price: 12 $\frac{1}{2}$ c per lb. on the ear; 10 lbs., \$1.00.



NURSERY DEPARTMENT

IMPORTANT TO PROSPECTIVE CUSTOMERS OF ROOTS, BULBS, PLANTS, NURSERY STOCK, ETC.

We handle only such kinds and varieties of trees, shrubs and plants as grow here and stand this climate. Stock strong, true to name, dug when wanted and roots carefully packed in wet moss for shipping. All prices subject to market change.

OUR NURSERY DEPARTMENT is in the basement of our concrete seed store building at 316 Pearl Street, well lighted with electricity as a sales room and an ideal place for keeping nursery stock, bulbs and roots just as fresh and nice for two or three weeks as though they were dug out of the ground and where too there can possibly be no effect from weather changes that are often severe, damaging shrubbery after it is dug in the spring time and before it is planted.



THE "TRUE DELICIOUS" APPLE

Delicious originated twenty years ago at Peru, Madison Co., Iowa. The original tree still flourishes, bearing annual crops of beautiful fruit. Fruit is large, with the surface almost covered with a most beautiful brilliant dark red, blending to golden yellow at the blossom end. In quality it is unsurpassed, flavor slightly acid, delightfully fragrant, flesh fine-grained, crisp, juicy, melting and delicious. Good keeper, coming out of storage in March and April in perfect condition.

Summer Apples

Yellow Transparent. One of the earliest apples. Tree is vigorous, good bearer. Two-year-old trees frequently produce fruit. Medium large, smooth transparent. Skin is pale yellow when ripe. Flesh white, and splendid quality. Does well most anywhere. Is perfectly hardy.

Duchess of Oldenburg. From Russia, extremely hardy, medium size, yellow with red stripes. Somewhat sour, fine for cooking. A couple of these trees should be in every orchard. Will not keep long when fully ripe.

PRICES: These prices are for select, hardy trees adapted to this climate. Extra select. 5 to 6 ft., 11-16 and up in caliber. Per Tree, 75c; 10 for \$7.00. These prices apply except otherwise mentioned in above descriptions. SEE NEXT PAGE FOR DWARF APPLES AND CRAB APPLES.

Fall and Winter Apples

Wealthy. A seedling originated in Minnesota; very hardy; an abundant and early bearer; fruit large, dark crimson; flesh crisp sub-acid, white tinged with red; good quality. Tree a fine, upright grower, both in the nursery and orchard. Season, October to December.

McIntosh Red. Canadian (Ontario) origin. Extremely hardy and does well even in the exposed cold regions of Montana and Wyoming and very popular in the northeastern states. It bears a big red apple above medium; a beautiful crimson; flesh snow white; slightly acid and a wonderful keeper. It is growing more popular wherever it is known. 5 to 6 feet trees, \$1.00 each.

Hibernial. Russian origin. Absolutely hardy in this climate. It represents the hardiest of all Russian races of apples. Tree vigorous, wide-spreading and productive. Fruit very large with a dull bronze color over a greenish yellow. Flavor, sub-acid, splendid for cooking. Succeeds in the most exposed locations which renders it on this account a most desirable apple for the central Northwest and is often used as a main stalk for limb grafting to graft on other varieties. 5 to 6 foot trees, \$1.00 each.

Peerless Tree a very fine, straight, upright grower. Originated from seed of Duchess, near Fairbault, Minn. It is quite hardy and productive; fruit of medium size, color red or a yellow-greenish; perfectly hardy here.

Northwestern Greening. Tree of Wisconsin origin and extremely fine-shaped. Fruit large and greenish-yellow; good quality. It is claimed to keep well until June.

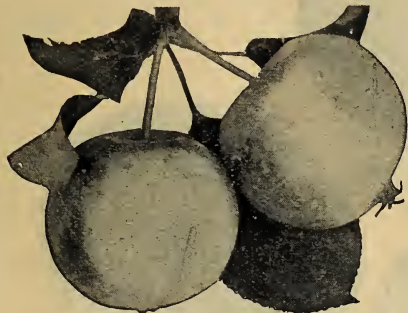
Ben Davis. A tree highly esteemed in the West. Fruit conically shaped, striped and of fair quality; very productive.

Jonathan. A brilliant dark red apple of excellent quality; tender, spicy, rich and juicy. It is one of the most popular varieties for commercial planting. October to March.

Winesap. Old favorite, vigorous grower, and hardy. Fruit bright red, long keeper.

Crab Apples

Whitney No. 20 (Hybrid Crab). Fruit very large for a hybrid; apple striped red with yellow flesh; rather juicy and grained. Healthy and vigorous tree, upright and rather conical in growth.



Florence Crab

The Florence Crab. The most valuable crab ever fruited here. Annual bearers, usually fruiting the second season after planting. Early, large, beautiful, excellent, youngest bearer, most prolific of all. Hardest and most ornamental fruit tree we grow. Exempt from blight.

PRICES: These prices are for selected crab trees, 5 to 6 feet, each, 80c.



Dwarf Apple Trees

These are budded on Doucine (English paradise) stock, which dwarfs the growth of the tree. Dwarf apples bear fruit when two or three years old. They are especially adapted to plant in small yards or town lots, where space is limited, as they can be planted 10x10 feet. They also can be grown in tubs or barrels and will bear in a short time. They are perfectly hardy and can be raised successfully north of here if the ground around the trees is covered with straw or a few shovels full of earth over winter. In this form we offer Yellow Transparent, Duchess, Wealthy, McIntosh Red, and Delicious. We quote 2 yr. old No. 1 stock, 5/8 inch and up caliber, 4 to 5 ft. trees. Per each, \$1.50; per 5 trees, \$7.00; per 10 trees, \$13.00; per 20 trees, \$25.00.

Dwarfed Delicious Fruiting

Plums

A LIST OF THOROUGHLY TESTED AMERICAN VARIETIES
The Plum Tree attains its greatest perfection on our heavy soils, being entirely free from disease. Plums are very hardy and grow vigorously in all sections.

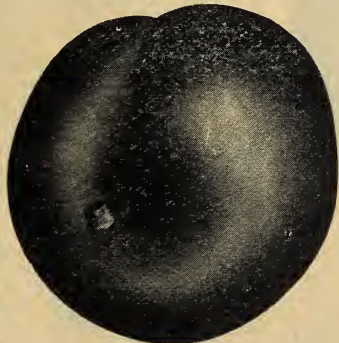
PROF. HANSEN'S HYBRID PLUMS

Hanska. This is a cross between a wild north-western plum and the Prunus Simoni. The flat shape of this plum and its peculiar red color with its heavy blue bloom distinguishes it from all other hardy plums grown in the Northwest. Tree a very strong grower and very hardy. An early and profuse bearer; quality good. Per each, \$1.00.

✓ **Opata.** A cross between the Dak. Sand Cherry and the Japanese Gold plum, a very large hybrid by Burbank. It possesses the sprightly acidity of the Sand Cherry and rich sweetness of the Gold plum, the male parent. Season extremely early. Dark purplish-red fruit. Per each, \$1.00.

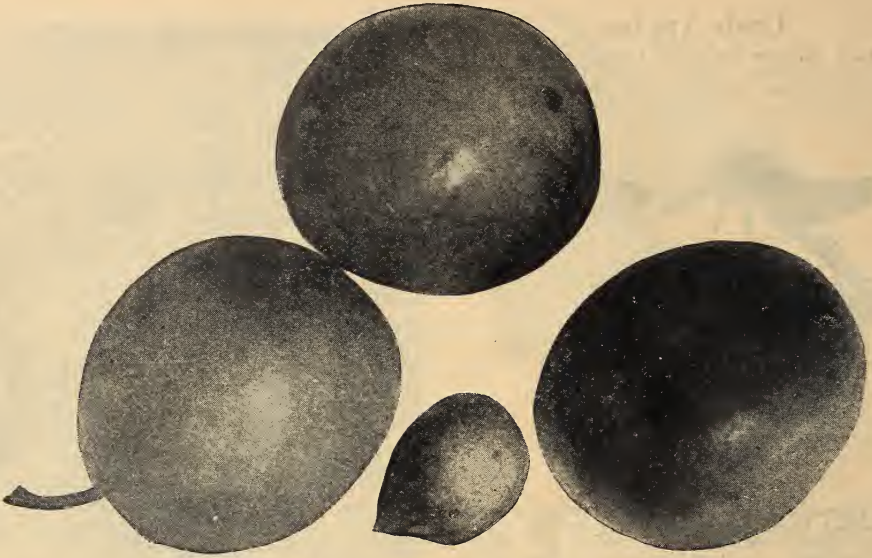
✓ **Waneta Plum.** This is the largest fruiting variety out of ten thousand hybrids of the Hansen Hybrid varieties. Size of fruit, two inches in diameter. The tree is a cross with the Japanese Apple Plum and our native Iowa variety (Prunus Americana), the Terry Plum, which bears the largest fruit of all the native or Chickasaw varieties. Color of the fruit is dark red, flavor delicious; possesses the hardness of the native Chickasaw parent with the fruiting qualities of the famous Japanese variety; an early and profuse bearer. See picture outside back cover. Price: 5 to 6 ft., 2-year-old top growth, \$1.25 each.

✓ **Sapa.** This is a cross between the Western Sand Cherry and a large purple-fleshed Japanese variety, dark purple skin and rich dark purple flesh Plum called Sultan. The fruit has the glossy dark purple skin and rich great attention as a new departure in stone fruits for the prairies of the Northwest. Per each, \$1.10. 5 for \$5.00.



Waneta Plum

dark purple red flesh of its Japanese sire. Has attracted



Native Plums

(Prunus Americana)
Chickasaw Varieties

✓ **Terry Plum.** The largest fruit of any of the Chickasaw or Native plums, fruit 2 inches in diameter. Tree strong, large, vigorous grower and perfectly hardy. Fruit bright, attractive color, very firm. Price: 5 to 6 ft. trees, \$1.00 each.

PRICES: These prices are for selected, hardy

✓ **De Soto.** Tree is extremely hardy. It comes into bearing young and bears so heavily as to retard the growth of the tree. It is an annual bearer. Fruit good size and quality. Color red at full maturity. Ripens in August.

✓ **Miner.** Tree a very strong, vigorous grower. Fruit large, deep red and of good quality. A valuable variety to raise. Fruit ripens late. trees. 5 to 6 feet, per each, \$1.00.

Cherries

The Cherry is the most valuable of all fruit trees for the Northwest; perfectly hardy, grows and thrives on any of our soil. An annual bearer; ornamental as well as valuable..



Early Richmond

✓ **Early Richmond.** An early red, acid cherry, very valuable for cooking. Tree a free grower, hardy, healthy and very productive. It is the leading market variety for this section. Ripens in June.

✓ **Large Montmorency.** Large red, acid cherry; is larger than Early Richmond and about ten days later. A superior sort for home use.

✓ **English Morello.** Trees very hardy and great bearer, the most valuable of the late varieties. Fruit large, round; skin dark red, becoming nearly black when fully ripe; pleasant sub-acid flavor when fully ripe. Season, July and August.

✓ **Wragg.** Originated in Iowa. Large, dark red fruit, dwarfish growth. Very hardy, vigorous growth. Very heavy bearer, fine commercial variety.

✓ **Black Tartarian.** Very large, fruit of purplish-black color, flesh is mild and sweet. Tree is vigorous, upright grower, and immense bearer. A sweet cherry of the Ox-Heart type.



Compass Cherry

✓ **Compass Cherry Plum.** Absolutely hardy everywhere. Originated in Minnesota. A cross between the Sand Cherry, Morello Cherry and the Miner Plum. The tree is a regular and heavy bearer, and produces fruit the next year after setting out. Its early bearing is truly wonderful.

PRICES: Cherry, standard varieties, very select, picked trees, 5 to 6 feet, each \$1.10; 3 for \$3.00.

Buffalo Berries

Buffalo Berry. Silver gray foliage quite like the Russian Olive in appearance. A native of Missouri River country, hardy and most prolific bearer, fruit resembles the currant, a beautiful red color, ripens in July. 2 to 4 feet, 40c each; 5 to 6 feet, 75c each.



Buffalo Berries

Mulberry

Russian Mulberry. Introduced to this country by Russian Menonites and on account of its hardiness makes a beautiful ornamental tree. The fruit much inferior to the native, but is greatly prized by birds, keeping them away from the other garden fruit. For hedge size see page —. Trees, 5 to 6 feet, 50c each.

Pears

Seckel (Sugar Pear). Tree rather slow grower but healthy and hardy and very productive, bearing immense crops of fruit. Small size but of the highest flavor and sweet as honey. The sweetest pear known and is a favorite with everybody who eats it. Should be sprayed once or twice during the summer. We furnish in both Standard and Dwarf. Standard stock, 5 to 6 ft., \$1.25 each. Dwarf stock, 4 to 5 ft., \$1.00 each.

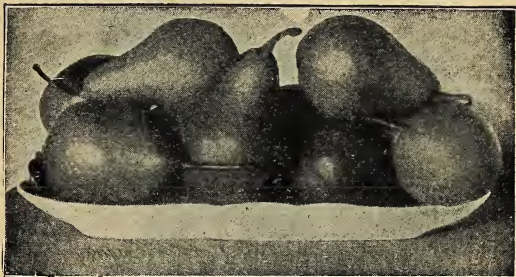
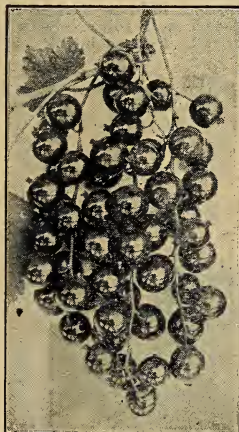


Plate Seckel Pears

Usuri (South Dakota Pear). *Pyrus Ussurensis.* Originated in South Dakota by Prof. Hansen of the State Agricultural College and is a hybrid with a Russian variety obtained from the forests of the northeastern section of Siberia. They have been practically immune from blight; of fine vigorous upright habit and very hardy. Standard stock, 4 to 5 ft., \$1.50 each.

Currants



Hardy, easily cultivated, standing neglect well, indispensable for table use, jellies, etc. Set four feet apart in rich ground. If the currant worm appears, dust with hellebore.

Perfection. This grand new fruit is by cross with Fay's Prolific on the White Grape Currant. The color is a bright red; size as large or larger than Fay, the clusters averaging longer. 2 yr. old stock, 50c each; \$5.00 per dozen.

Fay's Prolific. It has given general satisfaction; fruit very large, bright red, and of excellent flavor, less acid than Cherry. It has a long stem, which admits rapid picking, and is enormously productive.

White Grape Currant. Berries large, very productive. Much sweeter and better quality than the red varieties, excellent for table use.

Black Champion. The leading well-tested black currant. Very productive. Excellent quality, strong grower.

Prices above: For 2-year, No. 1, standard varieties, 40c each; \$1.50 per dozen.

Gooseberries



Houghton Gooseberry

Should be planted in a good, rich soil and well manured once a year. Even more rugged and easier grown than Currants. Do not let bushes grow too thick; the fruit will be larger and more plentiful.

Downing. Large, light green; soft, tender, good flavor; extremely vigorous, hardy and prolific. Per each, 40c; doz., \$4.25.

Houghton. Most productive. Best payer of all. Yield easily 700 bushels per acre. Fruit excellent quality. 2-year, each, 35c; per doz., \$1.00.

Blackberries

✓ **Snyder.** One of the best. Berries juicy and sweet. Large and productive. Per doz., 75c.

✓ **Ancient Briton.** Another hardy variety. Ripens after the Snyder. Strong roots, 10c each; 75c per doz.; per 100, \$6.00.

✓ **Bartel's Dewberry** is harder than any blackberry in any dry or cold climate—a grand delicious fruit. Each, 10c; doz., \$1.00; per 100, \$8.00.



Snyder Blackberries

Raspberries

Everbearing Black Cap Raspberry

✓ **King of Cliff Black Cap Raspberry.** Actually bears continuously from June 1st until killed by frost in fall. The canes are literally loaded with fruit in all stages from bloom to ripe fruit. Has no equal as an everbearing variety. Price: 10c each; doz., \$1.00.

✓ **Cumberland.** Largest of all the Black Caps; healthy, vigorous grower, stout stalky, well branched canes that produce immense crops. Per doz., 75c; per 100, \$5.00.

✓ **St. Regis Everbearing Red Raspberry.** Raspberries four months! That is what you get when you plant the St. Regis, the new everbearing variety. A brilliant crimson color; the first raspberry to give ripe fruit and bears without intermission until late October. 10c each; 75c per doz.

Herbert. In hardiness it easily takes first place, standing a lower temperature than any other kind. The cane is very strong and vigorous, slightly prickly, leaves large and healthy. Fruit bright red, somewhat oblong, larger than Cuthbert, flavor very sweet and juicy. Season 5 to 6 days before Cuthbert. Per each, 10c; \$1.00 per doz.

We handle other varieties of both Black Caps and Red Raspberries, standard sorts, which we quote at 75c per dozen; \$5.00 per hundred.



St. Regis Red Raspberries



King of Cliff Raspberries

Grape Vines

One of the best, healthiest and longest cultivated fruits we have. Easy to grow in most any kind of soil that is not too wet, even a stony hill brings good results. Yet they are great feeders and pays to manure them well when planting, rich, well-rotted manure mixed in the soil.



Concord Grapes

Concord. The most popular grape in America. Bunch large shouldered, compact; berries large, covered with a rich dark bloom. 2-year roots, 35c; \$4.00 per doz.

Niagara. White. This is the most valuable of all white grapes. Its clusters are large and handsome, compactly filled with large berries. When fully ripe, they are a pale yellow with a thin white bloom. Price: 2-year-old roots, 40c each; 2 for 75c.

Campbell's Early. Black. A new variety of strong, vigorous growth, very hardy, foliage perfectly healthy, very early and abundant bearer. The berries are large, nearly round; dark blue. Price: No. 1 2-year-old star stock, each, 50c; doz., \$5.00.

Janesville. Has long been regarded as the hardest of cultivated grapes. Originated in Wisconsin. Berry medium, skin thick; flesh pulpy. Very strong rank grower and very productive. A good wine grape. Price: 2-year-old star stock, 50c each; \$5.00 per doz.

Clinton. Black. Bunches and berries small and compact. Berries juicy and quite acid. A good grape for dark red wine. Vine vigorous grower, productive and hardy. 2-year-old roots, 50c each; \$5.00 per doz.

Moore's Early. Black with heavy blue bloom. Bunches of medium size, rarely shouldered. Berries large, round, of excellent quality; desirable for market on account of its earliness. Price: 2-year-old star stock, 50c each; \$5.00 per doz.

Brighton. Dark red. Bunches and berries large, fine, rich flavored, juicy and sweet, with very few seeds. 2-year roots, 50c each.

Bachus Grape

Bachus. A new wine grape of powerful growth which originated in northern New York. Absolutely hardy and as strong a viner as the Beta with somewhat better quality fruit but especially a wine grape and one of the easiest grapes to start to grow that we have ever planted. It seems as applicable as a Cottonwood in any soil it is planted in about starting to grow and under most adverse conditions. Per each, 60c; 3 for \$1.60; per doz., \$6.00.

Beta Grape

This is the greatest of all the arbor grapes, a cross with the cultivated black variety and the common wild grape. Vines in great profusion. Unpruned, it runs in every direction, as one man says: "Over the woodshed and down the alley fence in its mad flight to cover everything unsightly in sight." Fruit is medium in size; black in color, rather acid in taste, a splendid wine maker. Bears in great abundance, always bearing every season and is absolutely as hardy as its wild parent. Needs no protection. Its beautiful dark green foliage, with other qualities, fits it excelsior, the greatest arbor grape. Price: 2-year-old No. 1, star stock, 50c each; \$5.00 per doz. See picture outside back cover.



Beta Grape

Strawberry Plants



The plants marked (P) are Pistillate, and those marked (B) are bi-sexual.

Plants should be planted as soon as possible after digging.

Spring-time is the safest and best season to plant though under favorable conditions can be planted in

August or September.

Strawberries will succeed in any soil that is thoroughly prepared to a good depth. For field cultivation set in rows 3 to 3½ feet apart, 15 to 18 inches each way. To produce fine, large fruit, keep in hills, pinching runners off as soon as they appear. All are put up in bunches, 25 plants to bunches.

Warfield (P). Early. One of the most popular varieties of strawberries grown; large, top shaped berry, with a glossy red exterior that does not fade or become dull after picking; exceedingly juicy, just tart enough to make it delicious. Plant with two rows of Warfields, one of Dunlaps.

Senator Dunlap (B). Perfect blossom. Medium to late. One of the most popular varieties known to the strawberry world. Dunlap is a large, handsome fruit, rich dark red, with a glossy finish, shaded to deep scarlet on the under side, and prominent, bright yellow seeds that look like gold bronze. The foliage is tall, bright green, upright with a long leaf. Plant with Warfield.

Early Elizabeth Strawberry. Ten days earlier than the Warfield or Dunlap. Very hardy and prolific; excellent quality. As a new, early variety of berry it surpasses anything that has ever been produced. Per doz., 25c; \$1.50 per 100.

Prices of Strawberry Plants: 25 for 50c; per hundred, \$1.50; 1,000 for \$10.00.

Everbearing Strawberries

The Everbearing Strawberries Have Made Good

There can be no possible doubt any longer about the Everbearing strawberries. They have made good and then some. They have proved the past four seasons that they will bear all summer, earlier than the others and until the ground freezes in the fall. Ripe berries, green berries and blossoms all the time. And the best of berries, big and red, sweet and juicy. The plant is medium sized, closely resembling Dun-

lap; foliage strong and healthy, has a good root system, makes almost as many plants as Dunlap. Spring set plants fruit the same year set out.

There are several varieties, the Superb, the Americus, but the Progressive is the best and only one kind we handle. Progressive—color deep red inside and out, quite firm, rich and sweet. Price: per doz., 50c; per 100, \$2.50; 500 for \$10.00.

ORNAMENTAL FLOWERING SHRUBS

Nothing adds more to the beauty of a place than to have the sides and background well filled with groups of shrubbery. Whether you have a lawn of many acres, or an humble dooryard, we recommend this class of plants as indispensable to the real beauty of your home.

Almond, Double Flowering Pink. One of the earliest and finest of shrubs. Loaded down with double pink flowers which attract attention. 2 to 3 feet, 75c each.

Almond, Double Flowering White. Like above but with snowy white flowers. 2 to 3 feet, 75c each.

Dogwood (Quarnus Siberica). A very hardy, small handsome bush which has a dark red bark, making an effective and showy winter display among other shrubs with handsome white flowers in early summer which are distinctly dainty. Per each, 3 to 4 ft., 50c. Large 5-yr.-old clumps 4 to 6 ft., \$2.50 each.

High Bush Cranberry. This plant has a handsome broad foliage of a shiny dark green color, turning to a rich coppery tint as the season advances. Flowers are white and conspicuous. The berries are a brilliant scarlet and remain on nearly all winter. Per each, 3 to 4 ft., 75c. Large clumps, 5 to 6 ft., 5-yr.-old, \$2.50 each.

Crab (Bechtel's Flowering). Makes a medium sized tree; perfectly hardy, succeeds well in all soils. When in bloom appears to be covered with delicate pink, perfectly double small roses of delicious fragrance. Price: 3 to 4 ft., each \$1.00.

Forsythia, Suspensa (Golden Bell). These splendid old shrubs light up the lawn with masses of yellow, very early in spring before the leaves appear. 2 to 3 ft., 50c each.

Flowering Currants. Hardy, bushy shrubs growing 6 feet high; prized on account of their early spring flowers; bright berries and bark; and pretty, richly coloring foliage. Price: 2 to 3 ft., 50c each.

Honeysuckle (Red Tartarian, bush form). Grows to a height of 8 feet with upright, somewhat spreading branches and bright green foliage. The flowers are borne freely in May and June, are of bright pink color. 3 to 4 feet, select, each, 50c; large clump, 5-yr.-old, \$2.00.



Hydrangea Arborescens

Hydrangea Arborescens (Everblooming). Sometimes called Everblooming Snowball. This new American variety begins blooming in June and continues all season. Very easy of culture and hardy. Blooms best if flowers are clipped before ripening. 2 to 3 feet, each, 75c; 10 for \$6.50.

Hydrangea (Paniculata Grandiflora). Large flowering Hydrangea, hardy. A fine shrub, growing from 4 to 6 feet high. Flowers white, in large pyramidal panicles, produced in August and September. Each, 2 to 3 feet, 75c; tree form, 3 to 4 feet, \$1.50 each.

Prunus Triloba (Double Flowering Plum). A very desirable hardy shrub; blooms in May. Flowers double delicate pink which are thickly set on long slender branches. Per each, 3 to 4 ft., 75c.

Rhodotyphus (Kerrioides). A distinct decorative shrub. Foliage very large and handsome; branches clustered with delicate white pendulous flowers in spring followed with black berries that last through the winter. Per each, 2 ft. size, 35c. Large clumps, 5 to 6 years old, 3 ft., \$2.00 each.

Weigelia (Eva Rathke). The finest Weigelia in cultivation; flowering continuously throughout the summer and autumn; of rich ruby carmine. 50c each.

Viburnum, Lantana (Wayfaring Tree). It has a peculiar soft foliage making a wonderfully attractive specimen and bears large white flower clusters blooming in May and followed by attractive red fruit. Per each, 3 to 4 ft., 75c. Large 5-yr.-old clumps, \$2.00 each.

Spiraea Van Houttei (Bridal Wreath). We can say positively this shrub is the most attractive lawn shrub known. Has white flowers, astonishingly profuse in blooming; very fine for cemeteries. Price: 3 to 4 ft., large 5-yr. clumps, \$2.00.

Spiraea Aurea. A beautiful variety with golden foliage and double white flowers in June. Per each, 3 to 4 ft., 75c; large 5-yr.-old clumps, \$2.50 each.

Spiraea (Anthony Waterer). The grand ornamental hedge shrub; grows about 2½ feet high; dwarf, compact bush; deep crimson flowers from June until frost. Price: 18 to 24 inches, each, 60c; large 5-yr. clumps, \$1.25.

Spiraea Billardi. Rich pink colored flowers in large spikes; blooms nearly all summer. Very pretty and showy and splendid for cut flowers. Grows 6 feet high. Price: 2 to 3 ft., 50c each.

Syringa (Coronarius) (Mock Orange). Is one of the strongest-growing varieties with very fragrant flowers. Price: 3 to 4 ft., 50c each; large 5-yr. clumps, \$2.50 each.

Lilacs

Do you love the lilac? If so we have something rare and beautiful.

Mme. Casmir Perier. The finest double white lilac yet introduced. The individual flowers as well as the truss, are of immense size, deliciously scented; very fragrant. Price: 2 to 3 feet, 75c each; tree form 4 to 5 feet, \$1.50.

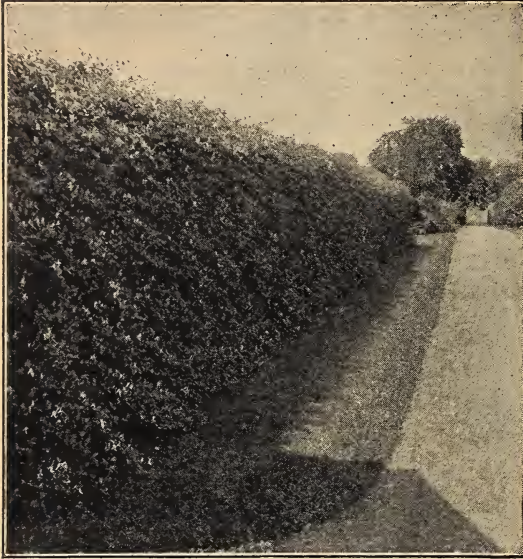
Michael Buchner. Dwarf variety. Very double flower, beautiful, pale lavender lilac. Very effective among other taller shrubs as border feature. Each, 2 to 3 feet, 75c.

Souvenir de Ludwig Spaeth. A choice variety with long panicles of single flowers; dark, purplish blue. Price: 2 to 3 ft., each 75c., tree form, 3 to 4 ft., \$1.50.

Lilac, Common Purple or White. The old fashioned lilac, which grows into a very high bush, with bright green, heart-shaped leaves. In May covered with light purple flowers. Each, 3 to 4 ft., 75c; tree form, \$1.00.

Persian Lilac, Purple or White. Blooms a good deal more than the common and has smaller leaves. Does not sprout as much from the roots. 3 to 4 ft., 75c; tree form, \$1.00. Large 5-yr. clumps, \$2.00.

HEDGE SHRUBS



Honeysuckle Hedge

Cydonia Japonica. (Japan Quince.) Very early in spring this fine old shrub is completely covered with dazzling scarlet flowers, followed by small, quince shaped fruits which are quite fragrant. Growth bushy and dense, with protecting thorns. Price: 12 to 18 inch size, per 100, \$15.00.

Barberry Thungerbi. Of dwarf graceful habit; foliage small, changing to beautiful red early in fall. 18 to 24 inch, per 100, \$25.00; Large 5 yr. old clump, \$1.00 each.

Honeysuckle, Bush Form (Red Tartarian.) Grows to a height of 8 feet with upright, somewhat spreading branches and bright green foliage. Makes one of the most beautiful hedges. 18 to 24 inches, per 100, \$20.00.

Spirea Van Houttei (Bridal Wreath). We can say positively this shrub is the most attractive lawn shrub or hedge known. 18 to 24 inch, per 100, \$12.00.

Privet, Amoor River. Is of vigorous growth, has glossy dark green foliage, keeping its color. Price: 18 to 24 inch, 2 to 4 cones, per 100, \$12.00.

Polish Privet. 18 to 24, same price.

Russian Olive. Makes a medium sized hedge; very hardy and beautiful. Foliage growth is silvery white. The most popular hedge plant of the North. Price: 18 to 24 inch, per 100, \$7.00.

Lilac Hedge. Common purple or white flowered Lilac makes a splendid hedge and by pruning can be made very effective. Price: 18 to 24-inch size, \$16.00 per 100.

CLIMBING VINES

Honeysuckle Hall's Japan. The finest climber, trumpet-shaped flowers, sweet scented; extremely hardy. 35c each.

Honeysuckle, Scarlet Trumpet. Blossoms freely entire season; bright red flowers. 50c each.

Ampelopsis (Englemanni.)

This is one that clings firmly to the smoothest surface, covering it closely with over-lapping foliage. 2-year, 35c; 3 for \$1.00.



Honeysuckle in Bloom

Ampelopsis. (Veitchii). Boston Ivy. It is a splendid plant for covering any object, as it clings perfectly to the smoothest surfaces. Price: 50c each.

Clematis—New, Sweet-Scented Paniculata. Flowers pure white in large clusters; bright green foliage and fragrant flowers. Price: 2-year roots, 50c each.

Clematis Jackmanii. A beautiful, hardy climbing vine bearing great wreaths and clusters of splendid purple flowers. Price: roots, 75c each.

Trumpet Flower. A splendid, hardy, climbing plant, with large trumpet-shaped scarlet flowers in August. Price: Each, 40c.

Dutchman's Pipe. Siphon. A native species of climbing habit and rapid growth, with magnificent light green foliage, curious, pipe-shaped, yellowish brown flowers. A splendid variety for archways or verandas. Price: \$1.00 each.

Wisteria. Purple flowering, rapid grower. When well established in the ground will attain height of 15 feet in one season. Flowers pale blue borne in long pendulous clusters, blooming in May and June. Price: 75c each, 2 for \$1.25.

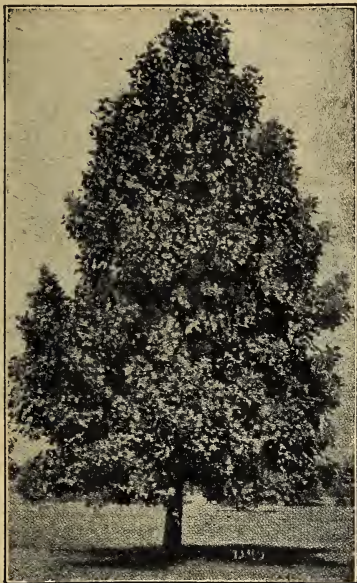
Wild Grape Vine. Besides being fruit-bearing a great viner and very hardy. Cultivated vines. Price: 35c each.

HEDGES—Continued

Buckthorn (Rhamnus Catharticus). A dense twiggy bush, with dark foliage, relieved by masses of attractive white flowers in June and July. Most ornamental of all hedge plants. Makes a good prunable hedge. Price: 18 to 24-inch size, \$15.00 per 100; 12 to 18-inch, \$10.00 per 100.

Native Shade Trees

Below we give a list of shade trees that are hardy and can endure the dry weather of the West and the frigid winters of the Northwest.



Carolina Poplar

Special price on any and all varieties shade trees in quantity.

Poplar, Carolina. A very rapid-growing tree resembling the Cottonwood, but has a larger leaf, thicker and more spreading top. Price: 8 to 10-foot, 75c each; 1¼ to 1½-inch caliper, \$1.50; 1½ to 2-inch caliper, \$2.00.

Bolleana Poplar. A tall columnar tree of picturesque and very formal aspect. A very rapid growing and hardy tree, long lived. Price 6 to 8-ft., \$1.50 each;

Volga Poplar. A Russian variety, hardy and vigorous growers. A tall, columnar type, like the Lombardy, but more durable. 8 to 10 ft., \$1.00 each.

Poplar, Silver Leaved. Rapid growth and wide-spreading habit of form. Leaves glossy silvery green above and white underneath. Very hardy and a splendid shade tree that will grow anywhere. Price: 8 to 10 ft., \$1.25 each.

Maple, Soft or White. A native tree. A very desirable tree if trimmed to keep down suckers and avoid forks. Price: 8 to 10 ft., \$1.00 each; 1½ to 2-inch Caliper, \$2.00 each.

Norway Maple. A large and handsome tree of compact growth; deep green foliage affording a dense and refreshing shade. Price: 8 to 10 ft., size \$2.00 each.



The Stately American Elm

Elm, Native White American. A native of South Dakota and the entire Northwest. One of the best trees for street use. 8 to 10 ft., \$1.00 each; 1¼ to 1½-inch Caliper, \$1.50 each; 1½ to 2-inch Caliper, \$2.50 each.

Sycamore. A lofty, wide-spreading tree, heart-shaped leaves. Makes a fine street tree. 8 to 10 ft., \$1.25 each.

Hackberry. A very desirable street tree of stately appearance and graceful foliage. Price: 8 to 10 ft., \$1.50 each.

Mountain Ash (European). A fine hardy tree; head dense and regular. Price: 6 to 8 ft., \$1.00 each.

Birch. (White Bark). A graceful tree with silvery white bark and slender branches. 6 to 8 ft., \$1.50 each.

Horse Chestnut. (Castanea). White flowering. A fine large tree of compact outline, dense dark green foliage. In June covered with white flowers. 6 to 8 ft., \$2.00 each.

Sugar Maple. (Acer Saccharum). A popular American tree of pyramidal form. The foliage is large and handsome and of rich, pleasing green. 6 to 8 ft., \$1.50 each.

Black Walnut. This is a common and stately forest tree. Has an open and spreading form and of rapid growth. 8 to 10 ft., \$1.50 each.

Linden. A handsome lawn or shade tree. The blossom is very fragrant and sweet. Price: 6 to 8 ft., \$1.50 each; 8 to 10 ft., \$2.00 each.

Weeping Ornamental and Deciduous Trees

Birch, Cut-Leaf Weeping. The most erect and graceful tree. It has silvery bark and finely cut foliage. Price 6 to 8 ft., \$2.00 each; 8 to 10 ft., \$2.50 each.

Mulberry, Tea's Weeping. The most graceful and hardy weeping tree in existence. Price: 2-year heads, \$3.00 each.

Babylonian Weeping Willow. Napoleon's Willow (Salix). A well-known tree of pendulous or weeping habit. Price: 5 to 6 ft., 75c each.

Weeping Elm, Camperdown. Its vigorous branches, which have a uniform habit, overlap so regularly that a compact, roof-like head is formed. Leaves are large and rich, glossy dark green. Price: 2-year heads, \$3.00.

Mountain Ash (European Weeping). Grafted on tall stems this tree spreads into a pretty green tent of shade, making it a distinct and beautiful ornament to the lawn. Price: 2-year heads, \$2.50 each.

ROSES

Our Rose Department Is a Dream

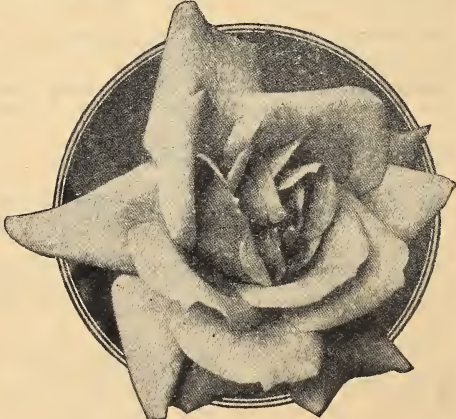
We handle nothing but the very hardiest varieties and the very finest bloomers. Many varieties are too tender for the Northwest. Hothouse roses are worthless for outdoor planting—ours are field grown, are more easily transplanted, and hardier. Before planting roses cut them back severely. Our stocks of roses are all 2-year No. 1 powerful roots, and some kinds, 3-year Star Clumps.

Mildew. Use Bordeaux Mixture as long as the disease continues. For Slugs, use Hellebore or Arsenic till destroyed. **Lice.** Use Kerosene Emulsion, apply until destroyed.



American Beauty

American Beauty. The world-famous rose. Rich, rosy-crimson, exquisitely shaded. A universal favorite. Not hardy. Price: 2-year No. 1, 75c each.



Paul Neyron

(World's Most Glorious Pink)

Paul Neyron. The largest rose in cultivation, sometimes called the Peony Rose. Color bright, fresh, cerise pink. Flowers are very double and full, delightfully fragrant. The plant makes a strong, healthy growth and has clear, glossy foliage. Blooms almost without intermission from June until late October. Per each, 2-year No. 1, 75c.

Gruss an Teplitz. One of the brightest colored roses grown. When first opened, it is a dark, rich crimson, changing to a bright scarlet. Blooms continually; flowers good size and delightfully fragrant. 2-year No. 1, 75c each.

Hardy Perpetual Roses

These are hybrids or crosses between June and Monthly Roses, partaking of the hardness of one parent and the perpetual blooming habit of the other.

Daily Mail (Pernetiana). A rose from the Austrian briar family of Roses. Winner of the Golden Cup prize. Flowers medium in size, some double of a superb coral red color shaded with yellow and bright rosy scarlet, glistening like sunshine on reddish coppery metal. 2 yr. No. 1 stock, \$1.00 each.

General Jacqueminot. This might be called the rose for the million, for it is still a universal favorite. Bright crimson scarlet, exceedingly rich and velvety. Price: 2-year No. 1, 75c each.



Druschki, White American Beauty

Frau Karl Druschki, or White American Beauty (Lambert, 1900). This grand rose has become renowned as the very highest type of its class and the best snow-white rose ever introduced. It is an extraordinarily strong grower, and has the vigor and hardness of an oak. 2-year No. 1, \$1.00 each.

ROSES (Continued)

Ramblers and Climbing Roses

Climbing American Beauty. This variety retains the deep pink to crimson color and the same delightful fragrance of the bush American Beauty. 2-year, 60c each.

Crimson Rambler. (C. P.) This grand old climber hardly needs description. The magnificent trusses of bright crimson flowers are freely produced and admired by everyone. Very hardy and a strong grower. 2-year-old, 60c each; 3 for \$1.50.

Dorothy Perkins. The most popular climbing rose of today and harder than the Crimson Rambler. Most beautiful shell pink and holds a long time without fading. 2-year, 50c each, 3 for \$1.25.

Excelsa (New). (Red Dorothy). The color is an intense, clear crimson, with tips of the petals tinged with scarlet. Grows 10 feet in a season. Flowers are large and double and almost every eye produces a cluster of bright blossoms. 2-year No. 1 stock, 75c each.

White Dorothy. A beautiful white flowered cluster Rose, as free and expressive as its pink rival, the Dorothy Perkins. The vines are a sheet of white during their blooming season. 2-year No. 1 stock, 50c each.

American Pillar. A single-flowering variety of great beauty which appeals to everyone. The flowers are of large size, 3 to 4 inches across, of a lovely shade of pink, with a clear white eye and cluster of yellow stamens. 3-year Star stock, \$1.00 each.

Gardenia. (Hardy Marechal Neil). The finest hardy yellow climbing rose yet produced. Deep, rich golden yellow; flowers borne in great profusion on strong, vigorous bushes as hardy as oaks. 3-year Star stock, hardy field grown, each, \$1.00, 3 for \$2.50.

Rugosa Roses

Rugosa Roses (Ramanas). The hardiest roses in existence; ideal for the Northwest. These lovely roses form sturdy bushes 3 to 5 feet in height, cov- glossy green foliage and gered with handsome clusters of beautiful fragrant flowers. Rugosa, single red; Rugosa, single white. 2-year No. 1 field grown, 60c each; 3 for \$1.50; 1 doz. \$5.00.

Conrad F. Meyer (Hybrid Rugosa.) Flowers large, perfectly double, cup-shaped. Color deep, bright, vivid, intense pink, with a penetrating fragrance. 2-year No. 1, each, 80c; 3 for \$2.25.

Sir Thomas Lipton. (Hybrid Rugosa.) The best pure white Rugosa Rose. Strong and vigorous; grows four feet high. Flowers perfectly double, pure snow white, with a penetrating fragrance. Price: 2-year No. 1, each 75c.



Baby Roses

Dwarf Polyantha Roses

Crimson Baby Rambler. The flowers are borne in clusters of 30 to 40, and the foliage is dark, glossy and profuse.

Baby Echo—Pink Baby Rambler.

Catherine—White Baby Rambler.

Either variety, 85c each; 3 for \$2.25.

Cemetery Roses

Memorial White Rose, Mandy's Triumph. (Wichuraina). This rose makes a beautiful and enduring covering for graves and plots in cemeteries. A very hardy Memorial Rose. It creeps along the ground as closely as an Ivy. Flowers are produced in lavish profusion. They are single, pure white, with a golden-yellow disc, five to six inches in circumference. It is also immensely valuable as a climbing Rose, covering arches, fences, etc. 2-year No. 1, each, 60c; 3 for \$1.35.



(Sir Thomas Lipton, double flowering Rugosa)

POTTED ROSES

These are hardy varieties suited for outdoor culture, potted in four inch pots and started indoors in January and ready to be put out in full foliage as soon as the weather permits planting outdoors, about the 1st to the 10th of May, when they can be put in the ground and will then soon come to blooming when the hybrid perpetuals or perpetual bloomers will continue to bloom all throughout the summer and fall. We quote as follows, grown in 4-inch pots in full foliage, already budding:—

	Each	3 For
American Beauty, perpetual bloomer, Red flower	60c	\$1.75
Paul Neyron, perpetual bloomer, Pink flower	50c	\$1.40
Gruss an Teplitz, perpetual bloomer, Vivid Red Flower	50c	\$1.40
General Jacqueminot, perpetual bloomer, Dark Red flower	50c	\$1.40
Sir Thomas Lipton, Double Rugosa, White Flower	50c	\$1.40
Gardenia, Climbing Rose, yellow flowering	50c	\$1.40
Mandy's Triumph, Cemetery Rose, White Flower	50c	\$1.40



An Evergreen Planting Which Appeals to Our Love of the Home Beautiful

Hardy Evergreens

Evergreens give a cheerful appearance to a home. If properly handled, taken up with ball of earth are as sure to live and grow as deciduous trees. We list only such varieties as are found to do the best here in this soil and climate. See special prices in large quantities seedlings and transplanted stock given below.

ORNAMENTAL STOCK Specimen Trees

Red Cedar (Juniper Virginiana). The well known American Cedar, varying some in habit and color of foliage. Very attractive in winter when the golden bronze of the young growth contrasts with the dark green foliage of the older growth. 2 to 3 ft., B & B., \$2.00 each. Pyramidalis form, 2 to 3 ft., \$3.00 each.

Arbor Vitae, Pyramidalis. This exceedingly beautiful Arbor Vitae is the most compact and erect of the entire species, being in form almost a counterpart of the Irish Juniper. Foliage a deep green, retaining color remarkably well through the entire season and perfectly hardy. Specimen trees, 2 to 3 ft., B & B., \$3.00 each; 3 to 4 ft., \$4.00.

Arbor Vitae, Globoso. A new variety that is very handsome. In shape it is absolutely round, very dense in growth and does not require shearing. It does not grow over 4 or 5 feet tall; foliage is deep, dark green. Each tree dug with ball of earth and roots burlapped. Specimen trees, 1 to 1½ ft., B & B., \$2.50 each; 2 to 3 ft., \$4.00 each.

Mugho Pine. (Dwarf). Very distinct, leaves short, stiff, little twisted and thickly distributed over the branches; does not grow tall but spreads over the branches; does not grow tall but spreads form; very dense. Per each, diameter measure 1½ feet, B & B., \$2.00 each; 2 to 3 ft., \$3.50.

Hemlock Spruce. A weeping evergreen. A beautiful and graceful native tree with drooping branches, and dark delicate foliage of green. It makes a fine lawn tree or ornamental hedge. Price: 2 to 3 ft., B & B., \$3.00; 3 to 4 ft., \$5.00.

Black Hills Spruce (Picea Alba). This has grown in the Black Hills for many generations. It is admirably equipped for the Western prairies, easily transplanted and altogether it is very desirable for the general planter. Specimen trees, ball dirt burlapped, 2 to 3 ft., \$1.75; 2 for \$3.00

Norway Spruce. A very beautiful evergreen of large and lofty appearances. It is well adapted for windbreak purposes and will stand pruning well when planted for hedge. Specimen trees, ball and burlapped, 2 to 3 ft., \$2.50 each.

Blue Spruce (Koster Grafted). Other trees there are of almost every imaginable color and form, but here is truly the culmination of Nature's highest effort to produce the beautiful. Specimen trees, 1½ to 2 ft. with ball earth burlapped, \$5.00 each; 2 to 3 ft., \$7.00 each.

Colorado Blue Spruce (Picea Pungens). It is extremely hardy and endures well the sun and drying winds. The needle is very sharp pointed and varies in color from a delightful green to a deep blue. Specimen trees, select blue, 2 to 3 ft., each, \$5.00; per pair, matched, \$9.00.

Pines for Shelterbelts and Groves

White Pine. The White Pine is the most valuable shelter-belt Evergreen known. It is one of the easiest transplanted of the Evergreens, a rapid grower, long lived and does well everywhere. Makes perfect windbreaks, shelter break or screen. Price: 2 to 3 ft., B & B., \$1.50 each.

Austrian Pine (Pinus Austrica). A stocky, rapid grower. Needles long, stiff and dark green. Rather handsome and fine formed. A much better and more lasting tree than the Scotch Pine. Price: 2 to 3 ft., B & B., \$1.50 each.

Scotch Pine. Native of Europe, a fine robust, rapid growing Evergreen. Foliage medium length needles with stout, erect shoots and silvery green foliage. 2 to 3 ft., B & B., \$1.50 each; Mugho form, 2½ ft., B & B., \$3.00 each.

Jack Pine (Pinus Banksiana). An unusually rapid grower, making two or three growths or joints each year, where other pines make but one. A very valuable tree in sandy, poor soils where nothing else will succeed. Price: 2 to 3 ft., B & B., \$2.00 each.

Evergreens Continued Next Page.

Special—Evergreen Seedlings

	Seedlings	Transpl'd Stock	
	4 to 6 in. Per 100	1½ to 2 ft. Per 10	Per 100
Jack Pine	\$2.50	\$2.50	\$18.00
Austrian Pine	5.00	5.00	35.00
White Pine	3.00	3.50	25.00
Scotch Pine	3.00	5.00	18.00
Norway Spruce	2.53	5.00	30.00
Black Hills Spruce	8.00
Red Cedar	4.00	7.50
Arbor Vitae	3.00	3.00

Forest Tree Seedlings

	18 to 24 in.	2 to 3 ft.	Prices on Application
	Per 1,000	Per 100	
Ash	\$1.25	2.50	Prices on Application
Box Elder	1.50	3.00	
Elm	2.50	3.00	
Maple	1.25	3.00	
Cottonwood	1.00	2.50	
Willow	1.00	2.50	
Russian Mulberry	3.00	4.00	
Black Walnut	5.00	6.00	
Catalpa	2.00	2.50	

NOTICE—All prices subject to conditions and market changes. When short one size we reserve the right to change to next and fill according price that size.

Insecticides and Fungicides

KEYS DUSTER GUN



This fills a long-felt want in the way of applying a dust insecticide. No muss, no fuss, no water. **Price: \$3.00 each.**

The control of insects and fungi is imperative in every garden. Plants must be protected from their enemies, if they are to produce most luxuriantly in flower and fruit. There are three kinds of these enemies—fungous diseases or blights, insects which eat the foliage, and insects which suck the sap of the plants.

Dry Lime Sulphur. Best remedy for San Jose Scale and bark lice for use early in the season before the foliage puts out on fruit trees and berry bushes; mix one part to ten parts water. Also one of the best summer sprays as an excellent fungicide. When used in summer dilute with twenty to thirty parts water. **Prices lb. pkg., 50c each.**

Arsenate of Lead. Dried powder Arsenate of Lead will destroy chewing insects such as the Coddling Moth, Plum Curculio, Canker Worm, Tussock Moth, Gypsy and Brown Tail Moths, and similar insects that feed on the foliage of fruit trees, shade trees and ornamental shrubbery. It readily mixes in water and stays in suspension almost indefinitely and insures an even distribution of the poison. **Price: 1 lb. pkg., 75c each.**

Hammond Slugshot. Guaranteed to destroy potato bugs feeding on potatoes, tomatoes, eggplant, also currant worms, cabbage lice and cabbage worms. **1 lb package 25c; 5 lbs. \$1.00.**

Paris Green. Our Paris Green is absolutely pure and meets the requirements of State and National Laws. Put up in sift-proof packages, ¼ lb., ½ lb., 1 lb., 2 lb. and 5 lb cartons. Prices on application.

Bordeaux Mixture. The best fungicide for curing and preventing black rot, mildew and blight. **Price: Lb., 50c.**

Bug Death. A fine non-poisonous powder, safe and sure death to bugs. **Price: Per lb. pkg., 25c.**

"Black Leaf 40" is a concentrated solution of nicotine sulphate, guaranteed to contain 40 per cent nicotine by weight. It is a contact insecticide. Mix 1-oz. bottle with 8 gallons of water. **Price: Per oz. bottle, 35c.**

WORM ERADICATOR. Electric destroyer of worms of every kind at the roots of Trees, Shrubs, Flowers, Grape Vines, Vegetables, etc. Brings worms to surface and rid's Golf Grounds of worms without discoloring grass. Use 1 or 2 ounces to 1 gal. of water. **.10 oz \$1.00.**

Fertilizers

For the intensive cultivation of plants in the home garden or grounds, fertilizers play a very important part. The following fertilizers represent the best for the home garden and the lawn. All prices subject to market changes.

Prices quoted are F. O. B. depot or delivered in city within delivery distance. 50c per hundred allowed from these prices delivered at store door.

Sheep Manure. A pure, natural manure that gives immediate effect. Planted directly in drills or hills with the seed, it promotes a rapid and steady growth until maturity. On lawns well raked in either springtime or fall adds wonderfully to the growth of the grass, 100 lbs. to about 3500 sq. ft. It makes the richest, safest and best liquid manure. For use in liquid form, 1 lb. of the material to 5 gallons of water would make a liquid that can be used daily with safety. **5 lbs., 25c; 25 lbs., \$1.00; 100 lbs. \$3.00.**

Peat Humus. A decayed vegetable matter which loosens the soil, makes it more pliable, enabling the soil at the same time to retain moisture more effectively, besides adding to the fertility and life producing qualities of the soil for plant life. **100 lbs. to 1000 sq. ft. Per 100 lbs., \$2.50.**

Dried Blood. For top dressing or mixing with the soil and for applying in liquid form it is one of the best and safest nitrogenous fertilizers and splendid for roses, carnations, mums, and all kinds of potted plants. **Per lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00.**

Nitrate of Soda. Not a substitute for other manures, but is the best form in which to apply nitrogen to plants. For using, remove lumps, break them up and make as fine as possible. In that form can be used as a top dressing at the rate of 1 lb. for 500 square feet, or 100 lbs. per acre when plants are well established. **Per lb., 15c; special prices in quantity.**

Bone (Fine Ground). For use by the vegetable gardener it is superior to anything on the market. It has been steamed to soften same and is quick to act. For trees or vines use 2 to 4 lbs. About 5 lbs. for 100 square feet for starting a new lawn. **Per lb., 10c; 3 lbs., 25c; 100 lbs., \$1.50.**

Lime Stone (Raw Rock Ground). Lime is an economic neutralizer for soil acidity and beneficial to soil in many other ways that has become sour and clammy by continued cultivation. Lets in air and moisture, liberating the nitrogen and other plant food substances, making the soil sweet and conditions favorable to plant growth by giving life to soil bacteria which makes it productive. **Per 100 lbs., \$2.00.**

Poultry Supplies

ALL PRICES ON POULTRY AND ANIMAL FOODS SUBJECT TO CHANGE
Our Poultry Foods Are All Foods—No Waste, Always the Same.

STARTER (For the Little Fellows)

Is a complete and properly balanced food for small chicks two days to two weeks old, adapted to their delicate digestive organs. 5 lbs., 25c; 50 lbs., \$2.50; 100 lbs., \$4.75.

ACME (Scratch Food)

We claim it to be the best all-around scratch food offered to the trade, all food and no waste. 5 lbs., 25c; 100 lbs., \$4.50.

Charcoal. Most successful poultry raisers feed this soft food. 3 lbs., 25c; 10 lbs., ; 15 lbs., \$1.60.

EUREKA

This is a food intermediate between the Starter and the Acme Scratching Food. (For Chicks Two Weeks to Two Months Old.) 5 lbs., 25c; 50 lbs., \$2.50; 100 lbs., \$4.75.

Alfalfa Meal. Alfalfa Meal furnishes the green food that is absolutely necessary for winter egg production. 5 lbs., 25c; 100-lb. bags, \$4.00.

Crushed Oyster Shells. This is one of the most commonly used articles in poultry yards. Price: 12 lbs., 25c; 100 lbs., \$1.75.

Mica Grit. Fowls have no teeth, so it is essential they should have grit. 100 lbs., \$1.75.

BLATCHFORD'S PRODUCTS

Blatchford's Calf Meal. Milk substitute made in an exclusively Calf Meal Factory. Price: 25-lb. bag, \$1.75; 50 lbs., \$3.50; 100 lbs., \$6.50.

Blatchford's Pig Meal. Milk substitute made in an exclusively Calf Meal Factory. Price: 25-lb. bag, \$1.75; 50 lbs., \$3.50; 100 lbs., \$6.50.

Blatchford's Egg Mash. This is a genuine Egg Food for laying hens. Increases the egg output and keeps the hens in vigorous condition. 25-lb. sacks, \$1.75; 100 lbs. for \$6.50.

Blatchford's Milk Mash. The ideal food for bone and muscle, excellent for growing chickens. 25-lb. sacks, \$2.00; \$7.50 per 100.

Animal Poultry Foods

Bone (coarse ground for poultry). Rich in Bone Phosphate and Lime. Lb., 10c; 4 lbs., 25c; 100 lbs., \$5.50.

Blood Meal. It will make hens lay during winter months. Lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00.

Meat Meal is a combination of meat trimmings—lungs, tendons, livers, etc. 3 lbs., 25c; 100 lbs., \$6.00.

Beef Scraps (Granulated Protein 60 to 65 per cent). Lb., 10c; 3 lbs., 25c; 100 lbs., \$7.00.



PRICES OF NITRAGIN INOCULATION

Garden Nitragin	30c	Two Acre Size.....	\$1.80
Half Acre Size	50c	Five Acre Size.....	\$4.00
One Acre Size....	\$1.00	Ten Acre Size.....	\$7.50

NATURE'S WAY BACTERIA

(The Reliable Inoculator)

Insures a Stand—Increases the Yield—Enriches the Soil—Easy to Apply—Sure in Results

Saves Time, Labor, Seed and Money

Nothing to do but moisten seed, sprinkle on bacteria, and mix well. One acre-size "Nature's

The New Way to Spray THE STANDARD SPRAY PUMP

As used with bucket, knapsack, tank or barrel for spraying orchards, gardens, vineyards, whitewashing, disinfecting chicken houses, killing vermin on stock. It throws a spray 25 feet; throws a solid stream 50 to 60 feet high. With two solid brass valves. No leather washers or sockets. No castings to rust. No leaky joints. Nothing to get out of order.

Price \$4.50 Each

Warranted to Purchaser for Five Years

LANG'S HAND WEEDER HANDIEST TOOL ON EARTH.

Per each, 25c



"Way" Bacteria inoculates one peck small seed like clover or one bushel large seed like peas.

PRICES

One Acre Size	\$.50	Five Acre size	\$2.00
Two Acre Size90	Ten Acre size.....	3.50

(Postpaid upon receipt of price.)

GARDEN PLANTERS

SPECIAL OFFER CUT PRICE

Price applies to stocks on hand only; when exhausted then factory prices apply.

No. 4 Planet Jr. Combined Hill and Drill Seeder. As Seeder only, \$12.50 each.

No. 25 Planet Jr. Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow. Price on application. Weight, packed, 61 lbs. Holds 2 1/2 quarts of seed.

CYCLONE SEEDERS



It is especially designed for distributing evenly all kinds of grain as well as every variety of grass seed. Price: \$2.00.

THE SOWER THAT SCATTERS EVENLY

Peonies—World's Greatest Three

All Perfect in Points Perfection

PEONY CLUMPS

3-year-old undivided. Price Each

FESTIVA MAXIMA	\$2.00
EDULIS SUPERBA	2.00
FELIX CROUSE	3.00

See page 19 for full description.

FELIX CROUSE

Price—3 to 5
Eye Roots
75c Each



EDULIS SUPERBA

Price—3 to 5
Eye Roots
75c Each

FESTIVA MAXIMA

Price—3 to
5 Eye Roots
50c Each

THE MICHAEL SEED STORE

J. S. MICHAEL, Proprietor, Auto Phone 2142 New Phone 935-M, 316 E. Pearl St., Sioux City, Iowa



WANETA PLUM
(Hanson Hybrid)
See page 31.

BETA GRAPE
See page 35

EARLY RICHMOND CHERRIES
See page 32

Northwest's Three Greatest Fruits



A Planting Which Appeals to Our Love of the Home Beautiful.

MICHAEL SEED STORE, 316 Pearl St., Sioux City, Ia.

Campbell Printing Co., Des Moines, Iowa