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HOW TO MAKE A LAWN

In preparing a seed bed so as to insure an everlasting lawn it is well that the earth be stirred deeper than merely scratching the surface, either with a good stirring plow or spade to the depth of a foot or fifteen inches, or even more. This is the first step to be taken, and the next consideration is the fertility of the soil where you are making the lawn. Among the various methods which increase the fertility of the soil we find that Humus plays a most important part. The very best time to do the work of preparing the soil for a lawn is in the autumn season and then left for the winter. The soil is solidified by the winter condition. Then in the spring the surface should be lightly stirred and the seed sown, well raked in and rolled. When the summer is over and the winter comes on again, the lawn needs attention, and it is a wise plan after the ground is slightly frozen to cover it with a moderate coat of well rotted manure. In the springtime before the growth of grass is started, this coat of manure should be well raked in the soil, and the roughage raked off, giving the grass a chance to get plenty of sunlight. Should, however, this be overlooked in the autumn, then in the springtime again it is well to apply a moderate amount of sheep manure, phosphate, or ground bone fertilizer, well raked into the soil just as soon as is possible and at such time it is well to apply a sprinkling of our blend of Reseeding Lawn Grass.

These suggestions in regard to the making of a lawn will well repay the time and expense by the increased growth of grass.

SHADY NOOK GRASS

For shady places in the lawn and about the home where many kinds of grasses do not flourish and do well it is well to secure something in the way of a grass that will do better, if not as well as in open spaces. Our SHADY NOOK is a blend of several varieties of velvety fine bladed grasses which grow and do as well in shaded places as in open spaces and we highly recommend it where such conditions prevail. Price per lb. 50c.

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 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. 40c; 10 lbs. $3.50.

WHITE CLOVER SEED; Superfine quality, 60c per lb.; 5 lbs. $2.50. FERTILIZERS. See page 45.
THE MICHAEL SEED STORE
Auto Phone 2142 New Phone 935-M
J. S. MICHAEL, Manager
316 Pearl St., SIOUX CITY, IOWA.

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THE HOME OF GOOD SEEDS
Bulbs, Plants and Nursery Stock

THE HOUSE THAT MICHAEL BUILT

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 reclaimed, pure, free from foul and obnoxious weed seed as it is possible to render them by the best process of reclaiming.

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 32 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.
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. Special price on application in 50 or 100 lbs.

Golden Wax The old standard wax sort. Productive and early with yellow semi-round pods of good quality. Prices: ¼ lb. 10c; ½ lb. 15c; 1 lb. 25c; 10 lbs. $2.25.

American Black Wax The old standard Black Wax Bush Bean. The pods are round, brittle, yellow color. Prices: ¼ lb. 10c; ½ lb. 15c; 1 lb. 25c; 10 lbs. $2.25.

Round Pod Kidney Wax (Brittle Wax.) Is early, of vigorous growth with heavy yielding vines; pods are long, round and entirely stringless; have fine flavor. One of the highest quality beans. One of the best of the round pods. Price: ¼ lb. 10c; ½ lb. 20c; 1 lb. 35c; 10 lbs. $3.00.

Davis White Wax A new, white, rustless, productive, wax-podded bean; pods flat, very long, white waxy color, and handsome; seeds clear white. Price: ¼ lb. 15c; ½ lb. 25c; 1 lb. 35c; 10 lbs. $2.50.

Stringless Green Pod The earliest sorts of all green-podded sorts; large, handsome pods, six inches in length. Very prolific, pods, perfectly round, straight, broad, tender, brittle, fleshy and entirely stringless. Prices: ¼ lb. 10c; ½ lb. 20c; 1 lb. 35c; 10 lbs. $3.00.

Extra Early Round Pod Red Valentine 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: ¼ lb. 10c; ½ lb. 20c; 1 lb. 35c; 10 lbs. $2.00.

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. Handsome pods. Price: ¼ lb. 10c; ½ lb. 20c; 1 lb. 35c; 10 lbs. $3.00.

Large White Lima Vine, tall growing, requires poles or support, pods borne in clusters, long, broad, dark green; Price: ½ lb. 20c; 1 lb. 35c; 10 lbs. $3.00.

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: ¼ lb. 10c; ½ lb. 15c; 1 lb. 30c; 10 lbs. $2.50.

Field Bean The finest white field bean. Price: 1 lb. 15c; 10 lbs. $1.25; per 100 lbs. $12.50. Bags extra.
**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 as 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. Dwarf varieties 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: 1/4 lb. 10c; 1/2 lb. 15c; 1 lb. 25c; 10 lbs. $2.00; 25 lbs. $3.75.

### Potlatch
- One of the largest, best, and most productive of all the large podded Peas; superior to the Telephone, Harvester, Laxtonia or any of the others for a general home garden crop. Foliage healthy dark green, growing to the height of about 50 inches. Pods borne in pairs, long, dark green, well filled with large berries. Second early. Planted at the same time you plant Little Gem and they come in right after the Gems are gone. Price: 1/4 lb. 10c; 1/2 lb. 15c; 1 lb. 25c; 10 lbs. for $1.75.

### 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: 1/4 lb. 10c; 1/2 lb. 20c; 1 lb. 35c; 10 lbs. $2.50.

### 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 highest. Price: 1/4 lb. 10c; 1/2 lb. 15c; 1 lb. 25c; 10 lbs. $2.00.

### Nott’s Excelsior
- Bears very heavily in a favorable season, but subject to weather conditions more than the smooth peas. Very high quality. Price: 1/4 lb. 10c; 1/2 lb. 15c; 1 lb. 25c; 10 lbs. $2.50.

### 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 1/4 lb. 10c; 1/2 lb. 25c; 1 lb. 35c; 10 lbs. $2.00; 25 lbs. $3.75.

### American Wonder
- Somewhat similar to Nott’s Excelsior, a very early wrinkled pea; very dwarf. Pods quite large but not many to a vine. Prices: 1/4 lb. 10c; 1/2 lb. 15c; 1 lb. 25c; 10 lbs. $2.50; 25 lbs. $4.00.

### Little Gem
- Probably the best known and most widely grown second early. It comes in following the first earliest, grows about 15 to 18 inches high and bears heavily of large, plump pods. The peas are wrinkled and very sweet. Price: 1/4 lb. 10c; 1/2 lb. 15c; 1 lb. 25c; 10 lbs. $2.00; 25 lbs. $4.00.

### 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: 1/4 lb. 10c; 1/2 lb. 15c; 1 lb. 25c; 10 lbs. $2.00.

### Edible Pod Pea
- This class of pea is but little known. They have a sweet, brittle, succulent pod, and can be used the same as snap beans, cooking both pod and pea together. Price: 1/4 lb. 10c; 1/2 lb. 15c; 1 lb. 25c.

### 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.
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.

Golden Giant

This is an early Sweet Corn recently introduced which is as early as the Golden Bantam. It is superior in size of ear and quality to that well known sort. The ears are fully a half larger; corn much sweeter, much more productive and as a roasting ear for market garden trade is much more desirable and a better seller. Price: ¼ lb. 10c; ½ lb. 15c; lb. 20c; 10 lbs. $1.50.

SUNSHINE

This is a very early yellow variety of sweet corn which was brought out the first place by the North Dakota Agricultural College. In our trial grounds this year it has proven all that has been claimed for. It is ten days earlier yet than Golden Bantam; a some what larger ear with more rows on it. The quality is tender and sweet and and retains its tenderness longer than most early varieties. A combination of earliness and quality. Prices are: ¼ lb. 15c; ½ lb. 20c; 1 lb. 35c; 10 lbs. $2.50.

Golden Bantam

A yellow variety of sweet corn; the richest and sweetest of all corns. It may be planted thickly and as late as July 15 with splendid results for table use as green corn. Price: ½ lb. 10c; 1 lb. 20c; 10 lbs. $1.25; 25 lbs. $3.00.

White Mexican

Originated at Sioux City. Early as the Extra Earlies and as fine for table use as any of them. Price: 1 lb. 20c; 15 lbs. $2.25.

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: ¼ lb., 10c; ½ lb. 35c; 10 lbs. $3.00.

Michael's Improved Evergreen

This is an improvement over Stowell's. Deeper kernels and a sweeter roasting ear. Earlier and will last a long time in a green and tender condition. The ideal variety for market gardeners. Price: ½ lb. 15c; lb. 25c; 10 lbs. $2.00; 25 lbs. $4.00.

Minnesota Early

The best and most popular of the older varieties, having eight rows of very sweet and tender kernels. Price: ¼ lb. 10c; 1 lb. 15c; 15 lbs. $2.00.

Stowell's Evergreen

The standard big late corn. Good, big ears, sweet and solid, and heavy yielder. Stays green and tender for a long time. Price: ¼ lb. 10c; 1 lb. 20c; 10 lbs. $1.60; 25 lbs. $3.50.

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 the 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.

Early Wonder

A rather new variety of recent introduction and one of the earliest Beets known, almost round leaves, small, very dark rich crimson color. Price: oz. 10c; ½ lb. 25c; lb. 75c.

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; 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; lb. 75c.

Swiss Chard, or Spinach Beet

The leaves of Swiss Chard are used as greens, cooked in the same manner as Spinach. Price: oz. 10c.

Half Long Blood

Dark Red flesh. Price: oz. 10c; ½ lb. 30c; lb. 50c.

Long Smooth Dark Blood

Price: oz. 10c; 2 ozs. 15c, ½ lb. 30c.

Detroit Dark Red

A grand beet with tops exceptionally small and up-right; 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.
Mangel Wurzel and Sugar Beets

The Best for Stock Feeding

Half Sugar Mangel

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. 40c; postpaid, 10 lbs. $3.50.

Golden Tankard Best for dairy farming. It is of rich, deep yellow throughout. Early, hardy and a heavy cropper. Price: oz. 10c; 1 lb. 50c; 6 lbs. $2.00.

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 will produce a supply of syrup for home use. Price: oz. 10c; 1 lb. 50c; 6 lbs. $2.00.

White French Sugar

Price: oz., 10c; ¾ lb. 20c; 1 lb. 50c.

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

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 to 4,000 plants, 3 to 4 ozs. for an acre. Set the plants 2 to 3 feet apart each way. Give frequent cultivation. SEE PAGE 31 FOR PLANTS.

Iacope Cabbage

This is a late introduction in cabbage, bred especially to withstand a disease called Yellows in cabbage plants as they grow in the field, brought out after many years of selection by the Department of Plant Pathology of the Iowa Agricultural Experiment Station. It is a strain that has been developed from the Copenhagen Market. It is especially valuable to commercial growers who want an early cabbage and market gardeners who have trouble in getting a good crop from ordinary varieties. Price: ½ oz. 35c; oz. 60c; ¼ lb. $2.00; lb. $7.50.

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., 75c; lb., $2.50.

Copenhagen An entirely new type of early cabbage. As early as Early Jersey Wakefield, as large as All Head, solder and better quality than either. Price: ½ oz., 15c; oz., 25c; ¼ lb., 75c; lb., $2.50.

Earliest Jersey Wakefield

Considered by many gardeners the very best early variety. Price: ½ oz. 10c; oz. 20c.

Early Flat Dutch Cabbage A valuable second early sort. Price: ½ oz. 10c; oz. 20c; ¼ lb. 75c.

Premium Late Flat Dutch Old and well-known variety. Price: ½ oz. 10c; oz. 20c; lb. $2.00.

Late Drumhead A very deep, solid, sure heading variety. Price: ½ oz., 15c; oz., 25c; lb. $2.50.

Red Dutch

Price: ½ oz., 15c; oz., 25c.

For Cabbage Plants see page 31.
CARROTS

Carrots require a deep, well worked soil. Plant in rows 15 inches apart for table sorts; cover half 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; ¼ lb. 25c; lb. 75c.

Earliest Short Horn (French Forcing). This variety is small, reddish-orange, of globular shape and excellent flavor. Price: oz. 15c; 3 ozs. 35c; ¼ 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; ¼ lb. 25c; lb. 75c.

Chantenay Half-Long Resembling the Danvers, with larger shoulder. Medium early and heavy cropper. Price: oz. 10c; ¼ lb. 25c; lb. 75c.

Improved Long Orange A well-known sort, roots long, thickest near the crown, tapering regularly up to a point, color deep orange. Price: oz. 10c; 2 oz. 15c; ¼ lb. 40c; lb. 75c.

Large Yellow Belgian Used for feeding cattle; grows large and is very productive. Price: oz. 10c; ¼ lb.

Oxheart Carrots

CUCUMBERS

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 the middle of July for fall. One ounce for 50 hills.

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: ½ oz. 10c; 1 oz. 15c; 3 ozs. 35c; ½ lb. 60c; lb. $1.00.

Improved Early White Spine An excellent variety which produces an early crop of cucumbers. The fruits are straight, light green, with white spines. Price: ½ oz. 10c; 1 oz. 15c; 3 ozs. 35c; ½ lb. 60c; lb. $1.00.

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: ½ oz. 10c; 1 oz. 15c; ½ lb. 35c; ¼ lb. 75c; lb. $1.00.

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: ½ oz. 10c; 1 oz. 15c; ¼ lb. 25c; ½ lb. 60c; 1 lb. $1.00.

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: ½ oz. 10c; 1 oz. 15c; ¼ lb. 35c; ½ lb. 75c; 1 lb. $1.00.

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: ½ oz. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.
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 out-doors as early in the spring as the ground can be worked. 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.

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., 10c; ¼ lb., 35c; ½ lb., 60c; 1 lb., $1.00.

Hanson

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., 10c; ½ lb., 75c; lb., $1.00.

Celery

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 transplant.

White Plume Celery The earliest celery. The stalks are very large. The leaves are crisp and of rich nutty flavor; it blanches very easily and retains its freshness a long time. Price: ½ oz., 10c; oz., 15c; ¼ lb., 75c; lb., $2.25.

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: ½ oz., 10c; oz., 15c; ¼ lb., 75c; lb., $2.25.

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: ½ oz., 15c; oz., 25c; lb., $3.00.

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. 10c; ¼ lb., 35c; ½ lb., 60c; 1 lb., $1.00.

New York

New York This is one of the finest head lettuce now being grown, extra tender and very brittle. While not as early variety as some it is one of the best for the garden or market. If you are fond of good lettuce don't fail to sow some of this excellent variety. Price: ½ oz., 10c; oz., 15c; ¼ lb., 50c; per lb., $1.50.

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., 10c; ½ lb., 60c; lb., $1.00.

Early Curled Simpson White seeded. One of the best of the leaf lettuces. Quite similar to Early Curled Silesia. Price: oz., 10c; ¼ lb., 60c; lb., $1.00.

Egg Plant

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

New York Improved Large Purple


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.
MUSKMELON SEED

Our melon seed is saved from fields in which only seed melons are grown.

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.

Hearts of Gold

Vines strong and vigorous, disease resistant, prolific bearer, improved strain. Flesh very firm, rich deep orange color, small seed cavity, sweet spicy flavor. Thickly netted rind. Price: oz. 10c; 1/4 lb. 35c; lb. $1.00; 5 lbs. $4.00.

Hoodoo

Melons of medium size, round, distinctly ribbed and attractive appearance. Flesh very firm, rich deep orange color, small seed cavity, sweet spicy flavor. Thickly netted rind. Price: oz. 10c; 1/4 lb. 35c; lb. $1.00; 6 lbs. $4.00.

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: 1/2 oz., 10c; oz. 15c; 1/4 lb. 50c; lb. $1.50; 5 lbs. $4.50.

"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; 1/4 lb. 50c; lb. $1.00. Introducer's Strain, lb. $3.00.

Extra Early Hackensack

Ten days earlier than the old Hackensack. Flesh light green and excellent in flavor. Price: oz. 10c; 1/4 lb. 75c; lb. $1.00.

Milwaukee Market

Earliest, large size, good quality, yellow meated muskmelon to appear in the markets. Heavily netted, prominently ribbed, slightly oval, good yielder and a great money maker. Price: 1/2 oz. 10c; 1 oz. 15c; 1/4 lb. 40c; lb. $1.00.

Jumbo Giant

Largest muskmelon grown. Very heavily ribbed, noticeable and attractive. Quick seller. Best quality of large melon, great yielder and a good money maker. Everybody wants one that sees it in the market. Price: oz. 10c; 1/4 lb. 35c; lb. $1.00.

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 and thickly netted. It is a heavy cropper, and in wide favor as a market melon. Very dependable. Price: oz. 10c; 1/4 lb. 60c; lb. $1.00; 5 lbs. $4.00.

Emerald Gem

One of the sweetest melons in cultivation; smooth skin, deep salmon colored flesh; early and prolific. The ideal home melon. Price: 1/2 oz. 10c; oz. 15c; 1/4 lb. 75c; lb. $1.25.

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; 1/2 lb. 60c; lb. $1.00.
WATERMELON SEED

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 ft. 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 50 hills and four pounds will plant one acre.

Dixie Bell (Stone Mountain)—The latest thing in melons to appear in the northern market. It is a big round one, slightly oblong but nearly round. Green color with bright red flesh that is a scream and as sweet as honey. The most popular of all melons in the southern market and becoming the same in the northern market wherever it appears. Several carloads reached Sioux City this season from Southeastern Missouri and swept aside everything else until they were all gone. If you plant any melons for your home use or for market don't forget to plant some Dixie Bell.

It pays to buy the best that can be obtained. Dixie Bell is the aristocrat of all melons. If you raise but one kind of melon raise Dixie Bell.

We are offering the Dixie Bell Watermelon Seed in two grades as follows:

- Standard Grown Seed Stock. Price: oz. 15c; 1/4 lb. 50c; 1/2 lb. 75c; 1 lb. $1.25.
- Originator's Seed Stock saved from selected melons of 40 lbs. weight and up. Price: oz. 35c; lb. $1.00; 1/2 lb. $1.50; 1 lb. $2.50.

Irish Gray A superb new sort. 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 outsides either of those. Price: Oz. 10c; 1/2 lb. 30c; lb. 75c; 5 lbs. $3.00.

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; 1/4 lb. 50c; lb. $1.25; 5 lbs. $4.00.

Coles' Early The earliest in cultivation. Black seed, rich red flesh.

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

Halbert Honey A variety somewhat similar to Kleckley Sweets.

Mclvor's Wonderful Sugar The rind is thin, but tough.

Above varieties not priced we quote as follows: Price: Oz. 10c; 1/4 lb. 40c; 1/2 lb. 75c; in 5 lb. lots and over, 60c; per lb.; 10 lbs. $5.

Dixie Bell

Kleckley Sweet
ONION SEED

The onion not only contains considerable nutriment and has valuable medicinal properties, but is most useful in countering 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.

Southport Red Globe

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 absolutely satisfactory, money will be refunded. Price: 1/2 oz. 10c; oz. 15c; 1/2 lb. $1.00; lb. $1.50; 10 lbs. $13.75.

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: 1/2 oz. 15c; 1 oz. 30c; 1/2 lb. $1.25; 1 lb. $2.00.

Large Red Wethersfield. The best known of all the onions. Prices: 1/2 oz. 10c; oz. 15c; 1/2 lb. 75c; lb. $1.25; 10 lbs. $10.00.

Yellow Globe Danvers. The most extensively used yellow onion. Price: 1/2 oz. 15c; oz. 25c; 1/2 lb. 90c; lb. $1.20. Prizetaker (the largest onion grown; very mild). Price: 1/2 lb. $1.00; lb. $1.75.

White Silver Skin, round, white, medium. Price 1/2 lb. $1.25; lb. $2.25.

Valencia Onion. A variety of late introduction into this trade territory. Highly recommended by W. F. Kerr, the leading onion grower of this country around and about. A very mild variety. Bronze color. Thin tough skin, solid and substantial. One of the best keepers of all onions. Grows very large. Good specimens weigh about 2 lbs. Many growers in other sections of the country that have grown this variety are able to produce from 500 to 1000 bushels of choice marketable onions per acre. Price: 1/2 oz. 20c; oz. 35c; 1/2 lb. $2.50; lb. $4.00.

Mammoth Silver Skin, a large, white onion. Price 1/2 oz. 15c; 1 oz. 25c; 1/2 lb. 75c; lb. $2.25.

New Queen, early, small white onion for pickling. Price: 1 oz. 35c; 1/2 lb. $1.00; 1 lb. $1.50; lb. $2.50.

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. 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, lb. 15c; 3 lbs. 40c. Chives—Perennial Onion, per clump, 25c; Garlic Bulbs, 25c per pound. Add 6c per lb.; 2 lbs. 8c; 5 lbs. 14c; if by parcel post.

ONION PLANTS

Onion plants are becoming more popular each season. These plants are grown in the south and ready to ship north by April, when the young onion can be set out then in our climate here. These plants are mostly white or yellow Bermuda onions, good keepers and quick sellers. White Bermuda Onion Plants, or Yellow Bermuda either, 25c per 100 plants; $1.00 per 1000. Crate of 6000, $5.00 per crate. 10 crates $45.50 per crate.

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.
RADISH SEED
SPECIAL PRICES 5 to 10 LB. LOTS ON ALL SORTS.

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 the 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 sorts 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.

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

Saxa Globe Radish
Saxa Globe This is the quickest outdoor Radish known. On account of the remarkably small size of the leaves is indeed one of the safest and best for greenhouse culture. The flesh is firm and crisp, rich crimson, globe shape, and bulbs of even size. With favorable weather Saxa will be ready to eat in twenty days. Originated in Quedlinburg, Germany some years ago. Price per oz. 10c; ¼ lb. 25c; ⅛ lb. 75c; 1 lb. $5.00.

Cardinal Globe Radish This is the best forcing and quickest outdoor radish to date. A new 22-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: oz. 10c; ¼ lb. 40c.

Icicle 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: oz. 10c; ¼ lb. 30c; ½ lb. 75c; 1 lb. $2.50.

Scarlet Turnip, White Tipped One of the handiest 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; ¼ lb. 30c; ½ lb. 75c; 1 lb. $5.00; 5 lbs. $2.75.

Early Scarlet Globe A desirable sort for hotbed forcing and outdoor planting... Very early; top small. One of the best selling and most attractive radishes. Account of its bright scarlet color and handsome shape; flesh white and tender, fit to pull in 28 days. Price: oz. 10c; ¼ lb. 30c; 1 lb. 75c; 5 lbs. $3.00.

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; ¼ lb. 50c; 1 lb. 75c.

French Breakfast, stump rooted...$0.10 $0.60 $0.75
Early Scarlet Turnip...$10 .60 .75
Long Scarlet Short Top... $10 .50 .75
Charter Hal Half Long White bottom...$10 .50 .75
White Strasburg...$10 .50 .75
Early Winter Turnip...$10 .50 .75
Cal. Mam. White Winter...$0.10 $0.60 $1.00
Rose White Winter...$10 .60 1.00
Black Spanish, round or long...$10 .60 1.00

PEPPER

(One ounce will produce about 1,500 plants). Sow seed in hotbed early in spring; transplant to open ground when the weather is favorable. Seeds germinate slowly and require considerable heat.

Bull Nose Large blocky fruit, very mild. Popular with home gardeners. Oz. 25c; ¼ lb. $1.00; 1 lb. $3.00.

Ruby King Very large size. When ripe they are of a beautiful bright ruby red color. Price: oz. 25c; ¼ lb. $1.00; 1 lb. $3.00.

Chinese Giant Most gigantic of all Giant Peppers. A fine mild red pepper, of enormous size, glossy scarlet color. The flesh is mild and unusually thick. Price: ½ oz. 25c; oz. 40c; ¼ lb. $1.50; 1 lb. $4.50.

Pimento Flesh extremely thick and very mild. Must be started early in the North to mature its fruits fully. ½ oz. 30c; oz. 50c; ¼ lb. $1.25; 1 lb. $4.00.

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

SEE PAGE 31 FOR PEPPER PLANTS.
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. 25c; lb. 75c; 5 lbs. $3.00.

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.

New Long Standing Spinach "Antvorskov." (Danish King)
This variety is slower to seed than any other sort. Antvorskov forms quite large tufts, compact and low. The numerous leaves are extra large, broad and rounded, exceedingly bushy, slightly crumpled and of a glossy dark green color. It is vigorous and a rapid grower. It is ready for use practically as early as any Spinach and remains in condition much longer. Oz. 10c; ¼ lb. 20c; lb. 40c; 5 lbs. $1.75; 10 lbs. $3.00.

New Zealand A variety of spinach unlike the common kind. Stands all summer and produces a continuous supply of good quality foliage from seed sown in the springtime. Price: bulk pkt. 10c; oz. 15c; per lb. $1.00; 5 lbs. $4.00.

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.

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 kind that is grown so much in the corn fields. Price: oz. 10c; 1 lb. 40c; 4 lbs. $1.50; 10 lbs. $3.50.

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. $1.00.

Quaker Pie A very prolific variety; a good keeper and one of the best for pies. Price: oz. 10c; ¼ lb. 40c; lb. $1.25.

Squash

Culture—Scientists have discovered a remarkable abundance of vitamins in summer squash. Highly recommended for children of weak physical development. Plant during first half of May 4 feet apart, later varieties 6 feet. Thin out to three plants in hill. Use tobacco dust for bugs.

Warty Hubbard Squash (See insecticide, page 46.)
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: ¼ lb. 30c; lb. $1.00; 5 lbs. $4.00.

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: ¼ lb. 30c; lb. $1.00; 5 lbs. $4.00.
SPECIALY SAVED TOMATO SEEDS

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. 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.

For Tomato Plants, See Page 31.

**Oxheart Tomato**

Late introduction of Livingston, one of America's most renowned tomato growers. Because of its attractive different shape, large size, and excellent table qualities it is recommended as a variety that will become a general favorite. Specimens of this Oxheart variety weigh as much as 2 lbs. and it will on account of its shape and attractive pink color sell at sight. Almost seedless with meat frequently an inch thick without seed cavity. Price: oz. 50c; ½ oz. 75c; 1 oz. $1.25.

**Earliana**

This Tomato is not only remarkable for its earliness, but for its handsome shape and bright red color. Price: ½ oz. 15c; oz. 25c; ¼ lb. 50c; per lb. $2.75.

**New Stone**

One of the most solid large tomatoes. Price: ½ oz. 10c; oz. 15c; ¼ lb. 60c; lb. $2.00.

**Dwarf Stone**

Plants grow like Dwarf Champs. Price: ½ oz. 20c; oz. 35c; ¼ lb. $1.25.

**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: ½ oz. 20c; oz. 35c; ¼ lb. $1.25; 1 lb. $4.00; 2 lbs. $7.50.

**Ponderosa**

The largest variety in cultivation. A purplish pink, main crop tomato. The vines are vigorous and very productive. The fruits are very solid, with exceptionally few seeds, Price: ½ oz. 25c; ¼ lb. $1.75; 1 lb. $6.00.

**Greater Baltimore**

A medium crop variety. Price: ½ oz. 15c; oz. 25c; ¼ lb. $1.00; 1 lb. $2.50.

**Golden Colossal**

A large size yellow. Price: ½ oz. 10c; oz. 20c; ¼ lb. $1.00.

**Yellow Pear and Yellow Plum**

Are small yellow tomatoes. Price: ½ oz. 25c; oz. 40c.

**Other Varieties**

We can supply any of the standard sorts, whether listed here or not. For Tomato Plants see page 29.

**TURNIPS**

Early Turnips should be planted very early, and will keep growing until the ground freezes.

**Extra Early White Milan**

The earliest turnip. Tops very small, very erect and compact. Price: oz. 15c; ½ lb. 50c; lb. 75c.

**Extra Early Purple Top Milan**

Similar to the White Milan except the upper portion is a beautiful purplered. Price: oz. 15c; ½ lb. 50c; lb. 75c.

**Purple Top, Strap-Leaved**

The most popular sort. More largely grown than any other turnip; will form good size bulbs in seven or eight weeks. Price: oz. 10c; ½ lb. 35c; lb. 60c; 5 lbs. $2.50.

**Late Turnips**

Can be sown in July or August. Use 2 pounds of seeds to an acre.

**Purple Top White Globe**

Of a perfect shape with smooth white skin. Flesh pure white, firm and crisp and of quick growth. Price: oz. 15c; ½ lb. 35c; 1 lb. 65c; 5 lbs. $2.50.

**Rutabaga or Swedes**

Improved American Purple Top For the fine qualities and productivity this is the best. The roots are finer and larger than the ordinary; the flesh is a rich yellow. Price oz. 10c; ½ lb. 40c; 1 lb. 65c; 5 lbs. $2.50.
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.

Asparagus Roots. Two years old. See page 31

Cress or Pepper Grass

True Water. Sow seeds along the border of running water. Price: ½ oz., 20c.

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: ¼ oz., 15c.
Early Purple Vienna. Very early, with small top, the left stems being tinged with purple. Price: ¼ oz., 15c.

Mustard


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: ¼ 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: ¼ oz., 25c.

Kale or Borecole

Dwarf German. Very hardy, with dark green leaves; much improved by frost. 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.
Hamburg. Turnip-rooted variety; used for flavoring soups.

Rhubarb

Easily raised from seed.
Large Victoria. The standard variety. Price: oz., 10c; ¼ lb., 20c; lb., 85c; postpaid.
For Rhubarb Roots see page 29.

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

Anise Seeds, aromatic $0.10
Caraway .10
Catnip (Cat Mint) .25
Coriander, for flavoring .10
Dill (2 oz., .50c; ½ lb., .90c) .16
Lavender .20
Marjoram, Sweet .25
Saffron .20
Sage, Broad Leaf .15
Savory, Summer .15
Thyme .25

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 .90
One brick, by mail, postpaid .40
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.

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 consider to be the best varieties.

- **Apple Blossom Spencer** (Rose Spencer). Standard with primrose wings. Very large; true Spencer form
  - Per ½ oz., 10c; oz., 20c; ¼ lb., 60c; lb., $2.25.

- **Blanche 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 ½ oz., 10c; oz., 20c; ¼ lb., 60c; lb., $2.25.

- **Etta Dyke (White Spencer)** Especially attractive variety of very large size.
  - Per ½ oz., 10c; ¼ lb., 60c; lb., $2.25.

- **Mrs. Hugh Dickson (Salmon Pink Spencer)** A light on cream background; strong growers; throws four flowers to a stem.
  - Per ¼ oz., 10c; oz., 20c; ¼ lb., 60c; lb., $2.25.

- **King Edward VII (Red Spencer)**
  - Price very large with especially immense wings.
  - Per ½ oz., 10c; oz., 20c; ¼ lb., 60c.

- **The President** A brilliant orange-scarlet flower, always of largest size. The blooms, usually in fours, are carried on strong stiff stems.
  - Price very large with especially immense wings.
  - Per ½ oz., 10c; oz., 20c; ¼ lb., 60c.

- **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 wonderful attractive form.
  - Michael's De Luxe Mixture. Per ¼ oz, 10c; oz., 15c; ¼ lb., 50c; ½ lb., 90c; lb., $1.50; 5 lbs., $6.50.

Spencer Type

Nasturtiums

Nasturtiums. 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** (Tall Growing). Rich, deep, crimson flower; most striking and beautiful of all tall growing Nasturtiums. Foliage dark green and vigorous.
  - ½ oz., 10c; 1 oz., 15c; ¼ lb., 25c.

- **Michael's Zulu** Scarlet, dark leaved; darker than Brilliant or Fulgens and the nearest to Empress of India in the Talls.
  - Per ½ oz., 10c; oz., 15c; 2 oz., 25c.

- **Nasturtiums Lobbianum** (Lobb's Nasturtium). This is a distinct variety of remarkable brilliancy of flowers surpassing the old fashioned kind for size and rich colors with overlapping petals on each flower. All colors mixed.
  - ½ oz., 10c; 1 oz., 15c; 2 oz., 25c; ¼ lb., 40c.

- **Tall Mixed** (California Giants). In this mixture will be found the choicest of all colors and varieties.
  - Michael DeLuxe Giant Mixture. Per oz., 10c; ¼ lb., 25c; lb., 75c.

- **King of Tom Thumb** A dwarf variety with intense deep scarlet flowers, dark green foliage.
  - 15c per oz.; ¼ lb. 35c.

- **Dwarf** (Mixed). A special mixture of Dwarf Nasturtium of a great many colors in even proportions.
  - Michael DeLuxe Dwarf Mixture. Per oz. 10c; ¼ lb. 25c; lb. 75c.

- **Dwarf King Theodore**
  - Velvety red flowers with dark green foliage. Price 10c per oz.; ¼ lb. 35c.

Nasturtiums Giant Flowering

Use Nitragin inoculation for larger, better and healthier Sweet Pea crop. Garden size 20c each.
Asters

In their many varieties and colors, are the grandest and most beautiful flowers that bloom in the home garden. Our Aster seed is grown by America's greatest Aster specialist.

**Michael's New Creation Aster (Heart of France).**
The richest red Aster ever developed. Color livid, ox blood red with a sheenish tinge in the sunshine like burning coals. Second early bloomer. Plants grow about 2 feet with free branching habit. Flowers are double borne on stems about a foot long. Bulk pkt. 10c; 1-16 oz. 15c; 1-8 oz. 25c; 1 oz. $1.50.

**Extra Early Express or Early Wonder**
These are the earliest blooming Asters, commencing to bloom with us in July. Flowers large and full, of the Comet type. Finest mixed. Bulk pkt. 5c; 1-16 oz. 15c; 1-8 oz. 25c; 1 oz. $1.00.

**Michael's Giant Branching**
This is a new Aster which we have developed after several seasons of Hybridizing and selection. It is a branched variety of true non-lateral stems. Has an immense flower of great beauty and substance of the Crego or Ostrich Feather type throwing no single flower. Michael's DeLuxe Mixture, bulk pkt. 10c; 1-16 oz. 15c; 1-8 oz. 25c; 1 oz. $1.00.

**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. Michael's American Branching Aster with whorled center as the flower unfolds. Michael's DeLuxe Mixture. Bulk pkt. 5c; 1-16 oz. 10c. See Page 31 for Plants.

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. Like our Asters, our Zinnia seed are grown by a specialist who has brought to the attention of the American Public through his efforts as a propagator, all the giant flowering varieties of these profuse blooming annuals.

**GIANT MAMMOTH TYPE ZINNIAS**
These mammoth flowering Zinnias are a new improved strain of the giant type; the latest improved and the best. Petals are loosely placed imbricated (overlapping) with small center and from bud to bloom assuming a succession of beautiful form.

**Michael's De Luxe Giant Mammoth Mixture.** Bulk Pkt. 10c; 1-16 oz. 15c; 1-8 oz. 25c; 1 oz. $1.50.

**SCARLET (Mammoth Type) Bulk Pkt. 15c; 1-16 oz. 25c; 1-8 oz. 40c.**

**PINK (Mammoth Type) Bulk pkt. 15c; 1-16 oz. 25c; 1-8 oz. 40c.**

**ORANGE (Mammoth Type) Bulk. pkt. 15c; 1-16 oz. 25c; 1-8 oz. 40c.**

**DAHLIA FLOWERED ZINNIAS**

**Exquisite**
This is by far one of the most pleasing colored Zinnias of any of the named varieties of the Dahlia flowering and is a true Dahlia type in regard to size and form. The color is light rose with a deep Tyrian Rose center. Bulk pkt. 10c; 1-16 oz. 15c; 1-8 oz. 60c.

**Meteor**
A rich glowing spinel red and the darkest of all red shades. Fine form and good depth petal. Very large and more floriferous than any other of the reds. Price 1-16 oz. 25c; 1-8 oz. 50c.

**Oriole**
The most beautiful Dahlia Zinnia of its class. An immense orange and gold bicolor, changing slightly as it ages, worthy of the beautiful bird for which it is named. Bulk pkt. 25c; 1-16 oz. 50c.

**Crimson Monarch**
By far the largest and best of the red shades of Dahlia Zinnia. Flowers often 8 inches in diameter. Bulk pkt. 20c; 1-16 oz. 40c.

**Jacqueminot Zinnia**
This splendid red flowering Zinnia is just covered with velvety, double red flowers throughout the summer until frost, with the effect of red American Beauty roses. Bulk pkt. 5c; 1-16 oz. 15c; 1-8 oz. 25c.

**New Dahlia Flowered Zinnias**
The Dahlia Flowered Zinnia is similar in shape to the double Decorative Dahlia which is nicely shown in our accompanying picture, immense flowers with a range of colors not only including the usual shades, but many unusual tones, such as salmon, old rose, cerise, strawberry-red, etc. Michael's DeLuxe Mixture. Bulk pkt. 10c; 1-16 oz. 20c; 1-8 oz. 35c. Plants Quoted on Page 31.
Pansies and Petunias

Pansies

PANSIES are now produced in almost infinite colors and markings. After years of experimenting with the many varieties we have finally reached a climax of perfection in the Pansy proposition and what we offer in our De Luxe Mixture (Identical) is the last word to be pronounced in Giant Pansy.

Pandora Pansy
The flowers of this new strain of Swiss origin are of enormous size, three inches in diameter, perfectly round, with overlapping petals, of surpassing quality and color combinations—never seen before in pansies—all flowers blotched in salmon, pink, red and other shades, borne on strong stems showing above a remarkable luxuriant foliage. No self colors. The attention of all pansy fans and others is called to this “Flying Cloud” in pansies. 100 seeds 25c; 300 seeds, 50c; 1-16 oz. $1.25; 1-8 oz. $2.00; 1-4 oz. $4.00; 1 oz. $12.00.

Michael's Giant DeLuxe Mixture
This contains five special strains, too expensive to list in catalogs and can only be had in this DeLuxe combination which besides, includes the richest reds, copper and bronze together with the most delicate rose pink shadings and the Master Piece strain with its delicate veinings and ruffled petals. Immense flower, expressive facings, brilliant colors, all in one glorious combination. Price: Small bulk pkt. 10c; medium sized pkt. 15c; 1-16 oz. 35c; 1-8 oz. 60c; 1 oz. $4.00.

White Pansy
Pure white Giant strains, without blotches and without eye. Bulk packet 15c; 1-16 oz. 25c; 1-8 oz. 40c.

Masterpiece (New Giant Curled or Spencer Pansies). The petals are crimped, curled and fluted so that the flowers appear more or less double. Bulk packet 10c; 1-16 oz. 35c; 1-8 oz. 60c; 1 oz. $4.00.

See page 31 for Plants.

Petunias

BALCONY PETUNIAS

Balcony Petunias
A splendid free flowering variety of single Petunia; about 12 inches high; flowers average 3 inches across. Especially valuable for windows, porch boxes, vases, among rock work, terraces and equally as effective in beds and borders.

Balcony Blue—Bulk pkt. 15c; 1-16 oz. 50c.
Balcony Rose—Bulk pkt. 10c; 1-16 oz. 35c.
Balcony White—Bulk pkt. 10c; 1-16 oz. 35c.
Balcony Mixed—Bulk pkt. 10c; 1-16 oz. 25c.

SINGLE BEDDING HYBRIDA PETUNIAS

General Dodd (Hybrida)
One of the most beautiful blood red Velvety flowered Petunias among the dark and crimson colored varieties. A flower of great substance. Blooming continuously all season

Bulk packet 10c; 1-16 oz., 20c.

SINGLE GIANT FLOWERING PETUNIAS

The flowers of this strain average from 5 to 7 inches across and are wonderful.

Howard’s Star
A beautiful, free flowering strain, color crimson-maroon, with a clearly defined five-pointed star of blush-white. For bedding, baskets, vases, etc., this is exceptionally fine. Bulk pkt. 10c; 1-16 oz. 20c.

Bedding Mixture
Michael's DeLuxe, large flowering Hybrida, varieties all colors. Bulk pkt. 10c; 1-16 oz. 15c; 1-8 oz. 25c; 1 oz. $2.00.

Bedding Mixture
Michael’s DeLuxe Mixture—Giant flowering—all colors. Bulk pkt. 15c; 1-16 oz. 25c.
GENERAL LIST (In bulk)

GENERAL LIST (In bulk)

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.

Alyssum Procumbens (Carpet of Snow). This is a select strain of this sweet scented annual. It grows 2 inches high with the appearance of a flat pancake. The mass of blooms completely hide the foliage, giving the appearance of a covering of snow. Bulk pkt. 5c; 1-16 oz. 15c; 1-8 oz. 25c; ½ lb. 50c.

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. Bulk pkt. 5c; 1-16 oz. 10c.

Calendula (Officanalis). This variety has large flowers resembling in size and form the finest Aster. It blooms profusely from July until frost. Bulk pkt. 5c; 1-16 oz. 15c.

Calliopsis Showy border plant, flowers bright yellow or rich brown, either self-colored or with these colors and red contrasted. All sorts mixed. Bulk pkt. 5c; 1-16 oz. 15c.

Cosmos—Double Flowering or anemone flowered. A new creation in this beautiful late summer and autumn blooming plant, furnishing an abundance of blooms for decoration when other flowers are scarce. Bulk pkt. 10c; 1-16 oz. 25c.

Cosmos—Pink Beauty A new creation in the way of an early flowering Cosmos. Earliest of the early varieties far surpassing, in size of flowers and beauty, other extra early varieties in both earliness and effect of its double flowering blossoms. Price: Bulk pkt. 15c; 1-16 oz. 35c.

Double Flowering, White A very early blooming Cosmos. Mixed Bulk pkt. 5c; 1-16 oz. 10c.

Double Flowering, Crimson 15c; 1-16 oz. 25c.

Cypress Vine A most beautiful climber with delicate, dark green, feathery foliage, scarlet blossoms. Tender, annual. Bulk pkt. 5c; 1-16 oz. 10c.

Dusty Miller (Cinerarias) Ornamental border plant with extremely showy silvery white leaves. Bulk pkt. 10c; 1-16 oz. 25c.

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. Bulk pkt. 5c; 1-16 oz. 10c.

Four-O’Clock (Marvel of Peru). The flowers are funnel-shaped and open about all night. Will grow in any soil. Bulk pkt. 5c; 1-16 oz. 10c; 1-8 oz. 15c; 1 oz. 25c; ½ lb. 60c.

Gaillardia (Blanket Flower) See Perennials Page 20

Gypsophila A delicate free flowering plant with star shaped flowers of mist like effect. For trimming bouquets and as a edging for hanging baskets, a handsome effect. Will thrive in any well prepared ground. Also a handsome specimen of flowers dried. Mixed Colors Bulk pkt. 10c; 1-16 oz. 25c.
Helichrysum (Straw Flower). An everlasting high flower. It is an ornament to the garden and is prized for winter decorations as permanent bouquets. Bulk pkt. 10c; 1-16 oz., 15c; ½ oz. 25c.

Heliotrope Highly valued for the fragrance of their flowers and duration of bloom. Bulk packet 10c; 1-16 oz. 25c.

Hollyhocks See "Perennial Hollyhocks on page 20.

Job's Tears (Coix) Hardy annual. 3 to 3½ ft. Valuable in winter bouquets with everlasting flowers. Plant in early spring, hills 3 feet apart and 4 or 5 seeds to the hill, and cover half inch deep. Bulk pkt. 5c; 1-16 oz. 15c.

Kochia or Summer Cypress (Kochia Tricolor-blylla). A highly ornamental annual, having a cypress-like appearance. "Mexican Fire Plant" and "Burning Bush." Bulk pkt. 5c; 1-16 oz. 10c.

Larkspur Quick growing, free blooming annual with erect spikes of beautiful flowers in great profusion. Strictly an annual distinctly different from Delphinium perennial. Bulk pkt. 5c; 1-16 oz. 15c.

La France Larkspur Something new in this beautiful flower, larger, fuller, double flowering, color pleasing salmon pink, long stems, fine and attractive. Price: Bulk pkt. 20c; 1-16 oz. 40c.

Lace Flower (Didiscus Coeruleus) Beautiful Australian annual; the flower is like the Queen's lace handkerchief. Bulk pkt. 10c; 1-16 oz. 15c.

Larimar (Marroccana) This is a hardy annual with small all dainty flowers and in addition each flower has a long spur. Height from 12 to 18 inches. Price: Hybrids mixed colors, bulk pkt. 10c; 1-16 oz. 25c.

Lobelia Very compact little border plant, sheeted with blue flowers. Bulk pkt. 15c; 1-16 oz. 25c.

Marigold Old-fashioned flower blooming in profusion; usually 2 feet high; blooms till frost comes. Bulk pkt. 5c; 1-16 oz. 10c.

Marigold Old-fashioned flower; usually 2 feet high; blooms till frost comes. Bulk pkt. 5c; 1-16 oz. 10c.

Mignonette A hardy annual, producing exceedingly fragrant flowers. Seed sown in autumn will bloom early in the spring, 1½ ft. high. Bulk mixture. Mixed sorts. Bulk pkt. 5c; 1-16 oz. 10c.

Mourning Bride (Scabiosa) A half hardy plant blooming in cool places. Flowers borne on tall, slender stiff stems with fine, round, full centered form of tubular petals with feathery effect. Michael's De Luxe Mixture. Bulk pkt. 5c; 1-16 oz. 10c.

Moonflower (Noctiflora) A wonderful climber, growing rapidly to the height of 20 feet in a single season. Flowers open at sundown and like all night bloomers, has a delicious fragrance. Bulk pkt. 5c; 1-16 oz. 10c; ½ oz. 25c.

Morning Glory Handsome, showy climber, suitable for covering windows, trellises, old stumps, etc., if support be given the vines. Hardy annual. 10 feet high. Giant Japanese Mixed. Bulk pkt. 5c; 1-16 oz. 10c.

Nicotiana A handsome bedding plant of the tobacco family. Valuable for long season blooming and a very free bloomer. Hybrids mixed. Bulk pkt. 10c; 1-16 oz. 25c.

Pinks (Pentadactylum) 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. Michael's Chinese De Luxe Mixture. Bulk pkt. double, 5c; 1-16 oz. 10c. Single, 5c; 1-16 oz. 10c.

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.

SHIRLEY POPPIES. Michael's De Luxe Mixture. Bulk pkt. 5c; 1-16 oz. 10c.

AMERICAN LEGION. (Shirley type). Dazzling intense scarlet. Bulk pkt. 10c; 1-16 oz. 15c.

DOUBLE FLOWERED. Mixed. Bulk pkt. 5c; 1-16 oz. 10c.

Portulaca or Rose Moss These are but 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.

PORTULACA. Single Mixed. Bulk packet 5c; 1-16 oz. 15c; 1-8 oz. 25c.

PORTULACA. Double Mixed. Bulk packet 15c; 1-16 oz. 25c; 1-8 oz. 40c.

Phlox (Drummondii). The Phlox is the earliest and hardest of all the annuals. It occupies a most prominent place in the flower garden and produces a variety of flowers of beautiful colors, which is varied with stripes, veins and points of contrasting shades. Michael's De Luxe Mixture. Bulk pkt. 10c; 1-16 oz., 15c; 1-8 oz. 25c.

Salvia Among the most brilliant colored flowers and extremely useful for bedding. Blooms show of fiery red crimson color, continuing to flower for a long time. Height 2 to 3½ ft. See page 31 for plants. Salvia Splendens. Bulk pkt. 10c; 1-16 oz. 25c; ½ oz. 40c; oz. 82.50.

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. Bulk pkt. 5c; 1-16 oz. 10c.

Stocks To such perfection has selection brought this flower that good seed will have a large proportion of exceedingly double flowers. Average height, ½ ft. Double Mixed, Bulk pkt. 10c; 1-16 oz. 25c.

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 bloom in the fall. Hardy perennial; ½ feet high. Fine mixed single. Michael's Double De Luxe Mixture. Bulk pkt. 5c; 1-16 oz. 10c.

Snapdragon (Antirrhinum Medium). For gorgeous coloring effect, few flowers surpass the Snapdragon. Borne on long stems and very fragrant. Michael's De Luxe Mixture. Bulk pkt. 5c; 1-16 oz. 10c.

DEFIANCE. Fiery Scarlet. Medium. Bulk packet 5c; 1-16 oz. 10c.

GRENADIER. Orange Scarlet. Bulk packet 10c; 1-16 oz. 15c.

SALVIA DORA. Terracotta. Bulk packet 10c; 1-16 oz. 15c.

VERBENA. Sown in May, they will bloom in August, but if started in the house in pots in winter, they will bloom sooner. Seeds should be soaked in lake warm water before planting and care should be taken that the soil be very rich. Half hardy perennial; 3½ feet. Michael's De Luxe Mammoth Mixture Hybrids Gignita. Bulk pkt. 10c; 1-16 oz. 25c; ½ oz. 40c.

LUCIFER (Verbena). (New) Brilliant scarlet, no eye, an improved Defiance. Pkt. 10c; 1-16 oz. 25c; 1-8 oz. 40c.

FIREFLY (Verbena). Brilliant Scarlet with a white eye. Bulk pkt. 10c; 1-16 oz. 15c; 1-8 oz. 25c.
**Perennial Plant Flower Seed**

The charm of Perennial Flower Plants is that these occupants become our truest friend,—once established the flower remains as long as they are wanted, and year after year we greet them at the same time and in the same place,—each flower has its season when it buds, blooms and blossoms and finally exhausts its glory and retires for a long winter's rest. There is no phase of ornamental gardening that deserves greater study. The economical way to obtain perennials is to grow them yourself from seed; they can be planted anytime from April to July,—the earlier sown the stronger the plants or clumps will be. Few of the perennials bloom before the second year but after that by the increasing wealth of bloom.

**Aquilegia** (Columbine). The Columbine is one of the most beautiful hardy perennials producing graceful spurred flowers on 2 ft. stems. Michael's select, long spurred DeLuxe Mixture. Bulk pkt. 15c; 1-16 oz. 50c.

**Blue Mountain** (Perennial) — Something new among perennials that we have never listed before. Rich scarlet flowers borne on stems a foot high and blooms for a long season of time—June to September. **Price:** Bulk pkt. 25c.

**Campanula** (Cranberry Bells). A large flowering, beautiful and most important family for the flower garden ranging from 18 to 24 inches in height. Michael's DeLuxe Mixture. Bulk pkt. 10c; 1-16 oz. 25c.

**Carnation** (Hardy perennial variety). Some varieties of Carnation are quite hardy and with ordinary protection withstand our most severe winters. Large double floristry. Dwarf mixed. Bulk pkt. 15c; 1-16 oz. 25c. Hardy Drummond Red. Bulk pkt. 15c; 1-16 oz. 35c.

**Delphinium** (Perennial Larkspur). Few plants are so handsome in the garden as perennial Larkspur. The most important varieties are the tall hybrids with a wonderful range of color. Michael's DeLuxe Mixture of gold medal hybrid. Bulk pkt. 15c; 1-16 oz. 35c.

**Dianthus Barbatus** (Sweet William). An improvement on the old fashioned kind, color and size of flower. Michael's DeLuxe. Bulk pkt. 15c; 1-16 oz. 25c.

**Digitalis** (Fox Glove). Stately old garden favorite. For garden shrubbery borders and in suitable places, producing spires of blossoms of 3 to 5 ft. high. Michael's DeLuxe Mixture. Bulk pkt. 15c; 1-16 oz. 25c.

**Gaillardia** (Blanket Flower). An easily grown plant in ordinary garden soil; long stems and bright colors make these one of the most valuable perennials. Michael's DeLuxe new hybrids. Bulk pkt. 15c; 1-16 oz. 25c.

**Gypsophila** Graceful plants of light fairy-like growth, bearing small white sprays. Much in demand for cutting and combining with other flowers for bouquets and vases. Bulk pkt. 10c; 1-16 oz. 25c.

**Hibiscus** (Rose Mallow). A noble, hardy, shrublike plant with handsome green foliage bearing throughout the summer large brilliant flowers of many shades from 3 to 5 inches in diameter. **Price:** Bulk pkt. 15c; 1-16 oz. 25c.

**Linum** (Ornamental Flax). A graceful hardy perennial that grows about 2 feet high, with nearly white flowers. Prices: Bulk pkt. 10c.

**Lupinus Eukhuizen** A new perennial variety with dainty white flowers suffused with creamy pink. **Price:** Bulk pkt. 25c.

**Myosotis** (Forget-Me-Not) — A lovely dwarf plant for damp places, spreading rapidly and carpeting the ground; the true perennial Forget-Me-Not. Mixed kinds. Prices: Bulk pkt. 10c; 1-16 oz. 25c.


**Physalis Franchetti** (Chinese Lantern Plant). Grows 1½ ft. tall. Perennial. Flowers yellow with dark center. Produces balloon-like husks the second year from seed which turn bright red when ripe and resemble Chinese lanterns. **Price:** Bulk pkt. 10c; 1-16 oz. 25c.

**Pinks** (Hardy Garden Flower) — A very desirable, sweet-scented, low growing, early blooming and free flowering hardy garden variety. **Price:** 1-16 oz. 25c.

**Pyrethrum** Single and semi-double flowers with rolled and twisted petals. A very hardy perennial. **Price:** Bulk pkt. 25c.

**Platycodon** (Chinese Bell Flower) Very handsome border plant of the Campanula family, the flowers of which when in bud have the appearance of an inflated balloon blooming from June to September; large handsome deep blue flowers. Bulk pkt. 10c; 1-16 oz. 15c.

**Shasta Daisy, Alaska** (Chrys Lanecanthemum). A hardy perennial Daisy with flowers of the purest glistening white, borne on long stems, a splendid cut flower, good for ten days. Bulk pkt. 10c; 1-16 oz. 25c.

**Sweet Peas** (Lathyrus Latifolius) — A hardy perennial of the Sweet Pea family. A showy, free flowering, blooming all summer, decorative vine. Fine for cut flowers. Select mixture. All colors. Bulk pkt. 10c; 1-8 oz. 25c; oz. $1.25.

**Viola Florariense** This variety of violets produces a continuous profusion of bloom for a long period. Flowers pleasing shade of lavender. A rock garden perennial. **Price:** Bulk pkt. 25c.
**Hollyhocks (Althea Rosea)**

**Sioux City’s State Flower**

The Garden Club of Sioux City has selected the Hollyhock as the representative flower of Sioux City. The city council has passed an ordinance approving the action of the Garden Club and it is suggested that a festival be held when the Hollyhock is in full bloom in honor of that flower.

This old fashioned flower of our grandparents, of which the improved strains of today of this grandpa’s flower, the stately Hollyhock, makes a background of intense, glowing splendor and amphitheatre effect to the rest of the surroundings.

**SINGLE TYPE**

The Single Flowering Hollyhocks are more hardy and enduring under adverse circumstances.

- **Single Mixed Colors**: 100 seeds, 5c; 1-16 oz. 10c; 1-8 oz. 15c; 1 oz. $1.00.

**Allegheny Hollyhock** Somewhat different variety of the Single Flowering, also semi-double, with flowers 5 inches across and beautifully fringed on the edge of the petals. **Price**: 100 seeds, 10c; 1-16 oz. 15c; 1-8 oz. 25c; 1 oz. $1.75. Plant, 3 in pot, 15c each; $1.50 per dozen.

**DOUBLE TYPE**

The Double Flowering Hollyhocks are very beautiful and the flowers are large rosettes of paper like tissue and compactly layered.

- **Prices**: 100 seeds, 15c; 1-16 oz. 25c; 1-8 oz. 40c; 1 oz. $1.00.

**Annual Hollyhocks**

**Hollyhocks** (Annual), 5 feet. These Annual Hollyhocks bloom like all other annuals the first year they are planted when sown in the springtime and will be in flower in August; but if started indoors and set out in May, will bloom in July. These annuals are also perennial if left in the ground. **Everblooming single mixed**, 100 seeds, 15c; 1-16 oz. 25c; 1-8 oz. 40c; 1 oz. $1.00. **Everblooming double mixed**, 100 seeds, 15c; 1-16 oz. 25c; 1-8 oz. 40c; 1 oz. $1.00.

**Hollyhock Roots**

- **Double in colors**—15c each; per dozen, $1.50.
- **Single in colors**—15c each; per dozen $1.50.
- **Allegheny**—25c each; per dozen, $2.50.
- **Mixed Sorts**—10c each; per dozen $1.00.

**Novelties**

“New and Rare Flowers”

- **Bedding Dahlia**: This new dwarf strain makes an ideal plant for bedding purposes. The flowers are held on long stiff stems that literally break away from the ground. The flowers are single blooms of grace and beauty of flower. It can be raised from the seed and be in full bloom in a little less than three months after planting and blooms interruptedly until frost. **Prices**: Bulk pkt. 25c.

- **Coreopsis Grandiflora Fl. Pl.** (Double flowered coreopsis). This is a new variety of this well known perennial, double and semi-double forms, and is just as easy to grow as the single. The added petalage adds further charm to it and it is very valuable as a cut flower. **Price**: Bulk pkt. 15c; 1-16 oz. 25c.

- **Gaillardia—(The Dazzler)** Giant perennial Gaillardia. Flowers very large, dark rich red with bright orange tipped petals. The largest, most attractive giant red Gaillardia known. **Price**: bulk pkt. 20c; 1-16 oz. 40c.

- **Hibiscus** (Mallow Marvel). An improved strain with very large blooms measuring as much as 10 inches in diameter and more gorgeous than the hollyhock, blooming in July and August. In separate colors, labeled, crimson eye, pink, red and white roots. Each, 25c; 5 for $1.00; $2.00 per dozen.
ALFALFA AND CLOVER SEED

We furnish no guarantee either expressed or implied against sweet clover appearing in alfalfa fields, either the first or second year. Sweet clover, a cultivated crop, it grows along the highways, and often by barnyard fertilizer. It is found growing and when turned under it must lay for years. The seed is not in the seed. therefore finds its way into the

Common Alfalfa The native variety that has come down from early planting and not otherwise known which we find in Dakota, Montana and the inter-mountain country. Price per bushel, $2.50 to $5.00. Fancy to Superfine.

Dakota Grown Alfalfa

Dakota No. 12 is the Alfalfa of the common variety which has been grown in the state of South Dakota for at least twenty-five years continually, season after season. Constitutes what is known, according to the Dakota Agricultural College as Dakota No. 12 to distinguish it from that which is of the common parentage. Price: Verified Origin, $4.00 per 100 lbs.

Turkestian Alfalfa The seed of Turkestian alfalfa is imported from the high mountain region valleys of northern Turkestian, Russia. We have sold the seed of this variety for thirty years; have many patrons who claim that it has the greatest winter endurance of any variety they have ever used, surpassing Grimm, Cossack and Dakota Common. Martin Uhl, Woodbury County, Iowa, says his seeding of Turkestian Alfalfa lasted fifteen to twenty years and made annually three to four crops of hay; Thos. Sullivan, Dakota County, Nebraska, on bottom land along the Missouri River, says it surpasses any other variety for winter endurance and yield; E. H. Scholemann, Blue Earth County, Minnesota, sowed 2 bushels spring of 1911, same still yielding good crops of hay, coming through winters that have destroyed his fields of Grimm and Cossack; likewise sayeth many others. Subject stocks on hand unsold.

PRICE: Verified origin, Superfine Seed. Per bushel $16.00; $25.00 per hundred.

SWEET CLOVER IN ALFALFA

SWEET CLOVER SEED

Common White (Biennial) Preferred where denser foliage is desired as humus matter in connection with fertilizing or heavy coarse forage. It makes a splendid pasture as well as hay crop when the latter is harvested at the right time. Price $4.50 to $5.00 per bu. Fancy to Superfine.

Common Yellow (Biennial) Preferred where one straight tap root. denser foliage is desired as a hay proposition and is said to be equal to the Common White as a pasture proposition. Price: $4.00 to $4.75 per bushel. Fancy to Superfine.

RED, ALSIKE AND WHITE CLOVER

Alfalfa and Clover Tag. See Prices below for Nitragin culture, inoculation for alfalfa, Sweet Clover and other legumes.

SWEET CLOVER IN ALFALFA

SWEET CLOVER SEED

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 lies in sowing with other clover and grasses. Sow in spring or fall at the rate of 10 pounds per acre when used alone. Fancy seed, $9.00 to $12.00 per bushel.

White Clover A small perennial variety valuable for pasturage and for lawns. It acclimates itself to different soils and can be grown anywhere. Per lb. 50c; price per 100 lbs. $30.00 to $40.00.

Nitratin Original soil inoculant. Restores and maintains fertility. Price: 1 bu. size pkg., $1.00 each; 5 bushel size, each $4.75.
BROMUS INERMIS (Awnless Brome)

This is one of the hardiest varieties of cultivated grasses. The latest to lose its luscious green foliage as the winter comes on and first to carpet the ground with a coat of green when the breath of springtime awakens plant life. Of Russian origin and has deep, dense roots that make a powerful sod. Stands extremes of heat and cold far better than most any other grass known. A protection against washing on terraces by streams or river banks. Highly recommended for our semi-arid region of the west as well as moisture climates. It grows with wonderful rapidity. Density of foliage at the base, making a luxurious lawn floor grass and is used as a hay crop as well. Analysis of its feeding properties show it is rich in flesh forming ingredients. Seed is light and fluffy, weighing 14 lbs. to the bushel. Sown at the rate of 15 to 20 lbs. per acre, either in early springtime or late summer, early fall. Price; Superfine Seed (quack-free), per lb. postpaid 25c; per bu. of 14 lbs. $3.03; $20.00 per 100. Burlap bags free.

**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 blossoms 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. Price Superfine Quality, $3.75 per bu.; 10 bushel lots $3.50 per bushel.

**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. About 15 lbs. per acre. Best seed, per lb. postpaid, 35c; per 100 lbs. $20.00. Burlap bags free.

**Bent Grass (Called Creeping Bent)** A variety of perennial grass that stands in high favor as a golf putting green grass and also for lawns. Sow at the rate of 1 lb. to 300 square feet. It makes a fine close turf of excellent color and adapts itself readily to any soil, particularly acid. Price: Per lb. $1.00; 5 lbs. $4.00.

**Red Top**

Red Top. This grass is especially suited to low, wet, spotty lands. Stands our northern winters, can be sown on wet land without cultivation. Into the wet soil it spreads its net-work of roots, tames the land, and in a few years makes a deep, substantial sod. Sow 10 pounds per acre. Fancy solid seed, per lb. 25c; postpaid; per 100 lbs. $17.50. Cotton bags extra, 50c each. Can be returned.

**Perennial 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 pasture as other 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. Lb. postpaid 35c; per 10 lbs. $2.00; per 100 lbs. $15.00. 300 lbs. lots, $12.50 per 100; 500 lbs. lots, $13.00 per 100. Burlap bags free.

**PACIFIC IRISH RYE GRASS**—A shorter growing variety that sprouts and grows quicker than most any other variety of grass, much better suited for lawn work than the perennial or native rye grasses. A very dark beautiful grass with a sheen-like effect. It is an ideal rye grass to sow with either blue grass or white clover for lawn purposes. Price: Per lb. 35c; 5 lbs. $1.50; 10 lbs. $2.50.

**HIGHLAND PASTURE MIXTURE**—Blended from the most powerful rooted grasses grown. Price; Per 100 lbs. $12.50; 25 lbs. at 100 lb. rates. Burlap bags gross for net, no charge for bags. Twenty to twenty-five lbs. per acre is recommended, though some people sow even less and yet some sow more.

**HOG PASTURE MIXTURE**—Blended from the most powerful rooted grasses grown. Price; Per 100 lbs. $12.50; 25 lbs. at 100 lb. rates. Burlap bags gross for net, no charge for bags. Twenty to twenty-five lbs. per acre is recommended, though some people sow even less and yet some sow more.
VELVET—This barley is a smooth bearded variety, the result of a cross between the smooth awned barley and the Manchurian six rowed type of bearded barley. In the velvet barley are combined the good characters of the smooth variety and the rust resistance and hardy nature of the Six-rowed. It has also been one of the highest yielding varieties in cultivation. Experimental results with this variety show it to be resistant to attacks of "spot blotch" (Helminthosporium sativum). This variety, wherever it has been introduced, has made a great hit with barley growers who use it. The beards are soft and pliable when it is ripe which does away with the necessity of the common kind.

Price: $1.00 per bu.; 10 to 20 bus., 90c per bu.; special prices in larger quantities....All prices subject to hands on stock of orders and market changes.

Wisconsin Experimental Station's pedigreed strain Velvet Barley, originator's seed stock, from registered field, $2.00 per bushel.

**Velvet Barley**

Smooth bearded variety.

**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 produces a good crop. Price 75c; 100 lbs. $4.50.

**Winter Rye**

ROSEN RYE. This is a variety of recent introduction by the Michigan Agricultural College. It is a stiff-strawed, hardy, white winter variety of wide adaptation. It is developed from Russian parentage. Has large, white kernels, yielding in abundance: 1 bushel per acre; 10 to 20 bushel lots, $1.10 per bu.; 25 to 50 bushels, $1.00 per bu. in cotton American grain bags. Bags extra 40c each, which can be returned and cost refunded.

**Common Barley**

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 better sorts. This is a good standard sort.

**Ruby Spring Wheat**

A new variety of wheat introduced recently which has given unqualified satisfaction whenever it has been grown. It is somewhat similar to the ordinary garden pea, but make longer vines and more pods. They may be cut and cured for hay or let ripen and threshed like small grain. Price subject to change per lb. 10c; per 100 lbs. $8.50.

**Speltz**

SPRING EMMER. A grain especially suited to dry lands. Being semi-hardy, it can be sown very early in the spring like oats. Emmer grows best in the dry prairie regions with hot summers, and even does well in poor or stoney ground. It is a better drought and rust resister than either Oats or Barley, and it also yields considerably more. The feeding value is high. Sow 1½ bu. to acre; bushel lots, $2.50 per bu.; 10 to 30 bus., 225c per bu.; 35 to 50 bushels, $1.00 per bu.; 50 to 100 bu. 65c per bushel.

**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 may be cut and cured for hay or let ripen and threshed like small grain. Price subject to change per lb. 10c; per 100 lbs. $8.50.

**White Kaffir Corn**

Makes the best kind of fodder for cattle or horses, and is easily grown. The seed is splendid for poultry.

**Milo Maize**

Grows from 5 to 7 feet high, stooling from the ground, sending out heads of great size, often weighing three-quarters of a pound, sometimes a full pound after ripe. Cattle, horses and hogs will eat it readily. Tests show that during the severe drouth corn dried up within a few feet of it. Five to ten lbs. will seed an acre in rows, or half bushel broadcast. Price per 100 lbs. $3.50.

**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, yielding Kaffir by far and is little affected by drouth. Per bu. $2.50. Regular White or Red Kaffir Corn at $1.75 per bu.
Prices subject to market change.

Soy Beans

Northern Grown. Valuable for hay or soil ing 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. When planted after corn in rows 2 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 planted from planter attachment with corn 1 bushel plants about 8 acres. When grown for hay, it is preferable to plant the rows closer together or sow broadcast, at the rate of 40 lbs. per acre.

MANCHU. Iowa grown, half peck, 55c; peck $1.25; bu. $2.50. Burlap bags free. American cotton grain bags extra, 50¢ each, holding 2½ bushels.

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 Northern grown Certified Seed or broadcasting, 15 to 20 pounds per acre. 100 lbs. for $7.50. Bags extra, 50¢ each, holding 2½ bushels.

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. 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: $1.75 per bushel; 5 bushel, $7.50. Bags extra, 50¢ each, holding 2½ bushels.

German Millet

Pure German 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: $1.75 per bushel; 5 bushel, $7.50. Bags extra, 50¢ each, holding 2½ bushels.

SEED POTATOES

All These Prices Subject to Market Changes

POTATO BASKET

This basket affords an easy and effective way of applying Dip Dust by filling the basket with potatoes and immersing them in the preparation. In addition to playing a necessary part for dipping seed potatoes, it is a handy basket for gathering potatoes in the field and general purposes around the farm. Made of heavy wire which is woven and reinforced by a heavy frame. Price: per ½ bushel basket, $1.00.

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 per bu. $3.00.

Carman No. 3 This potato is of large and uniform size, yielding im¬mense 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 bu. $2.75.

SEED SWEET POTATOES

The potatoes should be planted in a well prepared hot-bed. We can offer Yellow Jersey (the most popular Northern sort). Pound 15c; 15 pounds $1.25; per measured bushel, $2.50. Write for special prices on quantity. We grow sweet potato plants. Price per 100, 75c; 500, $3.75; per 1000, $6.00.
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. American Cotton grain bags extra, 50c each. Burlap bags free. Today's prices, Dec. 1, 1926

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

Reid's Improved Early Yellow Dent

This particular strain of Reid’s Yellow Dent corn is known in this locality as the Forb strain. It was bred up by selection for some 8 or 10 years for earliness until the early feature for this climate was thoroughly established and has taken the first prize for Reid’s corn for well matured earliness, at the Nebraska State Fair for some 4 or 5 years and the best strain without question of that well known sort for the climatic condition of northwestern Iowa and surrounding country, that has ever been developed. It has a rich golden color. The ears are 9 to 11 inches long, 18 to 24 rows of kernels, each containing 50 to 60 grains. The cob is small completely covered from end to end with solid deep kernels of corn. The kernels are rather narrow, medium in thickness, knit very closely together on the cob with no lost space between the rows and of all corn grown in this part of the country, it is the easiest to shuck. Price per bushel, shelled, $3.50; 5 bushels, $16.00; 10 bu. $30.00, select ears, on ear $4.00. Today’s prices, December 1, 1927.

Yellow Hammer Early Dent Corn

This variety is early as 90 days or less, yellow field corn, is one of the most surprising varieties of that kind that we have ever come in touch with. It is an immense yielder for another variety of field corn. The ears are not large, nor are the kernels as deep as later varieties, but the ear is fair sized for an early sort and the kernels are deeper than the kernels of Flint corn. The color is a rich attractive yellow and makes a most popular sort. The stalks are not large but stout and stocky and can be planted closer in the row than other sorts and has been known to yield in favorable seasons, as much as the rate of 75 bushels to the acre. Can be planted the latest in the season of any variety we know of and yet matured before the frost comes in early September. Price per bu. shelled, $3.50; 5 bu. $15.00; select ears, on ear, $4.00 per bu. Dec. 1, 1927, price.

Krug Corn

This variety of corn is a late introduction originated in Illinois, propagated and first bred by a man by the name of Krug. It is similar to Reid’s Yellow Dent, though not so dented but of a more solid kernel with a slight dent. In the state wide corn yield contests, both Iowa and Illinois, this variety seems to be the outstanding type. Over a period of several years it has consistently out yielded other varieties of yellow corn. In middle and northern Iowa it matures in 90 to 100 days. Price: per bushel, $4.00.

Iowa Silver Mine
Iowa Silver Mine. Per bu. shelled, $3.50.

Wimples’ Yellow Dent
Wimples’ Yellow Dent. Price per bu. $3.50; 5 bushels. $16.00.

Improved Murdock Corn
Michael’s Early Murdock. Price per bu. $3.50.

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.
DEPARTMENT OF BULBS, ROOTS AND FLOWERING PLANTS

**Peonies**

Peonies—Peonies will grow and do well anywhere any plant will grow. Give them a deep, rich soil, plenty of barnyard manure, or better still, manure from the hen house. The Peony, once planted, lasts a generation and grows better every year.

**Edulis Superba** Exceedingly fine, vivid rose-colored flowers, full center very compact, very early. The best fragrant rose-colored peony, 3 to 5 eye roots. **Prices:** 35c each; 3 for $1.00.

**Felix Crouse.** The ideal self-colored red Peony; large, globular and compact, a strong, vigorous grower. 3 to 5 eye roots. **Price:** 75c each; 3 for $2.00.

**Karl Rosenfeldt** Brilliant dark crimson. Strong heavy foliage with stiff stems. One of the best of all the red varieties and has all the points of perfection. **Price each:** $1.00.

**Rubra Superba** Rich brilliant, deep crimson without center. Fragrant, large clump flowers. Good bloomer and choice cut flower; tall and graceful. Very late, June 13th. 36 inches high. Three to 5 eye roots, 75c each; 2 for $1.35; $8.00 per dozen.

**Festiva Maxima** The plant has every point of perfection. Most healthy and powerful grower of any variety. The pure white flower is flecked with crimson in the center. 3 to 5 eye roots, 40c each; 3 for $1.00; $4.00 per doz.

As a home flower nothing equals the Dahlia. Plant the roots 2 feet apart, about 4 inches deep, lay them flat on side.


**Mrs. Carl Salbach** (Dec.)—Extra large and full to the center. Stems are exceptionally long, holding the flower erect. Color, soft lavender-pink. Each, 50c.

**Mrs. I. De Ver Warner** (Decorative) — Very large perfect flower, deep mauve pink on stout stems. Strong grower and free bloomer. One of the best Dahlias in cultivation. Each, 50c.

**Jersey Beauty** Beautiful large pink flower of perfect form. Early and free flowering, continuing to the end of the season. Each, 50c.

**J. D. Long** Flowers full and well formed. Stems long and rigid. Color, autumn tints; salmon pink, amber and bronze. **Price:** Each, 75c.

**Rosa Nell** (Dec.)—This 100% Dahlia is immense; stem very long. Color, bright rose and with all a good keeper. Each, 50c.

**The Grizzly** (Dec.)—One of the very best novelties. A great dark velvety maroon beauty. Flowers of immense size on extra strong stems. This is a wonderful prize winning dahlia. **Price:** Each, 75c.

**Washington City** (Hybrid Cactus) — An immense white flower that has few, if any, equals. Flowers from 8 to 9 inches and of purest white. Each, 75c.

**Mrs. Thos. Burch** (Dec.)—Flowers old gold with pink markings. Best of the tinted variety.

**Delice** (Dec.)—Flowers rich rose pink. Perfect shape. On stout stiff stems.

**Von Heemstede** (Dec.)—Flowers large rich yellow. Excellent keeper.

**Manitou** (Dec.)—Extra large flower. Clear purple. One of the best purples.

**Moonbeam** (Dec.)—Flowers clear canary yellow. One of the best of the kind. Good keeper.

**Moore** (Dec.)—Mammoth flowers in profusion, deep velvety maroon.

**Oregon** (Cactus)—Flower American Beauty red, borne on long stems.

**Perkins** (Show)—Large pure white flowers. Free bloomer. Excellent for cutting.

**Perle De Lyon** Large Cactus. Cleft petals. Pure white.

**Rawson** (Dec.)—Exceptional flower, white overlaid with lavender.

**Souv. Douzon** (Dec.)—Immensely red flower, flat petals, full to center.

**Stradella** (Dec.)—Large purple flower, rounded and full.

Above mentioned varieties not priced: 25c each; $2.50 per dozen; $15.00 per 100.

**Mixed Dahlias** Specialist Stock. Various colors and kinds. Each, 15c; per dozen $1.25. Native stock, 10c each; 75c per doz.
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.

King Humbert (4 ft.) Bronze foliage. Velvety, orange scarlet, flecked carmine, heart-shaped ears of a deep purple. Price: Per root, 15c each; doz. $1.25.

Beacon (4 to 4½ ft.) Heavy, lateral growing flowers of true orange. Flowers of a rich cardinal. Per root, 12½ each; 3 for 30c; dozen, $1.00.

Wyoming (7 ft.) Purple foliage. One of the finest new Canna. Blossoms orange colored. True Orchid shape, with large, rounded petals. Per root, 10c; doz., $1.00.

Queen Helen (Yellow Humbert) 4 ft. Identical with bronze King Humbert in growth. Flowers pure yellow, sometimes dotted with red. The foliage rich green. Per root, 15c each; $1.25 per dozen.

The President The best new Canna yet introduced. Flowers a glowing scarlet of immense size; foliage rich green, broad leaf of lateral growing habit, 4 ft. high. Roots 1½ each; $1.50 each; dozen, $10.00.

Musafolia (8 ft.) Green foliage with Bronze border. Grown for foliage only, used for screens and backgrounds. Per root, 5c; dozen, 50c; 100, $5.00.

Gladiolus Bulbs

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. We quote only first size, first quality bulbs.

America Soft lavender pink, very light. Large, spreading blooms, immense flowers, first size bulb. 5c each; 1 dozen, 40c; per 100, $3.00.

Baron Hulot The leading purple variety. First size bulbs. Each, 10c; doz., $1.00.

Empress of India Dark, blackish-red, the darkest of all Gladiolus, an extremely rich, first size bulb. Each, 10c; doz., $1.00; 100, $7.50.

Herada New and elegant. The blooms are pure mauve, glistening and clear. First size bulbs 10c each; $1.00 per dozen.

Le Marethal Foch Very delicate pink. A seedling of “America.” flowers twice the size of parent. First size bulbs 10c each; $1.00 dozen.

L’Immaculée Pure white. One of the very good whites. Large flower. First size bulbs. Each, 15c; dozen, $1.25; per 100, $9.00.

Mrs. Frances King Effective flower spike with buds continually opening. Flower 4½ in., vermilion scarlet. Each, 5c; doz., 50c; 100, $3.05.

Mrs. Frank Pendleton One of the most exquisitely colored. The color is a delicately flushed salmon pink, first size bulb. Each, 10c; dozen, $1.00; per 100, $7.00.

Mrs. Watt Glowing American Beauty shade of wine-red. Well open flowers on an erect spike. First size bulb 10c each; $1.00 per dozen.

Niagara Color flower canary yellow. The throat is splashed with carmine, first size bulb. Each, 5c; dozen, $1.00; 50c per 100.

Panama A new seedling of America, a much deeper pink. Spike long, flowers are large, first size bulb. Each, 7½; dozen, $7.50 per 100.

Princes The color is brilliant scarlet crimson, white blotches on the lower petals, first size bulb. Each, 10c; per dozen, $1.00.

Purple Glory Ruffled petals, velvety maroon-red, black blotches. First size bulbs. Each, 20c; dozen, $2.00; per 100, $12.50.

Ruffled Glory Salmon pink with crimson stripes in the center of lower petal Each petal ruffled. First size bulbs. Each, 15c; dozen, $1.50; 100, $9.00.

Scarlet Princes Massive princes-like blossoms, throat a little deeper red. Very fine variety. First size bulbs... Each, 10c; dozen, $1.00 per dozen, $7.50.

Schwaben Clear canary yellow with a touch of dark red in the throat, a popular Glad. First size bulbs 10c each; 75c per dozen.

Canna Plants (Potted)

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 4 in. pots having 2 to 5 leaves on them by the 10th, when they can be planted outdoors.

Per Doz.

Wyoming, Tall bronze, orange orchid flower grown in 4 in. pot .................................. 2.25

Beacon, Dwarf Green, red orchid flower, grown in 4 in. pot .................................. 3.00

Humbert, Dwarf Bronze orange scarlet flower grown in 4 in. pot .................................. 3.00

President, Dwarf green, scarlet orchid flower grown in 4 in. pot. Each, 35c ............... 3.00

Queen Helen, Medium size yellow green flower grown in 4 in. pot. Each, 25c ............. 3.00

Musafolia, Tall, green foliage, small red flower grown in 4 in. pot, foliage effect only .................................. 2.50

Ruffled Mixture All colors and shades of the ruffled varieties. First size bulbs. Each, 15c; dozen, $1.50.

Jumbo Mixture Largest size bulbs of the best large bulb varieties. Attrac- size bulbs. Each 5c; doz. 50c; 100, $3.00.

Native Mixtures. All kinds home-raised bulbs. Dozen 25¢; $1.50 per 100.
PERENNIAL PLANTS

For a continuous season of flowering from early springtime until late into the autumn the various perennials furnish a continual blooming season, requiring very little attention and protection.

Alyssum Large, handsome orange yellow flowers. Price: 25c each; 2 for 30c; $3.00 per dozen.

Bellis (Flower). Each, 50c; dozen, $3.00.

Chrysanthemum Hardy variety. Primary blooming in July. Price: 50c each; 5 for $2.50; $3.00 per dozen.

Columbine (Columbine). Each, 25c; dozen, $2.50.

Coreopsis Large clumps. Each, 5c; dozen, $2.50.

Delphinium (Hardy Larkspur). Few plants are so handsome as perennial Larkspurs. Each, 25c; dozen, $2.50.

Dianthus (Dianthus). The flower color is in a vast array of shades, from deep red to delicate shades of pink and white. Price: 25c each; 2 for 30c; $3.00 per dozen.

Digitalis (Foxglove). Stately old garden favorite. Price: 25c each; 2 for 30c; $3.00 per dozen.

Gaillardia A showy flower. Petals scarlet-orange to crimson. Each, 25c; dozen, $2.50.

Gypsophila (Baby’s Breath)—Paniculata. Double pinkish white flowers. Price: 75c each; 3 for $2.00.

Heliopsis Hardy Zinnia. Yellow flowers. August bloomer. Price: 20c each; $2.00 per dozen.

Heliopsis Hardy Zinnia. Yellow flowers. August bloomer. Price: 20c each; $2.00 per dozen.

Oriental Poppy No flower is more attractive in full bloom than the perennial poppy. Price: 25c each; $2.50 per dozen.

Perennial Sweet Pea An everlasting bloomer. Price: 20c each, doz. $2.00.

Pyrethrum (Painted Daisy)—Hybridum Roseum. Earliest and latest flower. Price: 20c each; $2.00 per dozen.

Scabiosa Perennial morning glory. Cushion flower. Price: 25c each; $2.50 per dozen.

Shasta Daisies Immense white flowers; best daisy. Each, 25c; dozen, $2.75.

Yucca Evergreen foliage. Useful in landscape work. Price: 20c each; $2.00 per dozen.

Mixed Phlox All colors. Price: 10c each; $1.00 per dozen.

HARDY PHLOX

Hardy Phlox, with its range of bright colors, is decoration. Exceedingly hardy and once planted requires no further attention and protection.

Beacon A very bright cherry red. Price: 25c each; $2.50 per dozen.

Commander Beautiful crimson red with darker eye. Price: 35c each; doz. $3.00.

Lassburg Splendid white. Very large flowers. Price: 20c each; $2.00 per dozen.

Miss Lingard Pure white. Earliest of all. Blooms all summer. Price, 25c each; $2.50 per dozen.

Enchantress Bright salmon pink with dark eye. Price: 25c each; $2.50 per dozen.

HARDY LILY BULBS

Planted in spring. Bloom mid-summer several weeks later when planted in the autumn. They are veracious feeders and need good rich soil enriched with bone meal.

Lilies

Album Most popular of all the pure white Lilies. Each, 30c; per dozen, $3.00.

Auratum Gold (Faded Lily). The grandest of all hardy lilies. Each, 40c; doz. $4.00.

Candidum (Madonna Lily). Snow white, delightful fragrance. Each, 25c; $2.50.

Croceum Alpine mountain Lily. Flower bright orange; long lived. Price: 50c each.

Elegans (Fire Lily)—A showy Japanese lily flowering in June. Cup shaped red flowers. Price: $1.00 each; $1.25 per dozen.

Funkia Each, 15c; six for 75c; per dozen, $1.25.

Clumps, each, 35c.

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

Phlomphyrum Tallest lily, 7 to 10 feet. Flowering like Auratum. Price: Mammoth bulbs, 75c each; $2.00 per dozen.

Regale (Royal Lily) Immense blooms, white shaded with pink. Very beautiful bulbs. 50c each.

Rubrum Enormous flowers; pure white crimson stripe. Each, 35c; dozen, $4.00.

Superbium Turk’s Cap, bright orange, dark purple spots. Each, 20c; doz. $2.25.

Tenuifolium Brightest of all lilies. Coral red flowers. Price: 25c each; $3.00 per dozen.

Tigrinum (Tiger Lily). Single and hardy native Lily. Each, 25c; per dozen, $1.50.

Tigrinum (Double Tiger Lily). Rich orange blossom. Each, 25c; per dozen, $2.50.

Umbellatum The Erectum of this class, only one desirable. Price: 50c each.

Not Hardy

Begonias For brilliancy of color few plants compare with the tuberous-rooted Begonias. Single or double. 25c each; doz. $2.50.

Elephant’s Ear Hardy tropic-looking plant, will produce enormous leaves. Height, 4 to 5 feet. Fair sized bulbs, each, 15c; medium sized bulbs, 25c; monster giant bulbs, 50c each.

Surf roses This is one of the bulbs all should have. Synonym of sweetness and purity. Price: Each, 5c; 2 for 9c.

Chrysanthemums

HARDY OUTDOOR VARIETIES

Eva An early bloomer with a deep pink flower, dwarf variety in its habit of growth.

Golden Glow A large, showy plant six feet tall resembling yellow Chrysanthemums. Each, 15c; dozen, $1.50.


Profusion Hardiest of all. Pink. Price: 15c each; $1.00 per dozen.

Seven Oaks Earliest and longest season. Begins blooming in July.

Snow Clad A pure white flower variety that blooms in September. Varieties described and not priced. Each, 25c; 5 for $1.00; per dozen, $2.25.

Can furnish many other varieties not mentioned. See page 20 for perennial flower seed.
Hardy Irises

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.

Alcazar 3 feet. S. violet; F. purple. Throat veined. Each, 25c; each dozen, $1.00.
Ambassadeur 3 feet. S. purple; F. lip maroon. Beards yellow. Each, 50c; per dozen, $3.00.
Archeveque 2 feet. S. purple; F. violet. Each, 25c; per dozen, $1.25.
Darwin 2 feet. Pure white. Best of all whites. Each, 10c; per dozen, $1.00.
Dream 3 feet. Even color. Charming pink. Each, 50c; per dozen, $3.50.
Kochi 2½ feet. Rich dark purple (nearly black). Each, 15c; per dozen, $1.50.
Lohengrin 2½ feet. S. and F. uniform lilac. Each, 15c; per dozen, $1.25.

Water Lilies and Aquatics

One of the most interesting things we can cultivate in the yard is a pond of water lilies or a small pool, or yet even in a tub, with aquatic plants and fish for an added attraction. Especially is this true with the immense leaves and beautiful flowers of the gorgeous Nymphaeas and Nelumbium Water Lilies.

The depth of the water varies from a few inches to four feet. The Hardy Nymphaeas, however, will give the best results if only covered by 12 inches of water during the summer months.

All quotations are based on delivery not sooner than the first of June.

Hardy Nymphaeas Water Lilies

**Water Lily, White** (Castalia odorata)—A well known white flowering variety with fragrant, sweet scented blossoms. Four inch tubers, spring and early summer delivery. Each 50c; 6 for $2.50; per dozen $4.50.

**Water Lily, Lemon** (Nuphar advena)—A well known variety of water lilies with yellow flowers that is common in most of the waters where yellow water lilies grow. A great deer and moose food. Seed is eaten by ducks. Spring and early summer delivery. Tubers, 25c each; 6 for $3.00; per dozen $5.00. Seed for fall planting only—per oz. 75c; 3 oz. $2.00; per lb. $6.00.

**Water Lily, Helen Fowler** A natural cross of Nymphaeas Tuberosa; strong vigorous growth, flowers borne on stout stems making it useful for cut flower purposes. Deep pink and very fragrant. Tubers, $1.50 each; 2 for $2.50.

**Water Lily, American Lotus** (Nelumbo lutea). A rare and beautiful plant. Creamy yellow flowers 8 to 10 inches across. Adapted to lakes, ponds and sloughs and grown as well in tubs. Tubers, $2.00 each. Potted plants, $3.00 each. Seed per oz. 25c; ½ lb. 75c; per lb. $1.50.

**Lotus or Nelumbium Water Lily**

**Water Lily, Speciosus** (Egyptian Lotus). The best known variety and the easiest to grow, desirable for naturalizing in ponds where the magnificent foliage and flowers produce a splendid subtropical effect. Flowers deep rose color, creamy-white at base of petals. Tubers each, $2.50.

**Aquatic Duck Food**

**Wild Rice** Giant, attractive clumps and back ground for water gardens, sure growing, large grain variety seed. Adapted to lakes, ponds and sloughs and grown as well in tubs. Tubers, $2.00 each. Potted plants, $3.00 each. Seed per oz. 25c; ½ lb. 75c; per lb. $1.50.

**Wild Celery** Unfailing attraction for wild ducks. Best fishing where it grows. Provides food and shelter and keeps the water fresh and clear. Submerse plant. Water buds

**Water Hyacinth** (Eichornia crassipes major.)—Lily. Bright green leaves, the stems of which are expanded, which serve as air chambers. Orchid-like flowers of lavender. Hyacinths are merely floatings, and do not need to touch the bottom soil. Just set the plants on top of the water in protected places. Price each, 50c; 3 for $1.00; per dozen, $2.75.

**Floating Heart** (Nymphoides peltatum)—Has floating leaves, produces brilliant flowers quite freely. Well adapted to shallow water. Price: each, 15c; per dozen, $1.50.

**Banana Lily** (Castalia mexicana) Handsome, lemon colored flowers. Very attractive as a duck food. Tubers, each, 50c; 6 for $2.50; per dozen, $4.50.
Plant Department

Flowering and Foliage Plants

Price: Per dozen, 25c; per 100, $1.50; per 1000, $12.00; 250 trial package with garden setter, $4.00.

Hotkap Setter
50c each

FOR BEDDING, WINDOWBOXES AND VASES

Aster Plants
Potted plants, dozen, 50c; basket with earth, dozen 50c; in bulk 50c for $1.25; per 100, $2.00.

Coleus Plants
For border work. Self colors or variegated foliage. Price:

Dusty Miller Plants
Foliage only; border plant. Price 2½ in. pots, dozen 85c; baskets, 12, 50c.

Geraniums

Lobelia Plants
Vases and border work; blue flower. Price, 2½ inch pots, dozen, $1.00.

Pansy Plants
Potted, 2½ inch pots, dozen, 50c; baskets, 12, 50c.

Petunia Plants
Single fringed flowers. Price, 2½ inch pots, each, 50c; dozen, $2.50.

Verbena Plants
Creeping annual, scores of fine flowers. Price: All colors, 2½-inch pots, dozen, 75c; growing in basket, dozen, 50c.

Hanging Baskets
All filled with plants. Each, $2.50 and $3.00.

Wire Baskets
Empty. Price 14 inch size. 50 cents.

Green Sheet Moss
For lining. Price, per lb. 35 cents.

GERANIUMS

Prices do not include pots.

Geranium Plants
The grandest of all bedding plants. Double flowering dark red, pink and white; potted plants only in full bloom. While grown in pots plants are taken out with ball of dirt and wrapped for shipping.

S. A. Nutt, dark red, 3 inch pots, per doz. $2.40.
S. A. Nutt, dark red, 4 inch pots, per doz. $3.00.
Rickert, light red, 4 inch pots, per doz. $3.00.
Perkins, ideal pink, 4 inch pots, per doz. $3.00.
Poitevine, salmon pink, 4 inch pots, per doz. $3.50.
Buchner, white, 4 inch pots, per doz. $3.00.
Apple Blossom, 4 inch pots, per doz. $3.50.

Madame Solleoli, variegated foliage, 3 inch pots, Border geranium, 15 each, per doz. $1.00.

Salvia Plants
Scarlet flower on long spikes lasting all summer. Price: 2½ inch pots, dozen, 75c; 4 inch pots, dozen, $2.50; basket of dozen, 50c.

Sprengeri (Emerald Feather). Green foliage. Price: 3 inch pots, dozen $2.50; 4 inch, 25c each; dozen, $3.50.

Vinca Vines
Variegated foliage hanging baskets. Price: 2½ inch pots, dozen, $1.75; 3 inch pots, dozen, $2.25; 4 inch 25c each; per dozen, $3.00.

Vegetable Plants

Vegetable plants and roots in season, well grown and packed to carry by either express or parcel post for long distance. Frost proof cabbage plants ready for shipment last half of March. Frost proof tomato plants ready for shipment two weeks later. Home raised cabbage plants, grown in out-door frames under glass, ready for shipment April 15th. Home raised tomato plants about ten days to two weeks later. Prices quoted subject to stocks on hand and change without notice.

Cabbage Plants
Frost proof, field grown: 60c per 100; $5.00 per 1000; 5000. Transplanted, home grown out-doors under glass, $1.00 per 103; $7.50 per 1000.

We grow large quantities of Vegetable plants and Roots, both at home and in the South. Well grown and packed to carry a long distance. All prices subject to season conditions, stocks on hand and change from time to time in season.

Cauliflower Plants
Early Snowball. Transplanted. Dozen, 25c; 100, $1.75.

Celery Plants
Ready May 10th. Seedlings. Per 100, 75c; Transplanted; per 100, $1.50.

Egg Plants
Basket earth, 50c. Potted plants, dozen, 60c; in bulk, per 100, $2.00.

Pepper Plants
Bulk. Doz. 25c; basket, doz. 50c; in bulk, per 100, $2.00.

Sweet Potato Plants
Ready about May 5th. Yellow Jersey plants. Price: 100 plants, 75c; 500, $2.25; 1000, $6.00.

Vegetable PLANT ROOTS

Asparagus Roots
Crowns should be set early in spring or late in fall. Mammoth White or Green Palmetto. Doz. 25c; 100, $1.25.

Martha Washington
Developed by U. S. Department of Agriculture. Immune to rust; long, tender shoots of unexcelled table quality. 35c per doz.; 2.03 per 100.

Rhubarb or Pie Plant
Root division of 2 to 3 eyes. Each 15c; per dozen $1.00.

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

Write for prices in large quantities.
GARDEN, FIELD, AND FLOWER SEEDS, PLANTS, BULBS AND NURSERY STOCK

NURSERY DEPARTMENT

Price quoted after the description of each variety, 50c each. For hardy well adapted varieties, grafted trees, specimen stock, Iowa grown, 2 year old tops, 5 feet and up to 11-16 to 1 inch caliper size trees.

We further quote any variety in quantity except new apples as follows: 3 trees for $1.50; 10 trees for $4.00; 50 trees for $18.00; 35.00 per 100.

Smaller trees f. o. b. Iowa growing station only, 3 to 4 feet trees, 2 year roots, 1 year tops. Bales of 10 trees: $2.50 per bale; 3 bales for $6.00; 10 bales 190 trees for $15.00. Buyers selection of varieties except new apples. Subject stocks unsold.

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, with electricity as a salesroom 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 that is not well protected after it is dug in the spring time and before it is planted.

New Apples

SUMMER AND WINTER VARIETIES

Anoka
The Anoka is the earliest and heaviest bearing apple in the world, beginning to bear the second year after planting. An annual bearer which bears on one year wood. It was originated by Prof. Hansen of the South Dakota State College as an apple for the central northwest. Price: Each, $1.00; 3 for $2.50.

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. 5 to 6 ft. trees, 50c each.

Delicious
The Delicious originated 20 years ago at Peru, Madison Co., Iowa. The original tree still flourishes, bearing an annual crop 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, and delicious. Good keeper, coming out of storage in March or April in perfect condition. 5 to 6 ft. select trees, only specimen stock. 50c each.

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 ft. trees, 50c each.

Arkansas Black
This is an apple that has lately come to the attention of fruit growers on account of its value as a commercial variety and its remarkable attractive appearance. The tree is vigorous, upright growth. Fruit large, fine flavored, beautiful dark color—almost black; flesh yellow; taste sub-acid; and very crisp and one of the greatest keepers retaining its crispness to the end of the season. Fine for eating in its natural form at the same time one of the best for cooking purposes. 5 to 6 ft. trees, 50c each.

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. Budded stock, specimen trees, 5 to 6 ft. 50c each; 6 for $2.50.

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. 5 to 6 feet trees. Specimen stock, 50c each.

Winesap
Old favorite, vigorous grower, and hardy. Fruit bright red, long keeper. 5 to 6 ft. trees, 50c each.

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. 5 to 6 feet trees, 50c each.

Malinda
A very hardy yellow winter apple; good keeper, skin rich yellow with pinkish blush on the cheek of the apple. Rich flavored, juicy, with a mild sub-acid taste. Root grafted stocks, 5 to 6 ft. trees, 50c each.

Iowa Blush
Originated in Iowa. Tree very fruitful, strong grower. Fruit rather conical, surface smooth, yellow, with bright mottled red blush, white flesh, juicy and rath¬er sub-acid. Harvest period is from September to January is the sea¬son it is good to eat. 5 to 6 ft. trees, 50c each.

SEE NEXT PAGE FOR DWARF APPLES AND CRAB APPLES.
CRAB APPLES

Florence Crab

The Dwarfed Apple trees we offer are any of the standard varieties, adaptable to this work, budded on a American Ducine (Paradise) Apple stock which has the effect to dwarf the growth of the standard varieties when budded on this ancient stock. This habit of growth makes it essentially a city tree for the reason that Dwarf trees bear when very young, beginning to bear the second year they are out. Varieties we offer: Wealthy and Delicious, 3 to 4 ft. trees, $1.00 each.

CHERRIES

Large Montmorency

Stark Scarlet

Golden Glass

Compass Cherry Plum

APRICOTS

J. L. Budd Apricot

Hungarian Apricot

Champion Peach

Bokhara

Peaches and apricots have not been, in the past, considered very safe in this latitude and climatic conditions but of late years varieties have been developed that are more hardy than formerly. The varieties that we offer are known to be the very hardiest.

PEACHES

Champion Peach (freestone)

Bokhara

APRICOTS

J. L. Budd Apricot

Hungarian Apricot
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 northwestern 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, 50c; 3 for $1.25.

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. Fruit a purplish-red fruit. Per each, 50c; 3 for $1.25.

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 hardiness 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, 75c each; 3 for $2.00.

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 tree has the glossy skin and rich dark purplish red flesh of its Japanese sire. The Sapa attracted great attention as a new departure in stone fruits for the prairies of the Northwest. Begins bearing second year out and yields so abundantly as to cause the whole tree to droop prostrate to the ground with fruit. Each 50c; 3 for $1.25.

Minnesota Plums

PRODUCED AT THE UNIVERSITY OF MINNESOTA FRUIT BREEDING FARM

Monitor (Minn. No. 70) The tree of this new variety is large, upright, spreading, vigorous, very productive and hardy. The fruit is very large, slightly pointed toward the apex; stem rather thick, medium length, adheres well to the fruit; color a dull but rich bronze-red conspicuously covered with russet spots. The flesh is yellow, tender, very juicy but firm, sweet except for some acid taste around the pit. Ripening season medium late. 5 to 6 feet, 50c each.

Goldenrod (Minn. No. 120) The pistillate parent of this plum was produced by Burbank, bred from four separate and distinct species of plums including a yellow fruited variety, Prunus Americana. The tree is vigorous, upright spreading in habit of growth. Fruit is large and rather round, slightly conic. Flesh yellow, thin but tough. Flesh yellow, fine grained, juicy, sub-acid. Stone small, Color rich golden yellow. Season medium late. As a yellow variety it is considered the very best. 5 to 6 feet, 50c each.

Native Plums

Chickasaw Varieties

Terry Plum The largest fruit of any of the Chickasaw or Native plums, fruit 2 inches in diameter. Tree strong, large, vigorous groover and perfectly hardy. Fruit bright, attractive color, and very firm. Price: 5 to 6 ft. trees, 50c each; 3 for $1.25.

Burwood 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. 5 to 6 ft. select, 50c each per tree; 3 for $1.25.

Wild Goose (Improved). Tree a very strong, vigorous grower. Fruit larger than the old variety this name, deep red and of good quality. A valuable variety to raise. 5 to 6 ft. 50c per tree; 3 for $1.25.

Flemish Beauty The hardiest of all the rich, juicy, delicious pears; hardy and productive and live to advantage the farthest north of any of the pears we know of. Bearing here in this city. Handsome and surpassing in quality. 75c each.

Keiffer This is the most popular pear grown: fruit of fine size, rich color and good quality; tree very vigorous and seldom blights; should be picked at maturity and ripened indoors. October and November. 5 to 6 ft. trees, 75c each.

Mulberry

Russian Mulberry or Bird Mulberry. Introduced to this country by Russian Mennonites and on account of its hardiness and rich foliage, makes a beautiful ornamental tree. The fruit is much inferior to the native, but is greatly prized by birds, keeping them away from other garden fruit. Trees 5 to 6 feet, 50c each; 3 for $1.00.

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**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.

**Diploma**  This is the largest known variety of Red Currants in existence. Won the Pan-American Medal at the Buffalo Exhibition on account of its size and excellence. It is a strong, upright grower, prolific bearer, beautiful red berries of finest quality. 25c each; 1/2 dozen, $1.25; dozen, $2.00.

**Perfection**  A new Currant, more popular now than Fay's. A heavy berry and very attractive fruit of an unusual bright red color. 35c each; 1/2 dozen, $2.00; 1 dozen, $3.00.

**Fay's Prolific**  Black Currant

Very productive. SWEETER THAN FAY'S. A heavy berry and very attractive fruit of an unusual bright red color. 35c each; 1/2 dozen, $2.00; 1 dozen, $3.00.

**Poorman**  The Poorman is a new gooseberry of phenomenal characteristics which, where known, is sweeping all other sorts aside. The fruit of the Poorman is the largest of any of the American gooseberries. The berries are of a brilliant red color, splendid to eat from the hand. The bush is not as large as the Glendale but makes much better growth than the ordinary varieties. **Price:** Each, 25c; doz. $2.50.

**Gooseberries**

The gooseberry is one of the hardiest and best bearing of the small fruits for the northwest and lasts longer in season than any other small fruit. Berries do not drop off of the bush but remain there until they are dead ripe and dried up, some six to eight weeks from the time they are fit to use until they are all gone.

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

**Glendale**  A new variety of giant growth, growing to a stalk of about 6 ft. in height. It is a hybrid variety by a famous hybridizer bred for city back yard gardens where two or three of these giant grapevines will produce enough fruit of that kind for a family's use. The berries are about like the Houghton in size, it is a very abundant yielder and they will last for at least a month after they are large enough for cooking purposes. **Price:** Each, $1.00; 3 for $2.50.

**Downing**  Large; light green; soft, tender, good flavor; extremely vigorous, hardy and prolific. **Price:** Each, 25c; doz. $3.50.

**Houghton**  Most productive. Best payer of all. Fruit excellent quality. 2-year, each 20c; 1/2 dozen, $1.00; per dozen, $1.75; per 50 $5.00.

**LaGrange**

This blackberry is of Russian origin, is the hardiest berry yet produced. Splendid f'd transplanted plants, strong roots. **Price:** 15c each; 6 for 60c; $1.00 per dozen.

**Young Dewberry**

This variety of dewberries is a cross between one of the western blackberries and a well known variety of dewberries. The fruit is of such excellent quality that it has never before been equalled in this country and wherever known is simply taking the small fruit market by storm and brings double the price in the market of other varieties of dewberries. **Price per dozen, $1.50.**

**RASPBERRIES**

**Latham (Minn. No. 4)**  This variety of raspberry originated from a cross of some other varieties a few years ago by the Minnesota Fruit Breeding Farm and for its good qualities has quickly become very popular over a wide-spread section of the northwest. Plants are hardy, vigorous and productive; canes tall, nearly thornless, reddish with a heavy bloom; fruit very large, berries often double and frequently an inch in diameter, color bright attractive red; season medium, ripening over a long period. **Price:** Each, 10c; 75c per dozen; 3 dozen $2.00; per 100, $5.00.

**Sunbeam**  Originated by Professor Hansen of Brookings Agricultural College. It is a powerful grower with very heavy foliage. **Price each, 10c; per dozen, 75c; $5.00 per 100.**

**Cumberland**

Largest of all Black Caps; healthy vigorous grower, stout, starchy, well branched canes that produce immense crops. **Price each, 10c; per dozen, 75c; per 100, $3.50.**
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.

INSTRUCTION—Grape vines should be planted so that the first bud next to the stem will come on a level with the surface of the ground. Grape vines have two layers of roots, from 6 to 8 inches apart, and in planting spread the lower layer of roots in their natural position; fill in the earth and press down in the soil firmly, then spread the second layer of roots and fill in the balance of the hole. After planting trim the vines back to two buds.

Caco Grape

Caco (Red Grape) A variety of recent origin and widely heralded as the very best red grape known. It is hardy with a winter endurance for this latitude. The vines are especially strong and vigorous with a powerful root system that makes it easy to start growing when first planted. It has not yet been affected by disease of any kind. The fruit is very large in handsome, complete bunches. The color is a rich fine red over amber. It comes to bearing early in life and ripens the last half of August. Its flavor is very delicious, sweet, delightful and distinctive. Price: $5.00 per dozen. Special price in large quantities.

Agawam

Large red grape of rich, sweet, aromatic flavor. A vigorous, hardy vine. A splendid keeper and very prolific bearer. Price: Each, 25c; dozen, $2.50; per 100, $15.00.

Concord

The most popular grape in America. Bunch large shouldered, compact; berries large, covered with a rich, dark bloom. No. 1 2-year-roots, 25c each; $2.00 per doz., 25 for $3.50; 50 for $7.50; 100 for $12.50. Special prices in large quantities.

Care and Training of Young Vines

During the first season after planting, no pruning or training is necessary. The first pruning after planting may be done at any time during the winter when the vines are dormant and not frozen. The extent of the pruning will depend on the growth made. If the growth has been small all the canes except the strongest should be removed, and this one cut back to two eyes. If a strong growth has been made and there is one straight well-ripened cane, all other growth should be removed and this cane cut back to the height at which it is intended to head the vine; this one should be tied securely to the support, as it is to become and remain the trunk or main body of the vine, and should be kept as nearly erect and straight as possible. In summer pruning, the shoots except the main stalk should be removed when young. This concentrates all the force and growth of the plant into the trunk vine. For more detailed instructions write U.S. Department of Agriculture, Washington, D.C., for Farmers' Bulletin 471, "Grape Propagation, Pruning and Bearing."

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, 25c each; $2.50 per doz.; $15.00 per 100.

Beta Grape

North Dakota Grown

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 unseen, unheeded 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. Price: 2-year-old No. 1, star stock, 35c each; per 6, $2.00; per doz., $3.50. See picture outside back cover.
STRAWBERRY PLANTS

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 in. 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.

MASTODON
EVERBEARING
STRAWBERRY PLANTS

This is the largest and greatest achievement in the production of new Everbearing varieties of Strawberries. It is difficult to describe it and do justice. In size it fully out-classes all the other kinds of Everbearing. Three berries will fill an ordinary glass tumbler. Mastodon is sweeter than the other varieties, also firmer. Its unusual size is carried throughout the entire season, the last pickings being fully as large as those of the first. Price per dozen, 35¢; per 25, 60¢; per 100, $2.00; per 1000, $18.00.

Originators plants direct, 50¢ per dozen; 25 for 75¢; 60¢ per 100; per 1000 direct from originator plant, $20.00. It pays to buy Originators Stock.

PROGRESSIVE EVERBEARING

One of the first of the Everbearing Strawberries introduced. Vigorous and healthy plants. It begins to bear with the June bearing varieties and will bear with favorable weather off and on all summer winding up with a good crop of berries in the fall. To insure good crop in the fall, cultivate during the summer and keep the runners off. Price Iowa grown plants in bunches of 25, 50¢ per bunch; per 100, $1.00; per 1000, $8.00.

JUNE BEARING STRAWBERRY PLANTS

Premier This variety of strawberries is the greatest early variety ever introduced, ripens about seven days ahead of the ordinary sort. Of the very best quality and color. Is practically frost proof from the fact that the leaves have a tendency to cover each blossom in case of late spring frosts so that it makes a full crop when other varieties get frozen. It holds the record for heavy production, producing as much as 6000 to 7000 quarts of high grade fruit per acre. The merits of this plant for earliness, frost proof and producing qualities have been developed by plant selection until there has been developed a strain of this kind that will make a picking row that is worth dollars to any grower by increasing the fruit crop. Price: 25 for 50¢; per 100, $1.00; $7.50 per 1000.

Pearl The latest June bearing strawberry that is yet come to the notice of strawberry growers. It does not bud or bloom until the danger of frost is past and this fact accounts for its heavy yield and can always be counted on to make a crop. It has a perfect flower, fruits alone, and does not ripen until the last of June or early part of July after all other varieties are harvested and gone. Plants per 25, 50¢; per 100 $1.50; per 1000, $12.00.

Cooper This is a berry of enormous size, beautiful color, delicious, and of an unusually sweet flavor which makes a leading standard variety of June bearing Strawberries that is now growing anywhere. Plants are very productive with every berry ripening in full and complete and last pickings are as real as the first. Price per 25, 50¢; per 100, $1.50; per 1000, $7.00.

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. Per bunch 25c, 25¢; $1.00 per 100; per 500, $3.50; per 1000, $6.00.

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. Per bunch of 25c, 25¢; 50¢ per 100; per 500, $3.50; per 1000, $6.00.
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.

**Acacia** (Locust)—A variety of ornamental locust with drooping foliage which bears graceful clusters of pea shaped, rose colored flowers, that blooms in June. Price, each, 50c.

**Almond Double Flowering Pink.** One of the earliest and finest of shrubs. Loaded down with double pink flowers which attract attention. 3 to 4 feet, 75c each.

**Almond Double Flowering White.** Like above but with snowy white flowers. 3 to 4 feet, 75c each.

**Barberry Red Leaf** (Atropurpurea)—This variety of Barberry Red Leaf is an exact reproduction of the green leaf but instead of a deep green foliage from spring to fall the foliage of this particular variety is a bronzy red from the beginning with the summer intensifying its brilliancy and autumn adding other effects as the season advances. 18 to 24 in. size, 75c each; 3 for $2.00.

**Barberry Thunbergi** 2 to 2½ ft. 50c each. See page No. 40 for hedging size.

**Beauty Bush** (Kolkwitzia amabilis). A valuable hardy shrub from the high mountains of China related to the weigelas and the bush honeysuckles but far exceeds them in hardiness and beauty. Of compact habit. The flowers are a blush pink borne in profusion on spray-like branches transforming the plant into a fountain of pink loveliness. Price: Each, $1.00.

**Butterfly Bush** (Veitchiana) This is a very attractive shrub that matures full size the first season making a handsome bush. Bloomed profusely. Specimen plants, 25c each; 4 for 75c.

**Cherry (Flowering)** Japanese Weeping Ornamental Cherry. A weeping form of shrub with pendulous willow limbs drooping to the ground. A beautiful shrub when covered with a rosy mass of blossoms in early springtime. Prices: 2 to 3 ft. $1.50 each.

**Cotoneaster Acutifolia** A handsome shrub of recent introduction with brilliant autumn foliage, pointed leaves and white flowers, slightly pink; bearing conspicuous berries which brighten in the fall and early winter; very hardy; used extensively for hedges in the north as well as for ornamental shrub purposes. 2 to 3 feet, 50c each; 18 to 24 in. $20.00 per 100.

**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.

**Dogwood** (Cornus Sibirica). A very hardy, small handsome shrub which has a dark red bud 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., 40c; 5 for $5.00.

**Elder, Golden** (Sambucus Aurea). A variety with golden yellow foliage. Grows to a height of about 8 feet and is useful for contrast effect. The berries are edible. Should have full sun to give best effect; can be pruned into a neat, compact little bush. 3 to 4 ft., 50c each.

**Forsythia, Spectabilis** These splendid old shrubs line up the lawn with masses of yellow, very early in spring before the leaves appear, the Spectabilis most profuse of all. 2 to 3 ft., 35c each.

**Honeysuckle** (Red Turgarian, bush form). Grows to a height of 6 feet with upright, somewhat spreading branches and bright green foliage. The flowers are borne freely in May and June, are of a bright pink color. 3 to 4 feet, select, each 35c; 10 for $1.00; large clump, 5 year old, $1.00. Hedge size, page 40.

**Hydrangea (Panicleata 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, 50c; 6 for $2.50; 3 to 4 feet. 60c each; 3 for $5.00.

**Hydrangea Arborescens** Everblooming. Sometimes called Everblooming Snowball. This 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 50c; 6 for $2.50; 3 to 4 ft. 60c each, 6 for $2.60.

**Hydrangea Arborescens**

**High Bush Cranberry** This plant has a handsome broad foliage of a shiny 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; 3 for $2.00.

**Peach** (Flowering) Double red and white blended flower. At blooming time in May every twig and branch is bright with these beautiful flowers. One of the most attractive ornamentals among the blooming shrubs. Price: 3 to 4 ft., 75c 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 each.

**Quince (Cydonia Japonica)** This shrub is an ornamental flowering variety of quince of Japanese origin. It blooms in this latitude in May, flowers lasting several weeks and of a dazzling scarlet color. Shrub is bushy with protecting thorns making a very desirable shrub for hedge purposes or not used among other foliage for brilliant effect. 3 to 4 ft. Each, 75c.

**Rhodotyphus** (Kerroides). A distinct decorative shrub. Foliage very large and handsome; bears masses of delicate white pendulous flowers in spring followed with black berries that last through the winter. Per each, 2 to 3 feet size 50c; 3 for $1.25.
Snowball (Virburnum Opulus Flora Plena). One of the favorites of old-time gardens. It grows into a magnificent high bush with upright branches and handsome foliage. It forms one of the most impressive sights of early summer, when its pure white four-petaled flowers, borne in showy balls are in bloom. Hardy everywhere, 3 to 4 feet, 75c each.

Snowberry (Symphoricarpos)—A dwarf shrub 3 to 4 ft. highly valued in densely shaded places. Foliage is round, green and finely looking; with pink flowers and white berries on the same twig which gives it a charming effect. 2 to 3 feet. Each, 25c; 6 for $1.25.

Sumac (Stag horn) Foliage of this variety is cut leaved and fern-like, picturesque. Blooms in June. Limbs angled first one way then the other. Grows to a height of 6 or 8 feet. If pruned, makes lots of bottom growth mingling the angled fronds in a delightful way with a ferny effect among other shrubbery. Price: 2 to 3 ft. 50c each; 3 for $1.25.

Syringa, Golden Leaved A handsome dwarf variety with golden-yellow foliage; keeps its color the entire season; is splendid for grouping with other varieties for pleasing effects. Never over 3 feet high. 2 ft., 5c each.

Syringa Lemoine (Mock Orange). Flowers of this variety are large, semi-double, very fine. The bush is of more dwarfish habit and will not get over four feet high. 2 ft., each, 50c.

Mme. Casimir 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: 3 to 4 feet, $1.00 each; tree form, 3 to 4 feet, $1.50.

Charles 10th A strong, rapid growing variety of budded French Lilac with large shining leaves. Flowering trusses are large, rather loose with a deep reddish purple flower, 2 to 3 feet. Per each, $1.00.

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, 3 to 4 feet, fair clumps, 50c each; 12 for $4.50; large clumps, many canes, 4 to 5 feet, each, $1.00. Pair $1.50. See page 41 for hedge sizes.

Syringa Virginal This is a new variety of Syringa, lately introduced, of a dwarfish growth as compared with the taller growing varieties and the very compact flowers are semi-double, white and very fragrant. It is almost a perpetual bloomer. Every part of all the syringas, something new and different and quite distinct from any other variety. 2 to 3 feet. Each, 50c; 3 for $1.25; 18 to 24 inches, 6 each; 3 for $1.00.

Syringa Philadelphus (Coronarius). (Mock Orange), Is one of the strongest-growing varieties with very fragrant flowers; 3 to 4 feet. Each, 50c; 3 for $1.00.

Tamarix Hispida Has, like all Tamarix, very pretty, feathery leaves of a bright green color, and pink flowers. Generally grows to be 8 feet high by fall. Makes a fine shrub and with plenty of flowers. Prices: 3 to 4 feet, 35c each.

Weigelia (Eva Ratkhe). The finest Weigela variety with large, semi-double white flowers, borne in showy balls are in bloom. Price: 2 yr. plants, 35c each; 3 for $1.00.

Yucca Filamentosa (Spanish Bayonets)—The broad sword-like foliage of this plant is evergreen giving it a sub-tropical effect highly desirable for its effect about the home dweller's landscaping. In midsummer it throws up a great erect branching stem bearing a showy display of pendant creamy white bell-shaped flowers. Price: 2 yr. plants, 35c each; 3 for $1.00.

Syringa Lemoine (Mock Orange). Flowers of this variety are large, semi-double, very fine. The bush is of more dwarfish habit and will not get over four feet high. 2 ft., each, 50c.

Mme. Casimir 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: 3 to 4 feet, $1.00 each; tree form, 3 to 4 feet, $1.50.

Persian Lilac Blooms a good deal more than the common or the old-fashioned lilac, which grows into a very high bush. Common purple, each, 3 to 4 ft. 50c; common white, each, 3 to 4 ft. 50c.

Spirea

Korean Spirea This new spirea lately introduced is a first class shrub and one of the best spireas ever introduced, growing about 6 ft. high. The snow white flowers are borne on the ends of short lateral shoots in dome-shaped clusters. It comes into blooming in midsummer, when the flowers of the Van Houttei (bridal wreath) spirea has passed and is worthy of a place in the yard of every home. Price: 18 to 24 inch, $1.00 each; flowering continuously throughout the summer and autumn: of rich ruby carmine, 3 to 4 feet, 75c each; 2 for $1.25.

Weigelia (Eva Ratkhe). The finest Weigella variety with large, semi-double white flowers, borne in showy balls are in bloom. Price: 2 yr. plants, 35c each; 3 for $1.00.

Sumac /'Staff hnrn'^ Foliage of this variety is cut leaved and fern-like, picturesque. Blooms in June. Limbs angled first one way then the other. Grows to a height of 6 or 8 feet. If pruned, makes lots of bottom growth mingling the angled fronds in a delightful way with a ferny effect among other shrubbery. Price: 2 to 3 ft. 50c each; 3 for $1.25.

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Anthony Waterer The grand ornamental hedge shrub; grows about 2.1/2 ft. high; dwarf, compact bush; deep crimson flowers from June until frost. Price: 18 to 24 inches, each, 50c; 6 for $2.75; per dozen, $5.00.

Billardi Rich pink colored flowers in large spikes; blooms nearly all summer. Very pretty and showy and splendid for cut flowers. Grows 6 ft. high. Price: each, 3 to 4 ft. 50c.

Fretebeli Another quite different spirea like A. Waterer but a trifle taller with broader leaves. Bright crimson flowers during July and August. Price: 18 to 24 inches, 30c each; 4 for $1.00; $2.75 per dozen.

Aurea A beautiful variety with golden foliage and double white flowers in June. Per each, 3 to 4 feet, 40c.

Astilbe Spirea A bulbous hardy spirea of a striking punctuating perennial character. Short spreading plant with attractive foliage. Blooms in June and July and it throws up plump wands of on foot high. Flowers of brilliant lilac pink colors. Extremely showy for a season of about three weeks. Needs rich soil, plenty of moisture and partial shade. Price: 75c each; $6.00 per doz.
**HEDGE SHRUBS**

**Barberry Thunbergi** Of dwarf graceful habit; foliage small, changing to bright, yellow early in fall; 15 to 18 inch size, per doz., $2.00; per 100, $12.50. See page 39 for larger size.

**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, 50c for $4.00; $7.50 per 100.

**Lilac** Common purple—Old fashioned, dense foliage and purple flowers. Hedging size, 12 to 18 inches, $2.00 per doz.; $15.00 per 100.

**Privet, Amoor River** Is of vigorous growth, has glossy dark green foliage, keeping its color. Price: 18 to 24 inch, 2 to 4 canes, per doz., $1.00; per 100, $7.50. Bolium Privet, much like above but richer foliage, 18 to 24 inch, same price.

**Spiraea Van Houttei** (Bridal Wreath). This is one of the best ornamental flowering shrubs for hedge purposes that we know of. Plant same about 15 to 18 inches apart in rows. 18 to 24 inch size, 50c for $6.00; per hundred $10.00.

**Syringa Hedge** One of the most attractive ornamental hedges can be obtained by using, alternately in the row, planting from 3 feet apart, the green foliage, white blooming Lemoine Syringa and the golden foliage white blooming variety (Aurora); which, with the green and golden effect alternately, when they are fully grown and in full bloom, is one of the most beautiful of all hedges. Price: 18 to 24 inch sizes, per doz. $5.00.

**CLIMBING VINES**

**Ameloposis (Engelmanni).** This is one that clings firmly to the smoothest surface, covering it closely with over-lapping foliage. 2-year, 25c each; 5 for $1.00.

**Ameloposis (Veitchii).** Boston Ivy. It is a splendid plant for covering any object, as it clings perfectly to the smoothest surfaces. Price: 75c each; 3 for $2.00.

**Dutchman's Pipe** (Siphon). A plant of climbing habit and rapid growth, with magnificent light green foliage, curiously pipe-shaped, yellowish brown flowers. Price: 75c each.
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. Special Price on any and all varieties of shade trees in quantity.

Elm
Moline Elm
A columnar type of our native Elm developed at Moline, Illinois. Tree grows compact with upright limbs like unto Lombardy Poplar. This is a new thing in Elms; hardy and enduring and as rapid a grower as our native variety. 6 to 8 ft. size per each $1.25.

Elm (Vase shaped) Native White American
A native of South Dakota and the entire Northwest. One of the best trees for street use. 8 to 10 feet $1.25 each; 10 for $12.50; 12 for $15.00.

Weeping Ornamental Deciduous Trees

Weeping Mulberry (Tea's)—This is the common Russian variety of mulberry grafted on another stem which makes an umbrella shaped top, without pruning, with the long slender, willowy branches drooping to the ground in light airy gracefulness. It is absolutely hardy, safe and easy to transplant. Its beautiful foliage makes it well adapted for small or large grounds or for cemetery planting. Price, $3.00 each.

Birch (Cut leaved weeping)—This birch is a tall, slender vigorous tree with silvery white bark, gracefully drooping limbs and delicately cut foliage which presents a combination of attractiveness rarely seen in a single tree. It is very popular for a single lawn specimen. The white bark of the trunk and twigs gleaming conspicuously among the darker colors gives it a most striking effect. 6 to 8 ft. trees, $2.50 each.

Catalpa Bungeii
Top grafted on a tall stem which forms an umbrella shaped head and makes a very ornamental tree for gardens, driveways and parking. Price: 4 ft. size, 2 year head, $1.35 each; 5 ft. size 2 year old head, $2.00 each.

Schwedler's Purple Maple
Med. The young shoots and leaves are of bright purplish and crimson color. They change to a purplish green in the older leaves. A most desirable ornamental tree for the contrast of its foliage. 4 to 5 ft. whips, $1.50 each; 6 to 8 ft. branched, $2.50 each.

Globe Locust
is a new ornamental tree of the honey locust family that is grafted on a stem body 5 to 6 ft. high, producing a round head similar to the Bungeii catalpa but has the leaves and wood of the black locust family. Price: Each, $2.00.

Niobe (Weeping Willow). A very pretty golden bark tree with long drooping slender branches growing in a short time to the ground. Vigorous grower and perfectly hardy. Price: 6 to 8 ft. size, 75c.
ROSES

All roses come wrapped in moss, each individually.

We handle nothing but the very hardiest varieties and the very finest bloomers. Our roses are 2 year old strong roots and field grown, more easily transplanted, and harder. Hothouse roses are worthless. Before planting roses cut them back severely.

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.

Hardy Perpetual Roses

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

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 stock, 50c each; 3 for $1.25.

Los Angeles

This is one of the grandest all-round roses of American origin ever put on the market. The stems are as long as American Beauty; the flowers are large as Paul Neyron; its freedom and continuance of bloom are remarkable; its color a “flame pink, toned with coral and shaded with translucent gold at the base of the petals.” The each.

Frau Karl Druschki

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 extraordinary grower, and has the vigor and hardness of an oak. 2-year No. 1 stock, 60c each.

Ulrich Brunner

A superb rose. Extra large bold flowers; full and globular; petals large and of good substance. Color rich, glowing cherry scarlet, very fragrant, blooms freely. One of the finest Hardy roses.

American Beauty

HYBRID TEA ROSES

The Hybrid Tea Rose is perfectly hardy but needs a little protection in this latitude to winter through. Some varieties even don’t need that but it makes a better next year result if winter protected. Hybrid Tea Roses are among the most beautiful of all varieties and blooms from June time on throughout the entire season. We can furnish from our growing station other varieties than those named in our list.

BARGAIN—Special Assortment Hybrid Tea Roses

We offer 12 of these Hybrid Tea Roses (buyer’s choice), that will bloom perpetually the first season from May until November, for $6.00; 6 for $8.00.

Columbia (H. T.) This is one of the big roses. The color is a true pink deepening as it opens to a glowing pink. Price: Each, 60c; 3 for $1.50.

Francis Scott Key A heavy double red rose of great substance. American seedling. Strong grower. Price, each, 75c; 3 for $2.00.

Hoosier Beauty Dark red flower. Long slender buds. Full size, fine and velvety texture. Perpetual bloomer. Price, each, 75c; 3 for $2.00.

Rambler 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.

Rambler Roses

Rugosa Roses

Rugosa Roses (Ramanas). The hardest rose in existence. Ideal for the Northwest. These lovely roses form sturdy bushes 3 to 5 feet in height, covered with handsome glossy, green foliage and clusters of beautiful fragrant flowers, single red and single white. 35c each; 3 for $1.00; per doz. $3.00.


Potted Roses

These are such varieties as Hybrid Perpetuals and Tea Roses 2 year old No. 1 Field Grown Stock, potted in February and started growing in the greenhouse. They are in full foliage and ready to plant out in the Spring—the 1st to 10th of May at earliest.

American Beauty, Paul Neyron, Gruss an Teplitz, Ophelia, Los Angeles and others. Price: grown in 5 inch pots, $1.50 each; 6 inch potted size, $2.00 each. Special price in dozen lots.

Madam Butterfly A Hybrid Tea Rose with a strong growth and large flowers. Color: bright pink suffused with apricot and gold. Profuse and continuous bloomer. Price, each 75c; 3 for $2.00.

Premier (Red H. T.)—Large double red flower, full high center, borne singly on strong stems. Very fragrant. Disease resistant. Price: Each, 75c; 3 for $2.00.

Ramblers and Climbing Roses

Paul’s Scarlet A wonderful new variety of climbing roses. The flowers are a vivid scarlet, shaded crimson, making a brilliant display over a long period of time. Received the gold medal for the best new climber at the National Rose Society show. Price, each, 60c; 2 for $1.00.

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, 35c each; 3 for $1.25.

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, 35c 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. 2 year No. 1 stock, 50c each; 2 for 90c.

Gardenia (Hardy Marestial 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. 5-year Star stock, hardy field grown, each, 50c; 3 for $1.25.

Cemetery Roses

Memorial White Rose, Mandy’s Triumph. This rose makes a beautiful and enduring cover for graves and plots in cemeteries. It creeps along the ground as closely as Ivy. Flowers are produced in lavish profusion. They are single pure white, with a golden-yellow disc, etc. 2-yr. No. 1, each 50c; 3 for $1.25.

Dwarf Polyantha Roses

Baby Ramblers The flowers are borne in clusters to 30 or 40, and the foliage is dark, glossy and profuse.

Crimson Baby Rambler, 60c each; 3 for $1.50.

Pink Baby Rambler, 60c each; 3 for $1.50.
HARDY EVERGREENS

Evergreens give a cheerful appearance to a home. If properly handled, taken up with ball of dirt and burlapped. Not so compact and uniform as nursery grown but as easily grown when set out and soon take on the same form and compact foliage. Balled in dirt and burlapped (B. and B.) 2 to 3 ft. $2.00 each; 6 for $10.00; 3 to 4 ft. $3.00 each.

BLACK HILLS SPRUCE

Forest Grown, direct from the hills, taken up with ball of dirt and burlapped. Price; Seasoned Stock, 6 to 10 inches, $6.00 per 100. Once transplanted, 6 to 10 inches, $12.50 per 100. Nursery grown transplanted stock given below.

TRANSPLANTED NURSERY GROWN

Balsam Fir (Picea Pungens). It grows to a height of 50 to 75 feet and makes one of the most attractive evergreens that there is among the fir family. The foliage is the type with dark green needles, upper side and silvery grey underneath. Price: For seedlings, 6 to 10 inches high, $12.50 per 100. Specimen trees, select blue, B. & B. 1½ to 2 ft. $7.50 to 3 ft., and larger at $4.00 per foot, ground measure up; select green 2½ to 3 ft. $3.50 each.

Mugho Pine (Dwarf). Very distinct and does not grow tall but has a dense spreading form. Per each, diameter measure 1½ feet spread. B. & B. $3.00 each; 2½ to 3 ft. spread, $8.00, each.

Red Cedar (Juniper Virginiana). The well known American Red Cedar. Sheared conical form. Specimen trees, 2 to 2½ ft. B. & B. $2.50 each; 3 to 3½ feet, each, $5.00.

ORNAMENTAL STOCK

ORNAMENTAL STOCK

Specimen Trees

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. Price: for seedlings, 6 to 10 inches, $3.00 per 100; 8 to 10 inches, $12.50 per 100; 10 to 12 inches, $22.50 per 100. Nursery grown once transplanted, 6 to 10 inches, $17.50 per 100.

ORTNAMENTAL STOCK

Specimen Trees

Ash, Elm and Maple, 18 to 24 in...$2.00 $ 7.50
Cottonwood and Willow 1.00 5.00

BARGAINS

SPECIAL ASSORTMENT OF TRANSPLANTED EVERGREENS

Ten each of American Arbor Vitae, Balsam Fir, Norway Spruce, Austrian Pine and Norway Pine trees in all. Trees transplanted and 8 to 12 inches high. $4.00 postpaid.

Forest Tree Seedlings

NURSERY GROWN

Asiatic, Elm and Maple, 18 to 24 in...$2.00 $ 7.50
Cottonwood and Willow 1.00 5.00

NOTICE—All prices subject to conditions and market changes. Forest trees in five and ten thousand lots, special prices on application.
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.

All of the scientific plant foods and especially prepared plant foods contain, some of them, up to 80 per cent of acid phosphate.

Prices E. O. B. depot or delivered in city within delivery distance.

Sheep Manure A pure, natural manure that gives immediate effect. Planted directly in the hills or drills with the seed. It promotes a rapid and steady growth until maturity. On when well tilled in, it or fall adds wonderfully to the growth of the grass, 100 lbs. to about 2200 sq. ft. It makes the richest lawn of the earliest kind. For use in liquid form, 1 lb. of the material to 5 gallons of water will make a liquid that can be used daily with safety. 5 lbs. 25c; 25 lbs. $1.50; 100 lbs. $1.25; 500 lbs. $12.00; ton $35.00.

Bone (Fine Ground). For use by the vegetable gardener it is superior to anything on the market. It has been steamed to some extent and is quick to act. For trees or vines use 2 to 4 lbs. About 10 lbs. for 100 square feet for starting a new lawn. Per lb., 10c; 3 lbs., 25c; 10 lbs., 45c; 50 lbs., 150c.

Stim-U-Plant Comes in tablet form and contains highly concentrated plant food in immediately available form. Trial size, 10 tablets, 10c; medium size, 25c; 100 tablets, 75c; 1000 tablets, $3.50.

Nitrates of Soda Not a substitute for other manures, but is the best form in which to apply nitrogen to the plants. In pulverized 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., 10c; special prices on quantity.

Wood Ashes From hardwood. Price: 5 lbs. 25c; 50 lbs. $2.00; 100 lbs. $4.00. Price—5 lb. pkg. 35c; 50 lb. bags $1.25 per bag; per 100 pounds, $2.25.

Hydrated Lime Suitable for its nitric acid for all plants in which large leaf development or rapid root growth is desired. Approximately 25% ammonia and comes in fine crystals. Easily applied broadcast. 1 lb. 15c; 2 lbs. 25c; 10 lbs. $1.00; per 100 lbs. $6.00.

Acid Phosphate For use in liquid form, 1 lb. of the material to 5 gallons of water will make a liquid that can be used daily with safety. 5 lbs. 25c; 25 lbs. $1.50; 100 lbs. $1.25; 500 lbs. $12.00; ton $35.00.

Sulphate of Ammonia Desirable for its nitric acid for all plants in which large leaf development or rapid root growth is desired. Approximately 25% ammonia and comes in fine crystals. Easily applied broadcast. 1 lb. 15c; 2 lbs. 25c; 10 lbs. $1.00; per 100 lbs. $6.00.

Vigoro A scientific plant food furnishing necessary elements for greatest growth, beauty and productivity. Provides a thick, velvety lawn of a deep green color and shrubs. Use 2 to 4 pounds per hundred square feet. Instructions on each bag. Price: 25 lb. bag $1.75; 50 lb. bag $3.00; 100 lbs. $5.00.

Sacco is a specially prepared plant food that supplies the necessary elements in just the right proportions for healthy plant growth. 5 lb. bag 50c; 10 lbs. 85c; 25 lbs. $1.75; 100 lbs. $5.00. 

ANIMAL MANURE AND BLACK EARTH

We have completed arrangements for handling animal manure and black earth for the lawn and the garden by the truck load. The prices are so reasonable, for the quality we furnish, that those who are interested in better flower gardens, vegetable gardens or improving the lawn can not well afford to be without it. Unbleached animal manure is not only a fertilizer but it furnishes humus matter that conserves the moisture in the soil. It is saved in a way that its fertility is preserved and contains no straws or trash but is pure manure. Price: per truck load of about 1/2 yards, $3.00 per load; rich black earth, same quantity, $2.00 per truck load.

PEAT MOSS

(Fertilizer) Granulated Peat Moss has come to be very popular as a fertilizer in fancy gardening. By repeated testing it has proved a great stimulant to the growth of plants. It produces a light, friable texture and leaves the soil porous, admitting air and affording good drainage as well as adding humic matter to the soil. It is especially suited to the growth of perennials as well as annual flowers and vegetable plants too. Prepare the soil carefully by spading to a depth of 12 to 15 inches. Then place a layer of Granulated Peat Moss 3 or 4 inches thick which should be worked thoroughly into the soil. A lighter spread of the moss would do. However, be governed by the condition of the soil. Price: Per lb., 10c; 10 lbs., 60c; 25 lbs. $1.25 per 100 lbs., $3.50; original imported bale of about 160 to 180 lbs., $5.00 per bale.

GATOR-HIDE MULCH PAPER

Bigger crops, better crops, earlier crops, with no weeds, are obtained by using mulch paper over the surface of the soil where planting. Mulch paper stimulates plant growth, increasing the temperature of the soil, conserving the moisture in the soil and eliminating the weeds that compete with the plants for the plant food no matter how often the grower goes through the back-breaking process of weeding. Price:

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>Sq. Ft.</th>
<th>Per Roll</th>
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<tbody>
<tr>
<td>18 in.</td>
<td>900 ft.</td>
<td>1350</td>
<td>$5.50</td>
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<tr>
<td>36 in.</td>
<td>900 ft.</td>
<td>2700</td>
<td>7.00</td>
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RAW GROUND LIME

Raw ground lime is superior to the kiln-burnt hydrated article as a soil proposition. This lime is the lime stone in its natural state crushed and ground as fine as flour and just as applicable as the hydrated. And besides that it contains a higher percent of carbonate of lime and this particular ground lime that we are using contains more of the carbonate of lime than is generally used. When the lime stone is crushed and ground as fine as flour and the hydrated is pulverized. Raw lime as compared with burnt lime is nearly 100 per cent more effective in its fertilizing effect. It sweetens sour soil and loosens up hard, sticky and compact soil in a manner so as to liberate the plant foods by aiding decomposition of organic matter in the earth, making it available and digestible to plant life. For use on lawns, 100 lbs. to 500 square ft.; for light work, about 1 tons. All prices subject to market changes. These prices are at our store at 316 Pearl Street. When delivered, delivery added.
INSECTICIDES, FUNGICIDES AND SEED DISINFECTANTS

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 sprays as an excellent fungicide. When used in summer dilute with twenty to thirty parts water. Prices: 1 lb. pkg., 25c each; 5 lbs. $1.00; 10 lbs. $1.75; 20 lbs. $5.00.

**Arsenate of Lead** Dried powder Arsenate of Lead will destroy leaf eating or leaf chewing insects such as the Codling 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. Price: 1 lb. pkg. 35c each, 3 for $1.00.

**Arsenate of Powder** Arsenate of Lead in summer dilute with twenty to thirty parts water. Prices: 1 lb. pkg., 25c each; 5 lbs. $1.00; 10 lbs. $1.75; 20 lbs. $5.00.

**Nicotine Sulphate** "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; 1/2 lb. can, $1.25.

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

**Tobacco Dust** One of the best remedies for green and black aphids, flies, beetles, etc., also for insects in the ground. 1 lb. 15c; 5 lbs. 60c; 100 lbs. $5.00.

**Bordeaux Mixture** The best fungicide for currant, mildew and blight. Price: lb. 40c; 3 lbs $1.

**Copper Fungicide** 5%®® is a concentrated solution of copper fungicide. It is the fungicide for controlling many of the chewing insects that prey upon the sap of the plants. Price: 2 oz. bottle, 35c; 8 oz. bottle, 75c; 16 oz. bottle, $1.25.

**Two-Way Spray** "Insecticide and Fungicide." For chewing insects and fungous disease in one application. Can be applied as a dust or liquid spray. Price per can 25c.

**Nirntrin Sulphate** "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; 1/2 lb. can, $1.25.

**Paris Green** Our Paris Green is absolutely pure and meets the requirements of State and National laws. Put up in sift-proof packages. 1/2 lb., 1/4 lb., 1 lb., 2 lb., and 5 lb. cartons. Prices on application.

**Tree Tanglefoot** A perfect safeguard for trees against the Caterpillar of the Gypsy, Brown Tail and Tussock Moth. Price: 1 lb. 50c each.

**Cutworm Bait** Effective against cut worms, who grubs, slugs and ground worms. Price per pkg. 35c; 3 for $1.00.

**Bayer Dust**—Seed Disinfectant

**FOR SEED CORN, POTATOES, VEGETABLES**

Treat your seed corn with Bayer Dust before planting. It prevents costly diseases that lower germination, reduce yield and cut growing profits. Bayer Dust treated seed corn permits of earlier planting, produces sturdy stalks, larger ears and a better quality of corn. It is quickly and easily applied. Simply dust the seed with Bayer’s Dust and plant. One pound treats 6 bushels of seed. Full directions on every package. Four ozs. 50c; 1 lb. $1.75; 5 lbs. $8.00; 25 lbs. $37.50.

**Dip Dust** Seed disinfectant for potatoes, vegetables and flowers. Add it to the required quantity of water, dip the potatoes in, then out and then plant. Not more than two hours soaking is required. No danger to cut or sprouted seed. One lb. treats 15 bushels of seed potatoes. Full directions on every package. Four ozs. 50c; 1 lb. $1.75; 5 lbs. $8.00; 25 lbs. $37.50.

**CARBOLA**

CARBOLA is a white paint and powerful disinfectant combined in powder form. It paints and disinfects in one operation, and it can be applied with a brush or spray pump to wood, brick, stone, cement, plaster board, etc., and over whitewash.

**SATISFACTION OR MONEY BACK**

<table>
<thead>
<tr>
<th>Weight</th>
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<tbody>
<tr>
<td>5 pounds (5 gallons)</td>
<td>$0.75</td>
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</tr>
<tr>
<td>50 pounds (50 gallons)</td>
<td>$5.90</td>
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<tr>
<td>200 pound bags</td>
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</table>
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. 6 lbs., 25c; 50 lbs., $1.75; 100 lbs., $3.00.

Eureka This is a food intermediate between the Starter and the Acme Scratching Food. (For chicks from two weeks to two months old). 6 lbs. 25c; 50 lbs. $1.75; 100 lbs. $3.00.

Acme (Scratch Food). Combination of Wheat, Kaffir, Cracked Corn and various other rich cereals. All food and no waste. 6 lbs. 25c; 100 lbs. $2.75.

STARTER FOOD furnished the green food that is absolutely necessary for winter egg production. 5 lbs., 25c; 100-lb. bags, $2.75.

CRUSHED OYSTER SHELLS. One of the most commonly used articles in poultry yards. Price: 15 lbs. 25c; 100 lbs. $1.25.

CHARCOAL. Most successful poultry raisers feed this soft with food. 3 lbs. 25c; 10 lbs. 50c.

MICRO GRIT. Fowls have no teeth, so it is essential that they should have grit. 100 lbs., $1.25.

PRATT’S PRODUCTS

PRATT’S BUTTERMILK BABY CHICK FOOD
Made of sweet, wholesome, purest ingredients in the most modern poultry feed mill in America and mechanically predigested, it is life insurance for chicks. Every ounce is full of bone, muscle, feather and health builders. You’ll pay for the food in the chicks you’ll save. Equally good for young turkeys, guineas, ducks, pheasants and game birds. A perfect “baby food” for young foxguls. Sold at the following prices: 50c pkg.; 14 lbs. $1.10; 25 lbs. $1.75; 50 lbs. $3.00; 100 lbs. $5.50.

Pratt’s Victory Laying Mash
50 lb. sacks, $5.50; 100 lb. sacks, $10.00.

BLATCHFORD’S PRODUCTS

CALF MEAL
Price; 25 lb. bag, $1.50; 50 lbs. $3.75; 100 lbs. $5.25.

Egg Mash
This is a genuine Egg Food for laying hens. 25 lb. bag, $1.25; 100 lbs. $5.00.

PIG MEAL
Milk substitute. 25 lb. bag, $1.50; 50 lbs. $2.50; 100 lbs. $5.00.

Blatchford’s Chick Mash
The ideal food for bone and muscle, excellent for growing chickens. 25 lb. sacks, $1.50; per 100 lbs. $3.50.

BIRD SEED
Canary seed...lb. 15c; 10 lbs. $1.25; 100 lbs. $12.00.
Hemp Seed.....lb. 15c; 10 lbs. $1.00; 100 lbs. $9.00.
Rape seed.....lb. 15c; 10 lbs. $1.25; 100 lbs. $11.00.
Mxd. bird seed lb. 15c; 10 lbs. $1.25; 100 lbs. $11.50.
Sunflower seed lb. 15c; 10 lbs. $1.25; 100 lbs. $9.00.

ANIMAL POULTRY FOODS

Bone (Coarse ground for poultry). Lb. 10c; 5 lbs. 25c; 100 lbs. $1.00.

Blood Meal
It will make hens lay during winter months. Lb. 10c; 3 lbs. 25c; 10 lbs. 75c.

Beef Scraps
(Granulated) Protein 60 to 65 per cent). Lb. 10c; 4 lbs. 25c; 100 lbs. $5.00.

Pigeon Food
This compound or mixture of the seed of various cereals like Canada field peas, Kaffir corn, buckwheat, hemp seed, millet seed, etc., in a combination is proportioned for a balanced ration for the special purpose of feeding pigeons. Per hundred lbs. $4.75. Ask for special price in large quantities.

Michael’s Mineral Hog Food

Hogs require mineral food and salts and why he is such a rooter of the soil is because its using nature’s method of getting the necessary minerals but when fed a mineral food he seldom cares to root which takes his energy and meat, as well, which the feeder works so hard to put on Mr. Porker. When fed a mineral food one will readily see how much more contented he is and how little he cares to root. And besides that, it prevents goiter and when fed to brood sows is a preventive against hairless pigs. Mineral food is a self-feeder so that when your hog has free access to it, it will not eat more than nature requires. It will shorten the time required to fatten him for market. Put up in 100 lb. burlap sacks. Price: per 100 lbs. $2.50; per 500 lbs. $12.00; per ton, $40.00.

GROWELL PEAT POTS

The Growell pot for growing plants is a new product, designed on the principle that air contributes more to root development than any other factor. The plant strives to create a balance between the root and the leaf. The Growell pot will grow larger and sturdier plants, because it develops root growth, which results in greater yield. Price: 2½ inch pots $2.00 per hundred; 250 for $4.00; 500 for $7.50; 1,000 for $14.00.
**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.

**Price $4.00 each**

Warranted to Purchaser for Five Years

**Hudson Midget—Best Small Sprayer ever made.**

**Price 25 cents each**

**Auto Spray**—Is probably the most powerful bucket pump manufactured. $3.50 each.

**Hudson Long Stroke Liquid Sprayer**

**Price 50 cents each**

**Little Wonder Duster**  
The Little Wonder is a hand duster for flowers, rose bushes and plants around the garden.

**Price each, $1.00.**

**Planet Jr. Garden Planters**  
Special Cut Price. Subject to change without notice.

- No. 4D—Planet Jr. Combined Hill and Drill Seeder, as Seeder only, $12.50, complete $16.50 each.
- No. 25 Planet Jr. Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow, $18.00 each. Weight packed, 61 pounds.

**Pruning Shears, $1.00 each**

**Timesaver Plant Support**

For shrubbery, tomatoes, dahlias and other tall growing plants. Made in different sizes.

**SIZE AND PRICE OF STAKES**

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For Cherries, Raspberries, Strawberries and other berries.

- **Price: Pint size, per 100 90c; per 500 $4.00; per 1000 $7.50.**
- **Price: Quart size, per 100 $1.00; per 500 $4.50; per 1000 $8.50.**
- **Price: Crates, 24 qt. size, each 25c; per 10 $2.25; per 100 $20.00.**
- **Price: Grape Baskets, 4 qt. per dozen 75c; per 100 $5.00.**
- **Price: Drop Handle Baskets, 8 qt. per dozen 75c; per 100 $6.50.**

**Germicid Air Sprayer**

Used for potato spraying white washing, sprays disinfectants, cold water, paints, etc. Tank—7 1/2 in. diameter, 20 in. long, capacity 4 gallons. Galvanized Steel Tank. No. 110-G, Price $5.00 each.

**Cyclone Seeders**

It is especially designed for distributing evenly all kinds of grain as well as every variety of grass seed. Price: $2.50.

**PLANT MARKER**

A practical metal plant marker that will last a lifetime. Price: 4 for 25c; doz. 75c; per 100, $3.00.

**Magic Hand Weeder**

Handiest Tool on Earth, each 30c.

**Hotkaps**

New Method of Plant Protection

Hotkaps are cheap insurance, easy to set over the young plant with the garden setter.

- **Price: per doz., 35c; per 100, $2.00; per 1000, $11.00; trial package, 250 Hotkaps and Hotkap garden setter, $4.00; water proof garden setter, 50c.**

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See page 34.

BETA GRAPE
See page 36

EARLY RICHMOND CHERRIES
See page 33

MASTODON
(Everbearing Strawberry)
See page 37

MICHAEL SEED STORE,
316 Pearl Street,
SIOUX CITY, IOWA