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★  
of Agriculture.

# GRISWOLD'S 24<sup>TH</sup> SEED ANNUAL



1914

GARDEN, FIELD, & FLOWER SEEDS  
GRISWOLD SEED CO., LINCOLN, NEB.



## SUGGESTIONS TO CUSTOMERS

Our constant aim is to make the highest quality the first consideration, and next to put our prices as low as good seed can be sold.

*The best time to order is just as soon as you receive this catalog. We can always give your orders more of our personal attention if they come in before the rush of the spring trade. Please use the enclosed order sheet as it makes it more convenient for us in filling orders. You will note it can be used on both sides. Please write as plainly as possible, as it helps avoid making mistakes in filling your orders.*

**TESTED SEEDS.** For several years past we have tested all garden, field and grass seed. We have a large tester built according to the plans approved by the Government Department of Agriculture. The value of tested seed to the buyer cannot be over-estimated. It is an assurance to you that the seed is full of vigorous life and vitality, and that if you plant under proper conditions and follow our instructions you will not be disappointed.

**ERRORS.** We exercise the utmost care in filling orders, striving to do a little more than we offer; yet in the press of business errors sometimes occur, in which event we wish to be promptly notified of the fact and will make such corrections as will be satisfactory. Please keep copies of all your orders for comparison.

**OUR TERMS** are cash with order. We cannot ship C. O. D. unless you remit at least one-fourth the amount of the order. It always costs you extra for goods to come that way. We will take your personal check if you add 15 cents for exchange, but will hold order till banks report checks paid. Better send us Draft, Money Order, or Registered Letter. We always refund your money if we cannot fill order.

**MARRIED WOMEN** will save confusion in correspondence by always using husband's initials.

**YOUR ORDER** is acknowledged the day

it is received, and filled just as soon as possible.

**HOW WE SHIP.** We ship all heavy goods by freight at your expense, unless otherwise instructed. We send you duplicate bill of lading, showing date, number of bags sent, and route. All plants and perishable goods are sent only by express at your expense, unless quoted "prepaid," in which case we send by mail or prepaid express and notify you.

**FREIGHT RATES.** Seed takes a low rate. Write us for rates to your station.

**SAFE ARRIVAL.** We guarantee all goods except sweet potatoes to arrive safely and will refund you for any loss providing you have Agent make notation of such loss on expense bill and return it to us. This applies on Irish Potatoes if time of shipment is left to our judgment.

We also guarantee all seed that we send out at catalog prices to be carefully selected, and tested. We are always pleased to make good any mistake, but all complaints must be made within 15 days from receipt of goods. On account of weather conditions, etc., we cannot guarantee the crop. You can have the Experiment Station test any of our seed and if not satisfactory we will take it back and refund to you.

**OUR RESPONSIBILITY.** We have been in business here for 23 years. We would be pleased to have you write (enclosing stamp) any bank or business firm here in Lincoln as to our standing.

### Good Things for You to Try

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WAREHOUSE

## To Our Friends and Customers

*In the distribution of our catalog for 1914 we wish to tender our sincere thanks and acknowledgements for your support and encouragement given our business by your orders and words of appreciation. If you are an old customer no introduction or solicitation is necessary and we only ask that you accept our sincere thanks for past favors.*

*Each year, however, we meet thousands of prospective buyers and we desire to solicit the patronage of each one on the basis of quality of seeds supplied and service rendered.*

*We believe that the purchase of a package of seed, however small, involves a trust to which seed men should honorably respond. Look this catalog over carefully and note the great diversity and completeness of our lines.*

*This catalog is meant to be a reflection of this house and its methods; neat, clean, honest, telling the truth as we know it. We take great pains not to exaggerate but to set forth in plain words descriptions that will describe but not mislead, offering a square deal to everybody everywhere. We know you will concede the truth of this claim if you will give us at least a portion of your patronage.*

*This year we have made our usual careful investigation of goods and stocks offered and we believe we have the very best obtainable in every department of our business.*

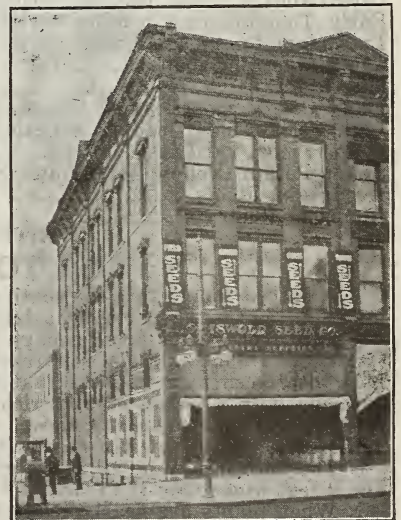
*Again we say to our old customers, thanks for past favors and may we not have a continuance of your business in the future; and to you who have not been our customers, we earnestly say, give us a trial.*

*Yours for productive fields and gardens,*

**GRISWOLD SEED COMPANY**

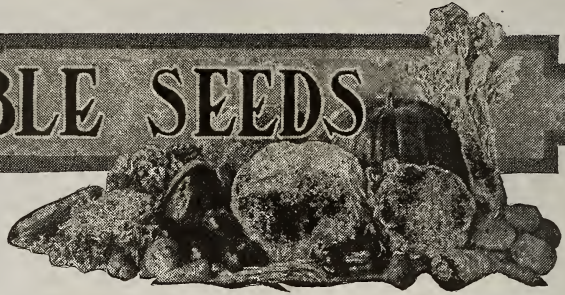
**Lincoln - - - - - Nebraska**

**A SPECIAL FAVOR**—If you receive more than one copy of this Book we shall esteem it a favor if you will hand the extras to friends or neighbors who you think would be interested in good Seeds cheap.



RETAIL STORE

# VEGETABLE SEEDS



## VEGETABLE SEEDS

At prices named we pay postage on seeds by Packet, Ounce, Pound, Pint and Quart

### DISCOUNT ON SEEDS IN PACKETS

Any 6 of our large 5c packages for 25c; 13 for 50c; 28 for \$1.00. With every order for \$1.00 worth of package seed we give as premiums three 5c packages of flower seed or a 12c rose.

1 oz. to 50 ft. of drill;  
5 lbs to the acre

## ASPARAGUS

### SPARGEL

Sow in March or April, in good mellow soil, after soaking the seed 24 hours in warm water, in drills one foot apart, and one inch deep. During the summer keep the soil mellow and free from weeds, thinning the plants to 4 inches apart. The following spring transplant into permanent beds that have been deeply dug and highly manured.

**CONOVER'S COLOSSAL.** A mammoth, green sort of the best quality. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c; postpaid.

**BARR'S MAMMOTH.** An early, large-stemmed, green variety. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c; postpaid.

**PALMETTO.** An early, green sort, prolific and very desirable. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c; postpaid.

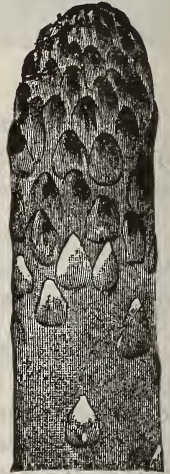
**COLUMBIAN MAMMOTH WHITE.** Produces white stalks of large size and finest quality. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c; postpaid.

### ASPARAGUS ROOTS

The ground should be well manured and deeply spaded, the roots planted two feet apart, one foot apart in the row, and at least six inches deep. These will be ready to use in two to three years. 15c per dozen; 50 for 60c; \$1.00 per 100, postpaid; 35c for 50; 60c per 100, by express at your expense.

### ASPARAGUS CULTURE

A book giving all possible details as to Growing, Soil, Marketing, Canning, etc., for home use or market, 174 pages. Cloth, 50c; postpaid.



## VEGETABLE PLANTS

We Grow Great Quantities of Cabbage, Cauliflower, Celery, Tomato and Sweet Potato Plants

	Ready	Postpaid			By Exp., Your Expense		
	About	pr.doz.	pr.25	pr.100	pr.doz.	pr.100	pr.1000
Early Cabbage, most leading varieties.....	Apr. 25	\$0.15	\$0.25	\$0.75	\$0.10	\$0.50	\$4.00
Late Cabbage, most leading varieties.....	May 10	.10	.20	.65	.10	.40	2.50
Early Tomato, most leading varieties.....	Apr. 25	.25	.45	1.00	.15	.80	7.00
Late Tomato, most leading varieties.....	May 10	.15	.30	.90	.10	.70	6.00
Cauliflower, Snowball.....	May 10	.25	.45	1.25	.20	1.00	7.00
Egg Plant.....	May 10	.25	.45	1.25	.20	1.00	8.00
Early Celery, most leading varieties.....	May 10	.20	.35	.75	.15	.50	4.00
Late Celery, most leading varieties.....	June 1	.15	.25	.55	.10	.35	3.00
Pepper, most varieties.....	May 10	.25	.45	1.25	.20	1.00	8.00
Sweet Potato, Yellow Jersey and Nansemond.....	May 10	.....	.....	.50	.....	.35	3.00
Asparagus Roots.....	.....	.15	.....	1.00	.....	.60	.....
Rhubarb Roots.....	.....	10c each	1.00 per doz.	.....	.....	50c per doz.	.....

### WRITE FOR PRICES IN LARGER LOTS

## TO MAKE A HOTBED

A hotbed should face the south or southeast, be located on well drained ground, and if possible be protected on the north by a building or high fence.

6x10 feet will be large enough for an acre garden. Sashes are usually 3x6 feet. Dig a trench 2 feet deep, around this place a frame 16 inches high at the back and eight inches in front. Fill the hole with fresh horse manure that has lain for a week or ten days, tramping it down firmly and covering with 4 inches of fine, rich, black soil. Place the sashes over the frame. After standing a few days lift the sashes to allow the rank heat and steam to pass off; when the temperature has subsided to 90° F. sow the seed. It is best to bank the outside of the frame up to the sash.

The hotbed may be all above ground by making a pile of manure 2 feet high, and 3 feet longer, and 2 feet wider than the frame, fill in with black soil and complete as directed for the excavated bed.

When plants are nearly ready for outside lift the sashes every pleasant day, gradually hardening off the seedlings.

Frame and shades should be stored away at the close of the season and will thus last for years.

1 PINT TO 100 FEET OF  
DRILL; 1 BUSHEL PER  
ACRE

## BEANS BUSCH BOHNEN

EARLIEST VARIETIES  
READY FOR TABLE  
IN 40 DAYS

The soil best adapted to beans is a light, rich, well drained loam, which was manured for the previous crop. Beans are extremely sensitive to both cold and wet and it is useless to plant them before the ground has become dry and warm. The largest returns will result from planting in drills from two to three feet apart and leaving the plants two to six inches in the row. Up to the time of blossoming they should have frequent shallow cultivation. Never hoe when the vines are wet, as the pods will become discolored. For succession plant every two weeks. If by express at your expense deduct 8c per pint; 15c per quart. For prices on larger lots see our Market Gardener's Price List, sent free.

\*\*\*\*\*  
\* Sherman Co., Neb., \*  
\* June 3, 1913. \*  
\* I wish you could \*  
\* see my garden; it is \*  
\* fine, and all sown \*  
\* with seeds from your \*  
\* house. \*  
\* Mrs. W. C. Dieterichs. \*  
\*\*\*\*\*



GOLDEN WAX BEANS

### BUSH or SNAP Wax or Yellow Pod Varieties

**GOLDEN WAX.** A standard sort. One of the earliest beans in the market. The pods are of good length, flat, but quite thick and broad. They are waxy, golden yellow, and of fine, buttery flavor. Hardy and productive. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

**IMPROVED GOLDEN WAX.** Pods are thicker than those of Golden Wax, and of better quality. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

**GERMAN BLACK WAX.** A popular variety; pod a waxy yellow, solid, tender, almost transparent, stringless, seeds when ripe jet black. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

**CURRIE'S RUST PROOF WAX.** The vine is very vigorous, hardy, and an early and abundant bearer. The pods are long, flat and straight, and of a light yellow color. The beans when ripe are a bluish black. It is an excellent shipper. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

**DAVIS' KIDNEY WAX.** The large beans are pure white, kidney shape, excellent for cooking, green or dry. The pods while young are stringless, tender and of excellent flavor, very long, straight, flat, and clear, waxy white. Very productive. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

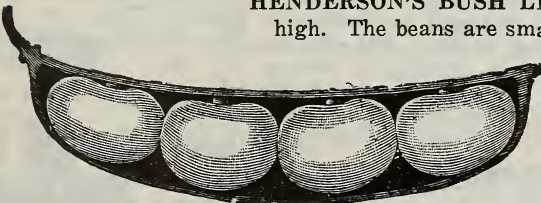
**WARDWELL'S KIDNEY WAX.** Pods long, flat, nearly straight, white, handsome and of good quality. One of the very best beans, large, kidney shaped, white with dark markings about the eye. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

### DWARF or BUSH LIMA BEANS

The Bush Limas are quite desirable for the garden, as their cultivation does away with poles. These should be planted edgewise with the eyes down and two inches deep. Plant June 1st.

**HENDERSON'S BUSH LIMA.** Grows in compact bush form about 18 inches high. The beans are small in size, but of delicious flavor and great productiveness, and about two weeks earlier than the others. Pkt., 5c; pt., 25c; qt., 45c; postpaid.

**BURPEE'S BUSH LIMA.** A bush form of true, large Lima. A good yielder, bearing a handsome, large pod, well filled. Pkt., 5c; pt., 25c; qt., 45c; postpaid.



**DWARF GREEN PODDED BEANS**

**BURPEE'S NEW STRINGLESS.** One of the best stringless green-podded beans in cultivation. The pod is round, full, large and straight. In quality it is superior to most other Bush Beans. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

**IMPROVED RED VALENTINE.** Early and prolific. Pods are remarkably fleshy and tender, and remain a long time without becoming hard. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

**LONG YELLOW SIX WEEKS.** Hardy early and productive. A standard sort. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

**REFUGEE.** (Thousand to One.) Most prolific green-podded sort, thick and fleshy. Especially desirable for pickling. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

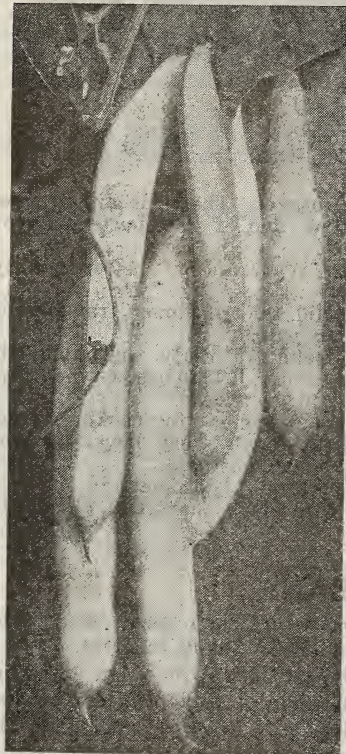
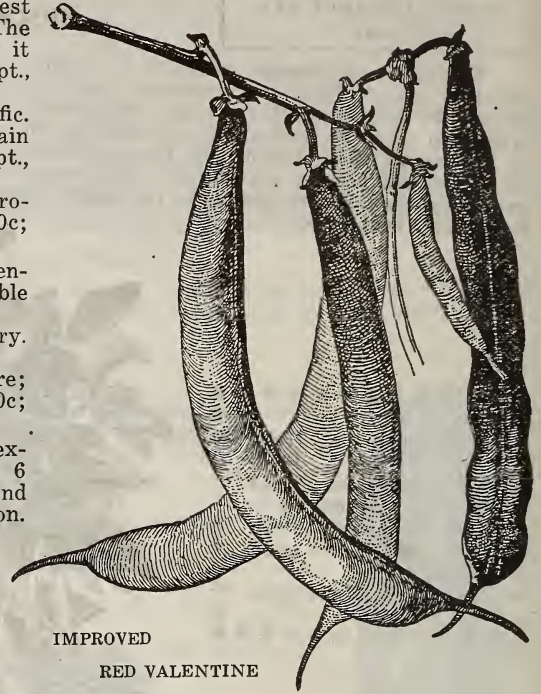
**WHITE MARROW.** Good shelled, either green or dry. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

**LITTLE WONDER NAVY.** Valuable for field culture; very prolific, excellent dry bean. Pkt., 5c; pt., 20c; qt., 35c; postpaid.

**GIANT STRINGLESS.** This extra early variety is exceedingly productive, bearing round green pods 6 to 7 inches long, very meaty, extremely crisp and absolutely stringless throughout the entire season. Pkt., 5c; pt., 25c; qt., 40c; postpaid.

**A GOOD BOOK FOR YOUR HOME LIBRARY**

**Vegetable Gardening.** By Samuel B. Green, 10th edition. A manual on the growing of vegetables for home use and market. Profusely illustrated. 252 pages, price, 12 mo. cloth, \$1.00; paper, 50c.



One Quart to 200 Hills

**POLE BEANS**

**STANGEN BOHNEN**

These are more tender than the Dwarf Beans, and planting should be delayed about a week longer. Set a stout stake about 8 feet long firmly in the center of each hill, leaving four plants to a hill.

**EARLY GOLDEN CLUSTER WAX.** Begins bearing in July, continuing to produce abundantly until frost, large clusters of golden-yellow pods 6 to 8 inches long and of delicious flavor. Valuable either as a shell or snap bean, white seed. Pkt., 5c; pt., 25c; qt., 45c; postpaid.

**CUTSHORT.** (Corn Hill.) A standard sort for planting among corn. It will yield a good crop without the use of poles. Beans nearly oblong, cut off at ends, white with reddish-brown spots. Pkt., 5c; pt., 25c; qt., 45c; postpaid.

**DUTCH CASE KNIFE.** An early corn hill bean. Pods very long and flat; beans, flat, kidney shaped, white, of excellent quality, green or dry. Pkt., 5c; pt., 25c; qt., 45c; postpaid.

**OLD HOMESTEAD.** (Kentucky Wonder.) An excellent green podded variety; enormously productive, the long pods hanging in great clusters along the entire vine; they cook very tender and melting. Seed dark brown. Pkt., 5c; pt., 25c; qt., 45c; postpaid.

**LAZY WIFE.** A late bean. Pods long, broad, thick and entirely stringless; rich and buttery; dry beans, white and unsurpassed as shell beans for winter use. Very prolific. Pkt., 5c; pt., 25c; qt., 45c; postpaid.

**LARGE LIMA.** (Butter.) Productive. Large, flat pods; beans white, of excellent flavor. Pkt., 5c; pt., 25c; qt., 45c; postpaid.

**RED KIDNEY.** Usually grown for dry beans, but excellent also as green shell. Splendid for boiling or baking. These are the old-fashioned Red Kidney. Pkt., 5c; pt., 20c; qt., 35c; postpaid.

EARLY GOLDEN CLUSTER WAX

\*\*\*\*\*  
 \* My potatoes arrived O. K. and I am well pleased. \*  
 \* Adams County, Nebr. \*  
 \* P. F. WATSON. \*  
 \*\*\*\*\*



ONE OUNCE TO 100 FT.  
OF DRILL, 5 to 7 LBS.  
TO ACRE IN DRILLS.

# BEETS

## ROTHE REUBEN or RUNKLE-REUBEN

The early turnip varieties are ready for the table in from 50 to 60 days from sowing seed.

The best results are obtained on a deep, rich, sandy loam, in freshly prepared soil, which should be pressed firmly over the seed. In dry weather soak seed 24 hours before planting.

If wanted very early, sow in hotbeds and transplant, cutting off the outer leaves. For general crop sow in drills 18 inches apart, and thin to three inches in the row. For winter use, the turnip varieties may be sown in June, and the beets may be kept by storing in a cellar and covered with sandy soil to prevent wilting. To prevent beets losing their color in cooking, do not break the skin.

Prices are all postpaid. If sent by express deduct 10 cents per pound.

**EARLY MODEL.** A perfect globe in shape with a very small tap root. The color of the flesh is equal to that of the best long beet in existence. The foliage is very small. The beets are always smooth and of the deepest blood red color while they quickly attain a good size. The Early Model has become a great favorite with all growers on account of its uniform size and regular type. Price pkt., 5c; oz., 10c; ¼ lb., 35c; 1 lb., \$1.00; postpaid.

**BEST EARLY BLOOD TURNIP.** Dark red, fine flavor, good for winter.

**CROSBY'S EARLY.** An improved strain of the Egyptian; skin and flesh are dark red, roots smooth, round, fine quality, extra early.

**ECLIPSE.** An extra early variety with round, smooth, blood-red roots. Matures very early and is popular both for market and home garden.

**DEWING'S EARLY RED TURNIP.** Of good form and flavor. Flesh and top deep blood-red; excellent for early or winter use.

**DETROIT DARK RED TURNIP.** A grand beet for bunching for market, and for the home garden. Tops small; roots globular, skin smooth; dark blood-red; flesh bright, crisp, tender, sweet and remaining so for a long time.

**COLUMBIA.** Extra early, also one of the finest main-crop beets for market or home garden. The roots are turnip shape, 3 or 4 inches in diameter, deep through, smooth and entirely free from small rootlets. Flesh deep blood-red, tender and of rich flavor.

**CRIMSON GLOBE.** Early, of medium size, uniformly round; color deep crimson throughout, exceedingly tender and sweet and a good keeper.

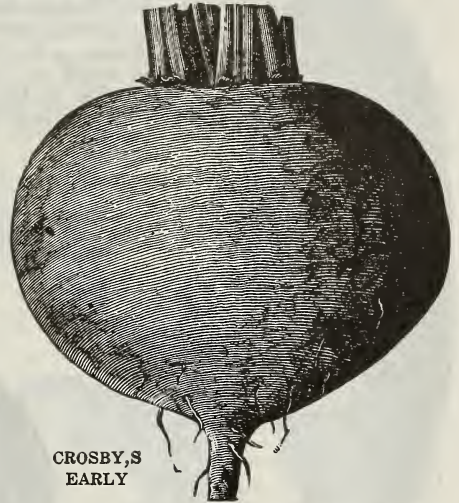
**EDMUND'S IMPROVED BLOOD TURNIP.** Round and smooth, matures early. Skin and flesh are of a deep blood-red; sweet and tender. An excellent keeper.

**ARLINGTON BLOOD TURNIP.** A dark-leaved variety, following Eclipse in maturing; perfectly round, blood-red, excellent quality, and good for winter.

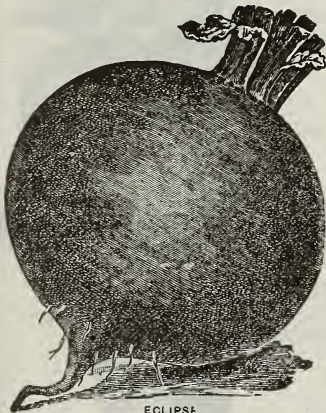
**HALF LONG BLOOD.** An entirely distinct variety, and the best for winter use. The roots are pear-shaped, smooth, flesh a rich, dark red, crisp, tender and very sweet, never becoming woody, and retaining its excellent quality longer than any other sorts.

**LONG DARK BLOOD.** Tops large, with good sized, long roots, tapering and growing even with the surface; dark red; flesh sweet and tender, remaining so until spring. A popular winter sort.

**SWISS CHARD.** Grown for its leaves only; mid-rib is cooked and served like asparagus, the leaves used for greens.



CROSBY'S EARLY



ECLIPSE

Prices All Above Beets  
Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 70c; postpaid.

## BRUSSELS SPROUTS

### SPROSEN KOHL

Matures 140 to 150 days from seed

Culture—Same as winter cabbage. Break down the leaves in the fall to force the fall growth of sprouts.

The plants grow two to three feet high, and produce miniature heads from the sides of the stalk. These heads, after they have been touched by frost, become very tender; boiled in the same way as cauliflower. Pkt., 5c; oz., 15c; ¼ lb., 45c; postpaid.

OUR CORN SAVER, THE NEW HOG BEET, THE GREATEST OF THEM ALL.  
SEE PAGE 33



# MANGEL WURZEL AND SUGAR BEET

One ounce will sow 100 ft. drill, 6 pounds per acre

140 to 150 days required from sowing to maturity

## FOR STOCK FEEDING

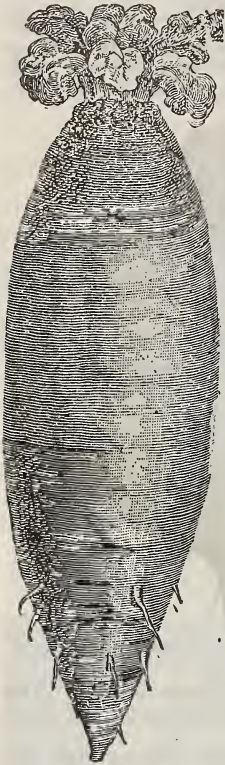
When the fact is considered that 50 tons of Mangel Wurzel may be grown on a single acre, at a small outlay, the wonder is that every farmer does not profit by it. Mangels grow to a larger size and will produce a greater bulk of roots per acre than sugar beets, but the latter are richer in quality and of superior feeding value.

As all mangels require a deep soil in order to grow well, plow and sub-soil at least a foot to eighteen inches and apply plenty of rich stable manure. Sow in April to June, in rows eighteen inches to two feet apart, and thin to eight inches in the rows. Young plants may be transplanted to fill up vacancies. As soon as frost occurs dig the crop.

### GIANT HALF SUGAR MANGEL.

The roots of this new mangel are more valuable, pound for pound, than those of the best strains of sugar beet, supplying food of very much higher nutritive value and not only are they of better quality but they yield more than twice as much. The roots grow partly out of the ground, which renders the harvesting of the crop very easy. Every progressive farmer should try this new food.

**GOLDEN TANKARD.** A superior strain of golden fleshed mangel; roots half long and very large. It is particularly rich in milk-producing qualities. It is very easily pulled; exceedingly hardy.



LANE'S IMPERIAL SUGAR

**LANE'S IMPERIAL SUGAR.** This beet grows to a large size, will yield almost as much in bulk as the best mangels, and contains a large percentage of sugar. The roots are smooth, broad at the shoulder and gradually taper to the base. They grow with a considerable portion above the soil, and are easily harvested. Gray top, whitish-green skin, with crisp, snow-white flesh.

**RIVENHALL GIANT YELLOW GLOBE.** This is the cleanest growing, heaviest cropping and longest keeping globe variety in cultivation. Notwithstanding its great size, it produces only a small top with a single tap root.

### MAMMOTH LONG RED. (Dignity.)

This is truly a mammoth, a single root often weighing 30 pounds.

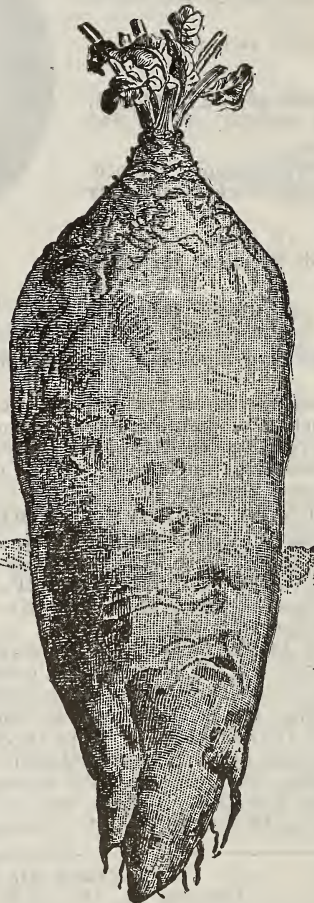
Enormously productive, smooth and regular in shape, with a small top. They grow half above ground, and are easily harvested.

**KLEIN'S WANZLEBEN SUGAR BEET.** This is considered the most desirable variety for sugar. It is also desirable for feeding to stock. The roots, while rather shorter than some varieties, are thicker in diameter, and yield an immense crop on rich land. The largest diameter is at, or just below, the surface of the soil, then tapering rather quickly.

### PRICES ON ALL ABOVE MANGELS AND SUGAR BEETS

Ounce, 10c; ¼ pound, 15c; pound, 45c; postpaid.

By freight, 5 pounds, \$1.60; 10 pounds, \$3.00.



MAMMOTH LONG  
RED MANGEL WURZEL



KLEIN'S WANZLEBEN SUGAR

## NEW MANGELS FOR FEEDING STOCK

It has been our good fortune to secure two grand mangels for feeding stock. Both of these mangels are in the same class as our Corn Saver Beet and rank just as high, although of a slightly different character. In some ways they are better. We have also secured a Ruta Baga which is undoubtedly the biggest yielder in existence and very valuable as a stock food. Any or all of these new roots deserve at least a trial, and in fact, could be planted as a main crop for your stock for they are sure to be satisfactory.



MANGEL, DANISH SLUDSTRUP



RUTABAGA, DANISH BORTFELDER

**MANGEL. (Danish Sludstrup.)** Long, reddish-yellow; grows well above the ground and easy to pull. The mangel is very large, frequently weighing from 15 to 20 lbs. each. It has repeatedly been awarded a first class certificate by Danish Government, and is doubtless the best mangel in the world. No other crop can match it. Price, oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 60; postpaid. By freight, 5 lbs., \$2.25; 10 lbs., \$4.00.

**DARK RED GIANT ECKENDORF** is of cylindrical form and grows mostly above the surface and, like the Sludstrup, is very easy to pull. It has been awarded first-class certificate by the Danish Government for its merits as a very heavy cropper, a farmer there having grown 58 tons on one acre. Price, oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 60c; postpaid. By freight, 5 lbs., \$2.25; 10 lbs., \$4.00.

**RUTA BAGA. (Bangholm.)** Is oblong, globular shaped and very small neck. Yellow flesh and very dark, purple top. Superior to all other Ruta Bagas. The Danish Government has classed it as the best cropping Ruta Baga. There has been grown as high as 49 tons of roots with 5 tons of dry matter per acre, which speaks well for it's productiveness. Price, pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 60c; postpaid.



MANGEL, DANISH RED GIANT ECKENDORF

Ready for table in from 100 to 160 days from seed, according to varieties.

## CABBAGES

1 ounce to 5,000 plants, 2 ounces to transplant for an acre.

### KOPF KOHL ODER KRAUT

For early summer use sow in hotbed in February or March. Before transplanting to the open ground they should be hardened off by exposing them gradually to the night air. For winter use sow in open ground in May or June, taking care in either case not to let the plants stand too closely, as this makes them "spindling." When five or six inches high, transplant in rows two feet apart one way, and 12 to 18 inches the other, according to variety, burying to the first leaf, whatever the stem length. Hoe frequently, drawing the earth up about the plants until they begin to head.

### EXTRA EARLY VARIETIES

**EARLY SPRING.** The earliest, flat-headed variety. A wonderful compact plant with few outer leaves. Ready for use as soon as Early Jersey Wakefield. The head is oval and very large for the size of the plant, nearly equaling many of the later kinds. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.60; postpaid.

**EXTRA EARLY EXPRESS.** (Lightning.) Pointed, hard heads of good size; a week earlier than Jersey Wakefield. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

**EARLIEST ETAMPES.** (Earliest of All.) Extremely early, with small, quite solid, pointed heads; excellent quality. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

**EARLY YORK.** Very early; small heart-shaped heads. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.35; postpaid.

**EARLY JERSEY WAKEFIELD.** Most gardeners depend upon it for the bulk of their extra early crop. Heads conical, very compact, solid and of excellent quality. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75; postpaid.

**EARLY WINNIGSTADT.** One of the best, being very hardy and sure to head; suffers less from the cabbage worm than any other sort; heads regular, conical, very hard and keep well. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.



EARLY JERSEY WAKEFIELD

### SECOND EARLY or SUMMER VARIETIES

**EARLY DWARF FLAT DUTCH.** An early cabbage of good size. Heads are flat and very solid. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

**EARLY DRUMHEAD.** A fine strain; of dark bluish-green color, plant very hardy; compact, flat head. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

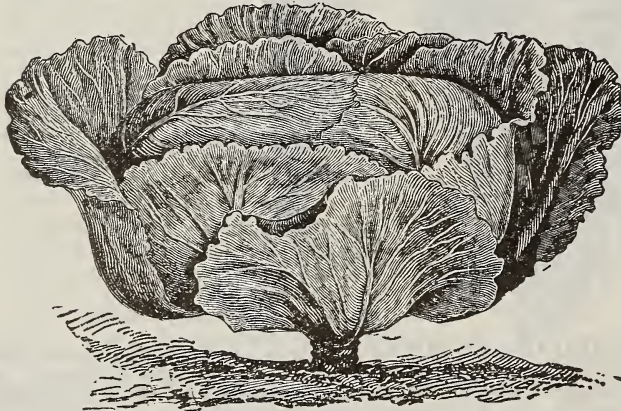
**EARLY SUMMER.** A popular sort; producing large solid heads of fine quality; keeps longer

without bursting than most any sort. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

**ALL HEAD EARLY.** The heads are deep through, extra solid, uniform in color, form and size. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

**ALL SEASON.** (Vandergaw.) Growing so quickly the large, solid heads are very tender and of the finest quality. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

### LATE or WINTER VARIETIES



PREMIUM LATE FLAT DUTCH

**LARGE LATE DRUMHEAD.** A favorite winter variety; extra large, solid heads; slightly later than the Flat Dutch. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

**AUTUMN KING.** Is extremely large and solid. Flat headed late variety. The plant is of extra strong growth, with dark bluish-green leaves. Splendid winter variety. Pkt., 5c; oz., 25c; ¼ lb., 70c; lb., \$2.00; postpaid.

**SUREHEAD.** This cabbage never fails to make a fine, solid, large head, with few outer leaves. It is a vigorous grower, maturing late. First-class main crop variety. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

**THE LUPTON.** This variety is one of the best for main crop, combining the best qualities of the second-early and the late sorts. It is also one of the best keepers. Pkt., 5c; oz., 25c; ¼ lb., 70c; lb., \$2.00; postpaid.

**PREMIUM LATE FLAT DUTCH.** (Selected strain.) The great cabbage for fall and winter. The large, oval, solid heads are flattened and of splendid quality. Will keep in the best condition for a long time. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

**HOLLANDER.** (Danish Ball Head.) Hardest heading variety known. Remarkable for great weight and long-keeping qualities. The heads are of medium size, exceedingly tender, crisp, solid, with no waste heart. Pkt., 5c; oz., 25c; ¼ lb., 80c; lb., \$2.60; postpaid.

**RED DUTCH.** A deep red or purple, solid head; fine for salad or pickling. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50; postpaid.

FOR VEGETABLE PLANTS SEE PAGE 2

Ready for table in from 95 to 120 days from seed, according to variety.

# CARROTS

## CAROTTEN MOHREN

1 oz. to row 100 feet long. 2½ lbs. per acre.

Any good land, if thoroughly and deeply worked, will produce satisfactory crops. Sow as early as the ground can be worked, sow the smaller kinds in rows 16 to 18 inches apart. For field culture sow in drills 18 to 24 inches apart. Cover one-half to one inch deep and see that the soil is pressed firmly above the seed. Do not let the weeds get a start. Thin to three to six inches apart in the rows as soon as the plants are large enough. For winter use gather and store like turnips.

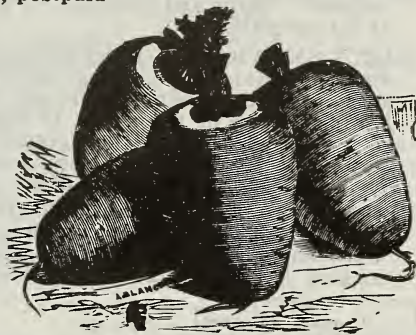
Prices of all Carrots: Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 70c; postpaid

**SCARLET HORN.** Very small and early. A rich, deep orange in color, fine grained, of sweet flavor, succeeding well in shallow soil. Desirable for bunching.

**CHANTENAY.** A choice variety, longer than the Scarlet Horn, and a little broader at the top. The flesh is a beautiful rich orange color, and of the finest quality.

**DANVER'S HALF LONG POINTED.** It is a rich, dark orange color; very smooth and easier to dig than most carrots.

**OX HEART or GUERANDE.** (See cut.) A thick carrot, five inches long and very blunt at the lower extremity. It grows very rapidly, and the roots attain a weight of more than a pound. It is tender, of good flavor and of a deep red color, and is a variety we can recommend to all market gardeners.



GUERANDE OR OX HEART



HALF LONG STUMP ROOT

**HALF LONG SCARLET NANTES.** The leaves are fine, the roots are almost cylindrical, very smooth, of good shape and size, and about six inches long; the flesh is red and very sweet. They are easily pulled and keep well. A most excellent sort.

**HALF LONG STUMP ROOT.** The tops are of medium size, roots deep orange, large, tapering to a dull point. Smooth, crisp and tender.

**IMPROVED LONG ORANGE.** Large, smooth, and of rich orange color. A good keeper, of fine quality for table use, and highly nutritious for stock.

\*\*\*\*\*  
 Lincoln Co., Idaho, Jan. 1, 1913.  
 Please send me one of your catalogs as I have  
 grown some of your seeds the last two years and  
 am in the market for more. Your Corn Saver  
 Beets are all that you say for them and more  
 too.  
 LOUIS F. GIESIKE.  
 \*\*\*\*\*

SOW IN APRIL OR MAY

## CARROTS FOR STOCK

4 to 6 lbs. to the Acre

These are undoubtedly the most valuable of all the roots usually grown for stock. They are more nutritious than turnips and nearly all animals like them and are benefited by them.

**LARGE YELLOW or VICTORIA** Largest, heaviest cropping and most nutritious variety in cultivation; roots fine, of light orange color, and possessing high feeding properties; good keeper. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 55c; postpaid. 5 lbs., \$2.25, by express.

**LARGE WHITE BELGIAN.** Grows one-third out of ground. Roots pure white, green above ground with small top. Flesh rather coarse. The roots grow to a large size. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 55c; postpaid.

## CRESS or PEPPERGRASS

Ready in from 21 to 40 days. Cress should be sown in a sheltered spot quite thick in shallow drills, in a short time it will be fit for cutting. Sow frequently, as it matures rapidly.

**EXTRA CURLED.** This small salad is much used with lettuce. The warm, pungent taste makes a most agreeable addition. Pkt., 5c; oz., 10c; ¼ lb., 25c; postpaid.

**WATER CRESS.** Hardy, perennial, growing readily on the banks of streams or ponds. Pkt., 5c; ½ oz., 20c; oz., 30c; postpaid.



CRESS OR PEPPERGRASS

1 OZ. TO  
5,000 PLANTS

## CAULIFLOWER BLUMEN KOHL

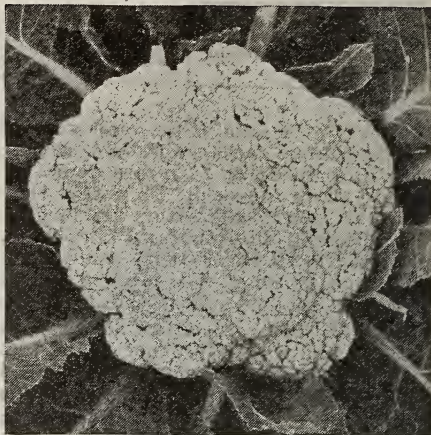
(For Cauliflower Plants see Page 2)

These need a deep, rich, moist soil, and require the same treatment as cabbages. For early summer varieties, seed should be sown in hotbed early in March, transplant when weather is warm. For late or autumn varieties, sow in March or April, transplant in June; hoe often.

**EXTRA EARLY ERFURT.** Head of good size, white and compact. Early and desirable. Pkt., 5c; ½ oz., 75c; oz., \$1.25; postpaid.

**EARLY SNOWBALL.** (Extra Selected.) This very superior strain is noted for producing early plants of dwarf habit, short, compact growth, and uniform shape. It is extremely hardy and one of the surest to make a solid head. For forcing or planting in open ground no other variety can surpass it. Good for early, second early, and late planting. Pkt., 5c; ½ oz., \$1.35; oz., \$2.50; postpaid.

**DANISH GIANT.** (Dry Weather.) The merits of this first class cauliflower is recognized by its increasing popularity. The crop is 2 or 3 weeks earlier than the earliest Erfurt. The heads are pure white and of fine quality. The plants are less affected by dry weather than any other variety, making it very valuable for dry sections. Pkt., 5c; ½ oz., \$1.75; oz., \$3.00.



1 ounce to 3,000  
plants or 200 feet  
of drill.

## CELERY SELLERIE

Ready for table  
in 160 to 175 days  
from seed.

Grow Your Own Celery. (For Celery Plants see page 2)

Sow the seed (which is slow to germinate) in shallow boxes, or hotbed, cover the seed not too deep. Keep the bed moist, almost wet, until the seeds germinate. When about two inches deep, thin out and transplant so that they may stand three inches apart, when the plants are four inches high, cut off the tops, which will cause them to grow stocky. The essentials to success in celery growing are rich soil and plenty of water. The best results are usually obtained from setting about the middle of June or the first of July. In setting, prepare broad trenches about six inches deep and four to six feet apart, in which the plants should be set six inches apart, cutting off the outer leaves and pressing the soil firmly about the roots. Cultivate freely. Earth up a little during the summer, keeping the leaf stalks close together, so that soil cannot get between them. Finish earthing up in autumn, and never hoe or earth up when plants are wet, as this would be likely to cause them to rust or rot.

To keep celery for winter, dig trenches a foot wide and as deep as the tops of the plants. Stand celery in these erect, with what dirt adheres to the roots, packing closely, but not crowding. It should be covered with straw or leaves a little at a time, as the cold becomes greater. Celery will bear a good deal of frost.

**GIANT PASCAL.** One of the best for fall and winter use. The stalks are very large, solid, crisp and of rich, nutty flavor. It blanches very easily and quickly. The heart is golden yellow, very attractive. Pkt., 5c; oz., 20c; ¼ lb., 50c; postpaid.

grows solid on all kinds of soil, and is an excellent keeper. Pkt., 5c; oz., 20c; ¼ lb., 60c; postpaid.

**WHITE PLUME.** (See cut.) A variety specially adapted to cultivation by amateurs, as its inner stalks and leaves are naturally white. By simply tying up the stalks and drawing up the soil with the hoe the work of blanching is complete. It is tender, crisp and of good flavor. The earliest celery in cultivation, but will not keep longer than Christmas. Pkt., 5c; oz., 20c; ¼ lb., 50c; postpaid.



WHITE PLUME

**CELERIC GIANT PRAGUE.** The roots of this celery are turnip-shaped, large and smooth; are almost round and with a very few side roots. Sweet and tender and may be cooked like turnips or eaten like radishes; used largely for seasoning meats and soups. Pkt., 5c; oz., 20c; ¼ lb., 50c; postpaid.

**GOLDEN SELF-BLANCHING.** This is without doubt the best celery for general use, the ribs are perfectly solid, crisp, brittle and of delicious flavor, while it has the decided merit of being self-blanching to a very remarkable degree. The heart is large, solid and a beautiful rich, golden yellow. It is decidedly the best keeper, of all the self-blanching varieties. Pkt., 5c; oz., 25c; ¼ lb., 90c; postpaid.

**GIANT GOLDEN HEART.** This variety attains a large size, but still remains crisp and tender. It is a fine keeper and a favorite for market. Pkt., 5c; oz., 20c; ¼ lb., 45c; postpaid.

**SNOW WHITE.** A pure white variety. It is vigorous in growth, rich in flavor and crisp;

## CHIVES

**CHIVES.** (Schnittlauch.) A perfectly hardy plant, something like an onion. Tops are cut off from time to time and used to flavor soup. Seed: Pkt., 10c. Clumps, each, 10c; per doz., \$1.00. Postpaid.

**CORN SWEET or SUGAR**

ZUCKER MAIS

Sweet corn being liable to rot in cold, wet ground should not be planted before May, or until the ground has become warm; practically nothing is gained in time, and much is lost in quality by planting too soon. To have the finest sweet corn it must be picked in just the right condition, that is when the skin of the grain breaks at the slightest punctures, and planting could be made every two weeks to have a supply at this stage. Plant in rich ground in hills three feet apart each way, covering about half an inch, and thin out to three plants to a hill. The extra early varieties can be planted closer. Give frequent and thorough but shallow cultivation until the tassels appear.

**IF SENT BY EXPRESS AT BUYER'S EXPENSE, 5c PER PT. OR 10c PER QT. MAY BE DEDUCTED**

For prices in larger lots see our Market Gardeners' Price List. Sent Free

**PEEP O'DAY.** The two points of this new corn are its extraordinary earliness and sweetness. It is also very productive, the stalks bearing from two to five ears each, are very dwarf, which admits of their being planted close together. Pkt., 5c; pt., 15c; qt., 30c; 2 qts., 55c; postpaid.

**EARLY MINNESOTA.** One of the best early sorts for the market or private garden. Stalks four to five feet high and bearing one to two long, eight-rowed ears; kernels very broad, sweet and tender, not shrinking much in drying. Pkt., 5c; pt., 15c; qt., 30c; 2 qts., 50c; postpaid.

**STOWELL'S EVERGREEN.** The standard main crop variety. It is hardy, large-growing and productive, very tender and sugary, remaining a long time in condition suitable for boiling. Pkt., 5c; pt., 15c; qt., 30c; 2 qts., 50c; postpaid.

**COUNTRY GENTLEMAN.** (Shoe Peg.) This variety has a small cob densely covered with irregular rows of very long, slender grains of fine quality. Pkt., 5c; pt., 15c; qt., 30c; 2 qts., 55c; postpaid.

**MAMMOTH SUGAR.** Produce the largest ears of any sort; excellent quality, sweet, tender delicious; late variety. Pkt., 5c; pt., 15c; qt., 30c; 2 qts., 50c; postpaid.

**EXTRA EARLY PREMO.** A real Sweet Corn as early as Extra Early Adams. Large, sweet and tender. Plant early, as it will stand some frost. Pkt., 5c; pt., 20c; qt., 35c; postpaid.

**MAMMOTH WHITE CORY.** Nearly as early but larger than Early Cory. The ears are 12-rowed; grains are broad, very white and of excellent quality for an early sort. Pkt., 5c; pt., 15c; qt., 30c; 2 qts., 50c; postpaid.

**GOLDEN BANTAM.** Extremely hardy, can be planted earlier than any other true sweet corn, thus producing the earliest supply. Ears 6 inches long, with 8 rows of grains, which are a golden yellow when ready for use. Can be planted thickly, and every stalk should have from 2 to 3 perfect ears. Pkt., 5c; pt., 15c; qt., 30c; 2 for 55c; postpaid.

**EARLY EVERGREEN.** Very similar to Stowell's Evergreen; somewhat smaller; ripens about ten days earlier. Pkt., 5c; pt., 15c; qt., 30c; 2 qts., 55c; postpaid.

**BLACK MEXICAN.** Medium early, about six feet in height, with one or two fine ears eight inches in length, with eight rows of large grains, which when in condition for the table cook remarkably white, but the ripe grain is black or bluish-black. It is surpassed by none in tenderness. Pkt., 5c; pt., 15c; qt., 30c; 2 qts., 55c; postpaid.

**CROSBY'S EARLY.** Remarkably early and of the best flavor. Ears of medium size, twelve-rowed, with grains very tender and sweet. Pkt., 5c; pt., 15c; qt., 30c; 2 qts., 50c; postpaid.

**HOWLING MOB.** Extra sweet, about five days later than Early Cory. Ears have 12 to 14 rows and are 5 to 9 inches long. Usually two to a stalk. The heavy husk extends well out from the top, protecting it from green worms. Pkt., 5c; pt., 25c; qt., 45c; postpaid.

**EARLY CHAMPION.** Only a few days later than the extra earlies, bearing large, handsome twelve-rowed ears. Deep, white, plump grains of milky tenderness and very sweet. Very productive. Pkt., 5c; pt., 15c; qt., 30c; 2 qts., 50c; postpaid.

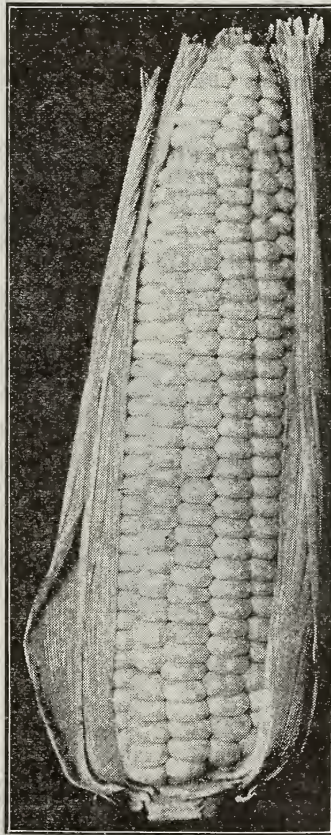
**POPCORN**

**WHITE RICE.** A prolific variety. Ears short; kernels long, pointed and white. Probably no variety of pop corn is superior to this for parching. Pkt., 5c; lb., 20c; postpaid.

**QUEEN'S GOLDEN.** The largest of all Pop Corns. The stalk grows five to six feet high, and bears two or three large ears each. It is yellow, but pops creamy white, and of excellent quality. Pkt., 5c; lb., 20c; postpaid. Ask for prices on Pop Corn in large lots.

**CORN SALAD**

(Feldsalat.) A small, hardy plant, used during the winter and spring months as a substitute for lettuce; also cooked like spinach. Pkt., 5c; oz., 10c; ¼ lb., 25c; postpaid.



1 quart to 200 hills; 8 to 10 quarts to the acre. In an average season from planting to first fair picking is from 55 to 85 days, according to variety.

## CUCUMBERS

### GUERKEN

1 oz. to 50 hills; 2 to 3 lbs. to the acre.  
Earliest varieties ready for table use in 50 to 55  
days from seed. Main crop in 65 to 75 days.

As soon as the weather becomes settled and warm, plant in hills 4 to 6 feet apart each way, with 8 or 10 seeds in a hill; cover half an inch deep, smoothing the hill off with the hoe. Keep the soil well stirred, and when the plants are out of danger of insects, leave 3 or 4 plants to a hill. For pickles, plant from 1st of June to 1st of August. The fruit should be gathered when large enough, whether required for use or not, as, if left to ripen on the vines, it destroys their productiveness. A few hills for early use may be had by sowing on pieces of sod in a hotbed, and when warm enough transplant to open ground.

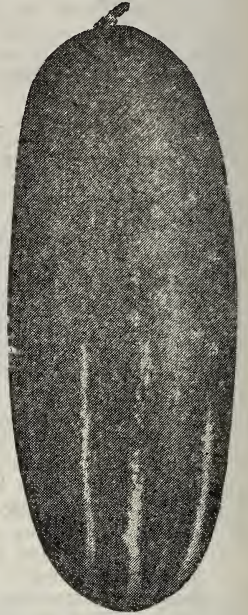
**A GOOD SCHEME.** Put in a second row of seed a few inches from your first cucumbers when they begin to run. The bugs prefer young plants. Your earliest plants are thus protected and those of later planting that escape the bugs will prolong the pickle season.

**DAVIS PERFECT.** This cucumber has the merit of being not only a first-class variety for forcing under glass, but is equally as good for outdoor culture. The color is a dark, glossy green; in shape it is smooth and symmetrical with an average length of ten to twelve inches. It is very tender and of exceptionally good flavor. For shipping it is unsurpassed. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00; postpaid.

**EARLY CLUSTER.** A short, pale green variety; fruit borne in clusters near the root, containing few seeds. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c; postpaid.

**EARLY FRAME or SHORT GREEN.** Excellent for table use and for pickling. Fruit straight, smaller at each end; bright green, flesh tender and crisp. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 75c; postpaid.

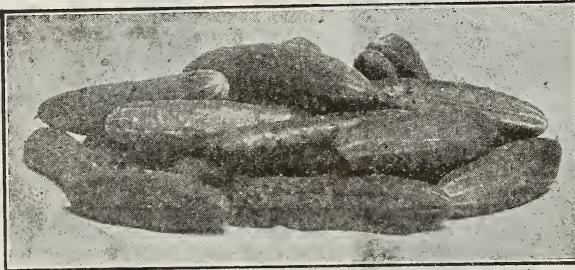
**IMPROVED EARLY WHITE SPINE.** (See cut.) For forcing it is preferred to all others. Flesh tender and crisp. Fruit uniform in size, straight and light green, with a few white spines. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c; postpaid.



WHITE SPINE

**BOSTON PICKLING or GREEN PROLIFIC.** One of the best pickling varieties; dark green, tender, crisp, and productive. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 75c; postpaid.

**IMPROVED JERSEY PICKLING.** A standard small variety, dark green, tender, crisp, productive, of fine flavor and uniform size. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c; postpaid.



DAVIS NEW PERFECT CUCUMBER (FIELD RUN)

**IMPROVED LONG GREEN.** A well known standard, main crop variety, about nine inches long, of excellent quality, and makes the best of pickles. Vines vigorous and very productive. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c; postpaid.

**JAPANESE CLIMBING.** The vines can be trained to climb, thus requiring less ground space. The cucumbers are thick, tender, and of delicate flavor, flesh white; skin dark green, turning to brown and netted when ripe. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00; postpaid.

**EVERBEARING.** Small, very early and productive; solid, few seeds and of fine quality. It continues to bear until frost. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c; postpaid.

**NEW ENGLISH FORCING.** (Rochfords.) They grow 15 inches long under glass. Pkt., 10 seeds, 10c; 125 seeds, \$1.00.

## EGG PLANT

### EIERFLANZE

1 ounce to 1,000 plants. Ready for table in 145 to 160 days.

A tender plant, start early in hotbed or in the house. Plant out early in June, care being necessary to prevent plants being chilled by the change.

**IMPROVED NEW YORK PURPLE.** (Spineless.) The standard for home and market. Fruit very large, productive and of the highest quality. Pkt., 5c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.00; postpaid.



FOR SPRAYERS AND SPRAY MATERIALS  
SEE PAGES 76-79



**ENDIVE**

ENDIVIEN

Ready for table in 43 to 50 days from seed. 1 oz. to 100 feet of drill. One of the best autumn and winter salads. Sow from June until August, ½ inch deep in drills 14 inches apart and thin out to 1 foot apart in rows. When nearly full grown bleach by tying the tips of the leaves together.

**GREEN CURLED.** Large and well adapted to this soil and climate. Pkt., 5c; oz., 15c; ¼ lb., 40c; postpaid.

**MOSS CURLED.** Leaves very finely curled Pkt., 5c; oz., 15c; ¼ lb., 40c; postpaid.

**WHITE CURLED.** Very tender when cut young; blanches readily. Pkt., 5c; oz., 15c; ¼ lb., 40c; postpaid.

**KALE or BORECOLE**

BLAETTER KOHL

Ready for table in 100 to 130 days.

1 oz. to 300 feet of drill, and makes 5,000 plants. Sow about April 15 in well prepared soil, covering the seeds thinly. Cultivate like cabbage. Much improved by freezing.

**TALL GREEN CURLED.** About two feet high with numerous dark green curled leaves. Pkt., 5c; oz., 10c; ¼ lb., 25c; postpaid.

**DWARF GERMAN.** (German Greens.) The leaves are curly, bright green, very tender, and delicate flavor. Pkt., 5c; oz., 10c; ¼ lb., 25c; postpaid.

**KOHLRABI**

KOHLRABI

1 oz. to 300 ft. drill and makes 3,000 plants. A vegetable intermediate between the cabbage and turnip. The edible bulb is served like turnip. Sow from May to July in rows 18 inches apart, and thin. Cultivate the same as cabbage.

**EARLIEST SHORT LEAVED WHITE VIENNA FORCING.**

This variety is especially adapted for early work and forcing; delicate flavor, flesh white and very tender.

Pkt., 5c; oz., 25c; ¼ lb., 75c; postpaid.

**EARLY WHITE VIENNA.** A favorite sort; flesh white and tender. Pkt., 5c; oz., 20c; ¼ lb., 50c; postpaid.

**EARLY PURPLE.** Purple outside with white flesh. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.75; postpaid.

**LEEK**

LAUCH

1 oz. to 100 feet of drill, and makes 1,500 plants. Succeeds best in light, rich soil. Sow early in drills 1 inch deep and 1 foot apart. When 6 inches high, transplant in rows 10 inches apart each way, as deep as possible, that the neck may be bleached.

**AMERICAN FLAG.**

An old favorite: Large with broad leaves growing only on two sides; enormous size; best for forcing; excellent keeper. Pkt., 5c; oz., 15c; ¼ lb., 40c; postpaid.



AMERICAN FLAG

**DON'T FAIL TO SEE OUR NOVELTIES ON PAGE 48**



**GARDEN HUCKLEBERRY**

**A New, Heavy Yielding Garden Berry**

Could not supply the demand for these last year. Send your order early.

This new fruit can be grown from the seed the first year and produces fruit as large as a grape; the color is jet black, and when cooked can scarcely be discerned from the real huckleberry. Plant and cultivate same as tomatoes. Do not eat green. Berries make splendid pies, jelly and sauce. Parboil a few minutes in soda water, using about 1 teaspoonful of soda to 1 lb. of fruit. After pouring off this water add sugar and cook slowly for several hours; a little vinegar or lemon juice improves the flavor. Very desirable while waiting several years for hardy fruits to come into bearing, or in dry climates where the ordinary small fruits do not succeed. Pkt., 5c; oz., 20c.

**GARLIC**

The sets should be planted in spring. Cultivate same as onions. Sets, per oz., 5c; ¼ lb., 15c; lb., 40c; postpaid.

**HERBS**

Herbs delight in a rich, mellow soil. Those marked with a \* are perennial. Sow early in spring in shallow drills, one foot apart; when up a few inches thin out; cut just before they come into full blossom, tie in bunches and hang up or spread thinly.

**DILL.** Leaves and seed are used in soups, sauces and pickles. It reseeds itself each year. Pkt., 5c; oz., 10c; ¼ lb., 20c; postpaid.

\***LAVENDER.** (Lavendel.) Aromatic, medicinal herb. Pkt., 5c; oz., 20c; ¼ lb., 60c; postpaid.

\***MARJORAM, SWEET.** (Majoran.) Leaves and shoots for seasoning. Pkt., 5c; oz., 20c; ¼ lb., 60c; postpaid.

\***SAGE.** (Salbei.) Most useful herb for seasoning. Pkt., 5c; oz., 15c; ¼ lb., 40c; postpaid.

**SUMMER SAVORY.** (Bohnenkraut.) Used for flavoring soups. Pkt., 5c; oz., 15c; ¼ lb., 40c; postpaid.

\***THYME.** (Thymian.) For medicinal use. Pkt., 5c; oz., 50c; ¼ lb., \$1.50; postpaid.

**MINT**

The old-fashioned mint has been growing in favor of late years. Used in flavoring meats, etc., also for mint sauce. Easily grown. We offer only roots. Per clump, 15c; 2 for 25c; postpaid.

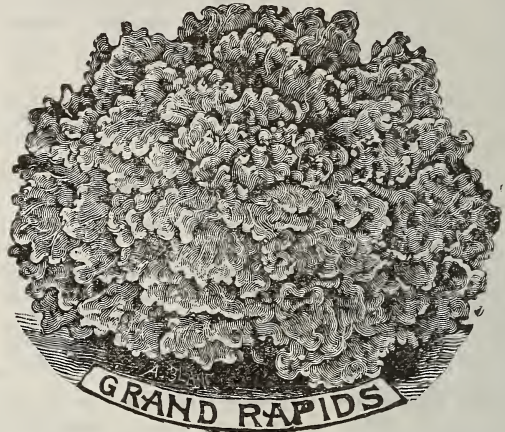
Fit for use in 3 or 4 weeks, marketable size, 60 to 75 days from seed

LETTUCE LATTICH SALAT

1 OUNCE TO 400 FEET OF DRILL

Lettuce thrives best in a light, very rich, moist soil, but does well in common garden soil enriched with rotten manure. For first crop sow in gentle heat in February, and transplant to 10 inches apart. It may be sown thickly and cut when plants are very young. For a summer supply sow thinly in shallow drills in a cool, partially shaded place, in rich soil, and thin out to a foot apart.

EARLY CURLED SILESIA. An early, erect growing and loose heading lettuce, especially adapted for outdoor planting, and can be used when very young. Exceedingly sweet and well flavored. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 80c; postpaid.

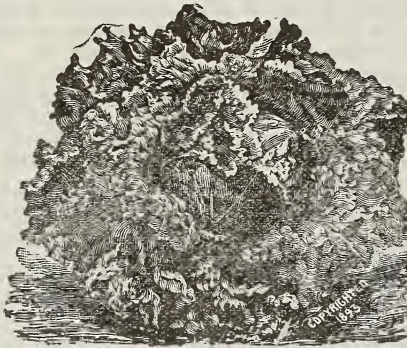


CABBAGE OR HEADING VARIETIES

The best results with head or cabbage sorts is only obtained when the plants are transplanted several times.

HANSON. Forms a large, flat head, resembling that of cabbage and so slow to form a seed stalk that it often fails to seed at all. Very tender and sweet. A standard summer heading lettuce. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 85c; postpaid.

DENVER MARKET. An early variety of Head Lettuce, either for forcing or open ground. It forms large heads, of good light green color. The leaves are blistered (like the Savoy Cabbage), very crisp and tender. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 80c; postpaid.



ICEBERG

ICEBERG. Makes a large, handsome, crisp head, conical in shape, tightly folded and well blanched; outer leaves fringed. Very highly esteemed for its beautiful appearance and mild flavor, even during hot summer months. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 90c; postpaid.

CURLED OR LOOSE-LEAVED VARIETIES

GRAND RAPIDS. As a lettuce for greenhouse forcing, this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot and standing for some days after being fit to cut. The plant is upright and forms a loose cluster of large, light leaves. It is useful also for outdoor planting. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 90c; postpaid.

SIMPSON'S EARLY CURLED. Leaves broad, frilled and blistered. Light green, sweet, tender, and well flavored. An early, erect growing sort. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 80c; postpaid.

BLACK SEEDED SIMPSON. The leaves are large and form a compact mass. They are thin, tender and of a very light green color. Well adapted for growing under glass or for very early spring use. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 85c; postpaid.

EARLY PRIZE HEAD. Forms a mammoth plant, in which even the outer leaves are crisp and tender; color bright green tinged with brownish red. It is of superb flavor and very hardy. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 85c; postpaid.

\*\*\*\*\* Arapahoe Co., Colo., Jan. 31, 1913. \*\*\*\*\*

Your seeds pleased both Mr. Lindfors and myself last year. Got a good crop from them. The lettuce was something fine. Wish you could have seen the heads, larger than any irrigated lettuce, some were about 16 inches across or more. MRS. GEO. LOWRY. \*\*\*\*\*

1 oz. to 75 feet of drill

MUSTARD

Very hardy. Seed can be sown as soon as the soil is free from frost, in shallow drills. Cut when a few inches high. It grows rapidly, and several sowings may be made.

CHINESE. The immense leaves grow rapidly, and can be cut frequently until killed by frost. Leaves are eaten boiled, like spinach. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; postpaid.

MAMMOTH SOUTHERN CURLED. The large curled-leaf variety, popular in the South, where the seed is sown in the fall for spring use. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c; postpaid.

WHITE. A small pungent salad; the seed is also used for flavoring pickles, etc. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 55c; postpaid.



Earliest varieties ready in 90 to 100 days from sowing. General crop requires 115 to 140 days.

# MUSKMELONS

ONE OUNCE TO 50 HILLS; 2 TO 3 POUNDS PER ACRE.

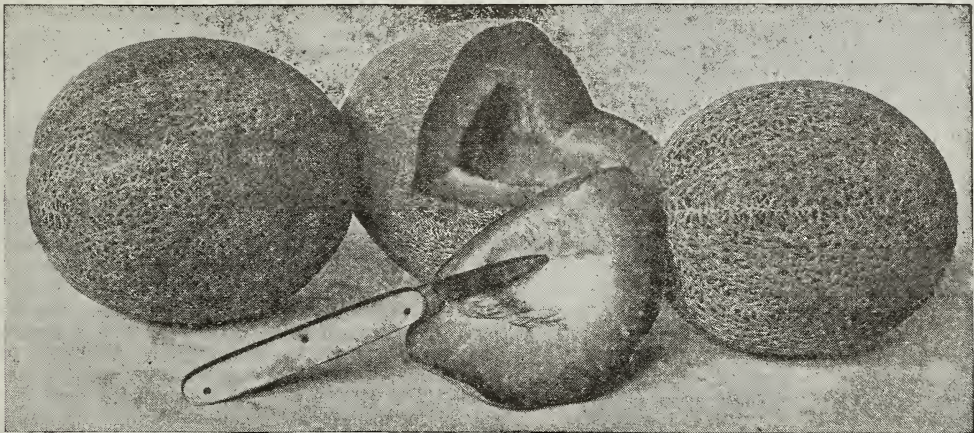
Melons thrive best in a light rich soil. Plant when the ground has become warm and dry, and danger from frost is past, in hills 6 feet apart each way in well enriched soil 12 to 15 seeds in each hill. After all danger of bugs is over thin out to 3 plants per hill. When about three feet long, pinch off the tips to make them branch, and the fruit mature earlier. G. Green Flesh. S. Salmon Colored Flesh. Y. Yellow Flesh.

**ROCKY FORD. G.** A small oval melon, slightly ribbed and covered with a coarse netting. The flesh is thick, green, sweet and juicy; solid to the rind; early and popular. Of the best for hotel and restaurant use, and for the home garden. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c; ptpd.

**GRAND. S.** A most excellent new melon of a peculiar rich green color, slightly ribbed and netted. Has uniformly rich, thick, salmon-colored flesh of most excellent flavor. It is from ten to fourteen days earlier than Osage. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00; postpaid.

**HOODOO. S.** A new early orange flesh variety of oval shape and uniform in size. The flesh is very thick, of fine grain and sweetest flavor; a heavy yielder. Somewhat resembles Rocky Ford. Splendid shape for serving in halves. The rind being tough, makes it a good shipper. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00; ptpd.

**BURRELL'S GEM. S.** Very much like the Rocky Ford, but has orange colored flesh. The flesh is fine grained and spicy. It is a good keeper. Fruits large and somewhat elongated. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c; postpaid.



**OSAGE, or MILLER'S CREAM. S.** A standard sort, medium size, oval, dark green, netted, and slightly ribbed. The flesh is thick, and firm, rich salmon, highly flavored and delicious to the rind. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00; postpaid.

**EMERALD GEM. Y.** A small, very early melon, form globular; skin smooth, dark green. The ribs are marked, flesh very thick, with small seed cavity, and the flavor is sweet and luscious. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00; postpaid.

**TIP TOP. Y.** Every fruit produced, whether big or little, early or late in the season, is a good one—sweet, juicy and fine flavor, firm, but not hard fleshed, eatable to the very outside coating. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00; ptpd.

**LONG ISLAND BEAUTY. G.** Fruits of large size, well flattened, heavily ribbed and netted. Of very handsome appearance, and fine quality. Most highly recommended. It ripens as early and is similar to Hackensack, but superior. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c; postpaid.

**PAUL ROSE, or PETROSKY. S.** Small, oval, highly flavored and very sweet....

**CHICAGO MARKET. G.** Early, large, nearly round, small seed cavity, delicious....

**EXTRA EARLY HACKENSACK. G.** Like Hackensack but about ten days earlier....

**HACKENSACK, TURK'S CAP. G.** Large, round, flattened; deep, wide ribs.....

**LONG CANTALOUPE. Y.** Skin yellow, not netted; good quality.....

**NUTMEG. G.** Very early, fine quality; fair size, with thick, sweet flesh.....

**VINE PEACH, VEGETABLE MELON.** For preserves, sweet pickles, mangoes....

	pkt.	oz.	¼ lb.	lb.
PAUL ROSE, or PETROSKY. S.	\$.05	\$.10	\$.30	\$1.00
CHICAGO MARKET. G.	.05	.10	.25	.75
EXTRA EARLY HACKENSACK. G.	.05	.10	.25	.75
HACKENSACK, TURK'S CAP. G.	.05	.10	.25	.75
LONG CANTALOUPE. Y.	.05	.10	.25	.85
NUTMEG. G.	.05	.10	.25	.75
VINE PEACH, VEGETABLE MELON.	.05	.10	.35	1.25

## MUSHROOM SPAWN

**AMERICAN, PURE CULTURE SPAWN.** Produced by the new grafting process, from selected and most prolific varieties, has never failed to run. Per Brick, enough for 8 square feet, 35c; 5 for \$1.50, by mail, postpaid. By express, at buyer's expense, per Brick, 25c; 6 Bricks, \$1.40; 12 Bricks, \$2.75.



**MUSHROOMS. How to Grow Them.** The most practical work on the subject ever written. Describes how they may be grown with profit by market gardeners and also how to grow them for home use. 170 pages. \$1.00.

Ready from 90 to 140 days from seed

# WATERMELON

WASSERMELON

1 oz. to 30 hills; 4 lbs. per acre

To get good strong vines early in the season, make large, well drained hills of earth, made very rich, about eight feet apart. In these plant the seed as soon as the ground is warm and dry, and carefully protect the young plants from insects, and hasten their growth by the use of liquid manure, ls., light seed; ds., dark seed.

## McIVER'S WONDERFUL SUGAR.

ls. The melons attain a great weight, are of a very handsome appearance, never crack or lose their fine flavor. It is a very productive and hardy variety and one that will take the lead wherever known; oblong; striped skin. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 65c; postpaid.

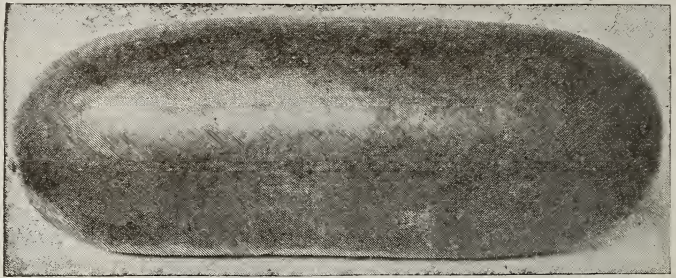
## KLECKLEY SWEETS. (Monte Cristo.)

ls. Large oblong melon, skin dark green. The rind is only about ½ in. in thickness. The scarlet flesh is sweet and sugary and is of such texture that it leaves no strings of pulp in eating. The melon is better for home use than for shipping, and we believe it is the best table melon today. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; postpaid.

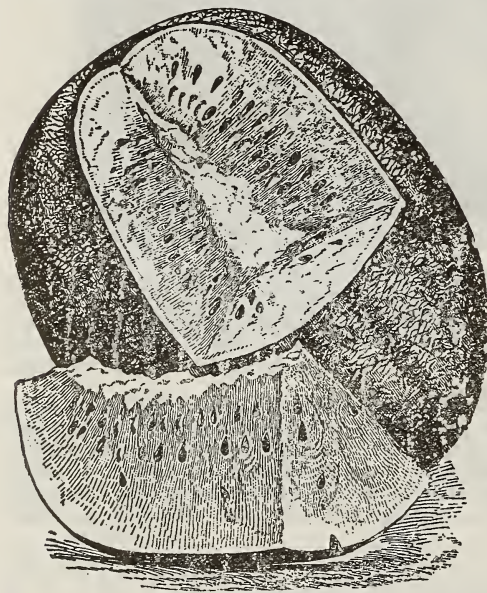
**ALABAMA SWEET.** ls. A large and attractive Melon. oblong in shape, early in maturing, and very sweet. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; postpaid.

**BLACK BOULDER.** ds. It is enormously productive, nearly round in shape, reaching a mammoth size, with rich dark green skin; flavor equal to any melon, and shipping qualities excellent. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 65c; postpaid.

**COLE'S EARLY.** ds. This is a very choice melon for the home garden and can be grown farther north than any other variety. The flesh is bright red, crisp, and very delicate in texture, sweet and refreshing in flavor. It is an abundant bearer, of medium size, but very solid, with thin rind. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 55c; postpaid.



KLECKLEY SWEETS



SWEET HEART

**CUBAN QUEEN.** ds. One of the largest varieties, skin striped dark and light green; heavy cropper; flesh bright red, luscious, crisp, sugary. A favorite melon for home and market. One of the best keepers, and a first rate shipper. Price same as Cole's Early.

**DUKE JONES. (Jumbo.)** ls. Very large, nearly round, dark green; flesh solid, deep red, and of fine quality. Very productive. A good shipper. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c; postpaid.

**HALBERT'S HONEY.** ls. A splendid sort for home use or local market. Vine vigorous and productive; fruit large and oblong; color dark glossy green; flesh very bright, rich red, and exceedingly sweet, extending close to the rind, too crisp and brittle to be a good shipper. Price same as Kleckley Sweets.

**ICE CREAM. (Peerless.)** ls. It is medium in size, almost, round; the skin is a pale green, slightly mottled; flesh bright scarlet, solid to the center, sweet, melting and delicious. Price same as Cole's Early.

**SWEET HEART.** ds. Vine vigorous and productive, ripening its fruit early; fruit large, oval, very heavy, uniformly mottled. Green and light green; rind thin, but firm; flesh bright red, firm and solid, but very melting and sweet. The melons retain their good quality for a long time. Price same as Cole's Early.

**TOM WATSON.** The Tom Watson melon has in a few years become one of the most popular of all shipping melons. The fruits are similar in shape, color and splendid quality to the Kleckley Sweets, but average

larger in size and have a tougher rind, making them especially adapted for shipping. They ripen but a few days later than the Kleckley Sweets. It is one of the very best melons to grow for the market and will command highest price. Pkg., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00; postpaid.

Large pkt., 5c. Deduct 10c per lb. if by express.

	All Postpaid		
	Oz.	¼ lb.	lb.
<b>COLORADO PRESERVING CITRON.</b> gs. For preserves.....	\$0.10	\$0.20	\$0.65
<b>DIXIE.</b> ds. Fruit oval, large, early, and of fine appearance. Skin dark green, striped, flesh deep scarlet, sweet, tender and juicy.....	.10	.20	.55
<b>FLORIDA FAVORITE.</b> ls. Oblong; mottled dark green, striped; bright red flesh....	.10	.20	.60
<b>GYPSY or RATTLESNAKE.</b> ls. Oblong, dark and striped; bright red flesh.....	.10	.20	.55
<b>GRAY MONARCH. (White Icing.)</b> ls. Large, long; crimson flesh, light skin.....	.10	.20	.55
<b>KENTUCKY WONDER.</b> ls. Large, oblong, dark green, red seed and flesh.....	.10	.20	.55
<b>KOLB GEM.</b> ds. Striped, very large and an excellent shipper.....	.10	.20	.55
<b>MOUNTAIN SWEET.</b> ds. Early, fruit large, oval, rind dark green, flesh scarlet, solid dark green skin.....	.10	.20	.55
<b>PHINNEY'S EARLY.</b> ls. Extra early, oblong; flesh pink.....	.10	.20	.55

ONE OUNCE TO 300 FT.  
OF DRILL; 4 TO 5 LBS.  
TO THE ACRE.

# ONIONS

## ZWEIBELN

Ready for green onions  
in 60 days. Main crop ma-  
tures in 130 to 190 days  
from sowing.

The onion is most successfully grown in a rich sandy loam. Continued cultivation upon the same plot of ground, contrary to the general rule, rather improves the crop than otherwise. As early as the ground can be worked in the spring, sow the seeds in drills 14 inches apart, covering half an inch. When the plants can just be seen in the rows, commence hoeing, just skimming the surface. Subsequently weed thoroughly and carefully by hand. When the tops die, pull the onions and spread evenly over the ground; stir or turn until thoroughly dried, then cut the tops off ½ in. from the bulb.

**AUSTRALIAN BROWN.** Distinct from all others; is nearly round, wonderfully hard and solid, ripens extremely early; never makes scullions; of medium size, skin, a deep amber brown, flesh mild and agreeable. No other onion has such keeping qualities. Pkt., 5c; oz., 15c; ½ lb., 40c; lb., \$1.40; postpaid.

**EXTRA EARLY RED FLAT.** Matures very early, yields abundantly, and is of mild flavor; medium size; deep red and solid. Poor keeper. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.35; postpaid.

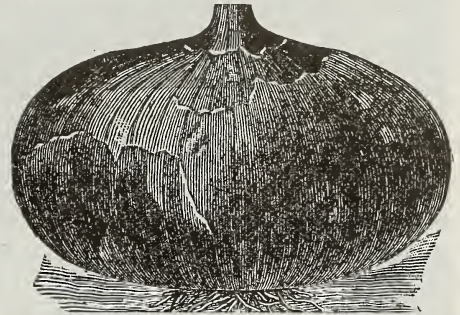
**GLOBE WETHERSFIELD RED.** Remarkable for size, earliness, productiveness, beauty of color, perfection of shape, and long keeping qualities. Possesses all the excellent qualities of Red Wethersfield and Yellow Globe Danvers. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.25; pstopd.

**LARGE RED WETHERSFIELD.** This is the standard and favorite variety. Large size, deep, purplish white, stronger flavored than larger varieties. Very productive and an excellent keeper. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10; postpaid.

**MAMMOTH SILVER KING.** Handsome flat onion of enormous size, silvery white, tender, of a mild sweet flavor. The best keeper among the white varieties. Pkt., 5c; oz., 20c; ¼ lb., 55c; lb., \$1.60; postpaid.

**PRIZE TAKER.** It is of immense size, nearly a perfect globe, with thin skin of bright straw color. It ripens up hard and fine, and presents

**NOTICE**  
Take off 10c per lb. if seed goes by freight.  
Take off 10c per lb. in 5 lb. lots.



RED WETHERSFIELD

a handsome appearance. The flesh is pure white, fine grained, mild and delicate in flavor. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.35; postpaid.

**WHITE PORTUGAL.** (Silver Skin.) A large flat onion of mild flavor, and great beauty; an excellent early ripening sort. Pkt., 5c; oz., 20c; ¼ lb., 55c; lb., \$1.75; postpaid.

**WHITE QUEEN.** For pickling; small, flat, pure white; excellent flavor. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.35; postpaid.

**SOUTHPORT WHITE GLOBE.** Very large, solid and handsome; deep globe. Pkt., 5c; oz., 20c; ¼ lb., 55c; lb., \$1.75; postpaid.

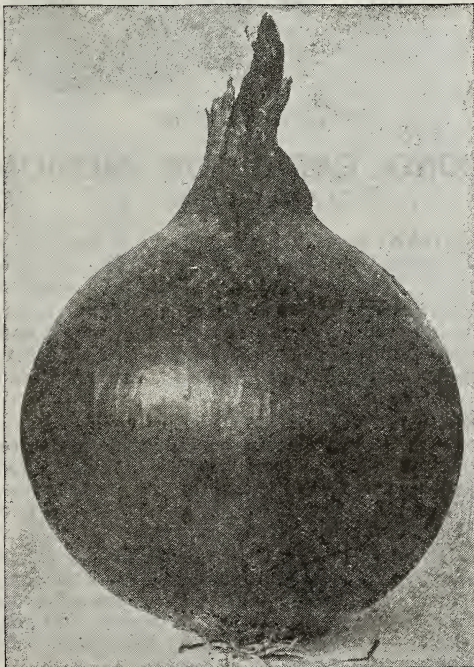
**SOUTHPORT YELLOW GLOBE.** Very large, deep globe; skin rich golden yellow; fine keeper. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.10; postpaid.

**SOUTHPORT RED GLOBE.** Large, matures late; a splendid keeper; of fine quality. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.25; postpaid.

**YELLOW GLOBE DANVERS.** A fine productive variety, of medium size, skin coppery yellow, flesh white, comparatively mild and well flavored. Best of keepers. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25; ptpd.

**WHITE BERMUDA.** The bulbs are quite broad and flat in form. The color is not a clear white, as in our American varieties, but rather a pale straw; flesh crisp, solid and mild in flavor and early ripening. Pkt., 5c; oz., 20c; ¼ lb., 45c; 1 lb., \$1.45; postpaid.

**RED BERMUDA.** Bulbs of this variety are similar in form and early ripening to the Bermuda White, but grow larger in size, ranging from three to four inches in diameter; very flat and of a light pink color. The flesh is white, slightly suffused with pink. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.35; postpaid.



RED GLOBE WETHERSFIELD

### ONION SETS

	Postpaid		By Express
	pt.	qt.	qt.
Red Bottoms.....	\$0.15	\$0.25	\$0.15
Yellow Bottoms.....	.15	.25	.15
White Bottoms.....	.20	.30	.20
Winter Tops.....	.10	.20	.10

Write us for prices on onion sets in larger lots.

Grown in the Far North

## PEAS

## ERBSEN

1 quart to 100 feet of drill.  
1½ bu. per acre

For first early Peas sow in a light, rich soil, as early in March or April as the ground can be worked; for later varieties, sow in April or May. Discontinue sowing from June to August, after which, by sowing an extra early sort, a good crop can generally be secured. As Peas suffer considerably from drought during the hot summer months, it will be found of great benefit to sow the Peas in a trench six inches in depth, covering the Peas to a depth of two inches. As soon as sufficient growth has been made draw the earth about the vines. In this way a great deal more moisture is kept about the roots than if sown on the level and afterwards hilled up. The wrinkled varieties are not so hardy as the smooth sorts and should be planted later, owing to their liability to rot in the ground, but are much superior in flavor to the smooth Peas. Dwarf varieties sow in rows one foot apart, and taller sorts from 2 to 3 feet apart. Those marked thus \* are wrinkled and sweet.

## NOTICE

If sent by express at buyer's expense, 8c per pint or 15c per quart may be deducted from prices below.

## EXTRA EARLY VARIETIES

**ALASKA.** 2 ft. The earliest blue pea, of good flavor, dark green pods, well filled and ripen uniformly. One of the very best for market gardeners. Pkt., 5c; pt., 25c; qt., 40c; postpaid. Pk., \$1.75; by express.

\***AMERICAN WONDER.** 1 ft. Of the finest quality. Very prolific, with pods of fine size and form; requires no brush or support. It may be planted a week apart for succession. Pkt., 5c; pt., 25c qt., 45c; postpaid. Pk., \$2.00; by express.

\***McLEAN'S LITTLE GEM.** 1 ft. An early dwarf, green, wrinkled pea, of superior flavor and very prolific. Pkt., 5c; pt., 25c; qt., 45c; postpaid. Pk., \$2.00; by express.

\***NOTT'S EXCELSIOR.** 1 ft. Earliest wrinkled pea; of close, compact, dwarf growth. The pods average 3 inches in length, and are well filled to the squared ends with large peas, unusually sweet. It not only yields heavily in pods, but also in shell peas. Pkt., 5c; pt., 25c; qt., 45c; postpaid. Pk., \$2.00; by express.

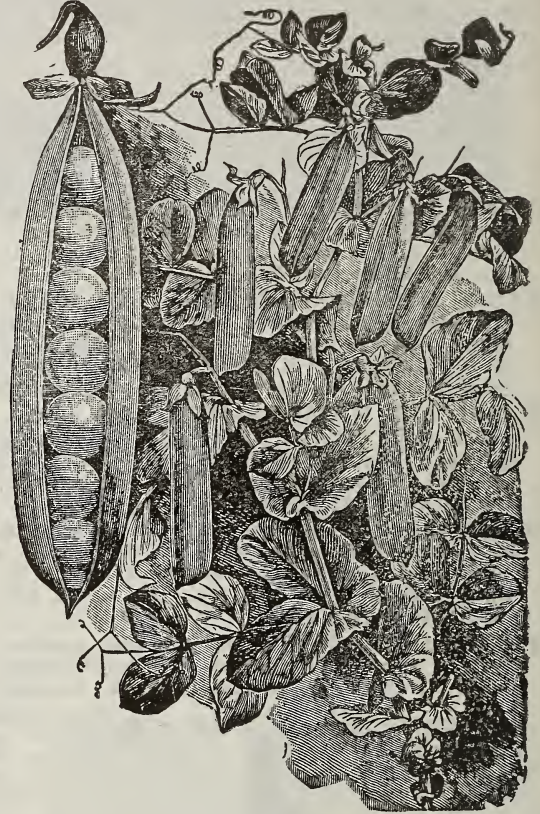
\***PREMIUM GEM.** 1½ ft. The pods are large and crowded with six to eight very large peas of fine quality. The seed is green, large, wrinkled, often flattened. Pkt., 5c; pt., 25c; qt., 45c; postpaid. Pk., \$2.00; by express.

**FIRST AND BEST.** 2½ ft. Very early, productive, pods good size and well filled. A favorite market pea. Pkt., 5c; pt., 25c; qt., 40c; postpaid. Pk., \$1.75; by express.

\***GRADUS. or PROSPERITY.** 2½ ft. An extra early wrinkled variety bearing immense pods, large peas of finest quality, superior both in size and delicious flavor. Pkt., 5c; pt., 30c; qt.,

50c; postpaid. Pk., \$2.00; by express.

**TOM THUMB.** 9 in. A smooth, white sort, very dwarf. Pkt., 5c; pt., 25c; qt., 45c; postpaid. Pk., \$2.00; by express.



NOTT'S EXCELSIOR

## SECOND EARLY OR MEDIUM VARIETIES

\***ABUNDANCE.** 2 ft. Long, round, well filled pod, productive, quality perfect. Pkt., 5c; pt., 25c; qt., 45c; postpaid. Pk., \$2.00; by express.

\***ADVENCER.** 2½ ft. Long pods which are abundantly produced, and well filled to the end; of excellent flavor. A first-class pea in every respect. Pkt., 5c; pt., 35c; qt., 45c; postpaid. Pk., \$2.00; by express.

\***EVERBEARING.** 2 ft. Peas are very large, of excellent quality. For continuance and profusion of bearing, this variety is unexcelled, which gives especial value for the late summer and autumn use. Pkt., 5c; pt., 25c; qt., 45c; postpaid. Pk., \$2.00; by express.

\***HORSEFORD'S MARKET GARDEN.** 2 ft. A great favorite with the market gardeners. Pods are large, well filled with large peas of a delicious sweet flavor. A prolific bearer. Pkt., 5c; pt., 25c; qt., 45c; postpaid. Pk., \$2.00; by express.

FARMOGERM WILL MAKE YOUR PEAS EARLIER, BETTER AND LAST LONGER. PAGE 28.

LATE OR MAIN CROP VARIETIES

For a succession of tall growing varieties plant Gradus, Advancer, Champion of England.

\***CHAMPION OF ENGLAND.** 4½ ft. Vines are heavy, pods large, nearly straight, and well filled with tender peas, which are sweet and of excellent quality. It is a profuse bearer, most reliable late sort. Pkt., 5c; pt., 25c; qt., 45c; postpaid. Pk., \$1.75; by express.

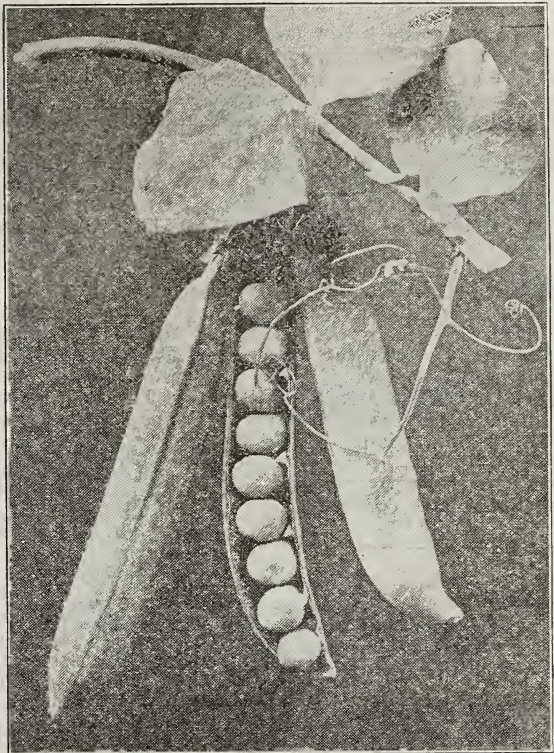
\***TELEPHONE.** 4 ft. Immensely productive. The pods are very large, so well filled with peas of excellent quality that Telephone has become one of the most prominent late peas to be grown for market. Pkt., 5c; pt., 25c; qt., 45c; postpaid. Pk., \$2.00; by express.

\***IMPROVED STRATAGEM.** 2 ft. Vines of strong growth with large foliage; do not need any support. Pods of large size, well filled with large, dark green peas of rich, sweet flavor. One of the very finest. Pkt., 5c; pt., 25c; qt., 45c; postpaid. Pk., \$2.00; by express.

**WHITE MARROWFAT.** 4 ft. Vines are very robust. Bears many pods, always well filled. The peas are of only ordinary quality. Pkt., 5c; pt., 20c; qt., 35c; postpaid. Pk., \$1.50; by express.

**MELTING SUGAR.** This is the best of the edible podded peas. The pods grow about 5 to 6 inches long, are stringless and very tender, and may be used the same as a snap bean; 3 to 4 ft. Pkt., 5c; pt., 30c; qt., 45c; postpaid. Pk., \$2.00; by express.

**CANADA FIELD AND COW PEAS.** (See Forage Plants, page 37.)  
\*Wrinkled and Sweet.



CHAMPION OF ENGLAND

OKRA or GUMBO

ESSBARER SAFRAN

1 oz. to 40 feet of drill. Ready for table in from 90 to 105 days from seed.

The pods when young are used in soups, stews, etc. The plants are of the easiest culture. Sow at the usual time for all tender vegetables, in drills two inches deep, setting the plants 2 feet apart.

**IMPROVED DWARF.** An early variety, pods comparatively short but very numerous. Pkt., 5c; oz., 15c; ¼ lb., 25c; postpaid.

**WHITE VELVET.** Pods round, smooth, large and attractive; produced in great abundance. Pkt., 5c; oz., 15c; ¼ lb., 25c; postpaid.

PEANUTS

Culture very simple. Plant in light, sandy soil in April, in pods or shelled, two to a hill on level ground. Hill up from time to time as required. Pkt., 5c; lb., 25c; postpaid.

PARSNIP  
PASTINAKE

1 oz. to 100 feet of drill, 5 or 6 lbs. per acre. Matures in 125 to 140 days from seed.

Sow in April or early May. Cultivate the same as carrots. They may be dug in the autumn and stored for winter use, but if left in the ground till spring are very much improved in flavor. Sow a liberal quantity of seed, as from its nature it does not always come up well.



**HOLLOW CROWN.** Standard variety; roots long, very smooth; white, tender, sugary, and of excellent flavor. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 55c; postpaid.

**IMPROVED GUERNSEY.** (Improved Half Long.) The roots do not grow so long as the Hollow Crown, but are of greater diameter and more easily gathered. Very smooth, the flesh fine grained and of excellent quality. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 55c; postpaid.

Having tried a few of your seeds last year that a friend gave me and had such good success with them I would like to have your new seed book as soon as possible so as to make out a list.

Harper Co., Kansas, Febr. 17th, 1913.

MRS. RAY SNELL.

1 ounce to 150 feet of drill

# PARSLEY PETERSILIE

Soak the seeds a few hours in lukewarm water and sow early in the spring in drills one foot apart. Thin out to four inches. A few seeds sown in onion rows use no space. To preserve in winter, transplant to a light cellar or glass frames. Used for garnishing and seasoning.

**CHAMPION MOSS CURLED.** The plant resembles a tuft of finely curled moss, leaves extra large, and a rich deep green. Valuable for garnishing and also as ornamental foliage plants for borders of beds. Grows in window boxes. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00; postpaid.

**EXQUISITE.** Beautiful and closely curled leaves of dark green, flavor excellent. As a pot plant for winter in window or on dining table it is simply "exquisite." Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00; postpaid.

**TURNIP-ROOTED or HAMBURG.** The root is the edible part. Used for flavoring soups. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00; postpaid.

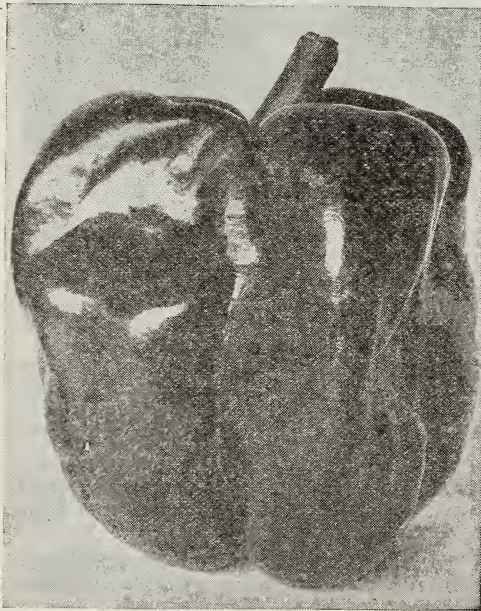


CHAMPION MOSS CURLED PARSLEY

ONE OUNCE TO 2,000  
PLANTS

# PEPPER PEPPER

Requires from 135 to 160  
days from sowing to ma-  
turity.



CHINESE GIANT

PEPPER PLANTS, Page 2.

The small peppers are the hottest, the large varieties being quite mild in flavor. Sow in hotbed early in April and transplant to the open ground when weather is favorable. They may also be sown in the open ground when danger of frost is past and the soil is warm.

**CHINESE GIANT.** An extremely large sweet pepper, deep scarlet when mature, similar in shape to Large Bell, but more than twice as large. Strong, vigorous and productive. Pkt., 5c; oz., 30c; ¼ lb., 90c; postpaid.

**GOLDEN DAWN.** Golden yellow; mild and sweet, size and shape of Large Bell. Pkt., 5c; oz., 25c; ¼ lb., 65c; postpaid.

**LARGE BELL or BULL NOSE.** Large and early; square shouldered, flesh thick, hard, and less pungent than most other sorts; much used for mangoes. Pkt., 5c; oz., 25c; ¼ lb., 65c; postpaid.

**LONG RED CAYENNE.** Bright red; pods slender, hot and pungent. Pkt., 5c; oz., 25c; ¼ lb., 65c; postpaid.

**MONSTROUS.** Of an irregular conical shape, one side usually being convex, the other concave. One of the most mild in flavor. Very large and of deep red color when ripe. Pkt., 5c; oz., 30c; ¼ lb., 75c; postpaid.

**RED CHILI.** Very productive, small, red, very hot. Excellent for pepper sauce. Pkt., 5c; oz., 25c; postpaid.

**RUBY KING.** Fruit very large, scarlet, sweet, of mild flavor, flesh quite thick, one of the best. Pkt., 5c; oz., 25c; ¼ lb., 65c; postpaid.

**SWEET MOUNTAIN.** Nearly, if not quite, identical with Bull Nose. Pkt., 5c; oz., 25c; ¼ lb., 65c; postpaid.

Middlesex Co., Conn., Oct. 12, 1912.

I find your seeds reliable and 80% of the purchased seed grew. This is more than I have been able to secure from any other house. Some seeds I have paid twice the price you charge for yours and they did not show any life whatever, particularly the flower seed.

W. E. PATTEN.

WE CARRY A FULL LINE OF GARDEN TOOLS, SPRAYERS AND SPRAY MATERIALS.  
WRITE FOR SPECIAL CATALOG.



# PUMPKINS

## KUERBIS

From 100 to 120 days  
from sowing seed to  
maturity.

One ounce to 50 hills;  
3 to 4 pounds per acre.

Pumpkins are planted frequently in connection with a crop of corn, or as a second crop after early peas, etc. The following varieties are all thin and tender skinned, distinct from the hard or thick-shelled squashes. The fruits are quite susceptible to frost and should be gathered and stored in a cool, dry place. If bruised they will not keep any length of time.

**SMALL SUGAR.** Fruits of small size, averaging about ten inches in diameter, of excellent keeping qualities, flattened, slightly ribbed. Skin deep orange-yellow, flesh sweet. Very early. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c; postpaid.

**LARGE SWEET CHEESE.** Fruit flattened; skin rich cream color; flesh yellow, thick, tender, large, hardy and productive. Excellent for table use. Good keeper. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c; postpaid.

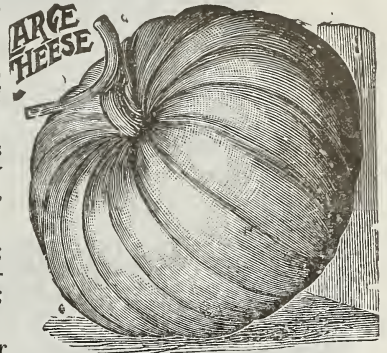
**CONNECTICUT FIELD.** Very productive, largely grown for feeding stock. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c; postpaid.

**SWEET POTATO.** Pear shaped, good size, skin creamy white. The seed is all in the cavity of the large end, the thick neck being solid; exceptionally fine quality. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; postpaid.

**JAPANESE PIE.** Early and productive, of medium size, large at one end, terminating in a crooked neck. Skin deep green with darker stripes; flesh is a rich salmon color, excellent quality; a good keeper. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; postpaid.

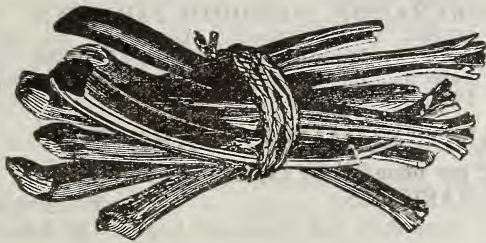
**CUSHAW, or CROOKNECK.** (Sometimes called a squash.) Productive; color light cream, sometimes lightly striped; flesh salmon colored, mealy and sweet. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c; postpaid.

**KING OF THE MAMMOTHS.** (Jumbo or Pot-iron.) Weighs from 40 to 150 pounds. Round flattened at both ends, skin and flesh bright yellow. It makes a good table pumpkin. Good keeper. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c; postpaid.



# RHUBARB OR PIE PLANT

**RHUBARBER.** One ounce to 500 Plants



The richer the ground is the better. Sow in drills an inch deep, and thin to six inches apart. In the fall transplant into very highly manured and deeply stirred soil, setting them four feet apart, and give a dressing of coarse manure every spring. The stalks should not be plucked until the second year, and the plant never allowed to exhaust itself by running to seed. In removing be careful to pull off close to the roots instead of cutting.

**VICTORIA.** Stalks very tall and large; skin thick and red-stained; pulp quite acid; very productive. Pkt., 5c; oz., 15c; ¼ lb., 40c; postpaid.

**LINNAEUS.** A large and tender sort, sometimes called wine plant. Pkt., 5c; oz., 15c; ¼ lb., 40c; postpaid.

**RHUBARB ROOTS.** Set in spring and they will be ready for use in the following season. 10c each, postpaid; 5c each, 50c per doz., by express, not prepaid.

# SWEET POTATOES

One bushel of potatoes should produce 2,000 sprouts. 6,000 to 7,000 plants to the acre.

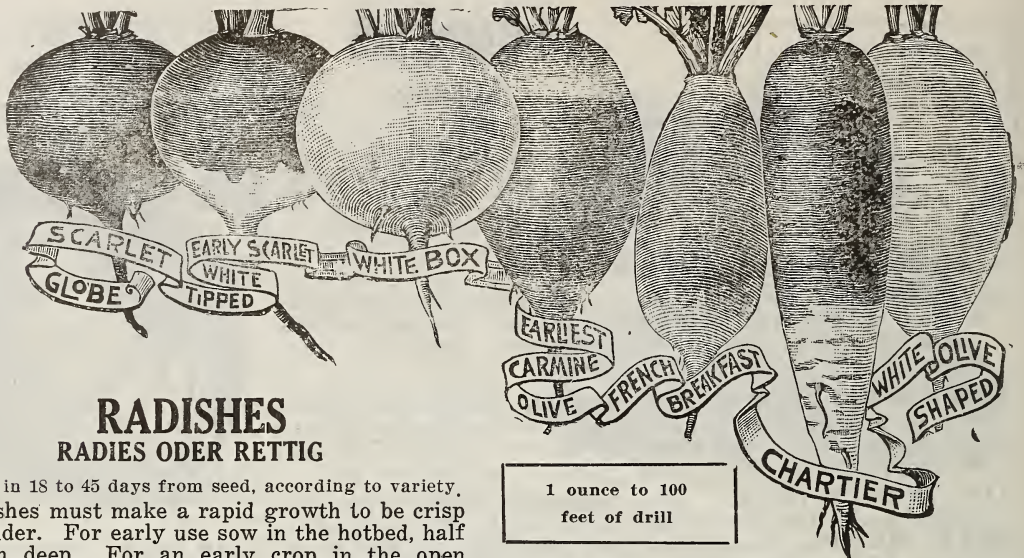
Succeed best in light, sandy soil. Stable manure is the best fertilizer. To obtain the sprouts, the entire potatoes are planted in beds, say 5 or 6 feet wide, and as long as required, the bed being opened 20 inches deep, filled with stable manure, and covered with 4 inches of sand. The potatoes are placed upon the sand 1 inch apart and covered with an inch of sand. This is covered with old hay or trash till the sprouts appear, when more sand is added, after removing trash, till it is 4 inches in depth on top of potatoes. The sprouts must be detached from the tubers without disturbing them. To do this hold the tuber in place with the left hand while the sprout is taken with the right. The sprouts are transplanted to the field and placed in rows 4 feet apart by a foot in the row. Ninety days are generally allowed from transplanting to digging.

**YELLOW JERSEY, YELLOW NANSEMOND.** These are the most desirable varieties. Ready about April 1. Write for prices.

**SWEET POTATO PLANTS.** Ready about May 1. For prices see page 2.

**IRISH POTATOES.** See page 27.

**TO MAKE A HOTBED SEE PAGE 2**



**RADISHES**  
RADIES ODER RETTIG

Ready in 18 to 45 days from seed, according to variety.

Radishes must make a rapid growth to be crisp and tender. For early use sow in the hotbed, half an inch deep. For an early crop in the open ground sow thinly in drills on rich, sandy soil as early in the spring as it is fit to work. For a succession sow every two weeks.

**\*EARLY BIRD.** Bright red turnip, medium size. Ready to pull in 20 days after sowing. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c; postpaid.

**\*GIANT CRIMSON GLOBE.** This is a new variety suitable for forcing or early planting out of doors. It will grow to 6 and 7 inches in circumference and still remain solid and juicy, often 4 inches across. It is round to oval, and is very attractive. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 70c; postpaid.

**GLASS or CINCINNATI MARKET.** This new radish is a fine acquisition. It is a long radish of light red color, of uniform size. The flesh is transparent white, always crisp and brittle, even if grown to a large size, and mild flavored. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c; postpaid.

1 ounce to 100 feet of drill

**\*ICICLE.** The roots, 4 inches long, are stump-rooted and of transparent whiteness, with short leaves; grows very quickly, excellent flavor. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

**NEW SPARKLER.** A distinct, new 18 to 21-day radish; has a beautiful bright scarlet top, with tip of purest white. It is solid, crisp and sweet, remaining so for a long time. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00; postpaid.

**STUTTGART.** Early giant white, large top-shaped, often 4 inches across, flesh and skin white. Remains crisp and solid even after it has attained its full size. Can be stored for winter use. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 65c; postpaid.

**SAKURAJIMA, MAMMOTH JAPANESE.** The largest radish known. Grows in its native country (Japan) to the weight of 21 lbs. Sow here in June or July same as winter radishes. Pkt., 5c; oz., 15c; ¼ lb., 35c.

**OTHER POPULAR EARLY AND SUMMER VARIETIES**

Large Packets, 5c. Deduct 10c per pound if by express.

**TURNIP-SHAPED VARIETIES**

By Mail Postpaid

<b>*NON PLUS ULTRA.</b> The standard forcing Radish; roots dark red, crisp and tender.....	.10	\$.20	\$.60
<b>EARLY SCARLET TURNIP.</b> Very early for general use.....	.10	.20	.55
<b>EARLY SCARLET GLOBE.</b> Deep scarlet; flesh white and tender.....	.10	.20	.55
<b>SCARLET TURNIP, WHITE TIP.</b> Beautiful and profitable for home and market.....	.10	.20	.55
<b>*ROSY GEM.</b> Tops and roots both small; skin bright scarlet, tipped white.....	.10	.20	.60
<b>WHITE BOX.</b> Popular white variety, grows quite large.....	.10	.20	.55

**OLIVE-SHAPED SORTS**

<b>*EARLIEST CARMINE OLIVE.</b> Excellent quality, very bright and attractive.....	.10	.20	.60
<b>*WHITE OLIVE FORCING.</b> White flesh and skin; crisp and mild flavor.....	.10	.20	.60
<b>*FRENCH BREAKFAST.</b> Red, tipped with white; very handsome.....	.10	.20	.55

**LONG VARIETIES**

<b>LONG SCARLET, SHORT TOP.</b> The standard variety.....	.10	.20	.55
<b>CHARTIER or SHEPHERD.</b> Large, long, summer radish; scarlet, white tip.....	.10	.20	.55
<b>WHITE VIENNA, or LADY FINGER.</b> White roots which are crisp and tender.....	.10	.20	.65
<b>WHITE STRASBURG.</b> Most popular summer sort, 4 inches long, 2 inches thick.....	.10	.20	.65
<b>SUMMER RADISHES, MIXED.</b> Round and long.....	.10	.20	.55

**WINTER SORTS**

Sow in July. Pull before severe frosts and store in damp cellar.

<b>CHINESE ROSE.</b> (Scarlet China.) Large oval, bright rose-colored, good keeper.....	.10	.20	.65
<b>CALIFORNIA MAMMOTH WHITE.</b> Very large, growing twelve inches long.....	.10	.20	.65
<b>ROUND BLACK SPANISH.</b> Fine globe shaped, popular with Germans.....	.10	.20	.65
<b>LONG BLACK SPANISH.</b> Black skin; white flesh, long, will keep until spring.....	.10	.20	.65

**\*FOR GREENHOUSE FORCING, HOTBED PLANTING OR FOR EXTRA EARLY OUTDOORS.**

## SQUASH

### SPEISE KUERBISZ

1 oz. to 20 hills; 3 to 4 lbs. to the acre. Hills 8 feet apart each way.

#### From planting to maturity 100 to 125 days

If the winter varieties are not planted until the latter part of June they are more liable to escape the ravages of the borer. Gather before injured by frost for winter use, care being taken not to break the stem from the squash, as the slightest injury will increase the liability to decay.

### SUMMER AND EARLY SORTS

One ounce to 20 hills; 4 to 5 lbs. to the acre. Hills 4 feet apart each way.

Ready for use in from 55 to 65 days from planting.

Any good, enriched soil is adapted to the growth of the Squash. The seed should not be sown in the spring until danger from the frost is past and the ground is warm and thoroughly settled. Keep the earth about the plants loose and clean. Three plants to the hill. For remedy against bugs see Insecticides. (Pages 78-79.)

**FORDHOOK.** Small, oblong, shell yellow, flesh dry and sweet, and of good flavor. Very early; desirable for either summer or winter use. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 85c; postpaid.

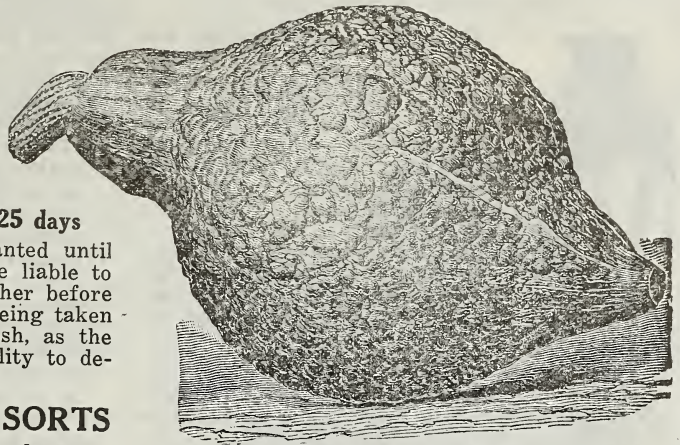
**GOLDEN BUSH SCALLOP.** A very early, flat, scalloped variety; skin deep yellow; flesh pale yellow and well flavored. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c; postpaid.

**SUMMER CROOK NECK.** Very early and productive. Fruit about one foot long, with crooked neck and warty surface; color bright yellow. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c; postpaid.



WHITE BUSH SCALLOP

**WHITE BUSH SCALLOP.** (Patty Pan.) Very early, skin white, flesh tender and delicate, bears abundantly. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c; postpaid.



HUBBARD SQUASH

### FALL AND WINTER SORTS

**ORANGE MARROW.** The earliest by 10 days of the winter squashes. It is creamy orange in color; fine form, handsome appearance. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c; postpaid.

**BOSTON MARROW.** (Autumnal.) Large, oval form, skin bright orange, mottled with cream color; flesh rich salmon yellow, fine grained and good flavor, unexcelled for pies. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c; postpaid.

**CHICAGO WARTED HUBBARD.** Large size, dark green color, distinguished by a dense covering of knots (warts), a sure indication of splendid quality, thick flesh; good keeper. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; postpaid.

**GOLDEN HUBBARD.** Similar to the above, except that the skin is deep orange yellow. Flesh fine grained and of excellent flavor. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 80c; postpaid.

**MAMMOTH CHILI.** Enormous size, round, flattened at ends, skin orange color and slightly ribbed. Flesh thick and deep yellow. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c; postpaid.

**PERFECT GEM.** Nearly round; skin creamy white, flesh fine grained. Vine bears great number of small squashes. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 80c; postpaid.

**WINTER CROOK NECK.** Fruit long and crook-necked, skin dark green mixed with yellow. A fine keeper. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; postpaid.

**MARBLEHEAD.** Resembling the Hubbard, but of a lighter color, and is remarkable for its sweetness, dryness and delicious flavor. Good keeper. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; postpaid.

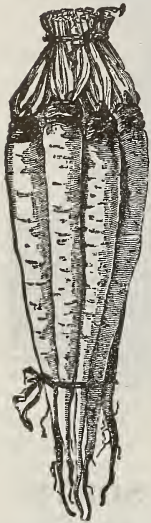
**SIBLEY.** (Pike's Peak.) Pear-shaped with stem on large end, skin smooth, pale green; flesh thick, orange color; very dry, rich and delicate flavor. Pkt., 5c; oz., 10; ¼ lb., 25c; lb., 75c; postpaid.

DISCOUNT ON VEGETABLE SEED PACKETS. SEE PAGE 2.

**SALSIFY OR VEGETABLE OYSTER**

**HAFERWURZEL**

One ounce to 75 feet of drill



Resembles a small parsnip, and when thinly sliced and cooked is a good substitute for oysters, having a very similar flavor. It succeeds best in light, rich soil. Sow early and quite deep. The leaves when they first appear look like grass, making it specially important to plant in rows. Thin out and cultivate like the carrot. Roots are perfectly hardy, and may remain out all winter, but should be dug early in the spring; store a quantity for winter use in cellar.

**MAMMOTH SANDWICH ISLAND.** Grows uniformly to an extra large size. The root is pure white and of superior quality. Invaluable to market gardeners. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c; postpaid.

**SWISS CHARD OR SEA KALE**

Far superior to the common beet for greens, of almost the same flavor and equal to spinach. It is much easier to wash and prepare for the table. Sown early in the spring in rows, and the seedlings thinned out to 6 inches in the rows, it makes rapid growth of leaves, and is fit for use for greens sooner than any other variety, and can be cut throughout the entire summer. Later the leaves grow very large, with broad, flat, wax-like stems and mid ribs, which may be cooked like asparagus or made into pickles. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00; postpaid.

\*\*\*\*\*  
 Clayton Co., Iowa, Mar. 20th, 1913.  
 I was very well pleased with your seeds  
 last year. J. F. GARBER.  
 \*\*\*\*\*

**SPINACH SPINAT**

One ounce to 100 feet of drill; 12 lbs. to acre.

Cultivated very extensively for "greens." A profitable crop for market. Select a rich, well-drained soil, highly manured. For a succession, sow early in April and again in May in drills, one foot apart and one inch deep, properly thinning out when the plants are an inch in the leaf. For early spring use, sow early in autumn and protect the plants with a light covering of leaves or straw.

**BLOOMSDALE.** (Savoy.) The earliest of all and one of the best; the leaves are numerous, curled and wrinkled. Oz., 5c; ¼ lb., 10c; lb., 30c; postpaid.

**LONG-STANDING.** (Thick Leaved.) A fine market sort. Leaves large and thick, somewhat crumpled. Does not run to seed early. Oz., 5c; ¼ lb., 10c; lb., 30c; postpaid.

**PRICKLY.** (Fall.) The hardiest of all, therefore, the best where the winters are severe. Oz., 5c; ¼ lb., 10c; lb., 30c; postpaid.

**NEW ZEALAND.** Entirely different from true spinach in type, in that it thrives during hot weather and in any soil, rich or poor. The tender shoots with golden yellow leaves are of good quality and may be cut throughout the summer. This is something new, but extra good. Plant three or four seeds in hills two feet apart each way. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c; postpaid.



Swiss Chard

**TOMATOES LIEBESAPFEL**

For Tomato Plants see Page 2

Mature in from 90 to 150 days from planting

1 ounce to 2,000 plants. ¼ lb. (transplanted) per acre

For early plants seed in boxes or hotbeds in March. When the plants are about two inches high, transplant to four inches apart each way. Set out of doors as soon as danger from frost is over. Transplant carefully four feet apart each way, and cultivate well as long as the vines will permit. To obtain-early fruit, pinch off the ends of the branches when the first fruit is set.

**SMALL TOMATOES**

Used for preserves, pickles, and to make "tomato figs"

	Pkt.	Oz.	Postpaid
<b>YELLOW PEAR.</b> Bright yellow color; flesh yellow and fine flavored.....	\$0.50	\$0.25	
<b>RED PEAR.</b> Fruit bright red, and of excellent flavor, distinctly pear-shaped.....	.05	.25	
<b>YELLOW PLUM.</b> Plum-shaped, clear, deep yellow, fine flavored.....	.05	.25	
<b>YELLOW CHERRY.</b> Same as Red Cherry, except color.....	.05	.25	
<b>YELLOW PEACH.</b> About 1½ inches across; skin like a peach, and pink.....	.05	.25	
<b>RED CHERRY.</b> About five-eighths of an inch in diameter; borne in clusters.....	.05	.25	
<b>HUSK.</b> (Ground Cherry.) Fruit golden yellow, size of cherry.....	.05	.25	

**TOMATOES—(Continued)**

**DWARF CHAMPION.** (Tree Tomato.) A great favorite. Extra early dwarf and compact in habit, the plant growing stiff and upright, fruit smooth, medium sized, purplish-pink. Pkt., 5c; oz., 25c; ¼ lb., 75c; postpaid.

**CRIMSON CHAMPION.** (Beefsteak.) Fruit very large, round and regular; bright scarlet; flesh solid and of the best quality; very productive. Pkt., 5c; oz., 25c; ¼ lb., 75c; postpaid.

**CHALK'S EARLY JEWEL.** The largest, smoothest, and finest flavored, early bright red tomato, so hardy that a very early planting can be made in the open ground. The foliage protects the fruit, borne in clusters, from sunscald, enabling the heavy crop to ripen perfectly. The tomatoes are bright scarlet, deep globe shape, and solid. Produced continuously throughout the season. Pkt., 5c; oz., 25c; ¼ lb., 75c; postpaid.

**DWARF STONE.** (Livingston's.) Very early and productive; in size, color and quality of fruit equals the Stone; in habit of vine resembles Dwarf Champion, but is stronger and more erect, admitting very close planting. Pkt., 5c; oz., 25c; ¼ lb., 65c; postpaid.

**JUNE PINK.** An extra early purple-fruited tomato similar to the popular scarlet-fruited Earliana in growth of vine, shape and size of fruit and time of maturing. Pkt., 5c; oz., 25c; ¼ lb., 80c; postpaid.

**LIVINGSTON'S HUMMER.** It is as round as a ball, and as there is very little indenture about the stem, there is practically no waste in preparing the fruits for use. The flesh is rich crimson scarlet and of a very fine quality.

**EARLIANA.** It is a full week ahead of all others. Plants of strong growth and very productive. Fruits large, deep red, and of superior quality. Smooth and free from cracks. Pkt., 5c; oz., 25c; ¼ lb., 75c; postpaid.



Ripens early, and is especially good for canning. Not quite as large as some varieties, but a good keeper, thus making it a good variety for marketing. Pkt., 5c; oz., 30c; ¼ lb., 95c; postpaid.

**LIVINGSTON'S CORELESS.** A new, large main-crop variety. In shape it is almost round, having about the same diameter each way. It has no green core, and is of a bright red color, making it very valuable either for slicing or for canning. It is immensely productive and the firm, solid flesh makes it one of the best for long distance hauling or shipping. It ripens all over and through and up under the stem all at the same time. Pkt., 5c; oz., 35c; ¼ lb., \$1.00; postpaid.

**LIVINGSTON'S NEW GLOBE.** Beautiful globe shape, permitting a greater number of slices than with flatter sorts. Among the very first to ripen, large size, very smooth, firm fleshed, few seeds, ripens evenly; color rose, tinged purple. Flavor excellent. The fruit is borne on short, jointed branching plants in great abundance. A good general cropper; one of the best for forcing. Pkt., 5c; oz., 25c; ¼ lb., 75c; postpaid.

**PONDEROSA.** Of immense size, solid, meaty, almost seedless, pinkish, purple, and of good flavor, late. Pkt., 5c; oz., 30c; ¼ lb., \$1.00; postpaid.

**STONE.** Large, perfectly smooth; bright scarlet; ripening even to the stem without a crack; very solid and heavy. The standard main crop variety. Pkt., 5c; oz., 20c; ¼ lb., 65c; postpaid.



NEW GLOBE

**OTHER STANDARD VARIETIES**

	All Postpaid		
	Pkt.	Oz.	¼ lb.
ACME. Bright pink; smooth, round, early, productive and popular.....	\$0.05	\$0.20	\$0.65
BEAUTY. Large, smooth, purplish pink, thick flesh; regular form.....	.05	.20	.60
ENORMOUS. Color deep red, smooth, solid meat, and a few seeds.....	.05	.25	.80
FAVORITE. Large, smooth, productive; a good shipper and canner.....	.05	.20	.60
GOLDEN QUEEN. The best, large, smooth, yellow tomato; finest quality.....	.05	.25	.75
QUARTER CENTURY. Very early. Like the Dwarf Champion, only bright red.....	.05	.25	.75
TROPHY. Large and bright red, solid, smooth; a great yielder.....	.05	.20	.60

Ready from 40 to 60 days  
from seed

## TURNIPS REUBEN

1 oz. to 150 ft. of drill;  
2 lbs. to acre.

The simplest method of keeping root crops in good condition for winter use—store in cool cellar in boxes, etc., and cover with dry sand or fine soil, thus excluding the air. They will keep as solid as when freshly dug, and are ready for use at any time.

The turnip is most easily affected in form and flavor, by soil, climate and mode of culture. Sow in drills about 16 inches apart and half an inch deep, or sow broadcast, but in either case be sure to have the ground rich and freshly dug. Sow for main crop from the middle of July to the last of August. In the field, turnips are generally sown broadcast, though much larger crops are obtained by drill culture.

**EXTRA EARLY PURPLE TOP MILAN.** Two weeks earlier than any other. Flat; white, with purple top; flesh white, fine grained and delicate. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c; postpaid.

**EXTRA EARLY WHITE MILAN.** Similar to above, but pure white. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c; postpaid.

**EARLY PURPLE TOP GLOBE.** Deservedly popular, heavy producer, of rapid growth, and superior quality; either for the table or stock. An excellent keeper. Pkt., 5c; oz., 8c; ¼ lb., 20c; lb., 45c; postpaid.

**DANISH BORTFELDER.** The Bortfelder is a native of Scandinavia and is considered the most productive of all turnips. It has a long cream-colored root and delicate green top. It is a rapid grower, heavy cropper and excellent keeper. It must be sown in the spring for summer and in the middle of the summer for winter purposes. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 70c; postpaid.

**PURPLE TOP STRAP LEAF FLAT.** The old, well-known sort for early spring and fall; purple above ground, flesh fine grained, of mild flavor and a good keeper. Pkt., 5c; oz., 8c; ¼ lb., 20c; lb., 45c; postpaid.

**WHITE EGG.** An egg-shaped variety, for spring or fall sowing; flesh white, firm, fine grained, mild and sweet; particularly desirable for table. Pkt., 5c; oz., 8c; ¼ lb., 20c; lb., 50c; postpaid.

## RUTA BAGAS OR SWEDES

Should be sown about a month earlier than turnips

**AMERICAN PURPLE TOP.** Tops very small; bulbs large; skin purple above, yellow underneath; flesh golden yellow, fine texture, sweet and of richest flavor; hardy, productive, and a good keeper; desirable for table use and stock feeding. Pkt., 5c; oz., 8c; ¼ lb., 15c; lb., 40c; postpaid.

**SKIRVING'S PURPLE TOP YELLOW.** Quite productive; flesh yellow and sweet flavor, shape oblong. Pkt., 5c; oz., 8c; ¼ lb., 15c; lb., 40c; postpaid.

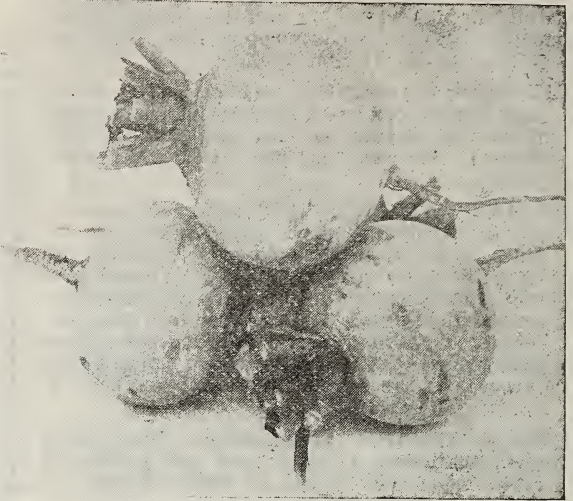
**SWEET GERMAN.** (Long White French.) Bulb enormous. Flesh white, solid and rich. The best keeper of all the Swedes, and popular for both table and stock. Pkt., 5c; oz., 8c; ¼ lb., 15c; lb., 40c; postpaid.

Notice Our Ruta Baga That Yields 49 Tons to the Acre. Page 7

## TOBACCO

1 ounce will sow about 25 square feet and produce plants for 1 acre  
**CONNECTICUT SEED LEAF.** An old, well-known variety. Pkt., 5c; oz., 20c; ¼ lb., 60c; postpaid.

**HAVANA.** Best for the manufacture of cigars. Pkt., 5c; oz., 20c; ¼ lb., 60c; postpaid.



**EARLY WHITE SNOWBALL.** (Six Weeks.) A perfect globe-shaped, white-skinned turnip. A good keeper; fine for family or market. Pkt., 5c; oz., 8c; ¼ lb., 20c; lb., 50c; postpaid.

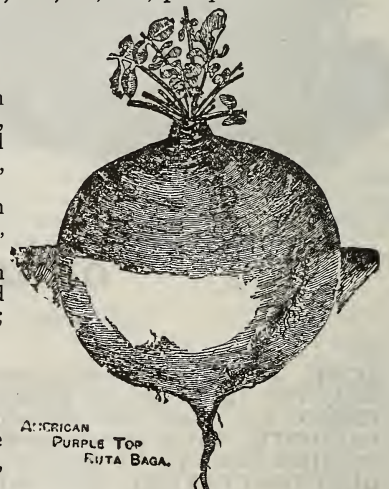
**EARLY WHITE FLAT DUTCH STRAP-LEAVED.** A fine early white sort, of quick growth and good quality. Pkt., 5c; oz., 8c; ¼ lb., 20c; lb., 45c; postpaid.

**LARGE YELLOW.** (Amber Globe.) Flesh yellow, fine grained and sweet; very hardy and productive, splendid keeper. Pkt., 5c; oz., 8c; ¼ lb., 20c; lb., 45c; postpaid.

**GOLDEN BALL.** (Orange Jelly.) Yellow fleshed; a rapid grower, of fine flavor. Pkt., 5c; oz., 8c; ¼ lb., 20c; lb., 45c; postpaid.

**POMERANIAN WHITE GLOBE.** Very productive; in good soil roots grow from 10 to 12 pounds; good for table or stock. Pkt., 5c; oz., 8c; ¼ lb., 20c; lb., 45c; postpaid.

**COW-HORN.** A white turnip of peculiar long shape and quick maturity. It grows to a large size, standing half out of the ground. Pkt., 5c; oz., 8c; ¼ lb., 20c; lb., 50c; postpaid.



AMERICAN  
PURPLE TOP  
RUTA BAGAS



# SEED POTATOES

**RED RIVER EARLY OHIO, OUR NEBRASKA SPECIALTY MATURES EARLY, HEAVY YIELDER, AND A VIGOROUS GROWER.**

**8 to 12 Bushels of Seed Required to the Acre. One peck will plant about 100 hills.**

For Sprayers see Pages 76-78.

**IMPORTANT.**—Seed potatoes should be changed every year. The necessity for doing so is universally admitted by all potato growers, especially when the best seed can be had at so little additional outlay.

Our Northern Grown Seed is produced by potato specialists, who have grown for us for years. They use first-class potato land, pure, well-matured, good sized tubers. When necessary they treat the potatoes and spray the foliage.

## RED RIVER EARLY OHIO

This is the most popular early potato in this country. We have more calls for it than any other early variety. Every potato grower knows what it is, and knows just about what it will do in his locality. It is the standard extra early the world over, and other varieties are measured by it. We have an extra choice strain of Early Ohio. Our Red River Valley stock, grown in North Dakota last fall, is the earliest, purest, and altogether the handsomest stock of Early Ohio potatoes to be found anywhere, and as fine as one cares to see. The tubers are smooth and regular in shape, free from prongs, perfectly pure and full of vigorous life. They are selected with the utmost care, and the result is grand, such as to delight everyone who knows and appreciates a good potato. Price, peck, 40c; bu., \$1.25; barrel (net 165 lbs.), \$3.35; 25 bu. lots or over at \$1.15 per bushel, sacked. Prices subject to change. Ask for prices when you are ready to order.

## EXTRA EARLY POTATOES

**ACME.** The most profitable early potato in cultivation. Fit to eat in six weeks and crop fully matured in ten weeks from planting. Prolific yielder; tubers are oblong, smooth; skin flesh color; flesh white; upright strong vines with tubers growing compactly in the hill. Eyes shallow, quality excellent, mealy and of fine flavor. Keeps well. Price, peck, 40c; bu., \$1.35; barrel (net 165 lbs.), \$3.60.

**EARLY SIX WEEKS.** Another potato of the Ohio type in great demand. Not the heaviest yielder, but good sized, smooth, round to oblong, tubers in eating condition before the well-known Early Ohio. Grown in Nebraska. Price, peck, 40c; bu., \$1.35; barrel (net 165 lbs.), \$3.60.

**IRISH COBBLER.** It is an excellent extra early variety, maturing good sized tubers seven weeks from time of planting; producing very few, if any small potatoes; all tubers being of marketable size. Makes a short, upright growth so the hills may be only a short distance apart. The flesh is pure white with clean, smooth skin. Splendid keeper, excellent quality, always cooking dry and mealy. Especially suited to dry climates on account of its deep roots. Price, peck, 40c; bu., \$1.35; barrel (net 165 lbs.), \$3.35.

**RED TRIUMPH.** Earlier than any other desirable for the first "new potatoes." Tubers nearly round, medium in size, reddish pink in color. Price, peck, 40c; bu., \$1.35; barrel (net 165 lbs.), \$3.60.

## MAIN CROP POTATOES

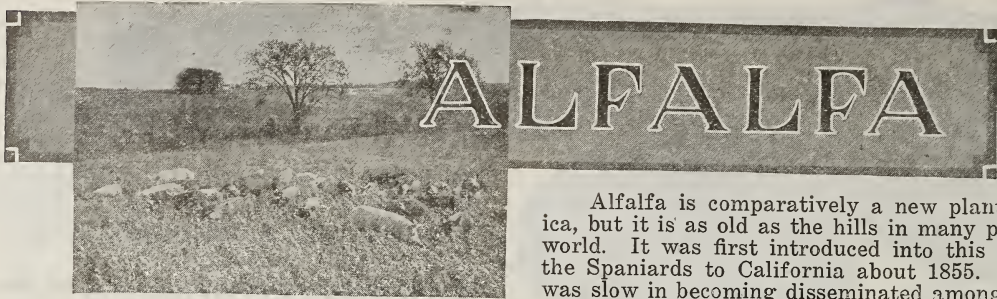
**CARMAN NO. 3.** This potato is of large and uniform size, yielding immense crops. It is of perfect form. It has but a few eyes, and they are shallow; the skin and flesh are extremely white and its cooking qualities are very fine. It is a remarkably handsome potato, enormously prolific. Keeps well. Price, peck, 40c; bu., \$1.25; barrel (net 165 lbs.), \$3.35.

**RURAL NEW YORKER.** It is very large, unusually smooth, with few and shallow eyes; form slightly oblong, and rather flattened. Skin and flesh white, quality excellent, season intermediate. Tubers of great uniformity in size, almost every one marketable. It holds a leading place as a standard field cropper. Price, peck, 40c; bu., \$1.25; barrel (net 165 lbs.), \$3.35.

### PRICES ON ALL POTATOES SUBJECT TO CHANGE

Tubular Hand Potato Planter. Price, \$1.25, by express.	For Sprayers and Insecticides see Pages 76-78.	Acme Hand Potato Planter, 80c- by express.
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way eastward until now it has become extended all over the Pacific states and east to the Mississippi, in fact, it has been successfully tried in about every state in the Union and "has made good everywhere" until now it can positively be asserted that Alfalfa can be successfully grown everywhere that Red Clover will grow and in many places where it cannot be grown at all.

Alfalfa is a perennial plant of upright growth, growing sometimes 3 feet high. The nature of the leaves is somewhat like clover, although not as large. The flowers are a purplish blue and appear in sprays. The seeds are small, yellowish green, kidney shaped of about the size of a pin head.

**SUITABLE SOIL.** Alfalfa makes a strong and rapid growth on well drained, rather heavy land, which is supplied with some lime, and where the subsoil, while not necessarily sand or gravel, is porous. On sandy soil the growth is vigorous, when moisture is abundant, but during drought it will suffer unless the roots reach water at a depth of 8 to 10 feet. The land should slope some, as alfalfa will not stand surface water.

**SEED BED.** The land must be free from weeds and the ground must be thoroughly pulverized and well packed. Alfalfa will frequently fail if seeded on freshly plowed ground. If it is necessary to plow the ground before seeding, do it

early, harrow thoroughly and sow after a good rain has settled it.

**SPRING SEEDING.** Sow seed broadcast or with drill from March to June 15, at the rate of 20 pounds to the acre.

**FALL SEEDING.** Disk oat and wheat land as soon as the crop is cut, and then harrow or disk every 10 days until a suitable time for sowing before the 15th day of September when you can sow as above. This repeated cultivation kills all weeds. Cut for hay the next fall. This is the best time to sow for all except northern states, if you are sure of getting fall rains soon enough.

**TURKESTAN ALFALFA.** This is the same variety as the common alfalfa, but has been grown for years in the mountains of Turkestan, Asia, in a region where there is very small rainfall and with hot, dry summers, and dry, cold winters. A plant developed under such conditions could not be otherwise than hardy and strongly drouth-resistant, and such has proved to be the case.

## OUR GOVERNMENT TESTED SEEDS

We are very particular with all our alfalfa seed and take no chances. We have every car of it tested by the U. S. Department of Agriculture. We will not sell alfalfa seed unless it is free from Trefoil, Sweet Clover, and Dodder. Seed is too high for you to take any chances. Buy our Fancy Seed from us and have it tested. We take it back if it doesn't test right. Buy it early for the price will be higher.

### PRICES

Fancy Seed, per lb., postpaid, 35c. By freight, at your expense, 10 lbs., \$1.50; 20 lbs., \$2.75; per bu. (60 lbs.), \$7.90.

Turkestan Seed, per lb., postpaid, 35c. By freight, at your expense, 10 lbs., \$2.25; 20 lbs., \$3.75; per bu. (60 lbs.), \$10.00.

When you are ready to buy ask us for prices and give the amount of seed you will need.

**TO KILL GOPHERS Use Gophergo. See page 79**  
1,000 POUNDS OF NITRATE PER ACRE PRODUCED BY

# FARMOGERM

HIGH-BRED NITROGEN GATHERING BACTERIA

Seed and Soil Inoculations

**GARDEN PEAS, BEANS AND SWEET PEAS** yield earlier, better and longer when they are inoculated with Farmogerm. Farmogerm comes to you in bottles ready for use. You can inoculate the seed for ten acres in ten minutes. When you use Farmogerm there is no danger of transferring weed seed, etc., throughout your farm. We strongly recommend these inoculations to all our customers. For Alfalfa, Cow Peas, Soy Beans and Clover.

5 Acre Size Bottle \$9.00

1 Acre Size Bottle \$2.00

Garden Size 50c

PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES





Sow 20 lbs. to Acre

# SWEET CLOVER

60 lbs. to Bushel

**Turns Sand Into Loam. Fills the Soil With Nitrogen. It Will Redeem the Western Sand Hills.**

**A VALUABLE PLANT**

This valuable forage plant, though once branded as a weed, is proving to be most valuable for our western semi-arid regions. After two years the plant dies and the large roots decay, filling the soil with humus and vegetable fiber. This, in time, turns the sandy soil into a sandy loam which also has a tendency to make the soil more stable and less liable to blow.

**TIME TO SOW**

This seed can be sown in the spring or in the fall at the rate of from 15 to 20 lbs. per acre. It makes a large growth the first year and blooms and makes seed the second year and then dies. Many farmers in western Nebraska are now sowing their ground to Sweet



Clover and the second year after cutting the crop, just before seeding, will sow it to Alfalfa. In this way they hold the soil from blowing and get their land seeded to Alfalfa.

**GOOD AS ALFALFA**

Many farmers claim that the forage from this plant is just as good as Alfalfa and just as readily eaten by the stock after they have become accustomed to it.

**TIME TO CUT**

If cut for hay, it should be cut when about two feet high and before the stem is woody. If cut just before the seed is matured, two years in succession, the plant dies out entirely.

**GOOD QUALITIES**

It will not grow in cultivated land nor will it become a nuisance. It is most valuable for bees. Price, 45c per lb., postpaid. By freight, 35c per lb.; 5 lbs. for \$1.60; 10 lbs. for \$3.00; \$15.00 per bu.

\*\*\*\*\*

Cherry Co., Nebr., 11-10-12.

I sowed about 15 lbs. of Sweet Clover per acre and got a very good stand but would advise sowing 20 lbs. I think Sweet Clover is just as good as Alfalfa and both cattle and horses will eat the hay just as readily. It is easier to raise here in the Sand Hills than Alfalfa and I believe it will produce more feed.

H. G. QUIBLE.

\*\*\*\*\*

# OTHER CLOVERS

60 lbs. to Bushel

**Our Clover Seeds Are of the Highest Grade and Thoroughly Cleaned and Tested**

Every farmer should have some land sowed in clover. It is of the greatest value for plowing under for supplying humus and nitrogen.

**MEDIUM RED, COMMON OR JUNE CLOVER.**

This is by far the most important of all the varieties for hay or pasture. Sow in Spring or Fall, and if no other grasses are used, at the rate of 8 to 12 pounds per acre. This clover is a biennial, and at best only lasts three years unless it is allowed to reseed itself, which should be done every two years. Fancy per lb., 35c; postpaid. By freight, per lb., 25c; per bu. (60 lbs.), \$10.50.

**MAMMOTH RED, SAPLIN OR VINE CLOVER.**

Quite distinct from Common Red Clover. It lasts longer and is two or three weeks later than the Common Red Clover, grows from 3 to 5 feet high and yields an enormous amount to the acre, especially valuable for hog feed and for plowing under green on worn out lands. Sow 12 lbs. seed to acre. Per lb., 35c, postpaid. By freight 25c per lb.; per bu. (60 lbs.), \$10.50.

**ALSIKE OR SWEDISH CLOVER.**

One of the hardiest of all clovers. This clover is very nutritious, yields abundantly and can be cut several times during the season. It is good for pasture, green fodder or hay. The roots do not heave like those of Red Clover and for this reason it is especially adapted for wet, moist places. It does well on most any soil and resists the severest cold and extremes of drought and wet. We advise farmers to sow 2 or 3 pounds of this seed with their Red Clover and Timothy. If alone, sow 8 lbs to the acre. Price per lb., 40c, postpaid. By freight, 30c per lb.; bu. (60 lbs.), \$14.50.

**WHITE DUTCH CLOVER.**

Best adapted to moist soils, but does well on any land. Sow 8 lbs. to acre. Per lb., 60c; postpaid. By freight, 1 lb., 50c; 5 lbs., \$2.30; 10 lbs., \$4.50.

**PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES**



Sow 21 to 28 lbs. per acre.

## MEADOW FESCUE

Or English Blue Grass

14 lbs. to bu.

Hardy and very valuable for seed and pasture. Starts early in the spring and lasts until November and December. Just the grass for permanent pasture or meadow

**SOIL.** On moist or wettish soil (not too wet) and on gumbo land the plant flourishes wonderfully, yields the heaviest and holds on more tenaciously than anywhere else.

**For Pasture.** It grows luxuriantly, the blades being broad, tender and nutritious, and springs up quickly after cropping. It starts early in the spring, affording most excellent grazing by March 20 or 30, and in the fall will frequently keep cattle fat until late in November.

**For Hay.** Meadow Fescue should be cut soon after the blooms fall.

**Seeding.** Sow broadcast, 21 to 28 pounds of seed per acre on a well prepared bed, and harrow once lightly to cover the seed. Plant good, clean seed. The best seed is the cheapest to buy.

Cheat looks very much like Meadow Fescue. If you buy from us you are sure of getting the pure seed.

**PRICES.** By mail, 30c per lb. By freight, 20c per lb.; \$2.00 per bu. Write for prices on larger lots, stating amount you wish.

1½ to 2 bu. per acre

## ORCHARD GRASS

14 lbs. to the bu.

Because of its rapid growth orchard grass is one of the most valuable and popular of our domestic grasses. It is hardy and may be grown anywhere in the United States, except the extreme South and the arid regions of the West. It is a very hardy perennial, a vigorous grower and does as well in shade as in sunshine. It is about two weeks earlier than timothy and one of the last to succumb to frost in the fall.

Orchard Grass will stand repeated pasturing and mowing, makes from 2 to 6 tons of very nutritious hay. In many sections it may be grazed

throughout the winter. It resists drouths remarkably well, and will succeed in any soil or climate where other grasses will grow.

The tendency of Orchard Grass to grow in tufts may be overcome by thorough preparation of the ground and liberal seeding or sowing with other grasses. It may be sown with good results at most any time from January to September, inclusive. Sow (if alone) 1½ to 2 bushels per acre. Price per lb., 35c postpaid. By freight, per lb., 25c; per bu. (14 lbs.), \$2.75. Ask for prices in larger lots.

Antelope Co., Nebr., Jan. 18, 1912.

I had a farm in the eastern end of this state eight years ago. I asked your advice about planting, what to plant, etc. I had splendid success with everything and the seed grew fine and I wish to say I have not forgotten you. I can only use about \$100.00 worth of seed this year.

C. L. SHARP.

### TABLE

Showing Number of Pounds to the Bushel, and amount of Seed Necessary for an acre.

	No. Lbs. to bu.	No. Lbs. to Acre		No. Lbs. to bu.	No. Lbs. to Acre
Alfalfa	60	20 to 30	Kentucky Blue Grass	14	21 to 30
Alsike Clover	60	6 to 8	Meadow Fescue (English Blue Grass)	14	21 to 28
Barley	48	48 to 96	Milo Maize	50	4 to 6
Beans	60	75 to 100	Millet (except as noted)	50	25 to 50
Billion Dollar Grass	40	12 to 20	Oats	32	32 to 64
Buckwheat	52	25 to 40	Onion Sets, top	28	
Broom Corn	46	10 to 12	Onion Sets, bottoms	32	320 to 400
Brome Grass	14	25 to 40	Orchard Grass	14	25 to 30
Blue Grass Kentucky	14	25 to 30	Pearl Millet	50	5 to 8
Blue Grass English	14	21 to 28	Peas, field or smooth garden	60	90 to 120
Cane in Drills	50	6 to 8	Peas, wrinkled	56	
Cane for Fodder Broadcast	50	100 to 150	Peanuts	24	24 to 30
Clover Alsike	60	6 to 8	Pencilaria	50	5 to 8
Clover, Red	60	12 to 15	Potatoes, Irish, good measure	60	480 to 600
Clover, White Dutch	60	6 to 8	Potatoes, Sweet	50	
Corn	56	8 to 10	Rape	60	5 to 6
Corn, on Ear	70		Red Top	14	20 to 30
Cow Peas	60	60 to 90	Red Clover	60	12 to 15
English Blue Grass (Meadow Fescue)	14	21 to 28	Rye	56	72 to 90
Flax	56	28 to 42	Rye Grass, English or Perennial	24	50 to 60
Hemp	44	30 to 60	Speltz, or Emmer	40	80 to 120
Japanese Millet	40	10 to 15	Sweet Clover	60	6 to 8
Johnson Grass	25	25 to 50	Timothy	45	15 to 20
Kaffir Corn	50	50 to 100	Wheat	60	60 to 90

PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES

Sow 20 lbs. per acre

**BROMUS INERMUS**

14 lbs. to bu.

Grows in Dry, Semi-Arid Regions. Very Resistant to Drought and Freezing. Lengthens Season of Green Pasture.



Nebraska Experiment Station says: This is one of the principal grasses grown in the dry and semi-arid regions of Russia and Siberia. It starts very early in the spring, and continues growth until late in the fall. Brome grass spreads by means of underground rootstalks. As a hay crop, the grass usually furnishes good cuttings for two or three years, sometimes cutting three tons of cured hay per acre, after which the sod becomes so root-bound that the grass does not grow tall enough for hay (this can be overcome by disking) but will furnish the best of pasture for several years.

**PREPARATION OF LAND.** The soil should always be in fine tilth and well packed. For spring sowing, a piece of fall plowing is most easily prepared and furnishes an almost ideal seed bed. If the land is plowed just preceding the sowing, it should be thoroughly worked down with disk and smoothing harrow until a fine, firm seed bed is made.

**SOWING THE SEED.** Sow early at least 20 pounds of seed alone broadcast per acre, or better disc in. Cover the seed by harrowing twice with smoothing harrow. Do not be discouraged in case you should get a thin stand as the grass will thicken rapidly after the first season.

**FALL SOWING.** Sow 20 lbs. to the acre before September 15th, disk in on wheat or oat stubble; in this way one gets almost full use of the grass next year.

Prices. Fancy Grade, Pure Seed. Per lb., 35c; 5 lbs., \$1.40; postpaid. By freight, per lb., 25c; per bu. (14 lbs.), \$2.50; 5 bu. lots, per bu., \$2.45; 100 lb. lots, per 100 lbs., \$16.75.

Write for prices on larger lots.

**GRASS MIXTURES**

**MIXTURE FOR HOG PASTURE.** This will be considered very heavy seeding and expensive, but if you have a hog pasture for keeps, you cannot afford to skimp on seed or limit the varieties. Alfalfa, Mammoth Clover, Red Clover, Alsike Clover, White Clover, Timothy, Blue Grass, Orchard Grass, Meadow Fescue. 25 lbs., per acre for \$4.25; per 100 lbs., \$16.00. Write for prices in larger lots.

**UNIVERSITY GRASS MIXTURE.** This is a special mixture recommended by the University Experiment Station as the best for pasture. We mix it in the right proportion and use only

**FANCY CLEAN GRASS SEEDS FOR ALL SOILS**

**CANADA BLUE GRASS.** This is the blue grass of Canada, New York and the New England States. It does better on poor, clayey, thin soils than on rich land. It is smaller, grows closer to the ground and stands cold and drought better than Kentucky Blue Grass. Has a very blue color and flatish stems. Very nutritive and really a valuable grass. Not desirable for lawns. Per lb., 35c; postpaid. By freight, per lb., 25c; per bu. (14 lbs.), \$1.75.

**KENTUCKY BLUE GRASS.** This valuable grass is very productive, usually early and very desirable as a pasture grass. It comes in the spring and with a few rains during the summer will make good pasture until late fall. It is surprising how well this grass does in the West, even during the dry season. It is very desirable for lawns. Price, per lb., 35c; postpaid. By freight, per lb., 25c; per bu. (14 lbs.), \$2.25.

**RED TOP.** Valuable either for mixing in hay or permanent pasture grass. Succeeds almost everywhere but does best in moist, rich soil. It is being sown with Alsike in western Nebraska, with a great deal of satisfaction. It is often sown with Timothy and Clover. Price, Fancy hulled, 40c per lb.; postpaid. By freight, per lb., 30c; per bu., \$4.00. Fancy unhulled, per lb., 25c; postpaid. By freight, per lb., 15c; per bu. (14 lbs.), \$2.00.

the very best grade of seed. Brome Grass, Meadow Fescue, Orchard Grass, Alfalfa. 24 lbs. per acre, \$4.20; per 100 lbs., \$16.50.

**MIXTURE FOR HIGH LAND.** Good for pasture and hay. Brome Grass, Meadow Fescue, Orchard Grass, Timothy, Alfalfa and Red Clover mixed in proper proportions. 20 lbs. per acre, \$3.25; per 100 lbs., \$15.00.

**MIXTURE FOR LOW, DAMP SOIL.** Can be cut for hay but better for pasture. Kentucky Blue Grass, Red Top, Meadow Fescue, Alsike Clover, English Rye Grass and Timothy. 20 lbs. per acre, \$2.50; per 100 lbs., \$11.25.

**ENGLISH OR PERENNIAL RYE GRASS.** This grass is considered invaluable for permanent pasture grass. Produces an abundance of remarkably fine foliage and soon forms a compact sod. After being cut it grows quickly and remains bright and green through the season. It is also a good variety for hay if cut when in blossom, as it is then most nutritious. Flourishes best in moist soil. Price, per lb., 25c; postpaid. By freight, per lb., 15c; per bu. (24 lbs.), \$2.25.

**TIMOTHY.** This grass is used extensively for hay and does well on most any soil. Sometimes grows to the height of 4 feet on rich loam. It is exceedingly nutritious, particularly when ripe. This grass is also used for pasture. It is, however, better for hay and is sown mostly with Red Clover. Price, per lb., 20c; postpaid. By freight, Fancy, per lb., 10c; per bu. (45 lbs.), \$3.50.

**JOHNSON GRASS.** As a meadow or hay grass this variety is highly esteemed in the South and during the hottest and driest season it can be depended on to yield heavily. It is hard to get rid of when once started and for this reason it should not be allowed to get started in cultivated lands. Price, per lb., 35c; postpaid. By freight, per lb., 25c. Ask for price by 100 lbs.

**PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES**



Sow 30
lbs. to
Acre
60 lbs.
to bu.

### SAND OR WINTER VETCH

Makes from 10 to 15 tons Green Fodder to acre. Grows anywhere.

In sections of the country where the soil is very sandy, and one extreme of temperature follows another, farmers have been looking for a forage crop which will furnish pasture for a longer period of time than the wild grass. In a number of places, Sand Vetches have been tried with good success.

The plant somewhat resembles a pea vine. The long, slender stems are thickly covered with leaves which make nice succulent feed.

**TIME TO SOW.** When sown in August or September, Sand Vetch will cover the ground before Winter and will remain green during the cold weather. Thus it will furnish green feed in the late Autumn after the grasses have all died, and in the early Spring before they have started. When there is no snow, Vetch can be pastured all winter.

**FOR ORCHARDS.** In Michigan Sand Vetch is being used very extensively as a cover and green manure crop for orchards. Being sown in the Fall, it prevents the snow from drifting and produces a large amount of organic matter for plowing under in the spring when orchard cultivation should begin.

**RYE AND VETCH.** If grown in the Spring with Rye or Oats as a support for the vines, Vetch will make from 10 to 15 tons of green fodder or 3 to 4 tons of cured hay per acre. Sand Vetch will thrive on soil so light and sandy that no other crop will live. The fibrous tap root reaches down to a depth of 2 or 3 feet and will get moisture. Fall sown Vetch keeps the soil from washing during the Winter and early Spring and thus saves a great deal of the soluble mineral fertilizer which is in the soil. If plowed under it enriches the soil in the same way that Clover does, and is much cheaper than commercial fertilizer.

We believe Vetches will prove very valuable for Western Nebraska and Eastern Colorado.

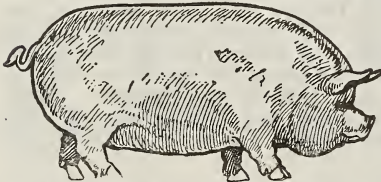
Prices. Per lb., 30c; postpaid. By freight, per lb., 20c; 30 lbs. (for 1 acre), \$3.00; per bu., \$6.75. Prices subject to change.

## GRISWOLD'S READY QUICK HOG PASTURE MIXTURE

Good for One Season Only

The last two or three years, and especially the last year, we have had a big demand for a Hog Pasture Mixture that would not only produce a large tonnage of green feed but one that would come on quick and be ready in a hurry.

To fill this demand we have made our "Ready Quick" Hog Pasture Mixture. It is especially good for hogs but equally desirable for cattle, sheep, calves and cows. It contains 14 different grains and forage plant seeds, practically all of which grow again if fed down.



Griswold's "Ready Quick" Hog Pasture Mixture can be sown early and be ready to pasture in 6 or 8 weeks and should be in the finest kind of condition in July or August, just when your other pastures are dried up. It can also be sown in July or August and used as a Fall pasture.

**15 TONS GREEN FEED PER ACRE** This Mixture should easily produce 15 tons of green fodder per acre during the season, and to have this come just at a time when you have nothing else to feed your stock will be highly appreciated.

We recommend sowing 50 lbs. to the acre, and if your ground is very rich and strong we would say sow 75 to 100 lbs. and by all means keep it fed down, as the stock eat it better when it is young and tender. Be sure and give this valuable Mixture at least a small trial as you cannot possibly make any mistake by sowing it.

50 lbs. (for one acre), \$2.25; 100 lbs., \$4.00; 500 lb. lots or over, \$3.85 per 100 lbs. In less than 50 lb. lots., 5c per lb., or 15c per lb., postpaid.

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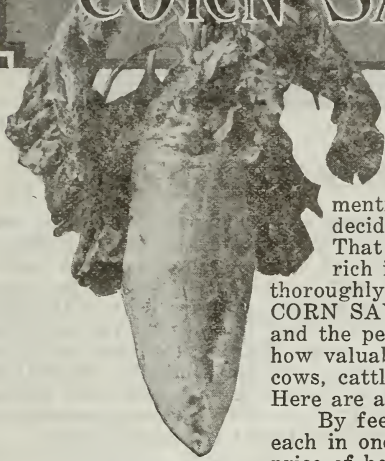
Your "Ready Quick Hog Pasture Mixture" proved to be right place. No farmer can make a mistake by sowing it. When the pasture was at its best the hogs would stay in it instead of coming for corn. **Platte Co., Nebr., 11-1-12.**  
**D. W. JENKINS.**

\*\*\*\*\*

**PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES**

# CORN SAVER BEET

Fattens  
Hogs for  
One-tenth  
the Price  
of Corn.



## A Big Money Maker! Keeps Hogs Healthy!

**A MONEY MAKER.** Some three years ago, we, like other farmers, began wondering how we could fatten hogs without feeding so much high priced corn. After considerable experimenting along the line of feeding alfalfa hay, beets, etc., we finally decided sugar beets the better thing, for sugar is always fattening. That year we secured from Germany a new sugar beet that was extra rich in sugar considering its size and other qualities. We tried it out thoroughly and it proved to be all we could desire. We decided to name it **CORN SAVER BEET**. We have sold this beet all over the United States and the people are writing us in glowing terms how much they like it and how valuable they have found it for feeding not only hogs, but also milk-cows, cattle and calves. The farmer should grow beets to feed his hogs. Here are a few figures furnished us on hog raising:

By feeding beets exclusively one man made his hogs gain fifty pounds each in one month. He fed 900 pounds of beets per head. At the present price of hogs, \$9.50 per 100 lbs., the beets would bring him \$10.55 per ton.

Even at the usual fall price for hogs, \$7.00 per 100 lbs., beets fed to hogs would be worth \$7.80 per ton. Another party bought three tons of sugar beets for \$12.45; he fattened eight hogs, which, for a little over two months' feeding, gave him a profit of \$43.00. In this instance the beets were cooked before being fed to the hogs. In both of these cases beets only were used, while by adding a small amount of grain these profits may still be increased.

**How to Feed.** We began feeding our hogs 1-3 corn, 1-3 alfalfa hay and 1-3 of the new **CORN SAVER BEET**. The amount of alfalfa hay and corn can be reduced from time to time until you will not have to average more than one small ear of corn to each hog, with very little alfalfa hay and the balance **CORN SAVER BEET**. Give them all they can eat and the hogs will get rolling fat and healthy. Our experience proves we have struck something that will make the profit on hog raising several times greater than heretofore, and believe will entirely do away with hog cholera.

**Yield.** Our largest yield was close to 80 tons per acre. The beets grow very large, frequently weigh 28 lbs. They grow about half out of the ground and are thus very easily harvested. They are two or three times as large as the regular factory sugar beet and are much better for stock. Perfectly hardy. Will grow anywhere other beets will.

**Amount to Sow.** It is an easy matter to raise these **CORN SAVER BEETS**. Simply sow on deep plowed soil, 10 lbs. to the acre, from April to June, in rows 18 inches to 2 feet apart. Thin plants to 8 inches in the row—transplant young plants to fill vacancies. Cultivate thoroughly with a five-tooth cultivator or an ordinary one row corn cultivator and you will have one of the largest money making crops you ever raised. Beet hulls are thick. If it is dry soak seed 24 hours in water before planting.

**Price.** By freight, 10 lbs. (enough for 1 acre), \$3.25; 5 lbs., \$2.00; 1 lb., 35c. By mail, 1 lb., 45c; ½ lb., 25c; oz., 10c; pkt., 5c. Postpaid.

\*\*\*\*\*

Power Co., Idaho, April 1, 1913.

I planted 2 lbs. of your Corn Saver Beets last year and never saw them until time to dig them and got 9 wagon loads, 16 ft. bed, 30" high, from same. My horses have done fine on them this winter, so will try them again. I got some weighing 8 and 9 pounds.

**BURT HOGN.**

---

Republic Co., Kansas, March 17th, 1913.

I am thinking of putting in 15 acres of your Corn Saver Beets this year. They are the finest things I ever grew for feed. In 1911 I had in one acre and harvested 20 tons and they cost me just \$9.00 in the cellar. In 1912 I had two acres and the hail struck them after they were 15 inches high and beat them all down, and these also I did not thin or set in and still the two acres produced 58 tons. The cost in the cellar owing to the hail was \$12.50 per acre.

**L. F. CORY.**

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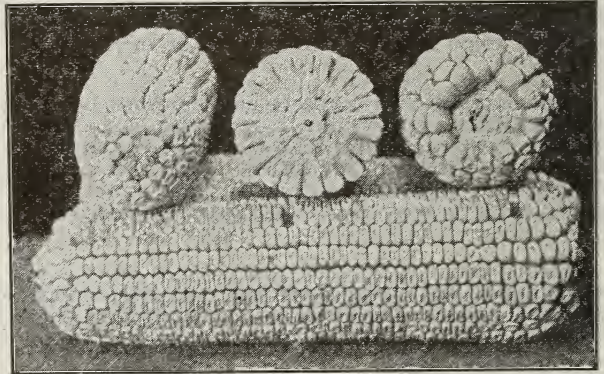


OUR SEED CORN

Purchasers of Griswold's Western Grown seed corn can rely upon good varieties. All of our seed corn is prepared by experienced seedmen. We do not have boys in our employ in this work. Furthermore, each variety of seed corn is kept entirely separate. Our seed corn is brought to our warehouse in the ear. Here the ears are carefully hand picked and only perfect ones, with sound corn, are saved. The poor corn goes to the grinder for feed, while the perfect ears are sent to the butting and tipping machine, which shells off the butts and tips, leaving only the perfect, regular sized kernel for seed. After shelling, the seed corn is run through a large cleaning machine, equipped with separating screens. A powerful fan on mill blows out all trash and light kernels. Before our seed corn is shipped out it is placed in our Seed Tester, the plans for which were endorsed by the United States Department of Agriculture. Here it must test out at least 90%. Farmers cannot run the risk of a poor stand. Better let us furnish something that we have tested and know is good.

**BOONE COUNTY WHITE.**—Very best of white corn, of extra large size, good yielder and medium early. Quality is excellent and is particularly adapted for milling purposes, making a fine white meal. Withstands the dry weather and winds remarkably well. Price, pkt., 10c; pint, 20c; quart, 30c, postpaid. By freight, ½ peck, 40c; peck, 75c; ½ bu., \$1.50; bu., \$2.50; shelled only.

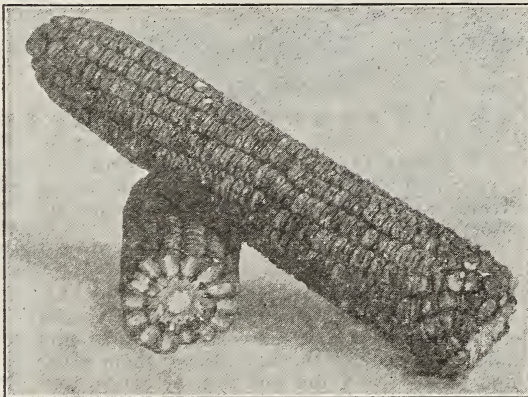
BOONE COUNTY WHITE



\*\*\*\*\*  
 Knox Co., Nebr., Febr. 8, 1913  
 The Nebraska White Prize seed corn I bought of you last spring I was more than pleased with. My net returns were 55 bus. an acre and we had some hail the 15th of August or it would have gone 65 bus. to the acre.  
 FRANK H. BECKMAN.  
 \*\*\*\*\*

UNIVERSITY NO. 3

A New Early Yellow Corn Originated by the Nebraska State University.



The following description is made by Professor E. G. Montgomery, A. M.:

"There is usually a demand for early corn in Nebraska. In the southern part of the state many farmers desire a small field of early corn for fall feed.

"In testing out many varieties of farmers' corns, we chanced to test a variety of early corn grown by a farmer in Wayne county. It gave good results and more seed was secured in 1906 and a breeding plot established at the Experiment Station, where it has been selected since, and improved in type.

"The ear tends to be rather long, and the grain is about as broad as long. Color, yellow, averages 12 to 14 rows to the ear. Matures in 90 to 100 days, which makes it safe to plant in southern Nebraska, June 10th to 15th. In northern Nebraska it is just right for a full season corn."

Our seed was grown from this University stock and although the season was very unfavorable, it made 60 bushels per acre, field run. Price, pkt., 10c; pt., 20c; qt., 30c; postpaid. By freight, ½ peck, 60c; peck, \$1.00; ½ bushel, \$1.75; bushel, \$3.00.

UNIVERSITY NO. 3  
 pt., 20c; qt., 30c; postpaid. By freight, ½ peck, 60c; peck, \$1.00; ½ bushel, \$1.75; bushel, \$3.00.  
 Shelled only.

PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES

**HOGUE'S YELLOW DENT.** This corn is highly endorsed by the State Experiment Station and is one of the very best corns for Nebraska and Kansas. Ears are medium size to large, maturing in about 100 days.

**PRIDE OF THE NORTH.** This is a well known variety; beautiful, deep dented, fine golden color, small ear, but a tremendous sheller. Will run about 40 to 75 bushels to the acre, ripens in 85 to 90 days, is hardy and vigorous.

**IMPROVED LEAMING.** A rich golden colored dent corn, good size ears, rich in protein, wedge shape kernels, medium size cob, a strong, vigorous grower, quite early, ripening in 90 to 95 days.

**CALICO.** That fine, large, variegated corn that always yields well and makes big ears. This corn always gets ripe before frost.

**YELLOW FLINT.** The corn for the extreme North. Ears long, of rich color. Very productive, outyielding any flint corn we have ever grown.

**WHITE FLINT.** Similar to yellow, except color. Stalks usually bear 2 or 3 long ears, having 8 to 10 rows of hard, white corn.

**SILVER MINE.** Stalks grow 7 or 8 feet high, every stalk has an ear, often 2 or 3 ears, set about 4 feet from the ground. Ears long, heavy, generally with 18 rows of broad, semi-transparent white kernels on a white cob.

**PAWNEE COUNTY YELLOW DENT PREMIUM YELLOW CORN.** This corn took the highest price of all yellow corn shown at the 1908 Nebraska Corn Exhibit. It was selected from Reid's Yellow Dent. It has been making large yields. It yields from 75 to 80 bushels under good conditions. Give it a trial.

**WHITE CAP BUTCHER.** The White Cap Butcher is a medium yielder, early red corn with white cap; will mature in 85 to 90 days and be good and sound.

**NEBRASKA WHITE PRIZE.** Ears are large and well filled at both ends, the white cob being hardly visible. The corn is medium late, and yields frequently 75 bushels to the acre.



FUNK'S YELLOW DENT

**GOLD MINE.** The grain is a rich golden, shining like new coin from the mint; dent, long, deep; kernel often over three-fourths of an inch long. This corn will shell more pounds to seventy pounds of ears than any corn we know of.

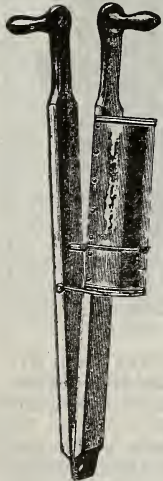
**IMPROVED REID'S YELLOW DENT.** Has a wide reputation, and is endorsed by more experiment stations than any other corn grown. Has heavy stalks with an abundance of blades, making extra fine fodder. It will ripen in 90 to 100 days and will yield from 50 to 80 bushels per acre ordinary farming.

**FUNK'S YELLOW DENT, STRAIN 140.** This Funk's Yellow Dent is an improvement of Reid's Yellow Dent, and has the same general characteristics. The ears are from 8 to 11 inches long, cylindrical in shape from butt to tip, with 13 to 20 rows on a small cob. The kernels set very close together with no open space between.

**PRICE OF ALL ABOVE CORN**

Pkt., 10c; pint, 20c; quart, 30c; postpaid. By freight, 1/2 peck, 45c; peck, 75c; 1/2 bushel, \$1.35; bushel, 2.25. Shelled only.

**CORN PLANTERS**



No. 1. Good, reliable two-hand corn planter.

Price .....\$1.00  
(By Frt. or Exp.)

No. 2. Segment one-hand corn planter, adjustable for planting all kinds of corn. Has pumpkin seed attachment, is well made in every way.

Price .....\$1.25  
(By Frt. or Exp.)

For other Tools, Seeders, etc., see Pages 81-83.

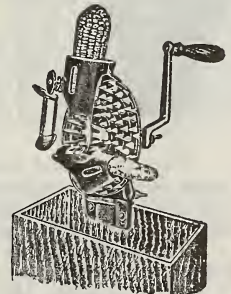


NO. 2

NO. 1

**COMBINED TIPPER AND SHELLER**

This is just the machine you have been looking for. It butts and tips your corn and then shells it. Also has an attachment for shelling pop corn. These machines are well made, extremely handy, you can more than pay for one by shelling and tipping your seed corn and then have it for next year. Price, complete.....\$1.10



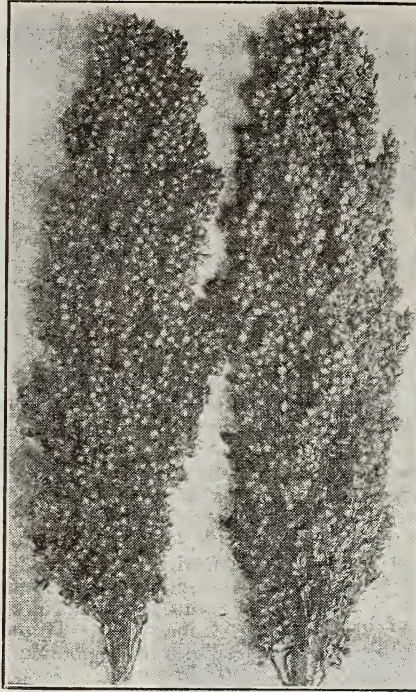
Something new, White Russian or Side Oats, see page 38.

**PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES**

**NEW SHALLU**

A NON-SACCHARINE SORGHUM from India, where it is extensively cultivated under the name of "Shallu."

"It is more valuable than Kaffir Corn for grain, as it yields considerably more seed, it being of stooling habit, producing all the way from three to six stalks from a single grain, and it is quite a drought register. The heads grow similar to Broom Corn, forming large heads of round, plump, white seeds. It is an excellent feed for horses and cattle, and for chicken feed it is unexcelled. Can be popped the same as Pop-corn, being more crisp than



NEW SHALLU

**CANE OR SORGHUM**

**Feeding Value.** It is known quite definitely that an acre of sorghum will produce more food value, more pounds of beef or pork, when properly fed, than an acre of corn. The main use of the crop, however, is for a winter supply of forage, and it has this advantage over corn or any other kind of grain, that it can be sown late. It furnishes fodder in 70 to 90 days and matured seed in about 100 days.

**Time to Sow.** Sorghum may be put in almost any time up to the middle of July. June is the best time. Sow broadcast because the fodder will grow fine, will cure better, and will give better results in feeding. Eighty days will produce a very satisfactory crop. Sow 10 lbs. in rows for cultivation, 2 or 3 bu. (50 lbs. to bu.) broadcast per acre for fodder.

**The Soil.** Select the thinnest soil and highest part of your farm for sorghum. On this soil it is not so likely to fall down in season of excessive rainfall. Have the ground free from clods and do not plant more than one inch deep except in very light soil.

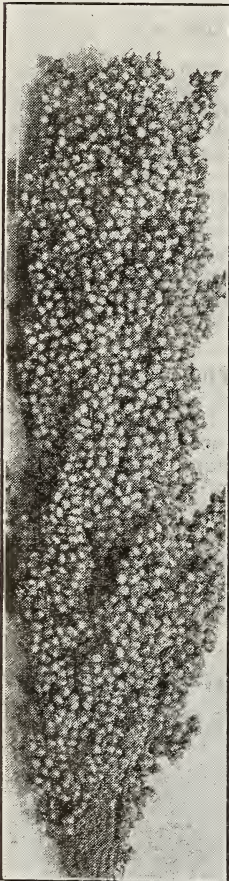
**Harvesting.** Harvest as late as possible to avoid hard frost, in order that the fodder will retain its sweetness and succulence. When sown broadcast, cut with a mower and allow to dry for a week or ten days, after which it may be put up in shocks weighing about 500 pounds and allowed to stand until fed.

Price, per lb., 15c; postpaid. By freight, 5c per lb.; \$1.75 per bu. (50 lbs.). Subject to change. Ask for prices on larger lots.

**Pop-corn.** When ground it makes an excellent flour for pancakes. It is more of a grain crop than a forage crop. It will produce more seed than any of the cane or sorghum family and about double the amount of either Red or White Kaffir Corn."

Sow in rows three feet apart, three to five pounds of seed per acre. For fodder, sow half to one bushel either broadcast or in drills. Give it a trial.

Price, pkt., 5c; 1 lb., 20c; 5 lbs., 90c, postpaid. By freight or express, at your expense, 1 lb., 10c; 10 lbs., 65c; 50 lbs., \$2.75; 100 lbs., \$5.00.



KAFFIR CORN

**KAFFIR CORN**

This is a most excellent plant, yielding two crops of fodder during a season. It grows from five to six feet high, making a straight upright growth. The stem, or stalk, bears numerous wide leaves. The stalks keep green and brittle and juicy, making an excellent fodder either green or dried, the seed is a fine chicken feed.

The seed crop is also heavy, sometimes yielding sixty bushels to the acre. Both grain and fodder are excellent. The stalk remains tender to full maturity of seed. There is no failure about it as it possesses the quality that all the tribe possess, of going without rain without any loss of capacity to yield.

The grain is extremely valuable for feeding to poultry and will make a flour that is like wheat. Cultivated the same as our common Indian corn, requiring five pounds of seed per acre. For fodder sow one to two bushels, either broadcast or in drills.

Price, per lb., 15c; postpaid. By freight, 5c per lb.; per bu., \$1.25. Subject to change. Ask for prices on larger lots.



CANE

**PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES**





# RAPE

Sow  
Five  
Pounds  
to  
the  
Acre

## DWARF ESSEX

Produces feed in from six to ten weeks from sowing. Grows two to four feet high. Produces from 25 to 30 tons of green fodder to the acre.

When one considers that rape will produce good, succulent feed in from six to ten weeks from sowing, he can in a measure realize its value. Rape looks much like ruta baga tops, growing from two to four feet high, has broad, rich, juicy leaves which are liked very much by cattle, sheep and hogs, and continues to grow after being continually eaten off. It is estimated that the feeding qualities of rape are probably twice as great as those of clover.

Rape can be planted early for early feed; can be sown in oats and fed after the oats are cut; can be sown in corn in the last plowing. This is a good plan when the corn is to be cut green for feed, as it will leave the rape ready for pasturing after the corn is taken off. Rape is an annual, and will not become a weed or a nuisance as it does not live through the winter. We do not recommend it for cows as it may taint the milk. Stock fed on rape must have plenty of salt.

### FOR CHICKENS

Rape makes the best green food for chickens. It can be sown early and the chickens will have good, rich food all summer from one planting. They like it better than garden truck and it is much cheaper.

### FINE FOR HOGS

We are satisfied that with the same preparation of the ground and with the expenditure of 25 or 30 cents per acre for seed, a man can grow as much pork from an acre of rape, well managed, as he can from an acre of corn, and grow his pork at a time of year when corn is usually high priced and often scarce.

**PRICES:** Genuine Imported Dwarf Essex Rape. Per lb., 20c; postpaid. By freight, per lb., 12c; 3 lbs., 30c; 12 lbs., \$1.00; 50 lbs., \$4.25; 100 lbs., \$8.00. Prices subject to change.

### GOOD FOR PIGS

The pigs may usually be turned into it five or six weeks after seeding, and an acre will carry from twenty-five to forty during the season. It is better to divide the field into two parts and change pastures at intervals.

### RAPE FOR YOUNG CATTLE

Calves relish a small amount of rape at a very early age and do well on it when fed judiciously. Young cattle thrive on it when it is fed in connection with natural grass pasture. Steers intended for stall feeding or late fall marketing cannot be better cared for than be allowed the run of a good field of rape.

With oats 1 1/4 bu. per acre  
2 bu. per acre if alone.

## FIELD PEAS CANADA FIELD PEAS

60 lbs.  
to bushel

The Canada Field Pea is a true pea; and should be sown early in the spring, germinating at the same time as oats. It is grown very largely in some portions of Colorado as a sheep feed, and in Canada takes the place of clover, belonging as it does to the same family, which has the merit of being able to use the free nitrogen of the atmosphere.

The Canada Field Pea can be used to advantage anywhere in this state, in connection with oats, as an early feed for hogs. If sown at the same time as oats in the latitude of Lincoln it will be ready for hogs about the 25th of June. In the extreme northern part of Nebraska it would probably take to the first week in July. The peas by that time are in the dough stage and will furnish the earliest grain feed that can be grown on the farm.

Disk the ground as early as possible in the spring, sow the peas at the rate of 1 1/4 bushels to the acre, plow under about three inches deep, then sow 1 bushel oats or barley broadcast and harrow thoroughly. If merely covered with the harrow a heavy rain will uncover a good many of them. The grain is sown to furnish support for the peas, to more fully occupy the land, and to give variety of feed. This should make from 2 to 3 tons of cured hay per acre. Price 20c per lb., postpaid. By freight, 10c per lb.; 90c peck; \$3.00 per bu. Price subject to change.

### COW PEAS

**COW PEAS.** Highly recommended to plant with oats or Kaffir corn, increasing the fertility of the soil for the succeeding crop and leaving the ground mellow and clean from weeds. Do not plant until the weather has become warm; sow 2 bushels if alone, and 1 bushel if with other seeds. They make from 1 to 3 tons of hay per acre.

**WHIPPOORWILL.** Early, bunch-growing variety. Per lb., 20c postpaid. By freight, 10c per lb.; 90c peck; \$3.00 per bu. (60 lbs.). Price subject to change.

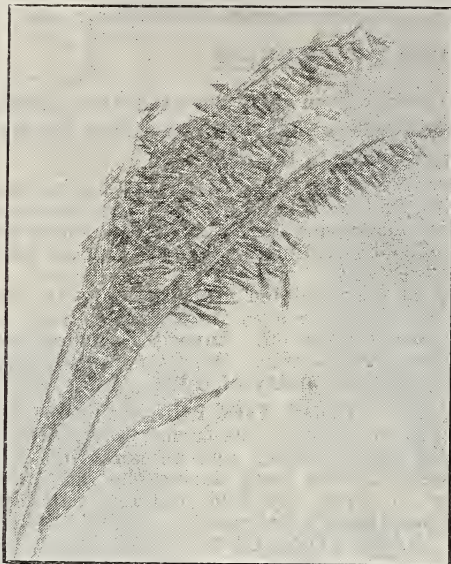
**NEW ERA.** An early variety. Maturing seed in from 80 to 100 days. Probably the best sort for North and West. Can be sown after wheat is taken off the ground and still produce a good crop of forage or peas. Prices, by mail, postpaid, 20c lb. By freight, 10c per lb.; 90c peck, bu. (60 lbs.), \$3.00. Prices subject to change.

**PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES**

## KHERSON OATS

### KNOWN AS UNIVERSITY OATS, NO. 1

**Hardy and good yielder. Largest yield in Nebraska 112 bushels to acre; frequently yields 80 bushels per acre; two to three weeks earlier than common oats**



WHITE RUSSIAN or SIDE OATS

**Origin.** Kherson Oats were brought to America in 1900 by the University of Nebraska, located at Lincoln. They originally came from Kherson, Russia, where they were grown as the best early, hardy, good yielding oats in that locality. The University of Nebraska sent out small lots to farmers all over the state and tests proved that the oats far exceeded their highest expectations as to earliness, amount of yield and adaptability to withstand heavy winds and not lodge.

**Description.** Kherson Oats, when ripe, are a beautiful yellow in color. They have fine large spangled or full heads, which frequently contain more than 100 seeds. A good idea is obtained from illustration, which is taken from an actual photograph. The straw is stiff and does not lodge or rust. The leaves are broad, frequently 3-4 of an inch wide. They extend to the roots and are so pliable that they stay on even through threshing. The straw makes an unusually good fodder and is eaten greedily and with profit by all kinds of stock. While the kernel is a little small the berry, when the hull is off, is extra large. We have never found a grain so small but what it contained a well developed seed. This is not true of the large oats.

**Yield.** Under favorable conditions Kherson Oats have yielded as high as 112 bushels to the acre in Nebraska. At the Experimental Station at North Platte the yield averages about 50 bushels to the acre.

In a good favorable year Kherson Oats are three weeks earlier than common oats, thus losing by two weeks the risk of hail and two weeks better chances for a crop.

We have never sold anything that gave such universal satisfaction. In 1905 we sold over 9,000 bushels of Kherson Oats; in 1906 almost 11,000 with increasing sales each year since. These immense amounts go out in from 3 to 50 bushel lots to almost every state in the Union, and especially Iowa, Illinois, Kansas, Missouri, and Oklahoma. All these states report the yield from 10 to 30 bushels more per acre than Texas Red, Champion and other Oats. Customers who bought these oats when we first introduced them are now buying to secure a new start.

Buy direct from us and you get the pure seed—no substituting.

Sow on rich soil. Reports show that they do not lodge even on bottom land. They will not give satisfaction on poor soil. Sow 2½ bushels per acre.

If you order only oats, remember the freight will be no more for three bushels than one bushel.

We have handled Kherson Oats since its adaptability to our soil and climate has been proven.

Prices, 1 bu., 80c; 5 bu., \$3.75; 10 bu., \$7.00; 25 to 50 bu. lots, per bu. 65c. These prices aresacked f. o. b. cars, Lincoln, Nebraska.



KHERSON OATS

### REGENERATED SWEDISH SELECT OATS

These oats were introduced for the first time three years ago. They were "crossbred" by the Garten Seed Company of England, and the system that they used was such that it increased their vitality and put them back to their original standard of high excellence. Under this system the oats were made to weigh 52 pounds to the measured bushel. We had a small lot of these oats planted for us and they yielded a little more than twice as much as common oats under the same conditions. This season we are offering oats grown from last year's stock. Our grower says, "They beat all other kinds two to one in yield and quality."

Price, by mail, 1 lb., 20c; 3 lbs., 55c. By freight, 1 lb., 10c; ½ peck, 25c; 1 peck, 35c; 1 bu., 80c; 5 bu., \$3.75.

### WHITE RUSSIAN OR SIDE OATS

This oat is quite distinct from other varieties and as the name implies is a side or horse main oat. Is very hardy and as near rust proof as any oats can well be. It is a very heavy yielder and on account of its ability to withstand unfavorable weather will be found very satisfactory.

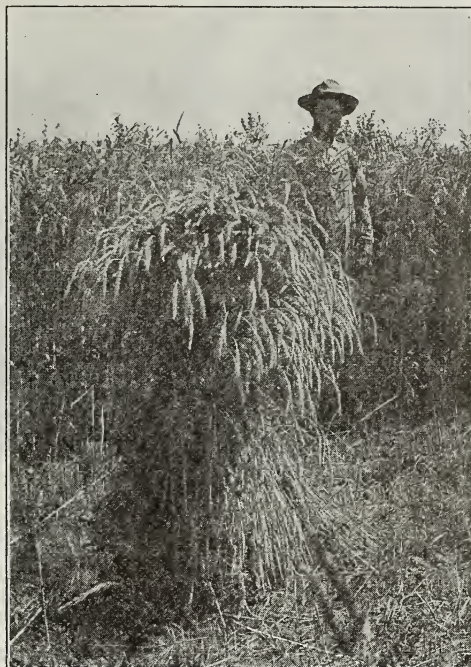
Price, by mail, 1 lb., 20c; 3 lbs., 50c. By freight, ½ bu., 65c; 1 bu., \$1.25; 5 bu., \$5.25.

**PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES**

## BUFFUM'S NO. 17 BEARDLESS WINTER WHEAT

This is an absolutely new pedigreed wheat, having been produced by Professor Buffum from a sport of the Turkey Red Wheat but is beardless. It has been carefully tested for five years and has given the best of satisfaction. It is the most hardy wheat we know of. Has been grown in 17 of the Northern states and at Lethbridge, Alberta, Canada, it headed the list of 16 varieties being tested on a dry farm. None of it has ever winter killed in Canada.

Buffum's No. 17 Wheat produces a long, straight, smooth head with three or four berries to every spiklet. The berries are dark red in color and carry protein contents of high value. Millers report that they obtain more flour per pound of this grain than can be obtained from any other wheat. It produces well when grown in the semi-arid region under the dry farm method, and under irrigation has yielded as high as 72 bushels to the acre. Under ordinary conditions it ought to yield from 40 to 60 bushels without any trouble. It will pay you to try this wheat. 30 to 40 lbs. of this Pedigreed Wheat is sufficient to plant an acre. Our seed is grown in Northern Wyoming. Write for prices.



NO. 17 WINTER WHEAT

This 6 acre field made 72 bushels per acre.

## IMPROVED WINTER EMMER OR SPELTZ



IMPROVED WINTER EMMER

This 50 a. field made an av. of 90 bu. per a.

The New Improved Winter Emmer seems to be almost as hardy as winter rye and is one of our most drought and cold resistant winter grains. Having been originated in Northern Wyoming, it is adapted to our conditions and it promises to be the most valuable feed grain the farmer or stockman can raise, whether he grows crops by irrigation or by the dry farming methods. It should succeed any place where winter wheat can be grown.

A test on our best alfalfa soil gave a maximum yield at the rate of 180 bushels per acre. We have secured average yields on different fields with different soils and treatment of from 20 bushels to 150 bushels per acre. After another year on trial we offer Improved Winter Emmer seed to the public with greater confidence than ever that it produces more and richer feed per acre than any other grain that can be grown.

Reports state that Emmer is worth thirty per cent more than oats for horses. Excellent results have been obtained when feeding Emmer to hogs.

Improved Winter Emmer will grow anywhere that Winter Wheat can be produced, and it requires the same kind of soil and treatment. Write for prices.

NOTE.—In the fall of 1913 we had a very large sale of the seed of these two new grains, and feel confident of a much larger sale the coming fall, so it will be well for you to order early.

## SPELTZ OR EMMER

Drill 2 bu., or if broadcast, 3 bu. to the acre. 40 lbs. to the bu.

This grain resembles barley except that it has two berries in each hull. Sow it in place of oats. Grain is just as good for stock. Better than barley for hogs. It is liked by horses, sheep and cattle. Its straw makes feed equal to prairie hay. It produces from 50 to 100 bushels of seed per acre, and yields well in dry years when other small grains are a failure, and will grow anywhere in the corn belt and as far north as wheat will grow. As the grain is very rich in protein, it makes a most nutritious feed. Cut when middling green, as it threshes easier, and the straw makes better hay.

Farmers who planted this seed last year found it to be a most valuable crop for dry seasons. While it grows just as well in the eastern part of this state as wheat, oats and other grains, it is especially valuable where the rainfall is light.

Price. 1 lb., 25c; postpaid, 35c. By freight, per bu. (40 lbs.), 80c; 10 bu. lots, 75c.

PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES



## MACARONI KUBANKA WHEAT

This wheat is tall, with broad, smooth leaves. The heads are large, heavily bearded, and have much the appearance of barley. The kernels are large, very hard, having less starch than common wheat. Largely used in the manufacture of Macaroni, and makes excellent flour.

The habit of growth adapts Macaroni Wheat to regions of light rainfall, having great ability

to withstand drought and heat. It requires rich soil, but will grow in alkali.

Reports show a better yield per acre of Macaroni or Durum Wheat than other spring varieties. Sow early in the spring, as it is not easily injured by frost. Price, by freight, 50c per peck; \$1.40 per bu., 2 to 10 bu., \$1.25 per bu.

Turkey Red Winter Wheat, Flax and Winter Rye—Ask for Prices in Fall.

## BARLEY

**WHITE HULLESS.** A valuable variety, has large heads, plump kernels, both hullless and beardless and looks like large white wheat. It is two or three weeks earlier than any other barley and an immense yielder. As it stools wonderfully, sow only 1½ bushels per acre. \$2.00 per bushel, by freight.

**COMMON.** Succeeds best on lands more sandy and lighter than those adapted to wheat. Sow from 2 to 2½ bushels per acre. Per bu., \$1.35, by freight.

**MANDSCHEURI.** It is an early six-rowed variety, maturing 80 to 90 days from the time of sowing; is very strong strawed and stools well, bearing large heads of plump grain, adapted to all kinds of soil and climate. Per bushel, \$1.50, by freight.

**CHAMPION.** It is beardless and nice to handle. Grows tall and stands up well. Straw is good and grows taller than any other variety. Per bushel, \$1.50, by freight.

## BROOM CORN

46 lbs. to Bushel

**OKLAHOMA DWARF.** This variety possesses several features of merit which distinguish it from others and place it at the head, viz.: Its earliness, dwarf habit (5 feet high), robust growth, extreme productiveness, long, well-fibered brush and above all, its ability to resist drought. Prices, per lb., 20c, postpaid. By express or freight, 25 lb. lots, per lb., 7c; per bu., \$2.75.

**IMPROVED EVERGREEN.** The best variety for general cultivation on account of color and quality of brush. Price, 15c per lb., postpaid. By freight, per lb., 7c; per bu., \$2.50.

**DWARF.** Grows from 3 to 4 feet high, straight brush. Used for making whisks and brushes. Price, 1 lb., 15c, postpaid. By freight, per lb., 7c; per bu., \$2.75.

Seeds in 70 to 75 days.

## BUCKWHEAT

52 lbs. to Bushel

**JAPANESE.** This sort has proven to be much earlier and more productive than any other variety. The grains are very large and of rich, brown color. It excels in yield and earliness. Lb., 25c; 3 lbs., 60c; postpaid. By freight or express, peck, 60c; bu., \$2.00.

**SILVER HULL.** A very good and popular variety. The grain is of light gray color, is

rounder than the common variety, matures earlier, and yields a half more to the acre. Lb., 20c; 3 lbs., 45c; postpaid. By express or freight, peck, 60c; bu., \$2.00.

**COMMON.** Sown in June, broadcast, at the rate of 2 to 3 pecks per acre. Lb., 25c; 3 lbs., 60c; postpaid. By freight or express, peck, 60c; bu., \$1.95.

## ON ALKALI LANDS YOU CAN SOW

- |                   |            |                  |                 |
|-------------------|------------|------------------|-----------------|
| Brome Grass       | Sorgham    | Common Millet    | Sweet Clover    |
| Canada Field Peas | Sand Vetch | Dwarf Essex Rape | Corn Saver Beet |

PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES

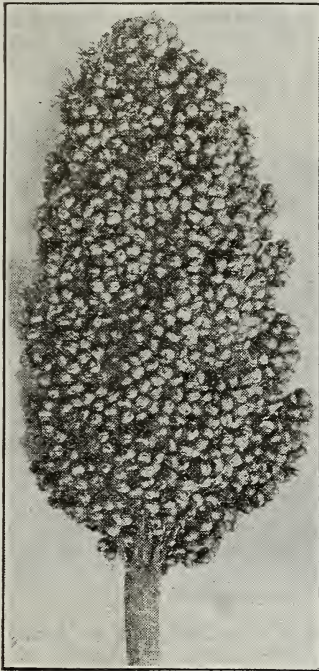
### JERUSALEM CORN

The surest forage crop for dry, hot sections and for dry seasons. Besides being one of the best forage crops, it produces large heads well filled with valuable grain for stock and chicken feed. It grows from four to five feet high. Price 20c per lb., postpaid. By freight, 10 lbs., 75c; 100 lbs., \$6.00.

It waits for rain

### MILO MAIZE

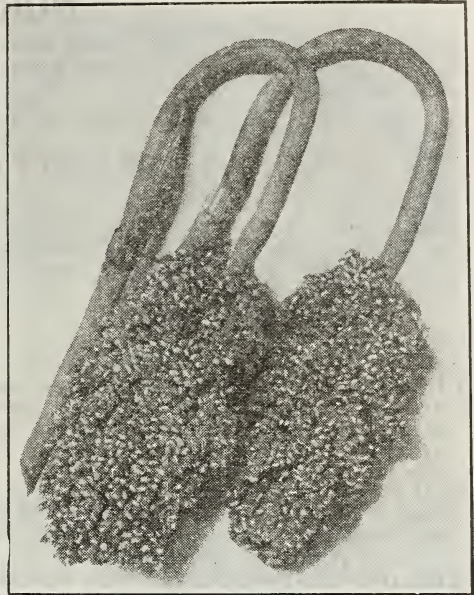
50 lbs. to bu.



MILO MAIZE

Milo Maize is an excellent grain for dry regions. It will yield 15 bushels to the acre under conditions so dry that corn will be a total failure. When fed with some succulent feed such as alfalfa, stock beets or sorghum, it makes fine feed for fattening cattle. To prevent waste, Milo Maize should be fed in heads or ground. Plant 4 to 6 pounds per acre in rows and cultivate.

Price, per lb., 15c; postpaid. By freight, 5c per lb.; \$1.75 per bu.



JERUSALEM CORN

### MILLETS

50 lbs. to bu.

**GERMAN MILLET.** German Millet will grow in any climate or soil. It is a strong grower and will yield enormous crops of the finest hay. Sow any time between May 1st and August 1st. Price 15c per lb., postpaid. By freight 4c lb., \$1.75 per bu.

**SIBERIAN.** (Also called Red German, Dakota and Earliest Russian Millet.) It is from 2 to 4 weeks earlier than German millet, and can be cut for hay in 60 days from planting. The blades are wide, the straw fine and soft and does not make as much hay as German millet. It stools heavily. Sow  $\frac{3}{4}$  bu. broadcast or  $\frac{1}{2}$  bu. in drill to the acre for hay, on rich land. Price 15c per lb., postpaid. By freight 4c per lb.; \$1.65 per bu. (50 lbs.).

**JAPANESE BARNYARD MILLET.** (Called "Billion Dollar Grass" owing to its high value.) Its greatest value is for green fodder, of which it yields 3 to 5 tons per acre. It is excellent for cows, producing more milk than corn fodder. It grows 6 to 8 feet high, and produces 50 to 90 bushels of seed per acre. It should be sown to give best results the latter half of May at the rate of 10 pounds per acre. Price, per lb., 18c; 3 lbs., 50c; postpaid. By freight, per lb., 5c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.25.

**HOG, OR BROOM CORN MILLET.** This millet yields enormously of seed, often 60 to 70 bushels to the acre. Price 15c per lb., postpaid. By freight, 5c per lb.; \$2.00 per bu.

**HUNGARIAN.** (Dark Seed.) About one week earlier and requires less moisture than German millet. Price 15c per lb., postpaid. By freight, 5c per lb.; \$1.75 per bu.

### PENCILARIA OR PEARL MILLET

It grows luxuriantly on any soil suitable for corn, especially on rich land, where it will grow 10 to 12 feet high, but cutting should commence when 2½ to 5 feet. After being cut it will stool out enormously, become thicker and during the warm weather grow with marvelous luxuriance. It also does well on poor soil. Very desirable in districts subject to drought as it continues to grow in dry weather, though, of course, not so rapidly. Looks more like cane than millet.

Sow 2 to 3 lbs. per acre in drills 3 feet apart. Do not plant until warm weather. Price 25c per lb., postpaid. By freight, 15c per lb.; 5 lbs., 65c; 10 lbs. for \$1.10.



MILLET

PRICES ON ALL GRASS AND FIELD SEEDS SUBJECT TO MARKET CHANGES

## NURSERY STOCK

Our fruit trees are all grown at home and adapted to this climate. We guarantee our trees to give you satisfaction in so far that if they are not satisfactory upon arrival you can return them immediately at our expense.

We catalog only such varieties as are productive and suitable for this climate.

### STATE ENTOMOLOGIST'S CERTIFICATE OF NURSERY INSPECTION

This is to certify that on the 25th day of July, 1913, the nursery stock, including florist's stock, trees, shrubs, plants, vines, cuttings, grafts, scions, buds, bulbs and roots grown by and for the Griswold Seed Co., of Lincoln, Nebr., was inspected and found to be apparently free from San Jose scale and other dangerous insect pests and fungus diseases. This certificate is good until July 1, 1914.

LAWRENCE BRUNER, State Entomologist,  
By JOHN T. ZIMMER, Deputy.

### APPLES

**DUCHESS OF OLDENBURG.** Tree upright and extremely hardy. An early annual bearer of uniform large crops. Fruit large, greenish, yellow with red stripes. Flesh light yellow, splendid cooking favorite. Season July and August.

**RED JUNE.** Size medium, oblong, very red. Flesh white, tender, juicy, sweet, acid with a fine flavor. Quite early and keeps well for a summer apple. Tree very hardy, bearing young and abundantly.

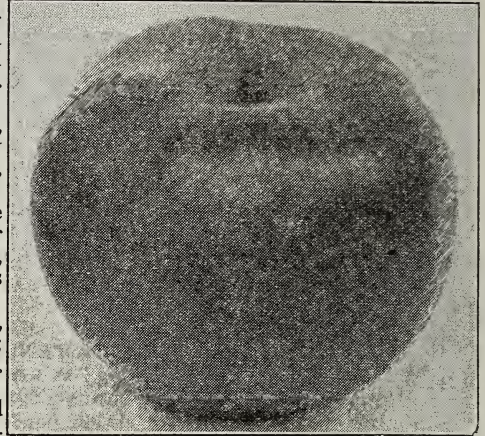
**YELLOW TRANSPARENT.** One of the most valuable apples. Fruit medium, smooth, transparent, skin clear white; becoming pale yellow when fully ripe; flesh white, very tender and of splendid quality. Tree is vigorous and an annual bearer. Season July.

**MAIDEN BLUSH.** Of uniformly good size, smooth, round, beautifully flushed with red or yellow ground; flesh tender, of pleasant flavor. A good market sort. September and October.

**BEN DAVIS.** Fruit large, handsome, brightly striped with red; flesh medium quality. Very profitable commercial variety. Tree vigorous and hardy. Season January to April.

**GRIME'S GOLDEN.** Tree vigorous. Fruit above medium, regular, surface rich golden yellow, flesh yellow, flavor rich and spicy, slightly acid. Specially good for early winter. Season November to January.

**JONATHAN.** A delicious dessert apple. Fruit good size, surface smooth, clear, bright yellow



WEALTHY

almost covered with rich dark red on sunny-side; flesh white, tender, juicy, and spicy. November to January.

**WALBRIDGE.** Medium size, striped with red, good cooker; vigorous grower and productive. Very hardy and considered of value in the North. December to January.

**WEALTHY.** One of the best known apples grown on account of its desirability. Fruit large, regular, smooth, bright yellow with crimson stripes and splashes, flesh, white often stained with red; very juicy. September to January.

**WINESAP.** A valuable, well known variety. One of the leading export apples, fruit medium, roundish, skin moderately thick and very tough. Dark red with yellow; flesh very rich and firm. Season December to May.

### CRAB APPLES

**FLORENCE.** A hardy tree, bearing young; fruit medium, of carmine color; flesh yellowish; medium fine; a fine jelly crab.

**MARTHA.** A vigorous grower and free from blight. Fruit large yellow with heavy blush of light red, flesh fine grained, firm; very juicy and fine for cooking.

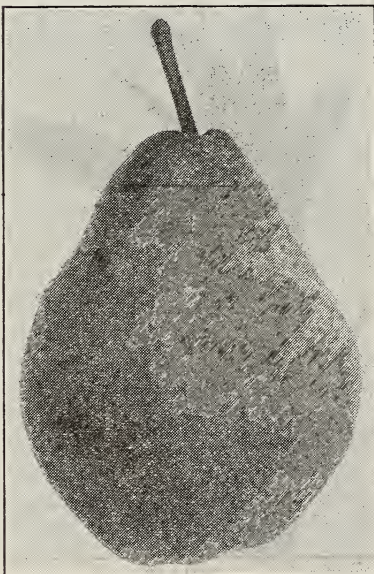
**WHITNEY.** (Hybrid, No. 20.) Fruit very large for a hybrid; yellow, striped red on sunny side; flesh yellow, very juicy; flavor rich and almost sweet.

### PEARS

**CLAPP'S FAVORITE.** A large fine pear resembling the Bartlett but without its musky flavor. Pale lemon yellow with brown dots, very juicy with a delicate flavor.

**GARBER.** Large bright yellow with red; juicy and good, splendid for canning. Trees not subject to blight and the fruit ripens just after the Bartlett.

**SECKEL.** Small, rich, yellowish brown. One of the best and highest flavored pears known. Very productive.



CLAPP'S FAVORITE

**PEACHES**

**ALEXANDER.** (Cling.) Medium size, greenish white, nearly covered with rich red; flesh sweet and juicy. Very productive.

**HALE'S EARLY.** (Semi-Cling.) Medium greenish white with red cheek; flesh white, melting, juicy. Abundant bearer.

**TRIUMPH.** (Free.) Medium round, somewhat flattened; greenish yellow, purplish red. Flesh yellow with red stains; juicy and very good. One of the early sorts.



ALEXANDER

**APRICOTS**

**ALEXANDER.** (Russian). Medium to large; light orange, yellow flecked with red; flesh tender, juicy, sweet and good quality; hardy; very productive. July.

**BUDD.** (Russian.) Medium to large; light orange with blush on sunny side; flesh sweet, juicy with flavor of the peach; hardy and productive. August.

**CHERRIES**



EARLY RICHMOND  
PRICES ALL VARIETIES

	Size	Per 1	Per 10	Per 100
Apples .....	5-6	\$0.30	\$2.85	\$27.00
Apricots .....	5-6	.40	3.75	35.00
Crab Apples.....	5-6	.35	2.25	30.00
Cherries .....	5-6	.35	3.25	30.00
Peaches .....	5-7	.25	2.25	20.00
Pears .....	5-7	.35	3.25	30.00
Plums .....	5-7	.40	3.75	35.00

By express at purchaser's expense.

**EARLY RICHMOND.** Fruit dark red and of medium size, very juicy, acid flavor, one of the most valued and popular varieties. Trees hardy and very productive.

**ENGLISH MORELLO.** Medium to large, roundish, dark red, nearly black when ripe, flesh purplish red, meaty, juicy. Very productive.

**LARGE MONTMORENCY.** Large roundish red, flesh tender, mildly acid and good quality. About ten days later than Early Richmond.

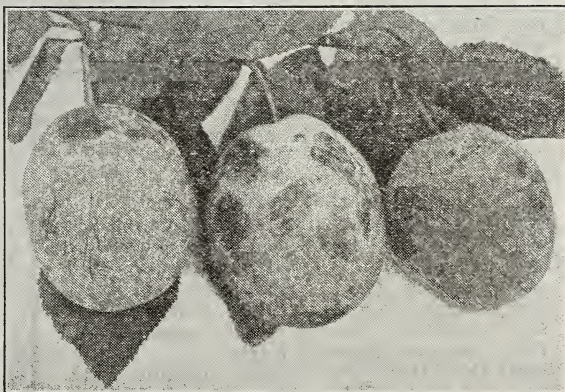
**PLUMS**

**BURBANK.** Medium to large, orange-yellow; dotted with red, flesh meaty, yellow, sweet and good; valuable for canning, hardy and very prolific.

**WOLF.** Yellow, mottled with red; flesh yellow, firm and good quality. Very prolific bearer. Medium size.

**HAWKEYE.** Very large, dark red, rich and good. Tree a fine grower and hardy.

**WEAVER.** Large, oblong, flattened at ends, dark mottled red with purplish bloom; flesh firm, meaty and very good; a constant and regular bearer and very hardy.



BURBANK

**POPULAR FRUIT GROWING.** By Samuel B. Green, Professor of Horticulture and Forestry in the University of Minnesota. A thoroughly practical work treating on the factors of successful fruit growing, orchard protection, insects injurious to fruits, diseases injurious to fruits, spraying apparatus, harvesting and marketing, principles of plant growth, propagation of fruit plants, pome fruits, stone fruits, grapes, small fruits, nuts, etc., etc. Profusely illustrated, 300 pages, 5x7 inches. Price, cloth \$1.00, postpaid.

**AMATEUR FRUIT GROWING.** By Samuel B. Green. A practical guide to the growing of fruit for home use and the market, written with special reference to a cold climate. Illustrated. 134 pp. Price, 12 mo. cloth, 50c; paper, 25c.

**THE PRACTICAL FRUIT GROWER.** By S. T. Maynard. Just what the beginner needs and the successful fruit man practices. Illustrated. 128 pages. 5x7 inches. Price cloth 50c.

**SMALL FRUIT CULTURIST.** By Andrew S. Fuller. The book covers the whole group of propagating small fruits, their culture, varieties, packing for market, etc. It is very finely and thoroughly illustrated. 298 pages, 5x7 inches. Price, cloth, \$1.00.

**THE LAWS ARE SUCH THAT WE CANNOT SHIP NURSERY STOCK INTO WYOMING**



# SMALL FRUITS

POCKLINGTON

**GRAPES**

The Law is such that we cannot ship nursery stock into Wyoming.

There is scarcely a yard so small, either in country or city, that room for one to a dozen or more grapevines cannot be found. They do admirably trained up to the side of any building, or along the garden fences, occupying but little room and furnishing an abundance of the healthiest of fruit. Make the soil mellow, and plant the vines somewhat deeper than they stood in the nursery. Plant about 8 feet apart by the fence or building. For vineyards, make rows 8 feet apart, 6 to 10 feet in rows.

**AGAWAM.** (Red.) Bunch large, compact, shouldered, berry large, dark red or nearly black; flesh tender, juicy, vinous and good quality; later than Concord. 12c each, \$1.00 per doz.; postpaid. By express, 75c per doz.; \$5.00 per 100.

**BRIGHTON.** (Red.) Bunch medium to large, long, compact, shouldered; berries medium; skin thin; flesh tender, sweet, with scarcely any pulp; quality best.

Vine a vigorous grower, healthy, hardy and productive; one of the best early red Grapes. The flowers have reflexed stamens, do not always fertilize fully unless planted with Concord, Worden, Niagara or other varieties which blossom at the same time. 15c each, \$1.25 doz.; postpaid. By express, \$1.00 doz.; \$6.00 per 100.

Insecticides and Sprayers  
Pages 76-80.

**CONCORD.** The old, well-known and deservedly popular variety. Succeeds wherever grapes can be grown, 10c each, \$1.00 doz.; postpaid. By express, 75c per doz.; \$3.75 per 100.

**MOORE'S EARLY.** (Black.) Bunch not quite as large as Concord; berries larger and very much like it in flavor and quality. Vine a moderate grower, very healthy and hardy. Produces a fair and, with high cultivation, a heavy crop.

Ripens so early as to be nearly out of market before Concord is ripe, is, therefore, a very popular early market variety. Succeeds best on rich soil. 15c each; \$1.25 doz.; postpaid. By exp., 90c doz.; 100, \$6.00;

**NIAGARA.** (White.) One of the leading white sorts; bunch large, shouldered, compact; berry large, yellowish, white, juicy, vinous and sprightly, quality good; skin tough. Price same as Moore's Early.

**POCKLINGTON.** Pale green, usually with tinge of golden yellow where exposed to the sun; bunch large, very compact; berries very large; flesh juicy, sweet, with considerable pulp. Vine a moderately good grower, but very healthy and very hardy, its buds withstanding severe cold even better than Concord. It produces a heavy crop of fine showy clusters. Price same as Moore's Early.

**WORDEN.** (Black.) Bunch large, sometimes shouldered, compact; berries very large, skin thin. Ripens 5 to 10 days earlier and fully equals Concord in vigor and productiveness.



MOORE'S  
EARLY



AGAWAM

Price same as Agawam.





HOUGHTON GOOSEBERRIES

### GOOSEBERRIES

Plant in good rich soil in rows 5 feet apart by 3 feet in the row, and give a liberal dressing of manure every season. Regular pruning every year is essential for the production of fine fruit. The English varieties especially do best in partial shade and should be heavily mulched. To prevent mildew spray bushes soon as leaves appear and several times during the summer with potassium sulphide or Grape Dust (see page 79) one ounce to four gallons of water.

**DOWNING.** An old and well-known variety. Fruit large and handsome, pale green, of fine quality. A strong, vigorous grower, seldom affected by mildew. One of the best. 20c each, postpaid. By express, \$1.80 per doz.

**HOUGHTON.** Fruit small to medium, pale red, of fine flavor. Plants of slender, spreading growth and enormously productive. 20c each, postpaid. By express, \$1.10 per doz.

### CURRENTS

Hardy, easily cultivated, stand neglect well, and liberally responds to cultivation and generous treatment; indispensable for jellies, etc. Set four feet apart in rich ground; cultivate well or mulch heavily; prune out old wood so that each remaining shoot will have room to grow. If the currant worm appears dust with hellebore. All 2-year-old plants, well rooted and strong.



WHITE GRAPE CURRENTS



WILDER CURRENT

**CHERRY.** Berries sometimes more than half an inch in diameter, bunches short, vigorous and productive when grown on good soils and well cultivated.

**FAY'S PROLIFIC.** The leading market variety, bunches and berries large and uniform in size, easily picked; exceedingly productive.

**VICTORIA.** Large, bright red; berries medium size, of excellent quality. Erect grower, very productive. Ripens late, a valuable sort.

**WHITE GRAPE.** Very large, yellowish white, sweet or very mild acid. Excellent quality and valuable for the table. Productive.

**WILDER.** One of the strongest and most productive. Bunch and berries very large, bright, attractive red color, even when dead ripe; hangs on bushes in fine condition for handling until very late. A valuable market sort.

### PRICES

All currants 15c each; \$1.25 per doz.; postpaid.

By express, \$1.00 doz.; \$6.00 per 100.

**THE LAWS ARE SUCH THAT WE CANNOT SHIP NURSERY STOCK INTO WYOMING**

**SNYDER.**

Very popular for the Northwest on account of its extreme hardiness; wonderfully productive, size medium, fruit juicy and sweet, canes remarkably strong and thrifty. 10c each; 80c per doz.; postpaid. By express, 45c per doz.; \$3.00 per 100.

**RASPBERRIES**

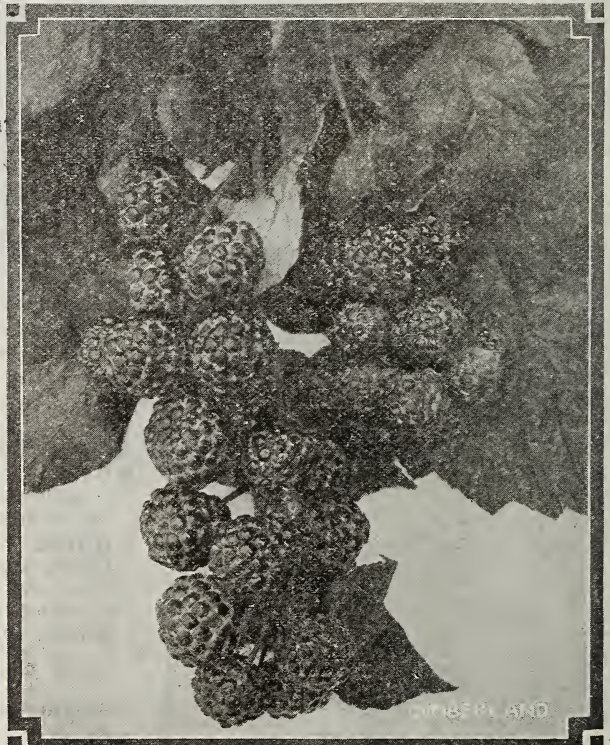
Will do well on any soil that will produce a good corn crop. Land should be thoroughly prepared and well enriched; ground bone is one of the best fertilizers. Keep well cultivated and free from weeds and suckers. As soon as they are through bearing, cut out the old wood to give more vigor to the young canes. Plant 3 feet apart with 5 feet between rows.

**CARDINAL.** This wonderful berry surprises all by its great growth, extreme hardiness, exceeding productiveness and the unusual richness of its pure flavored, large purple berries. 12c each; \$1.00 per doz.; postpaid. By express 75c doz.

**CUMBERLAND.** Largest black raspberry known. Perfectly hardy and vigorous grower. For productiveness nothing exceeds it. In quality rich, sweet and luscious; a mid-season variety. Each, 8c; 60c doz.; postpaid. By express, 45c doz.; \$2.75 per 100.

**KANSAS.** Strong, vigorous, standing extremes of drought and cold, and bearing immense crops. Early berries, jet black and of best quality. 8c each; 60c per doz.; postpaid. By express, 45c per doz.

Everbearing Blackberries and Raspberries  
Page 48

**BLACKBERRIES**

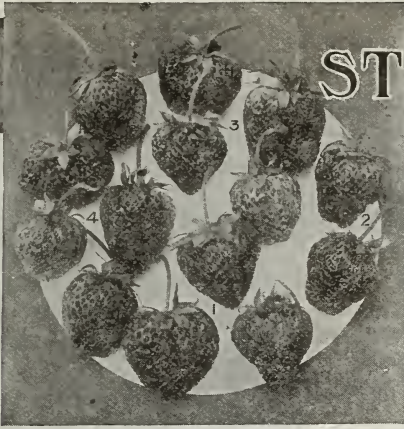
Blackberries are among the best-known and most valued of our berries. No fruit of any kind is more wholesome. A liberal use of berries and other good fruit will save doctors' bills. Blackberries should be planted in rows six or seven feet apart, three to four feet in the row. Keep the ground light, rich and clean, and pinch the canes back when they have reached four feet in height. For garden culture set in rows 4 feet apart, light, rich soil being preferable.

**BLOWER.** A splendid new sort. Large size, jet black, god shipper, best quality, unexcelled productiveness. 12c each; 6 for 65c; postpaid. By express, 60c per dozen; \$3.75 per 100.

**MERSEREAU.** Berries large, jet black, very productive, sweet, good quality. Fine market sort. Price 10c each; 90c per doz.; postpaid. By express, 50c per doz.; \$3.00 per 100.

\*\*\*\*\*  
 Butte Co., S. D.  
 May 22, 1913  
 Received the extra shipment of strawberry plants and with the exception of a few plants they are all living. I very much appreciate the favor and feel that this is one seed company that is anxious to give its customers value received.  
 WM. L. MESKEL.  
 \*\*\*\*\*

# STRAWBERRIES



**THE LAWS ARE SUCH THAT WE CANNOT SHIP NURSERY STOCK INTO WYOMING.**

**CULTURE.** On arrival of plants unpack them at once. loosen the bunches, "heel" them in the ground or dip their roots in a "puddle," made by mixing earth in water until of the consistency of cream, and lay in a cool, damp place until they can be planted. Do not leave in package and pour water over them, as this will surely cause the plants to heat and spoil. To grow large berries and plenty of them fertilizers must be used freely. Ground bone is excellent. Do not plant deep, but press the earth very firmly about the roots. Should the weather be warm, shade for a few days with

coarse litter. Cultivate well and keep out the weeds. For field culture plant in rows four feet apart, with plants one foot apart in the row. For garden culture, plant three feet by one foot. Turn runners the direction of the row. When ground freezes, mulch with light coat of straw. Remove the mulch in the spring and cultivate. (B) Perfect flowers—can be planted alone. (P) Pistillate, imperfect flowers—must have some marked (B) mixed with them, as close as one row in three.

**BEDERWOOD.** (B) (See No. 2 in cut.) This is generally considered to be one of the very best early varieties for home use or market. It is a splendid grower, making a large number of strong runners. It has a perfect blossom and is exceptionally productive. The fruit is of good size, light red, medium firmness and good quality. One of the best to plant with Warfield.

**BRANDYWINE.** (B) (See No. 3 in cut.) This variety has proven so satisfactory with all who have grown it that it is consequently in large demand. It is comparatively new and of great value by reason of its productiveness; large size, beauty and good quality, which renders it especially desirable for the home garden. The berries are a glossy crimson, very handsome, firm, solid and excellent in quality with a fine flavor. The plant is remarkably vigorous, hardy and exceedingly productive. It is a mid-season to late variety and is excellent to plant with Warfield. 35c per doz.; \$1.35 per 100; postpaid. By express, \$1.00 per 100; \$6.50 per 1,000.

**EARLY OZARK.** (B) Very early, producing large, well colored berries of excellent quality. Plants large and vigorous. This variety has been tested here for several seasons and proven

very satisfactory. Excellent shipper. Price, 35c per doz.; \$1.35 per 100; postpaid. By express, \$1.00 per 100; \$6.50 per 1,000.

**SENATOR DUNLAP.** (B) (See No. 1 in cut.) Plant resembles Warfield, rampant runner, should be restricted in its production of plants; fully equal to Crescent and Warfield in its ability to succeed under all circumstances. Fruit good size, regular form, beautiful bright red, glossy, firm, splendid keeper and shipper, excellent quality, one of the best for canning; ripens early and continues a long time.

**WARFIELD.** (P) (See No. 4 in cut.) This variety stands next to the Senator Dunlap, being quite similar in shape and size. However, Warfield is a sour berry and a little deeper in color, thus making it one of the very best for canning. It also holds its color in the cans, which is a very strong point in its favor. While the individual plants are quite small, it is remarkable the number of quarts produced by a lightly matted row grown on good strong soil.

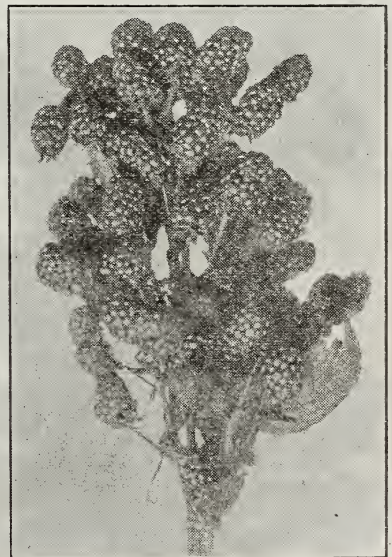
Price of all except Brandywine and Ozark: Per dozen, 30c; \$1.10 per 100, postpaid. By express, 75c per 100; \$5.00 per 1,000.

## GIANT HIMALAYA BERRY

### PRICE

12c each; 10 for \$1.00, postpaid. By express, 10c each; 10 for 75c; \$6.00 per 100.

**THE GIANT HIMALAYA.** This berry is a recent introduction from the northern slope of the Himalaya Mountains, 6,000 feet above sea level. The vine is vigorous, very hardy and makes a growth of 20 to 30 feet in one year. It can be trained on a fence or arbor similar to grape vines. The berries are round and about three-quarters of an inch thick, very fine, with a tough skin and no core. They are jet black and very handsome. Like Blackberries, they are quite tart before they are fully ripe, but very sweet and rich when matured. They are borne in enormous clusters of large sized berries, which ripen about August 1st and bear until October. The first year there are a few blossoms, no fruit; the second year there is a medium crop; the third year and thereafter it yields a full crop. There has been practically no complaint from parties growing the Himalaya, but all praise it and say it's the finest berry ever introduced. The Himalaya has no dead wood. It fruits from the old canes the same as new every year, but it is necessary to prune some wood away each year.



**EVERBEARING RED RASPBERRY**

**ST. REGIS.** Plants set early in April gave berries June 20th of the same year, and the canes continued to produce ripe berries freely, until the middle of October. In addition to the bright crimson color and large size of the fruit, it is so firm and rich in sugar that it will stand shipping two hundred miles, can readily be kept in perfect condition for several days after being gathered. It succeeds upon all soils, whether light and sandy or cold and heavy clay and the canes are absolutely hardy.

**EVERBEARING BLACK RASPBERRY**

**KING OF CLIFFS.** This is a wonderful Black Raspberry and will actually bear fruit from June until killed by frost in the fall. The vines are literally loaded with fruit in all stages, from bloom to ripe fruit. It creates a great surprise wherever grown for it has no equal as an ever-bearing variety. It is a great berry novelty and will be appreciated wherever grown. Price of Everbearing Red and Black Raspberries 15c each; \$1.50 per doz.; 25 for \$3.00; postpaid. By express, 25 for \$2.25; 100 for \$7.50; 500 for \$30.00.

**FALL BEARING STRAWBERRIES**

**AMERICUS.** This is the most wonderful everbearing strawberry ever produced. It is strong staminate, healthy and a strong grower, very productive from May until hard freezing weather, very drought resistant and succeeds better in dry, hot climate than any other variety. Fruit holds up well in wet weather.

Size medium to large, very firm, uniform shape, bright red thru and thru. Fruit is protected from frost by heavy foliage. The berries literally lay about in heaps, has a native wild strawberry flavor. It has been thoroughly tested and seems to succeed



over a wide range of territory from the extreme north to the extreme south.

**STAND PAT.**

Plant large and stalky. The fruit is large, well colored and fine flavored. When kept debudded up to August 1st they push out strong fruit stems, forming a continuous

ring of white blossoms all around each plant and as the berries ripen they lay in piles, clustering deep around the plant.

**IOWA.** Plant large and thrifty. A satisfactory plant maker under average conditions, a little later than some others in coming into bloom, thus saving the labor of disbudding. A heavy and continuous fruiter from about August 10th to cold weather. Fruit medium to large. The berries about the size of Brandywine, color scarlet, firm, good quality. Very heavy bearer.

**PROGRESSIVE.** The fruit and plants closely resemble the Dunlap in appearance. The fruit is medium size, dark red inside and out, blossoms strongly staminate, nearly every one makes a berry. Bloom and fruit well protected by foliage, a most valuable feature. The plants produce more runners and new plants than any variety of fall bearing strawberries we know of. It produces good paying crops in the fall of both the first and second years. Price of all Fall Bearing Strawberries 12c each; \$1.10 per doz.; 25 for \$1.65, postpaid. By express, 25c for \$1.50; 100 for \$5.00; 500 for \$20.00.



# FLOWER SEEDS

It Will Pay You to Read the Following Carefully:

**General Culture.**—A rather light and moderately rich soil thoroughly spaded, is most desirable. That the tiny seedlings may be seen and the weeds removed, it is better to plant all flower seeds in rows. Sow the seed evenly in the rows, cover with the finest of soil, about three times the diameter of the seed, and press the soil firmly over the seed. The soil should never become dry after the seeds have been swelled, for if it does, they will be pretty sure to fail. Do not grow the plants too thick. Keep the weeds down and the surface of the soil well stirred with a hoe or rake during the summer, especially if the weather is dry. A great many varieties can be sown in the house, if desired early,

and afterwards transplanted. Most plants will continue to bloom much longer if the flowers are picked, and not allowed to form seed. Discount: Any 6 of our Large 5c Packets for 25c.

**RULE FOR PLANTING**

Cover seed three times the depth of seed planted. Keep covered with cloth or paper till sprouts appear.

## SEEDS OF ANNUALS

In this department we include both annuals that bloom and dies the first year, and such perennials as flower freely for the first year. For started plants, see Page 64. For other vines, see Pages 55-56. For other perennials, see Pages 57-60. For house plants, see Page 64.

**FLOWER SEED—ALL PRICES POSTPAID**

**ACROCLINUM.** Daisy-like, everlasting flowers; pink and white, with yellow centers. Pkt.....5c

**AGERATUM.** One of the best border flowers, blooming all summer; of easy culture. Grows 5 inches high. Blue or white. Pkt.....5c

**AGROSTEMMA.** (Rose of Heaven.) Attractive pink-like blossoms on long, slender stems. Very pretty in masses. Perennial. Pkt....5c

**ALYSSUM.** Profuse bloomer, good for bordering or for bouquets, fine for window boxes. Sow very early. Pkt.....5c

Sweet. Fragrant white flowers. The old favorite. Pkt.....5c

Little Gem. Dwarf and compact. Good for border. Pkt.....5c

Carpet of Snow. Very dwarf trailing plants. Pkt.....5c

**ASTERS.** (For aster plants see page 64.) One of the most popular of our garden flowers for late summer and fall display. Sow seed early and give deep soil with plenty of mulch.

**Hohenzollern.** Improved. The flowers are very large and double, with long, curled petals on long stems, very graceful. White, pink, lavender, purple and mixed. Pkt.....10c

**Giant Comet.** (See cut at top of page.) A beautiful, distinct variety, resembling chrysanthemums. Mixed. Pkt.....10c

**Branching.** Large, late-blooming, with long, strong stems. Mixed colors. Pkt.....5c

**Betteridge Quilled.** Flowers large, freely produced, and of brilliant colors; height, 12 inches. Mixed, all colors. Pkt.....5c

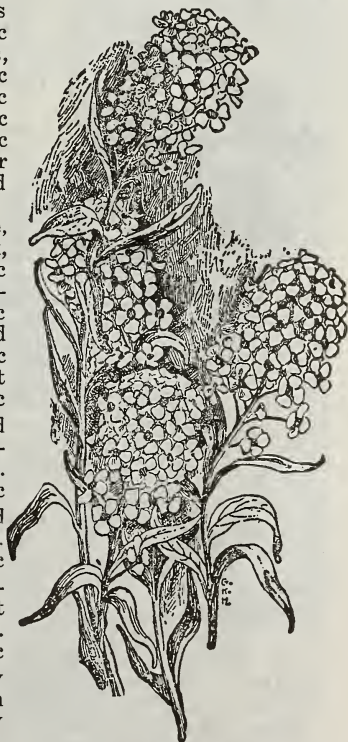
fectly double, with beautifully incurved  
**Truffaut's Peony Perfection.** Large and per-  
petals, giving the flowers a globular form.  
Mixed colors. Pkt.....5c

**Chrysanthemum Dwarf.** 9 inches high. Good sized flowers, free bloomer. Mixed colors. Pkt. ....5c

**AMARANTHUS.** Rapid growing, bright-colored foliage plants. Sow seed early and set out in rather poor soil to get best effects. Pkt. ....5c

**ANTIRRHINUM.** (Snapdragon.) Dark glossy leaves and beautiful spikes of flowers, with finely marked throats; one of the most showy border plants. Of easiest culture.

ANTIRRHINUM



ALYSSUM, SWEET.

**Queen of the North.** Large, fragrant, white flowers. Nice for pot-culture as well as borders. Pkt. 5c

**Tall Sorts, Mixed.** All shades of red and yellow; best for cutting. Pkt.....5c

**Dwarf Sorts, Mixed.** Large variety of colors; best for edging. Pkt.....5c

**BALSAM.** (Lady's Slippers or Touch-Me-Not.) To grow these to perfection, start the seed in the house or hotbed, transplanting to very rich soil in the garden. Transplanting them two or three times has a tendency to dwarf them and make them more double.

**Camellia-Flowered.** The best of all balsams. Flowers very large, perfect in form, double and produced in abundance. Mixed colors. Pkt.....5c

**BACHELOR'S BUTTON.** See Centaurea Cyanus and Globe Amaranth. Page 51. Pkt.....5c

**BUTTERFLY FLOWER.** See Schizanthus. Page 53. Pkt.....5c

**CACALIA.** (Flora's paint brush.) Small, tassel-like flowers. Golden yellow and scarlet. Pkt.....5c

**CALENDULA.** (Pot Marigold.) Very free and attractive bloomers. Double, all shades of yellow. Pkt.....5c

**CASTOR BEAN.** See Ricinus. Page 53.

**CANDYTUFT.** A dwarf-growing annual, making a striking display early in the season. Sow early where plants are to bloom. Grows one foot high.

**Empress.** A complete mass of pure white flowers. Valuable for bouquets. Pkt.....5c  
**Fine Mixed.** Red, pink and white. Pkt.....5c

**CANNA.** (Indian Shot.) Stately plants with handsome foliage and showy flowers. The seeds should be soaked 24 hours in warm water before planting. If sown in February should bloom in July.

**Crozy's Dwarf Hybrid.** Saved from best and largest flowers only. All colors. Pkt.....5c

**CALLIOPSIS.** A showy plant, producing flowers of yellow, red and brown. Sow quite early and thin to 6 inches apart. Mixed. Pkt.....5c



BALSAM, DOUBLE CAMELLIA.

**CELOSIA.** (Plumosa.) About two feet high, of branching habit, with feathery plumes of brilliant red; one of the most effective ornamental plants. Pkt.....5c

**Christata.** (Cockscomb.) Free blooming dwarf or tall plants, producing spikes of comb-shaped flowers. Pkt.....5c

**CENTAUREA.** These old-fashioned flowers are fine for borders.

**Cyanus.** (Bachelor's Button.) Also called Blue Bottle, Ragged Sailor and Corn Flower. Is a hardy annual, coming up year after year from self-sown seed. Mixed. Pkt.....5c

**Emperor.** Intense blue. Pkt.....5c

**Gymnocarpa.** (Dusty Miller.) Graceful, fine-cut, silvery white foliage. Nice for edging beds. Pkt. 5c

**Imperialis.** (Sweet Sultan.) Double sweet-scented flowers borne on long, stout stems. Keeps for a week in water, if cut just when about to open; white, lilac, rose and purple, 2 feet high. Mixed. Pkt...5c

**CHRYSANthemum.** (Annual.) Distinct from the pot plant varieties, blooming all summer. All shades of yellow. Choice mixed. Pkt.....5c

**CLARKIA.** Very pretty free flowering annuals, desirable for shady places. Pkt.....5c

**FOUR O'CLOCK.** (Marvel of Peru.) The fragrant flowers, produced in clusters, open in the afternoon. Mixed. Pkt.....5c

**CLEOME.** Pungens, (Giant Spider Plant.) Rose colored flowers with long stamens. A tall grower, and blooms freely until frost. Pkt.....5c

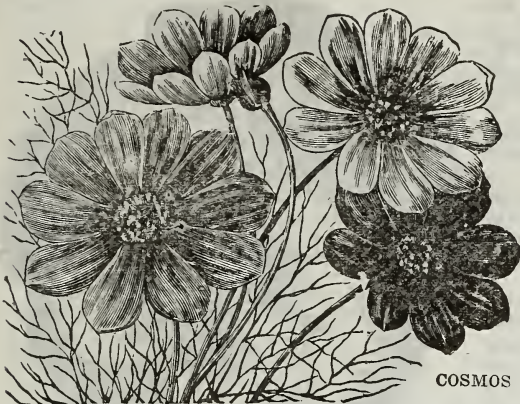


CALLIOPSIS



CENTAUREA IMPERIALIS

For Fertilizer in the Flower Beds Use "Sward Food."



COSMOS

**COSMOS.** An autumn plant with feathery foliage. The flowers are borne profusely in loose clusters. Seeds should be sown early in the spring and the plants transplanted to two feet apart when danger from frost is past. 5 to 7 feet high. **Lady Lenox.** Strong, vigorous grower, bearing shell-pink flowers of extraordinary size and substance. Excellent for cutting. Pkt.....5c **Mammoth Giant Perfection**, white, pink, red, mixed. Each, pkt.....5c **Early Flowering.** Comparatively dwarf plants, producing both white and colored flowers, coming into bloom much earlier than the giant forms and will give a great profusion of bloom until late in the autumn. Mixed. Pkt.....5c **DATURA.** (Sweet Nightingale.) A large, strong growing plant, with trumpet-shaped, fragrant, pearl-white flowers. Pkt.....5c



CALIFORNIA POPPY

Pick when flowers open and hang, stems up, to dry for winter bouquets. Pkt.....5c

**GAILLARDIA.** (Blanket Flower.) **Picta Lorenziana.** The heads of star-shaped flowers are greatly admired for their rich blending of red, yellow and orange. Pkt.....5c **GODETIA.** Beautiful garden plants, having delicately shaded, large, trumpet shaped blossoms. Easily cultivated in any good garden soil. Pkt.....5c **GLOBE AMARANTH.** (*Gomphrena*.) Sometimes called Bachelor's Button. A very pretty everlasting flower with blossoms resembling clover. Red and white. Pkt.....5c Mixed. Pkt.....5c **GOLDEN FEATHER.** (*Pyrethrum Aureum*.) Finely cut leaves of bright golden yellow color. Extra fine for bedding. Perennial. Pkt.....5c **GYPSOPHILA.** Thrives everywhere and furnishes light and grace to a bouquet. The tiny white flowers are on branching stems. Pkt.....5c

**ESCHOLTZIA.** (California Poppy.) Sow early, where it is to remain, as it will not bear transplanting. The foliage is finely cut and handsome, and the flowers are very showy, large and freely produced. **Californica.** All shades of yellow. Pkt. ....5c

**EVERLASTING.**—(See *Acroclinium*, *Celosia*, *Globe Amaranth*, *Gypsophila*.)

**DIANTHUS.** Of value for bedding. The colors range from pure white to the richest crimson, spotted and striped. Perennial but bloom the first summer, and for years, if the flowers are freely picked.

**Chinensis.** (Double Chinese or Indian Pinks.) Compact plants with large double flowers. Excellent for bouquets as well as bedding. Pkt. ....5c

**Heddewigi.** (Double Japan Pinks.) Much larger than the Chinese pinks.

**Heddewigi Fireball.** Brilliant Scarlet. Pkt.....5c **Heddewigi Snowball.** Pure white. Pkt.....5c **Heddewigi Mixed.** All colors. Pkt.....5c **Heddewigi Midnight.** Blood red. Pkt.....5c

**HELIANTHUS.** See Sunflower. Page 53. **KOCHIA.** (Burning Bush or Summer Cypress.) The plants grow with many slender branches resembling a small, closely sheared evergreen with light green leaves until fall when the whole plant turns crimson. Seed germinates readily. Sow May 1, and thin to 2 feet apart. 2 1/4 feet high. Pkt.....5c

**LARKSPUR.** (Hyacinth Flowered.) The flowers, which resemble a double hyacinth, are borne freely in long spikes of blue, pink and white. The plants are of dwarf habit. Sow where the plants are to bloom. Pkt.....5c **Double pink.** Mixed. Pkt.....5c

**LOBELIA.** (Crystal Palace.) Charming little plants that bloom very quickly from seed and continue all through the season. Deep blue, 6 inches high. Very nice for bedding or for borders. Pkt.....5c



DIANTHUS



GAILLARDIA

**MARIGOLD.** Wherever a rich display of bloom is desired, the Marigold is almost indispensable.

**African.** Immense flowers, double; all shades of yellow. Pkt.....5c

**French.** Dwarf grower; double flowers, rich golden yellow marked with velvety brown. Pkt.....5c

**MIGNONETTE.** (Reseda Odorata.) A well known fragrant favorite; in bloom the whole season if gathered freely. Large flowering. Pkt.....5c

**NICOTIANA.** (Affinis.) Deliciously fragrant, large white, star-shaped flowers; open at evening and early morning; easily grown, blooms freely in the house. Pkt.....5c

**Sanderae.** Sweet scented, brilliant red flowers on sturdy, bushy plants 2 feet high; grows readily from seed. Pkt.....10c

**NIGELIA.** (Miss Jekyll.) (Love in a Mist.) The plants are vigorous and give an abundance of flowers of the clearest blue, contrasting most charmingly with the fine, fern-like foliage. Pkt.....5c

**NASTURTIUM.** (Dwarf or Tom Thumb.) A bed of dwarf nasturtiums in the yard is very brilliant and attractive, blooming all the season. 1 foot high.

**Beauty.** Scarlet, splashed canary. Pkt.....5c

**Chameleon.** Mottled crimson, bronze and yellow. Pkt.....5c

**Crystal Palace Gem.** Sulphur with maroon spots. Pkt.....5c



**Golden King.** Deep yellow flowers. Pkt.....5c

**Golden Queen.** Leaves golden-green, flowers orange yellow. Pkt.....5c

**Scarlet King.** Brilliant scarlet. Pkt.....5c

**Mixed.** Ounce, 10c; Pkt., 5c



**PANSIES.** (For started plants see page 64.) The seed may be sown in the hot bed or open ground. Keep the soil moist. They prefer a half shady place. Do not let the plants seed if you wish to keep them in bloom. If sown in the fall, pansies will bloom very early in the spring.

**Masterpiece.** (Giant Curled.) The fluted petals make the enormous flowers appear double. The colors and combinations are odd and striking. Pkt.....20c

**Mammoth Butterfly.** The flowers are very large. The colors are rich red, chocolate and purple shades, mottled and spotted. Pkt.....15c

**Bugnot.** The flowers are large, with broad blotches, and delicate pencilings to the edges of the petals. Pkt....10c

**Odier.** The blotched, or five-spotted variety. Very rich and showy. Pkt.....10c

**Fancy Striped.** A striking mixture. Pkt.....5c

**Fine Mixed.** A very good quality. Pkt.....5c

**Giant Adonis.** Light blue. Pkt.....5c

**Giant Atropurpurea.** Dark purple. Pkt.....5c

**Giant Bronze.** Shades of bronze. Pkt.....5c

**Giant Cardinal.** Brilliant red. Pkt.....5c

**Giant Emperor William.** Dark blue. Pkt...5c

**Giant Goldelse.** Yellow. Pkt.....5c

**Giant King of Blacks.** Beautiful black. Pkt..5c

**Giant Snow Queen.** Pure white. Pkt.....5c

**Superb Mixed.** Pkt.....5c

**Special Giant Mixture.** An excellent combination of fancy strains, selected with a view to being as near perfection as possible. Pkt.....10c

**PANSY SPECIAL.—No. 14.** 1 pkt. of each of the next above 8 Giant named colors.....30c

**PETUNIA.** Petunias are very popular for their rich coloring continuation of bloom, pleasing fragrance, and easy culture. Can be sown in the open border, in full sun or partial shade. Transplant easily. 1½ feet high.

**General Dodds.** Beautiful; velvety, dark red. Pkt.....5c

**Snowball.** Compact growing, pure white, blooms all summer. Pkt.....5c

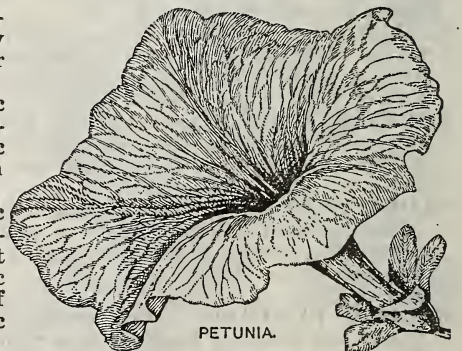
**Howard's Star.** Rich, velvety, maroon with a white blotch on each petal.

**Fine Mixed.** An excellent mixture. Pkt.....5c

**Giant Ruffled and Fringed Single.** The flowers are exquisitely ruffled or fringed, of immense size, and of great varieties of colors. Pkt.....10c

**Double Mixed.** Sure to produce a good percentage of double flowering plants. Pkt.....20c

**Single Mixed.** Extra choice.



PETUNIA.

**PANSY SPECIAL—No. 19.** One Packet each of Bugnot, Mammoth Butterfly and Odier 25c



**PORTULACA.** (Rose Moss.) Brilliant dwarf annuals, blooming profusely from early summer to autumn. For low beds and masses of color they are very desirable. They thrive best in a rather rich, sandy soil and a sunny situation; will stand any amount of dry weather. Single Mixed. All colors. Pkt.....5c  
 Double Mixed. Not all the plants will come double, but the single ones can be pulled out. Pkt.....10c

**RICINUS.** (Castor Bean.) Semi-tropical plants grown for their great size and picturesque foliage; colors range from bright green to dark red. One plant or a dozen make an admirable sight for a long distance. 6 feet to 10 feet high. Pkt.....5c

**SCABIOSA.** (Mourning Bride.) An old favorite greatly improved. Excellent for bouquet. Tall German Double. Mixed, all colors. Pkt.....5c  
 Black Prince. Very large, rich dark maroon. Pkt.....5c  
 Snowball. Elegant, white flowers, sure to be liked, for vases and bouquets. Pkt.....5c



PHLOX DRUMMONDI.

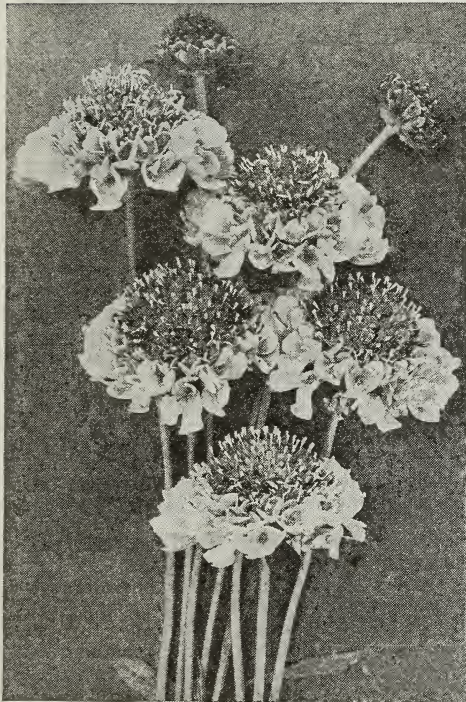
**PHLOX DRUMMONDI.** Seed sown in open ground in early spring will begin flowering about July first and bloom until frost. Thrives in almost any situation. For masses of separate colors or for bouquets they are unsurpassed. One foot high.

Alba. Pure white. Pkt.....5c  
 Scarlet. Very showy. Pkt.....5c  
 Rosy Chamois. Beautiful shade of rose. Pkt.....5c  
 Extra Choice Mixed. Best large flowered. Pkt.....5c  
 Starred and Fringed. Very dwarf flowers fringed and distinctly edged with white. Mixed. Pkt.....5c

**POPPIES.** These exceedingly showy and easily cultivated plants grow and bloom well in ordinary soil. Sow the seed where the plants are to grow, as they do not bear transplanting.

Tulip. Cup-shaped, brightest scarlet with black spot at base of each petal. Single. Pkt.....5c  
 Paeony-Flowered Mixed. Splendid large double flowers of all colors. Pkt.....5c  
 Shirley. Pink, carmine and brilliant crimson; many edged with white; single and half double, splendid. Pkt.....5c  
 White Swan. Immense double fringed flowers of purest white. Pkt.....5c

**Carnation.** Flowered. Brilliant, finely fringed double flowers of various colors. Pkt. 5c



SCABIOSA

**SALVIA.** Splendens. (Flowering Sage.) For started plants see page 64. (Among the most brilliantly colored of garden flowers and extremely useful for bedding; also valuable for pot culture. Blooms are borne in long spikes of fiery red, and continue in bloom until severe frosts. Start in house and transplant into light soil. Tender perennials, 2 to 3 feet tall. Pkt.....5c

**SUNFLOWER.** (Helianthus.) Adapted by its tall, vigorous growth for a background. Mammoth Russian. Of immense size, single. Pkt.....5c  
 Californicus. Extra large and very double. Pkt.....5c

**SCHIZANTHUS.** (Butterfly Flower.) Flowers are pretty and freely produced. Purple, yellow and crimson. Pkt. 5c

**STOCK.** (German Ten Weeks' Perfection.) Very desirable because of its brilliancy of color, profusion and duration of bloom. Fragrant, with large double rosette-like flowers. Mixed. Pkt.....10c  
 Princess Alice. Snow white. Of branching habit. Very profuse bloomer, especially if kept cut. Pkt.....5c



SHIRLEY POPPIES

**SALPIGLOSSIS.** (Velvet Flower.) Strong, erect plants with curious, funnel-shaped flowers of rich colors. Plant in warm, rich soil; among the best fall flowers. 1½ feet tall. Pkt.....5c

**SNAPDRAGON.** See Antirrhinum, page 49.

**VERBENA.** (For started plants see page 64.) For beds or massing the verbena is unrivalled; flowers of the most brilliant colors. Sow them early and they will bloom profusely from June until winter.

Defiance. Best scarlet. Pkt.....5c

Alba. Delicate white. Pkt.....5c

Mayflower. Delicate pink, very fragrant. Pkt.....5c

Hybrida Blue. Blue shades. Pkt.....5c

Purple. Purple shades. Pkt.....5c

Choice Mixed. All colors. Pkt.....5c

**WALLFLOWER.** Single annual. Very fragrant; purple, orange and bronze. A favorite English flower. Seed sown the first of May will bloom from July until severe frosts. It is very satisfactory as a pot plant for winter, if kept in a cool room. Pkt.....5c

**ZINNIA.** Flowers all summer, making the most brilliant display possible, excellent for border or summer hedge. Seeds grow easily, and young plants transplant safely.

Giant Flowering. Plants of vigorous growth, about three feet high, bearing profusely their perfectly formed double flowers. Mixed colors. Pkt.....5c

Dwarf Fireball. Glowing, brilliant scarlet. Pkt.....5c

Zebra. Flowers striped with red and yellow. Pkt.....5c

White Gem. Small, double white flowers. Pkt.....5c



SALPIGLOSSIS

## SEEDS OF HOUSE PLANTS

These can readily be grown if given careful attention. For winter blooming, plant during the spring or summer, in shallow boxes, in mellow soil about one-fourth sand. Sow the seed on the surface, and cover with a very little more soil; water carefully, cover with a pane of glass and keep dark until the seeds germinate, then light and air should be admitted by removing glass, partially at first. Place the box in the sun and transplant when large enough.

**CHRYSANTHEMUM.** (Perennial.) Japanese and Chinese large flowering. These are for pot culture, for blooming in the house in winter. If sown early, will flower the first year. Double mixed. Pkt.....10c

**FEVERFEW.** Clusters of very double, pure white flowers three-quarters of an inch in diameter. Fine for bedding or pot culture. Pkt.....5c

**COLEUS.** The best known of ornamental foliage plants with richly-colored leaves of maroon, green, yellow, etc. Easily grown either in the garden or in pots. Pkt.....5c

**CYCLAMEN.** (Giganteum.) They make flowering bulbs in one season if sown early in sandy soil. Beautifully mottled leaves, immense flowers of great substance. Mixed colors. Pkt.....15c

**GERANIUM.** Favorite house plant. Seed started early will bloom the first year. Mixed colors. Pkt.....5c

**HELIOTROPE.** In shades of purple, fine for bouquets; the sweet vanilla odor is liked by all. Pkt.....5c

**ICE PLANT.** (Mesembryanthemum.) Suitable for rock work, hanging baskets, etc. Foliage thick, frosted, wax-like. Pkt.....5c

**IMPATIENS SULTANI.** Rosy carmine flowers one inch in diameter, produced freely throughout the season. Although a house plant, it does finely out of doors. Pkt.....10c

**KENILWORTH IVY.** (Linaria.) Beautiful trailing plant, with delicate white flowers, for hanging baskets. Pkt.....5c

**LANTANA.** Shrubby plant with Verbena-like flowers, in shades white, red and yellow. Pkt.....5c

**LOBELIA.** A dwarf plant, splendid for porch boxes, hanging baskets and vases. Deep blue flowers and dark foliage. Pkt.....5c

**PRIMULA.** (Chinese Primrose.) One of the finest plants for winter blooming in the house; do well in a cool room and in north window where most other plants fail; very profuse flowering. Pkt.....15c

**SENSITIVE PLANT.** (Mimosa.) A curious and pretty plant; the leaves close and droop at the slightest touch at night. Pkt.....5c

**VINCA.** (Periwinkle.) Splendid house and bedding plant, with glossy leaves and circular flower. White, pink, crimson. Mixed. Pkt.....5c

**SMILAX.** One of the most graceful climbers for the window. Sow seed in February and keep in moist place. Pkt.....5c





# SEEDS OF ANNUAL CLIMBERS

## SWEET PEAS

(Very Short Crop)

All Seeds on This Page Postpaid

Sweet Peas are among the most beautiful of all our hardy annuals. Select a sunny, open place, several feet from any building or close fence, and as far as possible from large trees. Sow as early in the spring as the ground can be worked. Make a trench six or eight inches deep, but cover the seed only about an inch at first. As they come up, rake the dirt around the little plants, so that by the time they have reached the top of the ground, the trench will be almost full. Furnish support early. Give them plenty of water, and keep the blossoms picked closely. If they produce seed pods, they will stop blooming.

### ROSE

**MRS. DUGDALE.** Light carmine rose with faint markings of primrose. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35

**BLANCHE FERRY.** Carmine rose, pinkish white wings. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

**PHYLLIS UNWIN.** Very large size. Rosy Carmine. Pkt., 5c; oz., 15c; ½ lb., 40c; lb., \$1.35.

### WHITE

**BLANCHE BURPEE.** Large pure white. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**DOROTHY ECKFORD.** Pure white flowers, beautifully shell-shaped; extra large, three on a stem. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**EMILY HENDERSON.** Very large beautiful white. Blooms early. Price same as Aurora.

**NORA UNWIN.** Nicely waved or fluted; usually has three flowers on a stem. One of the best white sweet peas yet introduced. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

**SHASTA.** Vines vigorous. Standard and wings both waved. Creamy white when first open, changing to ivory white. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**BURPEE'S WHITE SPENCER.** Extra long stems bearing three or four pure white blossoms. Standard fluted. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

### CREAM OR YELLOW

**HON. MRS. E. KENYON.** Cream or pale yellow. Large flowers. Price same as Aurora.

**SYBIL ECKFORD.** Wings delicate lemon; standard blush pink or creamy buff. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

### PINK

**BOLTON'S PINK.** The extra large expanded flowers are of a soft salmon-orange pink, very showy. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**APPLE BLOSSOM.** Heavily shaded and edged with deep pink, rose and white. Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

**COUNTESS SPENCER.** Enormous flowers, delicate pink shading deeper at the edges. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

**LOVELY.** A soft shell pink. Very good. Oz., 15c; ¼ lb., 50c; lb., \$1.60.

**GLADYS UNWIN.** A pale rose pink, with large bold flowers on long stems. Very early. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

**SPECIAL MIXED.** A well proportioned mixture of the above named varieties. Light or dark shades as preferred. Oz., 15c; ¼ lb., 35c; lb., \$1.20.

**DOUBLE MIXED.** Double flowers all colors mixed. Oz., 10c; ¼ lb., 35c; lb., \$1.00.

**CHOICE MIXED.** A good mixture of many old and new varieties. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c.

**PRIMA DONNA.** Exquisite rose pink; large and profuse. Pkt., 10c; oz., 15c; ¼ lb., 50c; lb., \$1.50.

### BRIGHT RED

**KING EDWARD VII.** Grand large flowers of a rich crimson scarlet. Pkt., 10c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.75.

**SALOPIAN.** Rich red scarlet; large and fine. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.35.

### ORANGE

**AURORA.** A beautiful orange rose. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**EVELYN BYATT.** Standard rich orange salmon, wings a somewhat deeper shade. Very striking. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**HELEN LEWIS SPENCER.** Orange-rose wings with crimson-orange standard. Pkt., 10c; oz., 25c; ¼ lbs., 75c; 1 lb., \$2.50.

**MISS WILMOTT.** One of the richest orange-pink sweet peas. Price same as Aurora.

### PINK AND WHITE

**EXTRA EARLY BLANCHE FERRY.** Standard rose-pink, wings creamy white. Very early. Pkt., 10c; oz., 20c; ¼ lb., 75c; lb., \$2.25.

### MAROON

**BLACK KNIGHT.** Deep maroon, veined black; large and open. Price same as Aurora.

**OTHELLO.** Chocolate-red, self-colored. Pkt., 10c; oz., 20c; ¼ lb., 75c; lb., \$2.25.

**SHAZADA.** Rich and dark; very attractive. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

### LAVENDER, PURPLE AND BLUE

**COUNTESS RADNOR.** A new lavender, very fine. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**LADY GRISEL HAMILTON.** A very light, dainty lavender. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.35.

**FRANK DOLBY.** Pale Blue, very large and fine. Pkt., 10c; oz., 15c; ¼ lb., 50c; lb., \$1.75.

**DUKE OF WESTMINSTER.** Very rich purple, tinted with violet. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**FLORA NORTON.** Delicate, clear light blue. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

**NAVY BLUE.** Dark indigo blue. Large and well formed. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

**HORACE WRIGHT.** Large purple flowers on long stems. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

## OTHER CLIMBERS



BALLOON VINE

with golden-yellow fruit which opens when ripe, showing the seed and blood-red inside. Mixed. Pkt.....5c

**CANARY BIRD FLOWER.** A rapid growing, delicate vine with clean, handsome foliage and an abundance of bright canary-yellow blossoms, somewhat resembling a bird with half extended wings. An excellent climber for shady places. Pkt.....5c

**CARDINAL CLIMBER.** We consider this the most beautiful, brilliant and distinct annual climber introduced in many years. It is a strong and rapid grower, attaining a height of 20 feet or more with beautiful deeply cut leaves not unlike some of the Japanese Maples, and is literally covered with a blaze of circular, fiery, cardinal red flowers from mid July to frost. The flowers are about half an inch in diameter and are borne in clusters of from 5 to 7 blossoms each. Should be planted in a warm, sunny situation on good soil. Pkt.....10c

**COBAEA.** A beautiful, rapid growing climber, with large purplish, bell-shaped flowers; plant the seed edgewise, and cover lightly. Pkt.....5c



COBAEA

**ARISTOLOCHIA.** (Dutchman's Pipe.) An ornamental climber with brownish flowers resembling a miniature pipe. A perfectly hardy perennial standing any climate where the oak lives. Pkt.....5c

**BALLOON VINE.** (Love in a Puff.) A rapid growing, graceful climber. Thrives in light soil. Height 5 feet. Pkt.....5c

**BALSAM APPLE AND PEAR.** Very rapid

and dense climbers,

**CYPRESS VINE.** A beautiful climber, with a profusion of scarlet or white star-shaped blossoms and finely cut foliage, adapted to ornamental work. Pkt.....5c

**DOLICHOS.** (Hyacinth Bean.) Splendid climber, producing abundant clusters of pea-like purple and white flowers, followed by ornamental seed pods. 10 to 20 feet. Pkt.....5c

**GOURDS.** These are desirable for many places where an immense amount of vine is wanted quickly. Most sorts grow 20 or 30 feet in a season.

**Dish Rag.** Many ladies prefer a dish cloth made of the sponge-like lining of this gourd to anything else, as it is always sweet and clean as long as any part of it is left. Pkt.....5c

**Sugar Trough.** This gourd grows large, holding from 3 to 5 gal. Very hard shell. Pkt.....5c

**Nest Egg.** Resembling the eggs of hens; are uninjured by cold or wet, therefore make the best nest eggs. Pkt.....5c

**Pear Shaped.** Striped yellow and green. Pkt.....5c

**Mixed Gourds.** All of the above. Pkt.....5c

**HUMULUS.** (Japanese Hop.) A rapid growing climber of easy culture, leaves variegated. Sows itself after the first year. Pkt.....5c

**MOON FLOWER.** (*Ipomea Noctiflora.*) One of the most vigorous climbers. Will grow 30 feet; its large white flowers open evenings and cloudy days. The hard outer coat of the seed should be cut through with a knife, and planted in warm, rich ground. Keep the soil moist. Pkt.....5c

**MORNING GLORY OR CONVOLVULVUS.** The well known kind. Mixed colors. Pkt.....5c

**Japanese Giant.** The mammoth flowers of this vine run from 4 to 6 inches across and are marked with most beautiful colors and shadings. The vines are strong and robust, growing from 30 to 50 feet high during the season. Pkt.....5c

**NASTURTIUMS.** Ideal ramblers that readily climb fences or wire netting. They are also very showy planted at the top of a steep slope, or simply trailing on the level ground. They endure hot, dry, weather very well and bloom continually till frost. Foliage clean and refreshing. These blooms are larger and the stems longer than the Dwarf Nasturtiums. Mixed. Per ounce, 10; pkt.....5c

**King Theodore.** Rich, deep, crimson; dark leaves. Pkt.....5c

**Edward Otto.** Brownish lilac. Pkt.....5c

**Jupiter.** Rich golden yellow. Pkt.....5c

**Mme. Gunther's Hybrids.** Striped or blotched with shades of red, yellow and orange. Pkt.....5c

**Pearl.** (Moonlight.) Whitish. Pkt.....5c

**Scarlet.** Bright glowing red. Pkt.....5c

**Vesuvius.** Brilliant salmon rose. Pkt.....5c

**PASSION FLOWER.** One of the best summer vines for general growing. The beautiful blue flowers somewhat resemble a water lily in shape. Pkt.....10c

**WILD CUCUMBER.** A very rapid climber, often growing 30 feet in one season. It is covered with clusters of white, sweet scented flowers, followed by ornamental prickly seed pods. It is fine to cover a trellis, old tree or unsightly building, and will sow itself after the first year. Ounce, 15c; pkt.....5c

**SPECIAL NO. 16.** For those who desires vines to cover long stretches of fence, etc., we have a mixture of 12 or more varieties of annual climbers 15c per half oz.; 25c per oz.



CYPRESS VINE

## PERENNIALS AND BIENNIALS

Start the seeds early indoors or in cold frames, so that the plants may be set out early in the spring in whatever situation may be desired. One cause of a good many failures of perennials from seed is that they are planted so deep or covered so heavily that they cannot come up. Small seeds should not be covered, just sown on finely sifted earth and pressed down with a board or other flat surface. Large seeds may be covered slightly, as a rule not to exceed twice the size of the seed in depth.

ALL PERENNIAL AND BIENNIAL SEED PRICES ARE POSTPAID



Aquilegia.

- feet high, succeeding in any ordinary garden soil. Mixed. Pkt.....5c
- ASTERS. (Perennial.) Single flowering. Grows well in any good soil. Mixed colors. Pkt.....5c
- ARTEMESIA. Decorative plant of greyish green color with aromatic fragrance. Pkt.....5c
- BELLIS. (Double English Daisy.) Very pretty for edgings. Blooms during the spring. Sow early in house, and transplant to a rich, partially shaded situation. White and pink, mixed. Pkt.....5c
- CALYCANTHEMA. (Cup and Saucer.) Resembles the Canterbury Bells, differing only in having an extra large calyx, making it look like cup and saucer. Pkt.....5c
- CAMPANULA. (Canterbury Bells.) Popular perennials producing bell-shaped flowers of many different colors. Mixed. Pkt.....5c
- CHRYSANTHEMUMS. Very popular for outdoor bedding purposes. They are quite hardy and with but a slight covering of leaves or coarse stable litter during the winter will take care of themselves after once planted, and produce an abundant profusion of bloom. Mixed. Pkt.....5c
- COREOPSIS. (Lanceolata.) Giant flowering golden-yellow daisy-like flowers borne in the greatest profusion; invaluable for cutting. Pkt.....5c

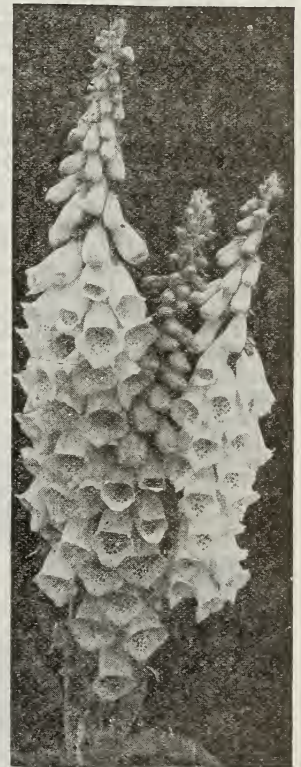


CARNATION

- ACHILLEA. (The Pearl.) The finest of all plants for cemetery use. The plants grow about 15 to 20 in. high and are completely covered with double pure white flowers from July until frost. One plant will produce hundreds and sometimes thousands of blossoms the first season. Pkt.....5c
- ABROMIA. (Sand Verbena.) Trailing plants and sweet scented, rosy-lilac flowers, borne in clusters. Suited for rockeries. Pkt.....5c
- ACONITUM. (Napellus.) Grows in any good garden soil, producing long spikes of curiously white shaped flowers. Fine for shady corners. Pkt.....5c
- ADLUMIA. (Mountain Fringe or Allegheny Vine.) A desirable plant worth growing for its delicate, graceful foliage resembling Maiden's Hair Fern. The second year it is a pretty climber with tiny pale pink flowers. Likes a shady location. Pkt.....5c

AGROSTEMMA. (Rose of Heaven.) An attractive, free-blooming, hardy perennial, of easy culture, producing bright colored flowers on long, slender stems. Blooms the first season. Fine for cutting. One to two feet. Pkt.....5c

AQUILEGIA. (Columbine.) The Columbine is an old favorite, late spring and early summer blooming plant, growing about 2



DIGITALIS

CARNATION. Popular favorites, which are deliciously fragrant; colors extremely rich and beautiful, if protected will live out over winter.

Extra Choice Mixed. Pkt. 5c

Margaret. Dwarf habit, blooms in a few months from seed. Mixed. Pkt.....5c

Red Grenadin. For yielding a quantity of double red flowers there is no outdoor carnation that can equal it. Pkt.....5c

White Grenadin. Of good form and substance. Like the above except color. Pkt.....5c

DIGITALIS. (Fox Glove.) An old-fashioned plant that furnishes a grand display of thimble-shaped immense spikes during July and August.

Gloxiniaeflora... Mixed. Pkt.....5c

DELPHINIUM. (Perennial Larkspur.) The best perennial known. The brilliant flower spikes are in every shade of blue. Blooms in June, continuing a long time if the flowers are cut before they fade.

Hybridum. Mixed. Pkt.....5c

**DIANTHUS.** (Perennial.) Blooms first summer.  
 Chinensis. (Double Chinese or Indian Pinks.) Compact plants with large clusters of double flowers. Pkt.....5c  
 Heddeewigi (Double Japan Pinks.) Much larger than the Chinese Pinks. Pkt.....5c  
 Heddeewigi Fireball. Brilliant sralet. Pkt.....5c  
 Heddeewigi Snowball. Pure white. Pkt.....5c  
 Heddeewigi Midnight. Blood red. Pkt.....5c  
 Heddeewigi Mixed. All colors. Pkt.....5c  
 Plumarius. Cove pink, sweet scented; flowers double fringed. Pkt.....5c

**DAISY, GIANT SHASTA.** A hardy perennial blooming for several months, and more abundantly each season. The flowers are extremely large and graceful, center is yellow, and the petals are pure white. The cut flowers will keep for a week. Pkt.....10c

**FEVERFEW.** (Pyrethrum.) These are among the most charming of our hardy plants. Of the easiest culture. Flowers are aster-like in form, of the most beautiful coloring. Blooming throughout the summer. Pkt.....5c

**FORGET-ME-NOT.** (Myosotis.) It flourishes best in a moist, shady situation. Bright blue. Pkt.....5c

**GAILLARDI.** (Grandiflora.) The perennial blanket flower. Perfectly hardy and requires little care. Pkt. 5c

**GYPSOPHILA.** (Paniculata.) (Baby's Breath.) Produces numerous panicles of small, white flowers; fine for bouquets. Pkt.....5c

**HIBISCUS.** (Crimson Eye.) Tall, free flowering, hardy plants with remarkable large and showy flowers. Thrives in most loamy soils, producing throughout a long period numerous mammoth flowers, sometimes 6 to 8 inches across. Plants grow 3 to 5 ft. Golden Bowl or Giant Yellow. Deep cream with a velvet maroon center. Pkt.....5c  
 Moscheutos. Flowers light rosy red with dark centers. Pkt.....5c

**PRIMULA JAPONICA.** These are not so well known as they deserve; they are of free, vigorous growth, with dark green foliage and send up in the spring innumerable stems of large flowers in many colors. A moist, rich, almost boggy soil is wanted for this fine plant. Mixed colors varying from rich crimson to white. Pkt.....10c

**HOLLYHOCK.** For planting in masses by itself or as a background for lower growing plants, the hollyhock cannot be dispensed with. The double variety which is coming into general use is much superior to the old-fashioned sorts. We offer double varieties only.

Charter's Superb. Double mixed. Pkt.....5c  
 Alleghany. Edges of petals finely fringed. They are large sized, fairly double, with soft, rich colorings. Seed. Pkt., 5c.

**LATHYRUS.** (Perennial Peas.) Free flowering plants, growing five to ten feet high if given support. Will not bear transplanting. White and lilac. Mixed. Pkt.....5c

**LYCHNIS.** (Burning Star.) Chalcedonica. Showy and free flowering hardy perennials of easy culture. Verbena-like heads of bright scarlet flowers. Pkt.....5c

**LUPINUS.** (Wild Lupine.) This will be found a great acquisition to any garden. It forms dense bushes about 4 feet high, completely clothed to the ground with elegant spikes of snowy-white and deep sea-blue flowers. Delicately fragrant. Mixed. Pkt.....5c

**POLEMONIUM.** (Jacob's Ladder.) The fine old Jacob's Ladder which takes its name from the regular arrangement of Pinnate leaflets upon the stem. Even without the large lobed, bell-shaped flowers of pale blue, the plant would be worth growing for its foliage. Pkt.....5c

**PENSTEMON.** Flowers bell-shaped, an inch and a half long, borne in racemes or spikes. The roots should have some protection in winter. Pkt.....5c

**PINKS.** See Carnation, Page 57; Dianthus, Page 58.

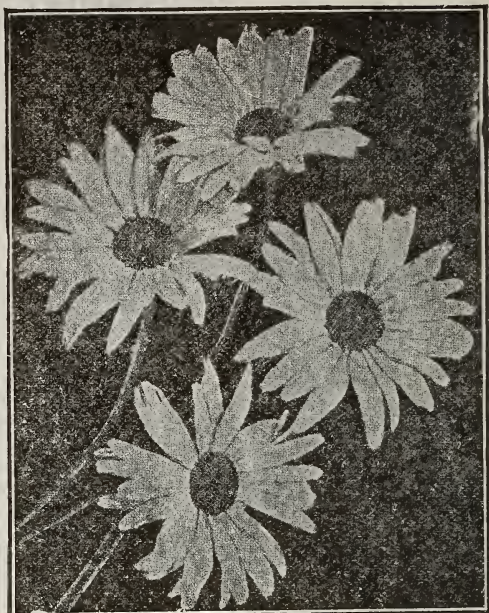
**PLATYCONDON.** Splendid variety, producing very showy flowers during the whole season. Form large clumps. Are excellent for planting for permanent borders. Pkt.....5c

**STOKESIA CYANEA.** (Cornflower Aster.) A hardy perennial, bearing handsome lavender blue cornflower-like blossoms. Pkt.....10c

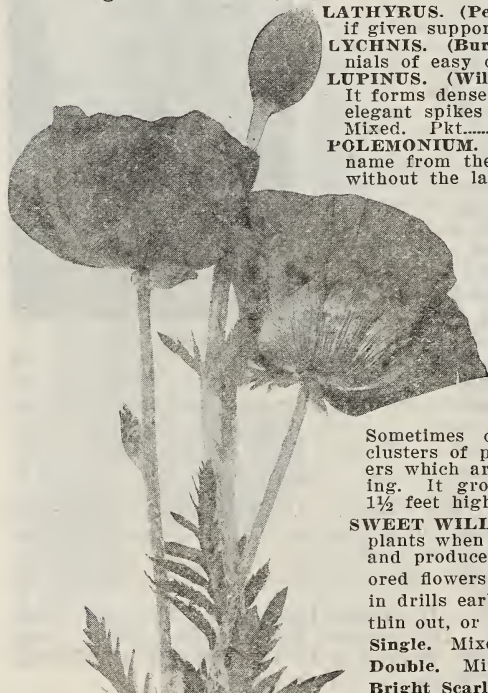
**SWEET ROCKET.** (Hesperis.) Sometimes called Dames Violet. Produces clusters of pink and white four-petaled flowers which are very fragrant during the evening. It grows readily in the open ground. 1½ feet high. Pkt.....5c

**SWEET WILLIAM.** (Dianthus Barbatus.) The plants when in flower are 18 inches in height and produce large clusters of brilliantly colored flowers on stout, stiff stems. Sow seed in drills early in spring. When well started, thin out, or transplant.

Single. Mixed. Pkt.....5c  
 Double. Mixed. Pkt.....5c  
 Bright Scarlet. Single. Pkt.....5c  
 Pure White. Single. Pkt.....5c



DAISY, GIANT SHASTA



ORIENTAL POPPY



SWEET WILLIAM



## HARDY PERENNIAL PLANTS

To secure the best and quickest results with Perennials it is necessary to put out started plants, as in this way a year and sometimes two is gained. Another advantage in using started plants is that some varieties of Perennials are very hard to start from seed, so that in setting out the plants one is sure of having a permanent Perennial bed from the start.

Several years ago we started growing Perennial Plants and as they became more popular and the demand increased we cataloged them until now the list has become so long we have given them a separate department in our catalog.

### IRIS

These flowers have been overlooked. They are perfectly hardy and exceedingly beautiful. As they multiply with great rapidity, one does not have to expend a great sum in order to get a fine bed of them started. Put the Iris in a sunny place where, if possible, they will have some building or a hedge to protect them from the wind. The ground should be rich, and well supplied with water. Spade the earth deep and plant the roots 18 inches apart, covering them 2 inches. Keep them well cultivated and you will be well repaid for your trouble.

**SIBERIAN BLUE.** Probably the finest blue flower on earth. A real deep blue, not at all a purplish shade. The stems are long and as the flowers last a long time in water, they are excellent for cutting. 15c each, 6 for 50c; postpaid.

**GERMAN IRIS.** (See heading.) The Iris so commonly seen. Often called Flags. Blooms in great profusion during June and July.

**FLORENTINA ALBA.** Porcelain, changing to pure white.

**CREAM.** A fine cream color.

**FLORENTINA BLUE.** Very pale blue.

**KHEDIVE.** Clouded lavender veined at the base. Inner petals light lavender, flecked with white.

**MADAM CHEREAU.** White, elegantly frilled with border of pale blue.

**QUEEN OF MAY.** A lovely shade of rosy pink, tinted with violet.

**SANS SOUCI.** Standards golden yellow, falls rich mahogany brown; very effective.

### HARDY PHLOXES

These we consider the most desirable of all hardy Perennials, flowering abundantly from July until late in the autumn. The immense flower heads often measure 7 inches across with flowers as large as a half dollar, and comprise all shades—vermillion to white. They delight in sunny location and rich soil, but are by no means particular. Height, 1 to 2 feet.

**ALCESTE.** Deep violet, shading almost to blue.

**ATHIS.** Deep, clear salmon. Some claim this to be the showiest variety in cultivation.

**COQUELICOT.** The finest and brightest red of all the Phlox, the color is a bright orange-scarlet.

**ESCLAIREUR.** Clear, rosy-red, with lighter large center; large florets and a magnificent bedder.

**HENRY MURGER.** Enormous pure white flowers, with very large, showy, deep, carmine eye or center; fine florets and trusses.

**KOSSUTH.** Rich deep purple, extra fine.

**LA PERLE DU NORD.** Pure white; large, deep, distinct red eye; extra fine.

**LOTHAIR.** Clear, even carmine, deep crimson eye.

**MACULATA.** Tall branching, producing good sized heads of purplish rose flowers.

**MISS LINGARD.** Pearly white flower, with a very faint pink eye; very remarkable bloomer, producing two or three crops of flowers during the season. Indispensable as a cut flower for florists' use.

**NIOBE.** The deepest, darkest, richest red with crimson hues.

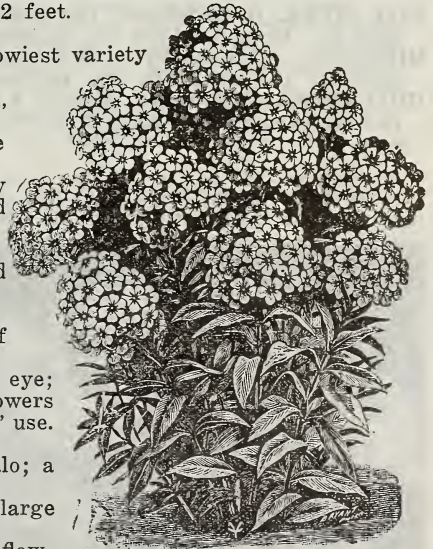
**PANTHEON.** Large, deep, clear, bright pink with faint halo; a charming variety.

**PEACHBLOW.** Delicate peachblow pink, shading to white, large trusses; elegant.

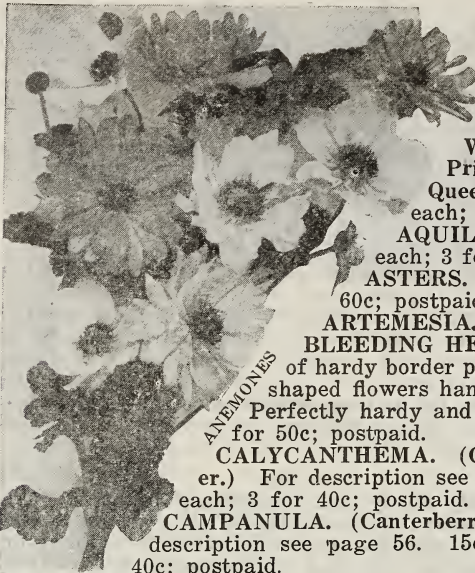
**RICHARD WALLACE.** Pure white, with violet-rose eye; large flowers in immense panicles. Too much cannot be said of this variety.

**R. P. STRUTHERS.** In our estimation the very best Phlox grown today—it has no faults. Color clear cherry-red, suffused with salmon shades; deep red eye; fine, large truss. The color is so clear and clean that each individual floret stands out as distinct as a cameo.

**PRICE:** Seed of Phlox. Mixed only, per pkt., 5c. All Plants. Each 15c; 6 for 80c; 12 for \$1.50; postpaid.



PHLOX



**ACHILLEA.** (The Pearl.) For description see page 56. 12c each; 6 for 60c; postpaid.

**ACONITUM.** (Napellus.) For description see page 56. 15c each; 6 for 80c; postpaid.

**ANEMONES.** (Wind Flower.) They resemble in shape huge Marguerite Daisies.

Whirlwind. Double, snow-white, waxy texture.

Prince Henry. Dark red.

Queen Charlotte. Delicate lavender. All Anemone plants 15c each; 6 for 80c; postpaid.

**AQUILEGIA.** (Columbine.) For description see page 56. 12c each; 3 for 30c; postpaid.

**ASTERS.** (Perennial.) For description see page 56. 12c each; 6 for 60c; postpaid.

**ARTEMESIA.** For description see page 56. 15c each; 3 for 40c; p'tpaid.

**BLEEDING HEART.** (*Dielytra Spectabilis.*) One of the most beautiful of hardy border plants. Flowers in the early spring with rose colored, heart-shaped flowers hanging from the under side of branches their entire length. Perfectly hardy and easily cultivated; grows about 2 feet high. 20c each; 3

for 50c; postpaid.

**CALYCANTHEMA.** (Cup and Saucer.) For description see page 56. 15c each; 3 for 40c; postpaid.

**CAMPANULA.** (Canteberry Bells.) For description see page 56. 15c each; 3 for 40c; postpaid.

**CARNATIONS.** For description see page 56. 12c each; 3 for 30c; 6 for 60c; postpaid.

**CHRYSANTHEMUMS.** (Hardy.)

Climax. Deep rosy pink. Goldfinch. Magnificent; gold, shaded crimson. Goldfleece. Large, bright lemon yellow. Kadar. Clear, bright red. Prince of Wales. Magnificent; pure white. Price 12c each, 6 for 60c; postpaid.

**COREOPSIS.** (*Lanceolata.*) For description see page 56. 12c each; 3 for 30c; 6 for 60c; p'tpaid.

**DAISY.** (*Giant Shasta.*) For description see page 57. 12c each; 3 for 30c; postpaid.

**DELPHINIUM.** (Perennial Larkspur.) For description see page 56. 15c each; 3 for 40c; postpaid.

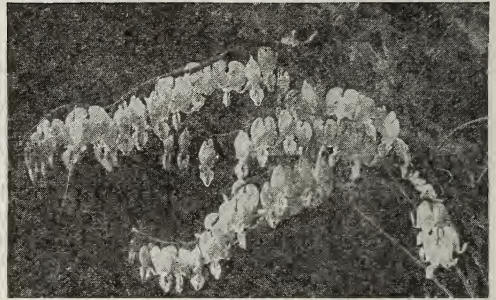
**DIANTHUS.** (Mixed.) For description see page 57. 12c each; 3 for 30c; 6 for 50c; postpaid.

**DIGITALIS.** (Fox Glove.) For description see page 56. 15c each; 3 for 40c; postpaid.

**GILLARDIA.** (*Grandiflora.*) For description see page 56. 12c each; 3 for 30c; postpaid.

**HIBISCUS.** (*Crimson Eye.*) For description see page 57. 12c each; 3 for 30c; postpaid.

**HOLLYHOCK.** (Double.) Mixed. For description see page 57. 15c each; 3 for 40c; postpaid.



BLEEDING HEART

**LYCHNIS.** *Chalcedonica.* (*Burning Star.*) For description see page 57. 12c each; 3 for 30c; postpaid.

**PLATYCODON.** For description see page 57. 12c each; 3 for 30c; postpaid.

**POPPY.** (*Oriental.*) See description page 57. 12c each; 3 for 30c; postpaid.

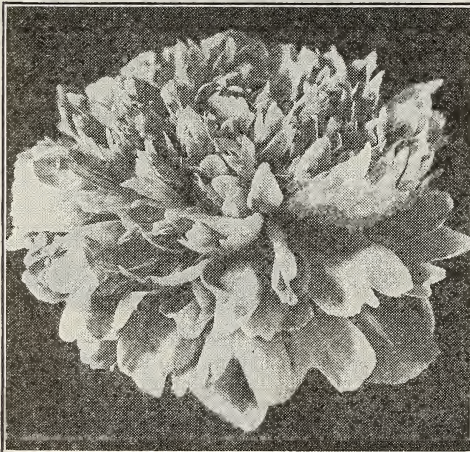
**PRIMULA JAPONICA.** For description see page 57. 15c each; 3 for 40c; postpaid.

**STOKESIA CYANEA.** (*Corn Flower Aster.*) For description see page 57. 15c each; 3 for 40; postpaid.

**SWEET WILLIAM.** (*Dianthus Barbatus.*) Double. Mixed. For description see page 57. 12c each; 3 for 30c; postpaid.

## PEONIES

Perfectly hardy, large, bush-like plants with great flowers rivaling the rose in color and perfection of bloom; pleasantly fragrant. In bloom for Decoration Day.



**ANDRE LAURIES.** Light red, prolific and beautiful. 30c. each; postpaid.

**FESTIVA MAXIMA.** This is not only the finest white in existence, but may be regarded as the queen of all the peonies. A grand cut flower variety, coming in bloom usually for Decoration Day. 50c each; postpaid.

**GOLDEN HARVEST.** A most striking variety, producing large, tri-colored bloom. The guard petals are blush-pink with creamy white center. It combines cream, gold, white, pink, salmon, peach and apricot. The total color effect of the flower being creamy-pink; strong, delicate fragrance. 50c each; postpaid.

**GRANDIFLORA ALBA.** Early standard sort. Opens straw color fading to pure white. Tuft in center sometimes marked with carmine. Often sold for Festiva Maxima. 30c each; postpaid.

**MARECHAL VALLIANT.** This is the old Grandiflora Rubra. A large, light red colored flower. 35c each; postpaid.

**MONSIEUR DUPONT.** Semi-rose type, mid-season. Very large, well built, cup-shaped bloom, ivory-white; center petals bordered with a tracing of lively carmine and lit up with golden stamens at base of petals. A truly royal flower. 75c each; postpaid.

**GRANDIFLORA ROSEA.** Very fine, fragrant rose pink. Of the hardest and independent to late frosts. 30c each; postpaid.

**HUMEL.** Immense late cinnamon scented flower of varnished pink. 30c each; postpaid.

**LA SUBLIME.** A very striking flower of a deep, rich crimson color. A sure bloomer. 40c each; postpaid.

**L'ESPERENCE.** Very early; a great favorite; rosy pink; free flowering. 30c. each; postpaid.



## SUMMER FLOWERING BULBS

Plant in deep, rich soil, when the ground becomes warm. For earliest flowering the tender bulbs may be started in the house. For succession of bloom, plant up to June 1st. After fall frost, lift the bulbs, let them dry, and then removing the tops, store in a cool, dry place, away from frost, planting in the spring.

### CANNA

The most popular decorative plant of the day. The earth should be spaded deeply and well enriched. After planting water sparingly until the plants have taken root and show good leaf growth. When in full foliage they may be watered very freely.

We are making a specialty of Cannas and you will find our plants extra fine and the blooms of very beautiful colorings.

- ALLEMANIA.** Scarlet orange bordered with yellow; 6 feet.
- ALPHONSE BOUVIER.** Richest red; showy variety. 5 feet.
- BEAUTE POINTEVINE.** A rich glowing crimson. 2½ feet.
- BURBANK.** Immense flowers of a rich yellow. 3½ feet.
- EGENDALE.** Bronze foliage, flowers deep red. 4½ feet.
- ELIZABETH HOSS.** Large yellow spotted with red. 5 feet.
- FLORENCE VAUGHAN.** Pure yellow dotted with red. 5 feet.
- FREDERIC BENARY.** Currant with orange throat and yellow edge. 5 feet.
- KING HUMBERT.** Giant flowered; orange scarlet; bronze leaf. 4 feet.
- MADAME CROZY.** Crimson scarlet with yellow border. 3½ feet.
- MME. BERAT.** Large flower of a so rosy carmine, nearly pink. 6 feet.
- QUEEN CHARLOTTE.** Rich crimson with band of yellow. 4 feet.
- SOUV. D'ANTOINE CROZY.** Intense scarlet, rich and dazzling. Rich golden yellow edge. The most brilliant canna in existence. 2½ feet.



CANNA

### PRICES OF ALL CANNAS

Dormant Roots, 8c each; 75c per dozen; postpaid. By express, 65c per dozen; \$5.00 per 100.  
 Started Plants ready May 10th, 10c each; \$1.00 per dozen; postpaid. By express, 85c per dozen; \$6.50 per 100.

### DAHLIAS

Large symmetrical double flowers, having broad petals, in-curving at the center. Bloom from August to Freezing weather. C. W. BRITTON. Very large, clear canary yellow.

**HENRY PATRICK.** Large, snow white, beautifully formed flowers on long stems.

**JACK ROSE.** In color it resembles the Jacqueminot rose. Profuse bloomer and splendid for cutting purposes.

**K. A. VICTORIA.** Large, snow white. Early and profuse bloomer.

**MAID OF KENT.** A very Striking variety. Rich cherry red, tipped white.

**MRS. HARTONG.** Color light fawn suffused with pink.

**MRS. ROOSEVELT.** Very large, soft pink.

**NYMPHAEA.** One of the most delicately beautiful. White, shaded shrimp pink.

**SYLVIA.** A beautiful deep pink shading lighter to the center.  
**A. D. LIVONI.** Rich pink, finely formed; a very handsome flower.

**ARABELLA.** Very large and beautiful. Color soft primrose shaded with rose.

**JOHN WALKER.** Splendid snow white show dahlia. Perfectly formed and free bloomer.

**WHITE SWAN.** Large, pure white. One of the best.

**QUEEN VICTORIA.** Large, rich golden yellow.

**RED HUSSAR.** Richest cardinal red, with long stems. Splendid for cutting.

**VARNUM'S VARIGATED.** Bright red, tipped with white.

**QUEEN KRIEMHILDE.** A deep, rosy pink with lighter center. A distinct and valuable variety, as the flowers keep a long time after cutting.

**GOV. WARFIELD.** Pure white.

**HOBBIES YELLOW.** Rich canary yellow.

### PRICES ALL DAHLIAS

Any of the above named Dahlias 20c each; \$2.00 per dozen; postpaid, 15c each, \$1.65 dozen by express.

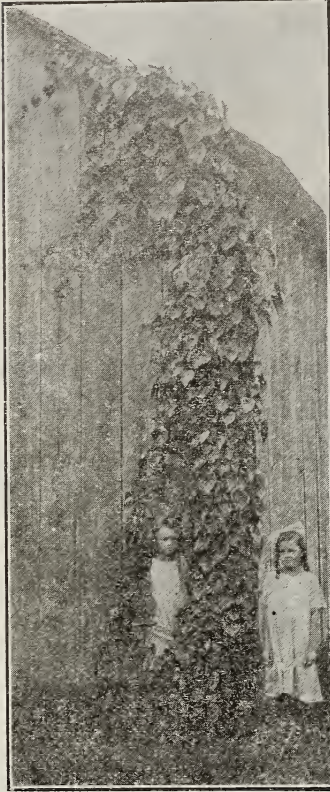
Mixed Dahlias. Including some of the above varieties, 15c each; \$1.50 per dozen.

Dahlia Seed. Single, 5c pkt.; double, 5c pkt.; postpaid.



DAHLIA

SUMMER FLOWERING BULBS—(Continued)



AIR POTATOES

**AIR POTATOES.** A brand new climbing vine of recent introduction. It has large, heart-shaped leaves, they are so glossy that they look as if varnished, and grow at a rapid rate. They produce a quantity of round tubers all up the vine from the size of birds eggs to a goose egg. It belongs to the same family as the old cinnamon vine, but is much more handsome and greatly superior to it in every way. The tubers can be stored over the winter like potatoes, and planted in the spring. 15c each, 3 for 40c; postpaid.

**CALADIUM ESCULENTUM.** (Elephant's Ear.) Fine tropical plant bearing immense leaves. Start as directed for cannas, when growing you cannot make the soil too rich or keep it too wet. 15c each; 2 for 25c; postpaid.

**CINNAMON VINE.** A vine of very rapid growth, quickly covering trellis with a handsome, clean, glossy, green foliage. Plant the bulbs about 1 inch deep in rich soil. With the approach of winter cover with straw and leaves to prevent freezing. 3 bulbs for 15c; 6 for 25c; postpaid.

**CRINUM AMERICANUM.** A native of the swamps of Alabama and Florida, but it grows in any good garden soil and is of easy culture. Handle like an Amorillis, and the beautiful clusters of large, pure white, delicately sweet scented flowers will repay for the care. 20c each; 3 for 50c; postpaid.

**KUDZU VINE.** (Jack-and-the-Bean-Stalk.) A most remarkable hardy climber. Starts slow, but in a few weeks grows almost beyond belief. Foliage dark green. Fine for porches and arbors. Roots, small, 13c each; 3 for 40c; postpaid. Large roots, 25c each, by express.

**MADERIA VINE.** A rapid climber, twining to great heights. Thick, glossy leaves and feathery, very fragrant flowers. It grows anywhere, but does better in a warm, sunny location. It is also very pretty for training in the house. Strong tubers, 5c each; 3 for 10c; 30c per dozen; postpaid.

**MATRIMONY VINE.** Well known, hardy, fast growing vine; handsome when covered with scarlet fruit in Autumn. Plants, 35c each; postpaid.

**OXALIS.** Summer-blooming. A very pretty plant for edging bower beds. Bears an abundance of pink and white flowers and delicate foliage. 15c per dozen; postpaid.

**TUBEROSE.** A beautiful, white, wax-like, very sweet-scented, double flower, growing on tall stems. 5c each; 40c per dozen; postpaid.

**HEDYCHUM.** (Butterfly Lily.) Grows best on low, damp ground. Are much like Cannas, but the leaves are narrower and the flowers are produced from a close head. Blooms about 4 o'clock in the afternoon. The pure white flowers look much like Butterflies and are very fragrant. If kept in the house in a growing state it blooms continually. 15c each; 3 for 40c; postpaid.



**XANTHOSOMA. (Bataviensis.)** The Xanthosomas are similar to Caladiums, having great, arrow-shaped leaves. This variety has very dark purple stems and dark green leaves and is one of the best ornamentals we know of. Fine for either garden or house culture where one has room enough for a magnificent plant. 20c each; 3 for 50c; postpaid.

~~~~~  
Pierce County, Washington, Oct. 3, 1913.  
I want to tell you that I won the first prize on the Dahlias, A. D. Livoni, I got of you in the spring.  
I will send for more next spring.  
MRS. W. H. LENHART.  
~~~~~



XANTHOSOMA

**FALL BULBS**  
In September of each year, we import from Holland, a large shipment of Fall Bulbs. These should be planted any time from the middle of September until the ground freezes. This list includes Tulips, Hyacinths, Narcissus, Crocus, Jonquils, Scillas, Chionodoxas, for outdoor planting. Roman Hyacinths, Freesias, Chinese Sacred Lillies, Easter Lillies, Callas and Oxalis, for planting in the house.  
We issue our Fall catalog about the middle of August. If you do not receive a copy by the first of September, let us know.



TUBEROSE

**HARDY LILIES**

Lilies thrive best in a dry, rich soil, where water will not stand in the winter. After planting they require very little care, and should not be disturbed for years, as established plants bloom more freely than if taken up annually. In this list we offer only such varieties as are hardy enough to stand the winter out of doors. It is well, however, to protect them with a covering of litter or straw.

**LILY OF THE VALLEY.** Bearing slender stems set with tiny white bells, delightfully fragrant do well in shady situations. Flower each season without any attention. 6c each; 3 for 15c; 40c per dozen, postpaid.

**AURATUM. (Gold-banded.)** Immense white flowers, thickly spotted with crimson, each petal having a distinct yellow stripe; very fragrant. Blooms in July. 15c each; 3 for 40c; postpaid.

**ELEGANS.** Perfectly hardy and will succeed in almost any situation. Flowers large and showy; bright red, flushed orange. 1½ feet. Blooms in June and July. 12c each; \$1.25 per dozen; postpaid.



**FUNKIA ALBA. (White Day Lily.)** A handsome showy plant with beautiful broad ovate leaves. The large, lily-like, pure white fragrant flowers are borne in large trusses during August. 20c each; 3 for 50c; postpaid.

**HEMEROCALLIS FLAVA (Lemon Lily.)** Flower large, pure yellow; quite fragrant. Grows 2½ to 3 feet high. Blooms in July and August. 15c each; 3 for 40c; postpaid.

**SPECIOSUM RUBRUM.** White, beautifully spotted with red; petals reflexed like the Tiger Lily. Very fragrant; flowers in August. This is one of the most wonderful lilies, perfectly hardy and flowering well under all circumstances. 20c each; 3 for 50c; postpaid.

**SPECIOSUM ALBUM.** Same as above, but pure white. 20c each; 3 for 50c; postpaid.

**SUPERBUM.** Flowers bright orange red, thickly spotted with purple. Remarkable for immense height (often 8 feet) and profusion of bloom; a strong plant, bearing from 20 to 30 flowers. Blooms in July. 12c each; \$1.25 per dozen; postpaid.

**TIGRINUM SPLENDENS.** The well-known "Tiger Lily" grows from 7 to 9 feet high and bears an immense number of bright orange flowers spotted with black. Blooms in August. Single or double, 10c each; \$1.00 per dozen; postpaid.



LILY OF THE VALLEY

**WALLACEI.** Flower rich, clear buff, spotted black, late bloomer. 10c each; \$1.00 per dozen; postpaid.

**UMBELLATUM.** A splendid hardy Lily, and should be found in every garden. Colors range from deepest red to yellow. Blooms in June. 15c each; \$1.50 per dozen; postpaid.

**GLADIOLI**



Gladiolus.

This is one of the best of the summer-flowering bulbs. It is a flower anyone can grow and is lovely enough to satisfy the most exacting. The flowering season may be continued by planting from middle of April to the first of June. There is no limit to the range of color. Nothing is finer for vases; the flowers will last for days and the buds open after being cut. Set the bulbs 6 inches apart, and 2 to 4 inches deep. For fall treatment, see under "Summer Flowering Bulbs," page 61.

**AUGUSTA.** Lovely, pure white, blue anthers. 5c each; 40c doz.; postpaid.

**AMERICA.** The finest pink Gladiolus yet introduced; especially valuable to florists, spikes 2 to 3 ft. long; flowers are large, open and spreading. Color delicate lavender pink. 5c each; 50c doz.; postpaid.

**MAY.** White, flanked crimson, superb spike, earliest Gladiolus known. 5c each; 50c doz.; postpaid.

**MADAME MONERET.** A beautiful pink. 4c each; 40c doz.; postpaid.

**MRS. FRANCES KING.** Bright "Flamingo" pink, strikingly attractive. Flowers 4 to 5 inches across, are borne on stalks 5 ft. high. 5c each; 50 doz.; postpaid.

**JESSIE.** Rich, velvety red, fine spikes, early bloomer. 5c each; 50c doz.; postpaid.

**YELLOW SHADES.** 5c each; 50c doz.; postpaid.

**GOFF'S HYBRIDS.** The size and beautiful shadings of this strain give the greatest possible range of varieties. 5c. each, 6 for 25c; 40c doz.; postpaid.

**CHIDLSI, FINE MIXED.** All colors and varieties. Every one a beauty. 5c each; 40c dozen; postpaid.

**GOOD MIXED.** Especially recommended to make a good brilliant show in the garden for a small outlay. All bloomers. 3c each, 4 for 10c; 25c doz.; postpaid. 50 for 75c. 100 for \$1.00, by express at buyer's expense.

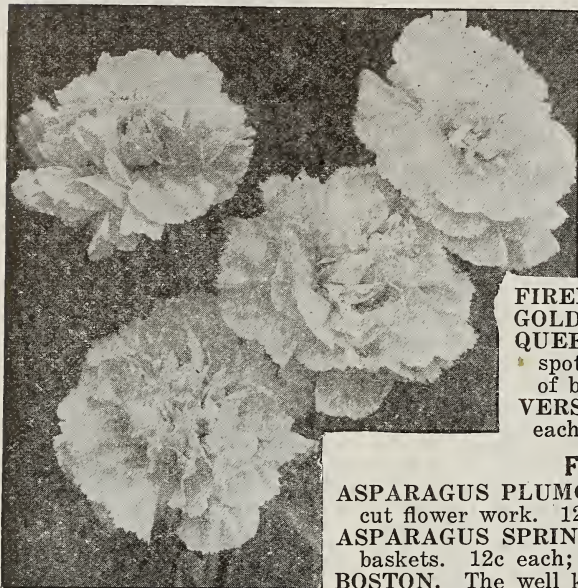


LILIIUM SPECIOSUM RUBRUM

## BEDDING AND HOUSE PLANTS

Can be Supplied up to About June 1st

The size of plants furnished by us are, in all instances, as large as can be advantageously forwarded by mail, and are strong, thrifty, well established stock.



ENCHANTRESS CARNATION

HARDY FERNS. Live outdoors all winter. 20c each; \$2.00 per dozen; postpaid.

### CARNATION

**HARLOWARDEN.** Large, free blooming, crimson. 12c each; postpaid.

**WINSOR.** Clear, silvery pink. One of the best. 15c each; postpaid.

**The Premier Quartette of Carnations.** All four for 50c; or 15c each; postpaid.

**BEACON.** Best red.

**ENCHANTRESS.** Large, shell pink.

**JAS. WHITCOMB RILEY.** Best yellow.

**WHITE ENCHANTRESS.** Best white.

### COLEUS

**FIREBRAND.** Maroon shaded with red.

**GOLD BEDDER.** Rich golden yellow.

**QUEEN OF THE WEST.** Large leaf covered with spots of bright carmine and deep maroon and margin of bright yellow.

**VERSCHAFFELTII.** Rich red; fine bedder. All 12c each; 4 for 40c; postpaid.

### FERNS

**ASPARAGUS PLUMOSUS.** The fine-leaved variety used so much in cut flower work. 12c each; 3 for 30c; postpaid.

**ASPARAGUS SPRINGERI.** Drooping variety, very nice for hanging baskets. 12c each; 3 for 30c; postpaid.

**BOSTON.** The well known variety so often seen. 12c each; 3 for 30c; postpaid.

### MISCELLANEOUS BEDDING PLANTS

**ASTERS.** One of the most popular of all the garden flowers for late summer and fall display. Mixed colors.. 50c dozen; postpaid

**HELIOTROPE.** A universal favorite on account of its delightful fragrance and duration of bloom. 12c each; postpaid.

**PANSIES.** (Griswold's Mammoth Special.) Flowers are very large. The colors are rich red, chocolate and purple shades, mottled and spotted. 50c per dozen; postpaid.

**PETUNIAS.** Petunias are very popular for their rich coloring, continuation of bloom, pleasing fragrance and easy culture. Mixed colors. 50c per dozen.

**SALVIA.** Among the most brilliantly colored of garden flowers and extremely useful for their bedding. Blooms fiery-red and continues until severe frosts. 50c per dozen; postpaid.

**VERBENAS.** For beds or massing the verbena is unrivalled, flowers the most brilliant colors. Mixed. 50c per dozen; postpaid.

**ZINNIA.** Flowers all summer, making the most brilliant display possible, excellent for border or summer hedge.- Mixed colors. 50c per dozen; postpaid.



### GERANIUMS

**BEAUTE POINTEVINE.** Bright, double salmon pink.

**BERTHA DE PRESILY.** Beautiful silvery-rose.

**CONTRAST.** Double, dark red, free bloomer, dwarf.

**GENERAL GRANT.** Double scarlet, vigorous grower, free bloomer.

**JEAN VIAUD.** Bright, rosy-pink, white blotch in center.

**LA FAVORITE.** Double, pure white, best white.

**MRS. E. G. HILL.** Single, large salmon-pink.

**S. A. NUTT.** Double, dark crimson, free bloomer.

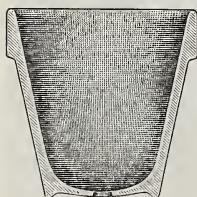
**SUPERB.** A beautiful, immense, double scarlet. Strong grower and free bloomer.

### BORDER GERANIUMS

**Mlle. SALIEROI.** A dwarf, compact, growing geranium, with small white and green leaves. Price of all geraniums 12c each; \$1.20 per dozen; postpaid.

### STANDARD FLOWER POTS AND SAUCERS

We pack these carefully, but will not be responsible for breakage in transit by express.



#### POTS

	Each	Doz.	100
2 inch.....	\$0.02	\$0.12	\$0.80
3 inch.....	.03	.20	1.25
4 inch.....	.04	.35	1.85
5 inch.....	.05	.50	3.65
6 inch.....	.06	.65	4.50
7 inch.....	.10	1.10	
8 inch.....	.15	1.50	

#### SAUCERS

	Each	Doz.	100		Each	Doz.	100
4 in.	\$0.03	\$0.25	\$1.50	7 in.	\$0.06	\$0.60	\$4.00
5 in.	.04	.35	2.00	8 in.	.08	.90	6.00
6 in.	.05	.45	4.00				

### ROSE GERANIUMS

**ROSE MONSTROSA.** The well-known scented rose-geranium.

**SKELETON.** Finely serrated leaf, scented.

## ORNAMENTAL SHRUBS

We pay All Express Charges on Orders Amounting to \$5.00 or More

There is nothing which so quickly, and for so little cost, adds so much to the beauty and cheerfulness and home-like appearance of a place as an assortment of hardy shrubs. They are permanent improvements which increases in size, value and beauty, year after year. Our price is for strong, healthy, field grown plants 3 years old and 4 to 5 feet high.

**AZALLEA MOLLIS.** A showy low growing hardy plant. Used extensively in parks and public grounds. Blooms in the spring, having brilliant yellow, orange and carmine flowers not approached by any other shrub. Thrives best in a moderately well drained soil having the full sun or partial shade. Should be protected with a layer of straw during severe weather. 50c each, by express.

**BARBERRY.** (*B. Thunbergii*.) From Japan; of dwarf habit, small foliage, changing to a beautiful coppery red in the fall; is very ornamental when used as a hedge. 90c per 10; \$8.00 per 100, by express.

**Purple Leaved.** (*B. Vulgaris*.) Grows three to five feet high; foliage and fruit violet purple; very effective in groups or masses; yellow blossoms. 90c per 10; \$8.00 per 100 by express.

**PRIVET.** (*Amoor River*.) Much hardier than any other. Stood last winter without killing. The foliage is glossy green, holding its color almost the entire year. Will stand any kind of shearing. Price, 18 to 24 inches, well branched, \$1.00 per 10; \$8.00 per 100, by express.

**Ibota.** A valuable Hardy Privet of the West and Northern states. It is almost evergreen and grows rapidly in all soils. Compact and regular in form and bears shearing to any extent. Flowers white and fragrant. Leaves long and shiny. A charming shrub for hedges or specimens on the lawn. 18 to 24 inches, well branched, \$1.00 per 10; \$8.00 per 100, by express.

**FORSYTHIA.** (*Golden Bell*.) Few, if any, of the hardy shrubs can surpass the splendor and brilliancy of the Forsythia. Their grace and beauty give them a prominent place in all shrub plantations. Of upright, vigorous growth; foliage rich, dark green and lustrous. Flowers brilliant golden yellow, borne in great profusion early in April, before the leaves appear. 40c each, by express.

**FLOWERING CURRANT.** An attractive shrub with fragrant, golden-yellow flowers and deep scarlet fruit. 40c each, by express.

**CALYCANTHUS.** (*Sweet-scented Shrub, or Strawberry Shrub; also called Chocolate Shrub and Carolina Allspice*.) Flowers very double and of a brownish-purple in color. Very fragrant and blooms nearly all summer. Very hardy and one of the most desirable shrubs. 40c each, by express.

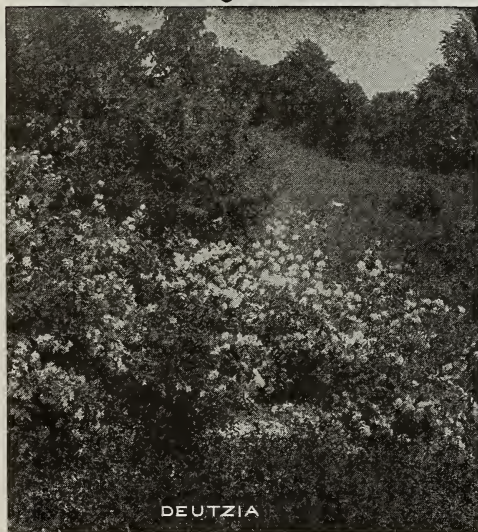
**CLETHREA.** (*Pepper Bush or White Alder*.) A desirable native shrub of dense growth producing abundant slender spikes of very fragrant white flowers in mid summer. One of the best plants for shrub borders, as it blooms abundantly at a time when little else is in bloom. Grows 4 to 5 feet high and blooms in August. 50c each, by express.

**DEUTZIA, PRIDE OF ROCHESTER.** (*The Large Flowered Deutzia*.) A vigorous grower, profuse bloomer, and one of the earliest to come into bloom. Flowers large double white, slightly tinged with rose. The plant grows 3 to 4 feet tall. Desirable for groups and as a specimen plant on the lawn. 50c each, by express.

**FLOWERING ALMONDS.** (*Prunus*.) The Flowering Almonds are pretty dwarf bushes that bloom quite early and are very showy in spring. Their slender, leafless, upright branches are entirely hidden by stemless, very double flowers resembling small roses. Grows to a height of 4 to 5 feet and blooms in May. One of the best flowering shrubs and can be highly recommended for the Western states. Pink or White, 50c each, by express.



BARBERRY



DEUTZIA



BRIDAL-WREATH.

**SPIREA, Van Houttei (Bridal Wreath).** The grandest of all spireas. Very beautiful for the lawn. When in bloom it is a perfect fountain of white blossoms, the foliage hardly showing. Perfectly hardy and vigorous grower. A very good plant for a fancy hedge. Grows 4 to 5 feet high and blooms in early June. 40c each, by express.

**Anthony Waterer.** This beautiful variety produces flowers of a bright crimson and blooms so freely that it may be kept flowering throughout the summer till late fall by trimming away the dead blooms. The foliage also is very handsome, being variegated with creamy white or yellow. 40c each by express.

**Thunbergii. (Snow White.)** A Japanese variety of medium size, with narrow, delicate leaves and a profusion of small white flowers in early summer. One of the best. Leaves narrow, bright green, turning in autumn to brilliant shades of orange and scarlet. 3 to 4 feet high. Price, 2-3 ft., each 40c; postpaid.

**SNOWBALL.** The old-fashioned, common snowball; grows 6 to 8 feet high; its large globular clusters of pure white flowers are produced in May and June and make a very attractive appearance. 40c each, by express.

**SCARLET JAPAN QUINCE.** One of the best flowering shrubs; flowers a bright scarlet crimson, borne in great profusion in early spring; foliage retains its color of bright glossy green the entire summer; hardy; makes a good hedge. 40c each; hedge size \$1.50 per 10; \$12.00 per 100, by express.

**HYDRANGEA, Paniculata Grandiflora.** The large flowering Hydrangea. Without question the most popular of the Hydrangeas, as well as one of the showiest of all shrubs. The flowers are borne in immense pointed clusters, nearly a foot in length, creamy white when fully expanded, and continuing in bloom for a long time. Later the huge flower-heads change to tones of rose and bronze where exposed to the sun. The bush grows 4 to 6 feet tall. Unsurpassed for the lawn, for hedges, parks or cemetery planting. 50c each, by express.

**American Everblooming.** This new Hydrangea is the most beautiful hardy shrub introduced in the last twenty years. It attains a height of 5 or 6 feet with nearly the same breadth, with large trusses of beautifully formed flowers of dazzling whiteness and peerless beauty. The flowers are very full and round as a ball, resembling the Snowball shrub. Its hardiness and vigor have been well tested in all parts of the country. It is a continuous bloomer. 2 to 3 ft., 60c, by express.

**GOLDEN ELDER. (Sambucus Aurea.)** A variety with golden yellow foliage. A valuable plant for producing contrast when planted with other shrubs. Grows to a height of about 6 feet, and is of vigorous, spreading habit. In early summer it bears large, flat clusters of small, fragrant white flowers, followed by heavy clusters of black, edible berries, borne in profusion and bearing the branches down. Should have full sun to give best effects. Grows well on all soils and can be pruned into a neat, compact little bush. One of the best golden foliaged shrubs. 50c each, by express.

**HIGHBRUSH CRANBERRY.** A magnificent, large shrub, with upright, spreading form, and bright green foliage. The small, white flowers appear in May or June, borne in glorious, showy clusters in such profusion that it is admired by everyone. These are followed by very showy scarlet berries which cling to the bush all winter, being almost as effective as the flowers in summer. It will thrive and grow to perfection in the coldest climate. 50c each, by express.

**HONEYSUCKLE, (Upright Red Tartarian.)** The best known of all the Bush Honeysuckles and in our estimation the finest variety of all. Grows to a height of 8 to 10 feet with upright somewhat spreading branches and bright green foliage. The flowers are borne freely in May and June, are of bright pink color, followed by showy red berries, which ripen in midsummer, and cling to the bush for several weeks. This fine shrub is of great value planted as a background for smaller shrubs. It withstands successfully the severest winters. 50c each, by express.

**PURPLE FRINGE or SMOKE TREE.** A variable ornamental shrub; has curious fringe or hair-like flowers that cover the whole tree, giving the appearance of mist or smoke; wide spreading habit which requires some room to grow to the best advantage. 50c each, by express.

**LILAC, PERSIAN.** The old-fashioned Lilac, which grows into a very high bush with bright green, heart-shaped leaves. In May the plant is crowned with its wondrous wealth of flowers in clusters. It is, without doubt, the best known and most popular shrub grown. A fine, tall shrub for the lawn and one of the best for a fancy hedge. Hardy everywhere, Purple or White. 50c each, by express.



JAPANESE QUINCE.



HYDRANGEA



DOUBLE FLOWERING CRAB



SMOKE TREE



MOCK ORANGE

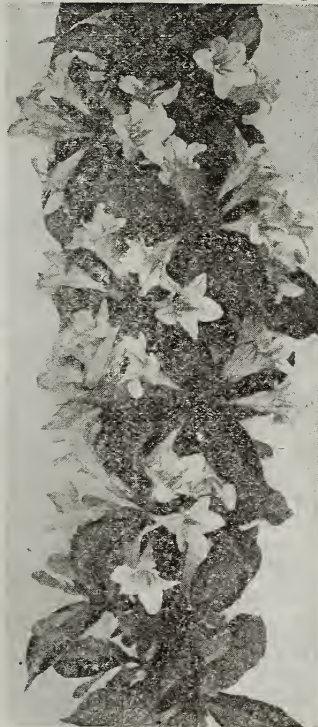
**DOUBLE FLOWERING CRAB.** One of the most beautiful of the many fine varieties of flowering crabs. Tree of medium size, covered in early spring with large, beautiful, double fragrant flowers of a delicate pink color. From a distance the flowers have the appearance of small roses. 4 feet. 60c each, by express.

**SIBERIAN DOGWOOD.** (Cornus.) A very brilliant shrub, free growing, 6 to 10 feet tall, and very hardy; forms a small, handsome tree in some situations; its clusters of small, white flowers in early summer are very dainty, and its bark is a showy red in winter. In early fall it bears a profusion of whitish blue berries, making it distinctly ornamental after the flowers have gone. 50c each, by express.

**SNOWBERRY or WAXBERRY.** Red or White Fruited.) A desirable shrub with small pink flowers, followed by large wax-like berries, which hang on the plant through most of the winter. Grows to a height of 2 to 4 feet. Very showy and succeeds everywhere, of special value for planting in densely shaded places where few other shrubs will grow. Price of trees, 3 to 4 feet high, 50c, by express.

**SUMAC.** (Fern Leaved.) This variety of Sumac is found in the hills of Vermont. It is of rapid, robust growth, producing cones of bright red fruit. Leaves beautifully formed, rivaling the most delicate fern. If massed with other shrubs the effect is striking. Can also be cut to the ground each season and a mass of beautiful foliage will result. This shrub will thrive in the poorest of soils with a surprising luxuriance. 50c each; by express.

**TAMARIX.** Very strong growing shrub with brown bark and slender, spreading branches. The foliage is as light and feathery as asparagus; flowers delicate and fringing, of bright pink color. Blooms in May or June and sometimes again in the fall. Valuable for planting near the seashore or on the edge of sandy banks near fresh water. Will grow 10 to 12 feet high. Price, 3 to 4 feet high, 50c, by express.



WEIGELIA

**MOCK ORANGE or SYRINGA.** (Philadelphus.)

A hardy, upright growing shrub with arching branches, attaining to a height of 8 to 10 feet. Flowers are large, creamy-white, deliciously fragrant, and appear in greatest profusion in May and June; splendid for cut flowers. Hardy everywhere and valuable for immediate effect in landscape planting. An old-fashioned shrub. Fine for hedges.

**WEeping FORSYTHIA or DROOPING GOLD-**

**EN BELL.** A grand shrub with long and slender branches. Leaves dark green and lustrous, persisting until heavy frost. The beautiful flowers come in great profusion, are golden yellow and very showy. Grows 8 to 10 ft. tall. One of the showiest shrubs in cultivation.

**WEGIELIAS.** Beautiful shrubs, that bloom in May, June and July. The flowers are produced in so great profusion as almost entirely to hide the foliage. They are very desirable for the border or for grouping, and as specimen plants for lawn.

**Candida.** Flowers pure white, produced in June and continue to bloom nearly all summer.

**Eva Rathke.** Beautiful flowers with a clear, distinct shade of brilliant crimson.

**Rosea.** An elegant variety with fine rose colored flowers appearing in June.

Price of above Weigelias 50c each, by express.

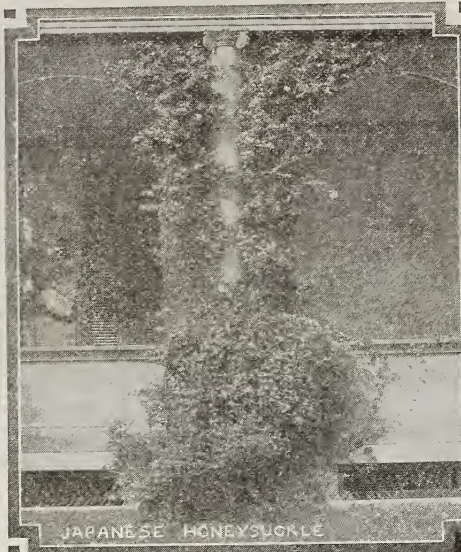
**TREE SEEDS.** We are in a position to furnish all kinds of tree, shrub and fruit seeds, including Evergreens, Maple, Ash, Oak, Apple, Cherry, Pear, etc. Write for special prices on anything you may need.

For Insecticides and Sprayers, see pages 70-71.

**LAND SCAPE GARDENING.**

By F. A. Waugh, Professor of Landscape Gardening in Mass. Agri. College. The whole matter of Landscape Gardening is made entirely plain even to the inexperienced reader. Illustrated, 152 pages. Cloth 50c.

We cannot ship Nursery Stock into Wyoming.



#### LARGE FLOWERING CLEMATIS

**Jackmanii.** The beautiful intense violet-purple flowers, when fully expanded, measure 4 to 6 inches in diameter. It blooms continually from July until frost.

Small 15c each, 3 for 40c; large 50c; postpaid.

**Madame Andre.** A free bloomer with crimson flowers. Small 15c each, large 50c; postpaid.

**Henryii.** Has very large creamy white flowers. Small 15c, large 50c; postpaid.

**Coccinea.** A bright coral red bell-shaped flower. A profuse bloomer. Large only, 45c; postpaid.

**JAPAN CLEMATIS, Paniculata.** One of the most vigorous of all climbers. In late summer it produces dense sheets of medium sized, pure white flowers, of the most pleasing fragrance. Will grow in almost any soil, and is entirely free from blight and insects. Small 14c each, 3 for 35c; large 40c; postpaid.

#### HONEYSUCKLE

**Hall's Japan.** A strong, vigorous vine with pure white flowers, changing to yellow; foliage remains green well into winter; very fragrant and covered with flowers almost the entire season.

**Monthly Fragrant.** Blooms all summer; flowers red and yellow and very fragrant.

**Scarlet Trumpet.** One of the handsomest in cultivation; a strong, rapid grower; flowers a bright scarlet, not much odor.

All Honeysuckles, price: Small 12c each, 3 for 30c; large 45c each; postpaid.

**YELLOW TRUMPET.** A strong vine with brightest orange-yellow trumpet-shaped flowers. Large only 45c; postpaid.

**BIGNONIA or TRUMPET CREEPER.** Scarlet trumpet flowers with long, handsome, dark green foliage and quite showy clusters of orange and scarlet flowers during the summer. Large only, 45c each; postpaid.

**WISTERIA. Chinese Purple.** Bears in great profusion large, drooping clusters of purple pea-shaped flowers, somewhat resembling a bunch of grapes in size and form. Blooms in May and June. Foliage is very pretty, of pale green color. An exceedingly beautiful and useful climbing plant. Small 12c each, 3 for 30c; large 45c each; postpaid.

**Chinese White.** Same as the purple except color. Small 16c each; large 45c each; postpaid.

## HARDY ORNAMENTAL CLIMBING SHRUBS

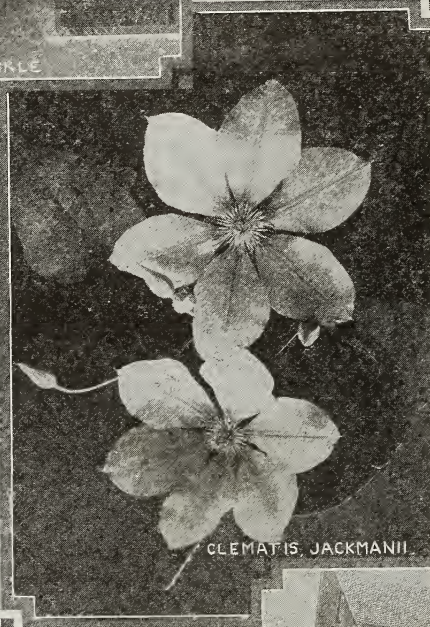
Your home, out-buildings, fences and trunks of old trees can be made very attractive by the use of hardy vines. Such permanent improvements add greatly to the value of your property, and the value increases from year to year. We furnish nice, strong, field grown plants at prices given below.

#### AMPELOPSIS

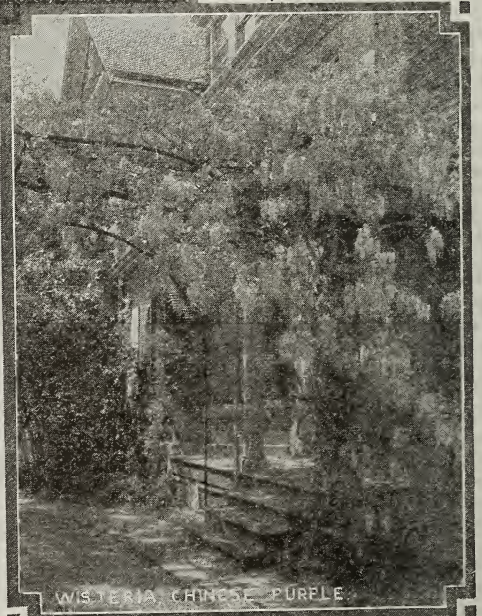
**American Ivy or Virginia Creeper.** (*A. quinquefolia*.) One of the finest vines for covering walls, verandas or trunks of trees; foliage green, turning to a rich crimson in autumn; a rapid grower and quickly fastens to anything it touches. Large 30c each; postpaid.

**Boston Ivy.** (*Veitchii*.) Leaves smaller than the American; forms a dense sheet of green as leaves overlap each other; is a little difficult to start, but when once established requires no further care; foliage changes to a crimson scarlet in the fall, very valuable for covering brick or stone structures, rockeries, walls, etc. Small 12c each, 3 for 30c; large 35c; postpaid.

**Engelmanni Ivy or Woodbine.** It has shorter joints, smaller and thicker foliage than Boston Ivy. It is better equipped with tendrils with which to climb-closely built walls of stone or brick. It is the best Ivy to be planted in the central and northwestern states, as it is perfectly hardy, withstanding both heat and cold. Small 12c each, 3 for 30c; large 35c; postpaid.



**HEDGES, WINDBREAKS AND LIVE FENCES.** By Powell. Accurate directions how to plant and care for live hedges. It includes the whole art of making the home grounds beautiful. Illustrated. 140 pp. Cloth, 50c.





NOTE: The "large" Roses are 2-year-old; "small," 1-year-old.

# ROSES

Order in spring, not later than June 1st

To obtain the most satisfactory results, roses should be planted in well drained, rich, deep loamy soil, and given a location where they will have sunlight and a circulation of air. For winter protection an application of compost or rotten manure should be given them in the late autumn, and spaded into the ground the following spring.

## HARDY HYBRID PERPETUAL ROSES ANNOUNCEMENT

To Our Patrons: To satisfy a particular and every-increasing demand for 2-year old roses we have been forced to erect several more large greenhouses for the exclusive propagation and growing of large quantities of roses and house plants.

We propagate and grow all of our roses and the varieties listed are all tried and true to name. Our roses are grown in the field two years, and with the exception of Ramblers, are taken up in the Fall, held dormant until towards Spring and then started in large 4-inch pots. When shipped to you they are in bud and bloom, with a ball of dirt on the roots which is wrapped with moss, paper and burlap, and shipped by express at your expense, or by mail for 10c more. They should reach you in the finest condition.

### NOTICE

If the plants look wilted when received put them in lukewarm water for 15 or 20 minutes. Set the plants about 2½ inches deeper than they were growing before and press the soil firmly around the roots. Give them a good watering. Shade from sun and wind until they begin to grow.

**GEN. JACQUEMINOT.** A grand old rose which everyone knows at least by name and reputation. Rich, crimson scarlet in color and especially handsome in the bud. Although introduced nearly fifty years ago, it is still unrivalled in popularity and of great value for garden planting. Small 15c each; 3 for 40c; large 55c each; postpaid. By express, 35c.

**GRUSS AN TEPLITZ.** Succeeds under the most ordinary conditions. In color it is of the richest scarlet, shading to velvety crimson; a free, strong grower, quite hardy and a most profuse bloomer all summer. Foliage very beautiful. Small 12c each, 3 for 30c; large 45c each; postpaid. By express, 35c.



GEN. JACQUEMINOT

recommend it for cemetery planting because of its permanency. Flowers are pure white, very large and double; it is a profuse and continuous bloomer. Good white hardy roses are scarce—this is one of the very best. Should never be pruned except to remove old or scraggy branches. Small 15c each, 3 for 40c; postpaid.

**PAUL NEYRON.** The largest of all rose blooms, bright shining pink, clear and beautiful; very double and full; finely scented; blooms first season and all summer. Grows to a great height in a single season and stems are almost thornless. Small 15c each; postpaid.

**WHITE AMERICAN BEAUTY.** Extraordinarily strong growing, branching freely, with the vigor and hardness of an oak. An ordinary plant will produce hundreds of magnificent flowers, which are full, very deep and double and of splendid substance. Petals broad and long. The buds are egg-shaped, long and pointed. The color is marvelous, snow-white, without a tinge of yellow, pink or any other color. Small 16c each; large 50c each; postpaid. By express, 40c.

**AMERICAN BEAUTY.** Well known as one of the grandest and most beautiful constant-blooming roses; immense buds and flowers, rich glowing crimson, exceedingly sweet. Small 16c each; large 50c each; postpaid. By express, 40c.

**PAPA GONTIER.** Extra large, finely formed buds and flowers; strong, robust grower; constant bloomer; rich rosy red; very full and sweet. Small 12c each; large 45c each; postpaid. By express, 35c.

**PRINCE CAMILLE DE ROHAN.** One of the darkest colored roses. Very dark velvety crimson, changing to intense maroon. A very prolific bloomer, and blooms are of excellent form and size. Small 15c each, 3 for 40c; large 45c; postpaid. By express, 35c.



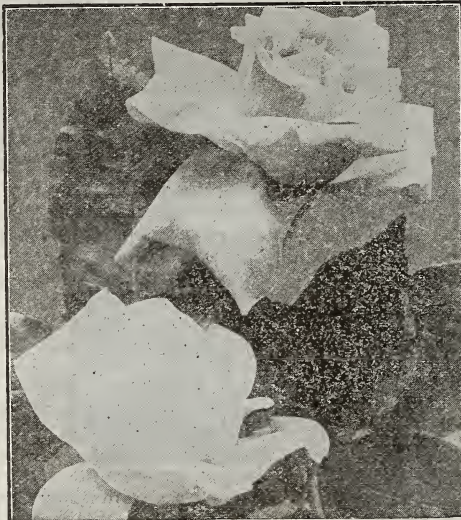
WHITE AMERICAN BEAUTY

**MME. PLANTIER.** (The Cemetery Rose.) Needs no care. This grand variety, when once planted, is as permanent as a Hydrangea. It is hardy as an Oak. We

## CHOICE STANDARD EVER-BLOOMING TEA AND HYBRID TEA ROSES

HUGH DICKSON  
DICKSON.

**HUGH DICKSON**  
(Hybrid Perpetual.)  
The most remarkable addition to red H. P.'s in many a year. A vigorous grower with handsome foliage, deep red on the young shoots, changing to deep green with age; a free perpetual bloomer; color brilliant crimson shaded with scarlet; very large and of exquisite form, with large smooth petals slightly reflexed on the edges; does not burn in the sun; very fragrant. Awarded gold medal of the National Rose Society.



WHITE MAMAN COCHET

**KILLARNEY.** There is no rose we know in this class that blooms more freely than Killarney and the large size of the flowers and substance of petals are remarkable, petals measuring 2½ inches deep. The buds are large, long and pointed. The color is exquisite, a brilliant imperial pink, almost sparkling and beautiful beyond description. Small 12c each; large 50c each; postpaid. By express, 40c.

**WHITE KILLARNEY.** A pure white sort from the pink parent above described. Identical with the pink variety except in color. Small 15c each; large 50c; postpaid. By express, 40c.

**MAMAN COCHET.** This superb rose is well known as the queen among roses and one of the best and most beautiful varieties ever grown and quite hardy. Flowers are of enormous size, very full and of great depth and substance. Color rich, coral pink, elegantly shaded with rosy crimson; broad, thick, shell-like petals; makes superb, long, pointed buds; immense bloomer. Deliciously sweet and a hardy, vigorous grower. Small 12c each; large 50c each; postpaid. By express, 40c.

**WHITE MAMAN COCHET.** Identical with its parent Maman Cochet in everything except color. Has same freedom of bloom and magnificent form of buds and flowers and the same hardiness. Vigorous and hardy nearly everywhere. Small 12c each; large 50c each; postpaid. By express, 40c.

**CHERRY RIPE.** An extraordinarily free-flowering Hybrid, branching in habit, vigorous and hardy, and as free as a Tea Rose. The flowers are medium in size, well formed, globular, light rosy-crimson; as fragrant as the Hybrid Perpetuals. Large size only, 45c; postpaid. By express, 35c.

**J. B. CLARK.** The glory of the plant is its flowers. They are extraordinary in size; the half open bud full and elongated, with a high pointed center. The color is new—intense deep scarlet, heavily shaded blackish-crimson, like the sheen on a plum, giving the expanded flower an indescribably beautiful appearance. Fragrance intensely sweet. Small 15c, 2 for 25c; postpaid.

**ETOILE DE FRANCE.** Color, superb, velvety crimson with a vivid bright pink center. Buds are long and pointed, borne singly and erect, flowers very large, valuable for cutting. Small 12c each, 3 for 32c; large 45c each; postpaid. By express, 35c.

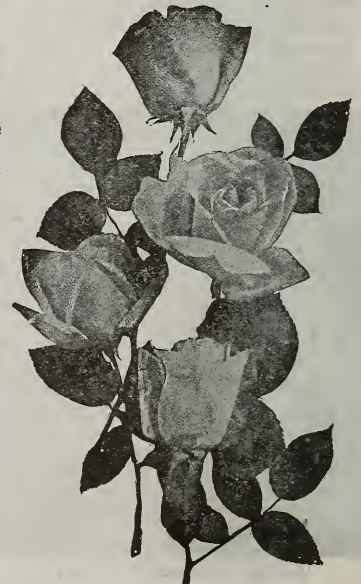
**ETOILE DE LYON.** This magnificent Tea Rose is a rich golden yellow; a strong, healthy and vigorous grower, immense bloomer. Will withstand very well, both heat and cold. Small 12c each, 3 for 30c; large 45c each; postpaid. By express, 35c.

**GOLDEN GATE.** Rich, creamy white, beautifully tinged with golden yellow and rose; a constant bloomer, large, very double. Small 12c each; large 45c each. By express, 35c.

**KAISERIN AUGUSTA VICTORIA.** Color pure, snowy white; a continuous bloomer, producing successive crops of buds and flowers in greatest profusion. Buds and blossoms are beautiful and fragrant. Small 12c; postpaid.

**METEOR.** Remarkable for its large size, constant bloom and brilliant color; bright, rich, velvety crimson, and a most constant and abundant bloomer. Small 12 each; postpaid.

**MY MARYLAND.** Salmon pink with long stems and pointed buds, very full in bloom. Very fragrant. Large only 50c; postpaid. By express, 40c.

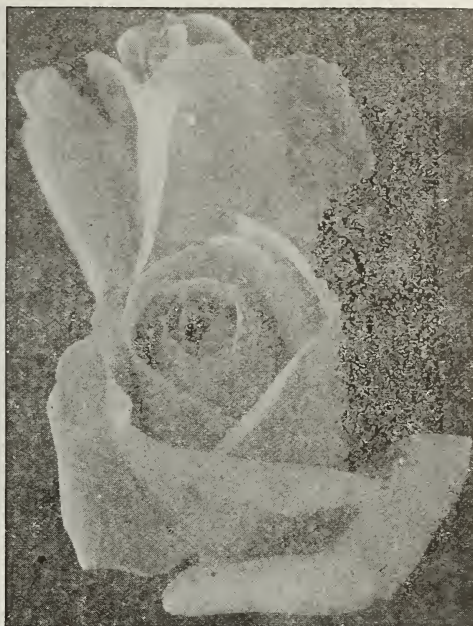


KILLARNEY

**PINK SOUPERT.** A lovely ever-blooming rose, as beautiful as Clothilde Soupert, but deeper color; medium size flowers, perfectly full and double; blooms all the time; color, fine rose pink, but variable. The same bush frequently bears flowers of different colors at the same time; grows low and bushy and is quite hardy. Small 12c each; large 45c each; postpaid. By express, 35c.

**CLOTHILDE SOUPERT.** The best Rose known for bedding or pot culture. Color a French white, deepening to a rosy-blush in the center, exceeding in distinctness of shading the well-known Malmaison. Its greatest value lies in its compact, vigorous habit and wonderful profusion of bloom, even the smallest plants being literally covered with flowers. The form and substance of the flowers are so perfect that the hottest weather does not cause deterioration of either, so that even in mid-summer a bouquet of splendid buds and open flowers can be obtained from this fine variety. Too much cannot be said in praise of this Rose for bedding purposes. It deservedly earned its title of the "Premier Bedding Rose." Valuable as it is for garden purposes, it is even more so for pot culture, and ranks first for blooming in the house. It is entirely exempt from the diseases usually affecting Roses in the house. Small 12c each; large 45c each; postpaid. By express, 35c.

**RADIANCE.** Color a brilliant rosy-carmine displaying beautiful opaline pink tints in the open flower. The form is fine; flowers large and full with cupped petals. Splendid healthy foliage. 15c each; postpaid.



RADIANCE

## TWO ROSE SPECIALS WEDDING BELLS COLLECTION

One of each for 32c; postpaid

**THE BRIDE.** (White Tea Rose.) Flowers very large on long, stiff stems. They last a long time after being cut, making it one of the best for bouquets. Sometimes a pinkish white in very hot weather but usually a pure white. Small 12c each; large 45c each; postpaid. By express, 35c.

**BRIDESMAID.** (Pink Tea Rose.) A clear, shining pink, on long, strong stems. Lasts a long time after cutting. A very fitting companion to the above. Small 12c each; large 45c each; postpaid. By express, 35c.

**RICHMOND.** (The Everblooming Gen. Jacqueminot.) It is free blooming, and its scarlet-crimson flowers are borne on fine long stems, which make it especially valuable for cutting purposes. It comes to perfection without special care or culture. Produce freely throughout the year; long, pointed buds on tall, straight stems with elegant dark foliage. Has as delicious fragrance as American Beauty. Small 12c each; large 45c each; postpaid. By express, 35c.

## THE "TRIPLETS" COLLECTION

One of each for 40c; postpaid

**BABY RAMBLER.** (Crimson.) Possesses all the charming, brilliant red color of the Crimson Rambler, only it is dwarf and everblooming. Begins blooming when only a few inches high. A plant in a 5 or 6 inch pot is a thing of beauty. Also an excellent bedder, forming clusters of flowers as large as the Crimson Rambler. Small 12c each; large 45c each; postpaid. By express, 35c.

**BABY DOROTHY.** A splendid companion to the Crimson Baby Rambler; is just as vigorous and free blooming. This is much the same as the climber Dorothy Perkins, hence the appropriateness of the name, "Baby Dorothy." As a pink bedding rose it has no equal. Small 15c each; large 45c each; postpaid. By express, 35c.

**WHITE BABY RAMBLER.** This rose has identically the same habit of growth and freedom of bloom as the other two "Baby" roses. No collection of dwarf roses is complete without the White Baby Rambler. Small 15c each; postpaid.



CLOTHILDE SOUPERT

## MOSS ROSES

Moss roses are strong, vigorous growers, perfectly hardy and like rich ground. Both flowers and buds have an abundance of lovely deep green moss; very free flowering.

**BLANCHE MORREAU.** Flowers in clusters, and are large, full and sweet, pure white.

**PRINCESS ADELAIDE.** One of the best; extra large flowers; color bright rosy pink.

**CRIMSON GLOBE.** A fine deep crimson.

Price of Moss Roses. Small, 15c each; three (one of each) for 40c.



BLUE RAMBLER

**DOROTHY PERKINS.** The flowers are a most beautiful shell pink and hold a long time without fading. About 1½ in. across; borne in clusters of from 10 to 30 and very double; petals are prettily rolled back and crinkled; buds are remarkably pretty. In hardiness, vigor and habit of growth it is all that can be desired. Foliage is of deep green, of thick, leathery texture, and remains on plant in perfect condition till well into winter, making it almost an evergreen variety. Small 12c each, 3 for 30c; large 40c each; postpaid. By express, 35c.

**EVERBLOOMING CRIMSON RAMBLER.** (Flower of Fairfield.) The Flower of Fairfield is in form and color like the ordinary Crimson Rambler. It begins blooming early in spring and continues to bloom until late in autumn. This rose is not only good for covering trellises but is excellent for cutting. Small 15c each, 3 for 40c; large 55c each; postpaid. By express, 50c.

**LADY GAY.** Flowers are deep, clear rich rose pink; immense trusses like Crimson Rambler. Healthy, hardy and very rapid grower. Large size only, 40c; postpaid. By exp. 35c.

**ORIOLE.** (A Yellow-er Yellow Rambler.) A new seedling rose never before offered. The principal drawback with the old Yellow Rambler (*Aglaia*) is that in our hot, dry summers and strong sunlight it quickly loses its yellow tinge and turns almost white, and it is rather shy in blooming in many localities. We have seen plants of Yellow Rambler in Germany that we hardly recognized as that variety,—they were so loaded with blossoms and the flowers had so much more yellow in them than we had ever seen in this country. It had been a disappointment that Yellow Rambler was not as satisfactory in this country as in Germany, but the new rose promised to more nearly fulfill what is needed over here. While it is not permanently the rich, golden color that we all admire so much in roses, yet it is a pronounced yellow when the flowers first open and the yellow tint is held longer and more decidedly than in any other rose of this class that we have seen. Also it is much more free flowering than the Yellow Rambler. 15c each; postpaid.

**TAUSENSCHON.** (Thousand Beauties.) The flowers appear in large clusters from the beginning of June to the end of July. The color is a soft pink changing to a rosy carmine. Small 15c each, 3 for 36c; large 40c; postpaid. By express, 35c.

## HARDY CLIMBING ROSES

Orders for Roses in this list should reach us by April 15 at the latest.

**BLUE RAMBLER.** Veilchenblau. (Violet Blue.) For years the endeavor of rosarians to produce the blue rose, and their efforts have at last succeeded in the production of Veilchenblau. The semi-double flowers come in clusters similar to the Crimson Rambler. When first open, they are partly bright red, partly bright rose but soon change to a steel blue. It is a hardy, vigorous grower and is not troubled by mildew. Small 15c each, 3 for 40c; large 55c each; postpaid. By express, 50c.

**CRIMSON RAMBLER.** It is a vigorous grower, making a gorgeous display of brilliant crimson clusters of blossoms, each cluster a bouquet in itself. The blooms remain on the plant for a long time without losing their brightness. Small 12c, 3 for 30c; large 40c; postpaid. By express, 35c.

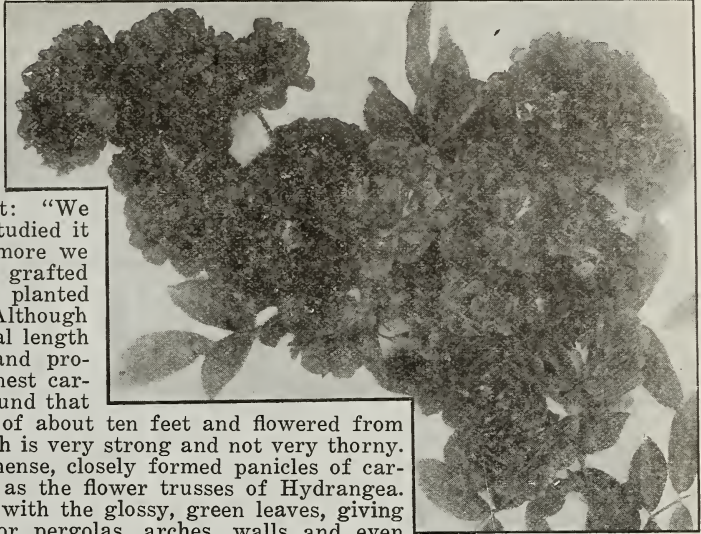


FLOWER OF FAIRFIELD

**THE LATEST ROSE NOVELTY  
MISS G. MESMAN**

The Climbing Baby Rambler; 20c, postpaid

MISS G. MESMAN is the latest European candidate for favor among the newer roses. It is described as a climbing sport from Baby Rambler. The raisers of the rose have the following to say about it: "We found this rose three years ago, studied it and the more we saw of it the more we found it worth growing. We first grafted only a small quantity which were planted outdoors on the 10th of July. Although set out so late, they reached a total length of four feet the same summer and produced a mass of flowers of the finest carmine red color. Afterwards we found that the parent plants made a growth of about ten feet and flowered from June until frost set in. The growth is very strong and not very thorny. The branches are tipped with immense, closely formed panicles of carmine red flowers, almost gigantic as the flower trusses of Hydrangea. These masses of flowers, together with the glossy, green leaves, giving the plant a marvelous effect. For pergolas, arches, walls and even hedges, no better rose has yet been introduced."



MISS MESMAN  
The Climbing Baby Rambler

**A SENSATIONAL NOVELTY**

Climbing American Beauty; 30c each, postpaid

CLIMBING AMERICAN BEAUTY was originated and first introduced by a prominent Pennsylvania nursery. We immediately secured a stock of it, appreciating that it was bound to be of great value and popularity. The following is the originator's description and after growing and studying the rose ourselves we feel that this description in no way over-rates the value of the rose. "A new rose of wonderful beauty and merit. A cross between the American Beauty and an unnamed seedling. Color, rosy crimson, identical with its pollen parent, American Beauty, and with the same exquisite fragrance, a quality rarely found in climbing roses. Of strong habit of growth, making shoots of from ten to fifteen feet in one season, hardy as an oak. Will thrive and bloom in almost any situation where a climbing or pillar rose is desired. Flowers are three to four inches in diameter, finely formed, on long stems and are produced in great profusion. The foliage is large, deep green and entirely free from black spot or mildew. One of the first roses to bloom in the spring. Comes into flower with us the latter part of May and the first week in June and continues in full flower for a month or more, with occasional bloom during the growing season; the plants with us, having buds and flowers when nipped by frost in November." The accompanying picture is from a photograph of a bush six years old and having over one hundred blossoms on one side.



CLIMBING AMERICAN BEAUTY

**TWO IRON-CLAD RUGOSA  
ROSES**

For 28c, postpaid

The hybrids between the Japanese rugosa roses and various garden roses form a new race of especial value for the extreme northern parts of the country. From the Rugosa blood they inherit absolute hardiness, perpetual flowering habit, vigorous growth and the thick, leathery foliage which makes the bushes attractive as ornamental shrubs, even did they produce no flowers. From the crossing with improved garden varieties are gained better form and character of flowers. The two varieties offered are among the best of the rugosa hybrids. We especially recommend them for planting in the extreme north and northwest, where few other roses will withstand the climate.

**CONRAD F. MEYER.** A most valuable addition to the list of hardy, free-blooming roses. It surpasses all others of the type in fullness of flowers. The color is beautiful, a pure silvery pink. It is of ironclad hardiness. Its beautiful foliage alone would recommend it as an ornamental shrub for the garden. For a flowering hedge it should eventually take front rank. The fragrance of the flowers is spicy and delightful. Price, 15c each; postpaid.

**MAD. GEORGES BRUANT.** Semi-double, pure white, produced freely in showy clusters, buds being long and pointed. Price, 15c each; postpaid.

**HARDY WHITE MEMORIAL ROSE.** (Wichuraina.) Will creep all over the ground or can be trained up to a trellis. Hardy as grass, and will grow in sun or shade, poor ground or rich. Needs no protection, will care for itself and bloom profusely every season, without attention. The flowers are single and very large, pure satiny white, with bright golden center. Borne in clusters. Small, 12c each; 3 for 30; postpaid.



**BEAUTIFUL LAWNS**

A rich velvety lawn with a background of Beautiful Ornamental Shrubs enhances the value of a home and gives to it the natural artistic setting that we so much admire. We can furnish all Ornamental Shrubs, Vines and other plants to make your home as beautiful as the above. See pages 65-73.

To MAKE A GOOD LAWN.—Nothing is more easily made and kept in order by a little well directed care. To get grass seed up quickly and evenly the surface must be mellow and level, with at least six inches of good black soil. Sow one pound of GRISWOLD SPECIAL LAWN MIXTURE to every 400 square feet, and rake the seed in and roll well, or use a wide board until soil is uniformly firm. If the soil is clayey, cover the surface with a light coating of our LAWN FERTILIZER. To keep the lawn beautiful, it must be frequently mowed. In hot, dry weather it is better to mow the lawn and not remove the clippings, as these will gradually form a thin mulch which will hold moisture, and protect the roots from the hot sun. Never water a lawn when the sun is shining brightly upon it. The best time for watering is late in the afternoon or evening.

**LAWN SEED**

**SPECIAL LAWN GRASS MIXTURE.** A mixture adapted to our hot, dry climate. It is composed of Blue Grass, White Clover, and several other best lawn grasses. Some of these come early, some grow best during the summer, some grow well in the shade, while others make their growth in the fall. In this way one has green grass the whole season. This mixture will make a rich, deep green, velvety lawn, with a close, thick turf, in a few weeks' time, and one that will last much better than if sodded. One pound covers 400 square feet (a space 20x20 feet) for new lawns, and half this amount for

re-seeding old ones. Per lb., 35c; 5 lbs., \$1.50. By mail, lb., 45c; 5 lbs., \$2.00.

**FANCY KENTUCKY BLUE GRASS.** Best grade of fancy, clean, new crop tested seeds. Per lb., 35c; 5 lbs., \$1.50; postpaid. By freight, 1 lb., 25c; 5 lbs., \$1.00; bu. (14 lbs.), \$2.25.

**WHITE CLOVER.** This is just the seed to sow on the bare spots in your yard or lawn where a very quick green covering is desired, as it will cover better in ten days' time than grass seed will cover in two months. 60c per lb., by mail. By express or freight, 50c per lb.; 5 lbs., \$2.40; 10 lbs., \$4.50.

**PRICES SUBJECT TO MARKET CHANGES**

**BETTER LAWN HOSE FULLY GUARANTEED**

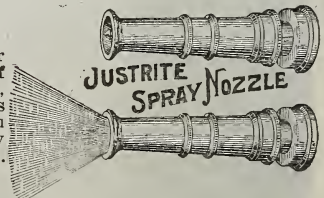


**REVERO NON-KINKABLE HOSE**  
Light—Strong—Flexible

An indestructible moulded hose for Lawn, Greenhouse, Stable, Garage. Of braided construction; cannot unwrap, kink or burst. Made in continuous lengths up to 500 feet, which gives you any length you want and avoids leaky couplings. Price 1/2 in. size, per ft., 15c.

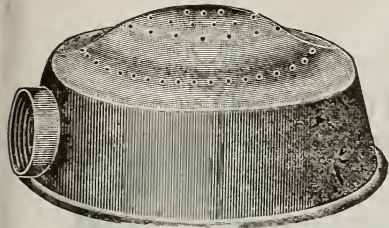
**JUSTRITE NOZZLE**

Regular Hose Nozzles, 35c each, postp'd.

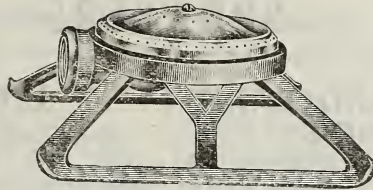


1/2 inch Griswold's El Capitan, 50 feet for.....	\$4.50	3/4 inch Griswold's El Capitan, 50 feet for.....	5.00
3/4 inch Griswold's Panama, 50 feet for.....	4.50	Hose Menders with Bands, each.....	.5c
		Hose Gaskets (rubber washers), per dozen.....	10c

REGULAR GUARANTEED HOSE will be replaced if not satisfactory.



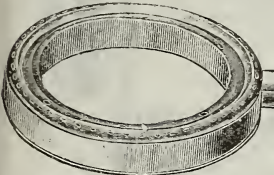
**PERFECT SPRINKLER.** As gentle and even as the rain drops. Top made of brass, bottom heavy galvanized iron. Price, 45c each. 55c postpaid.



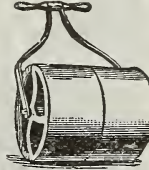
**TUXEDO.** A universal favorite. Top brass base steel. 50c each; 55c postpaid.



**BUSY.** As the name implies, is always busy. Top galvanized iron, base steel. 65c each; 75c postpaid.



**LAWN ROLLER**  
15 in., weight  
150 lbs.  
Price \$7.50



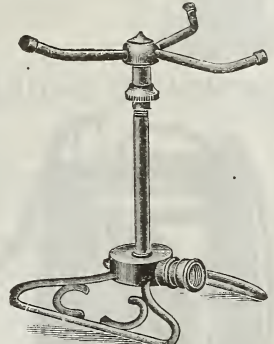
**ANT DRIVER**

This is effective against most of the known species, especially the small red and black ant, which are the most troublesome in this country. Price 25c; postpaid, 30c.

**THE "FOUNTAIN" LAWN SPRINKLER**

One of the Really Good things Made entirely of brass. No moving parts. Nothing to get out of order. More beautiful than a fountain more efficient than a shower. Price 65c each, 70 postpaid.

**ANACONDA.** One of the best Lawn Sprinklers. Arms can be adjusted to throw the water any distance desired. \$1.00 each; \$1.10, postpaid.



**ANACONDA**

**THE IDEAL DANDELION KILLER**

This new Dandelion Killer is a tube 1 1/2 inches in diameter and 30 inches long, it has a screw cap at the top for filling and in the bottom is a valve which lets out about one teaspoonful of liquid to each plant. Simply fill the tube with gasoline and you can kill the dandelions as fast as you can walk around over your lawn. Price \$1.00; postpaid.

**CLEVELAND LAWN WEEDER**

A simple working device for ridding lawns of all weeds. Dandelions and Plantains are easily killed by its use. It gets at the root of the evil and removes it bodily. Handle 4 ft. long. Price 55c. each 65c, postpaid.

**FERTILIZER AND WEED KILLER**

**LAWN BONE FERTILIZER**

Composed mainly of fine, ground bone. It is clean and dry and furnishes just the desired element for young plants, and gives to the grass a permanent, rich, green color. It can be sown easily by hand. On new lawns it should be sown same time as the seed, and on old lawns any time in the early spring. It furnishes the same nourishment as manure. One hundred pounds covers surface 75x75 feet. 25 lbs., 85c; 50 lbs., \$1.50; 100 lb., \$2.75, by freight.

**SPECIAL LAWN FERTILIZER**

Composed of pulverized sheep manure and chemical fertilizer. The sheep manure is put through a heating process that not only eliminates the odor and turns it to a fine, pulverized mass, but it also kills all weeds. By freight, 100 lbs. (covers 75x75 ft.), \$1.75 per 100 lbs.

**WEED KILLER**

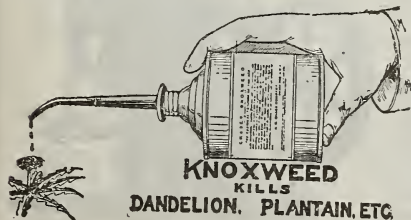
This is a preparation to be used on driveways, walks, tennis courts or places that you wish to keep free from weeds. It will kill all kinds of weeds or grass, both top and roots. To be diluted with 50 parts of water. Price, pint cans, 45c; 1/2 gal. cans, 65c; gal. cans, \$1.00, by freight.

**KNOXWEED**

Kills dandelions, thistles, plantain and other noxious weeds. Weeds that are annoying on lawn or farm, easy to use and is thorough. Kills all weeds that it comes in contact with. Price, small can, 75c; large, \$1.80; postpaid.

**SWARD FOOD**

For lawn use, cemetery purposes or public grounds; it is a splendid feeder for turf, and quick in the result. It is free from any unpleasant odor. Its action is quick and lasting. Apply early in the spring to start the grass; it will fairly make it jump for joy. Sprinkled on earth where ornamental or fruit trees have been dug around, it is soon washed into the ground and taken up by the roots, giving beneficial and marked results to fruit and leaf. Vegetables and flowers may be treated with like results. It makes flowering vines of all sorts grow with great rapidity. 5 lbs. (enough for 400 square feet), 25c; by express or freight.



**ORNAMENTAL GARDENING FOR AMERICANS.**

By Elias A. Long, Landscape Architect. A treatise on beautifying homes, rural districts and cemeteries. A plain and practical work with numerous illustrations and instructions so plain that they may be readily followed. 300 pages. 5x7 inches. Cloth \$1.50.



Received my order today and was especially well pleased with the fern that was sent me.  
MABEL TWARLING.

Sheridan Co., Nebr., Sept. 16, 1913.

# SPRAYERS

All Sprayers shipped by freight or express at your expense.

## SPRAYER AND PAINT MACHINE

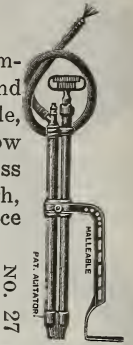


No. 329. Sprays whitewash, cold water, paints or any liquid. Galvanized tank holds 7 gallons. Pump is made of brass with brass ball valves and malleable handle. It has a patent double agitator and is a most complete and serviceable outfit. Price as cut \$7.00.

NO. 329

## LITTLE GIANT

No. 27. A Brass Spray Pump, complete with agitator, hose, fine and coarse spray and solid stream nozzle, with malleable foot rest. Will throw a stream 50 feet. This is a first class all around sprayer, 28 inches high, made of 1½ inch brass tubing. Price \$2.75.



NO. 27

## EXTENSION PIPES

8-ft. Iron Extension Pipe, 45c  
8-ft Bamboo Extension Pipe, with cut-off, \$3.00

## IMPROVED BARREL SPRAY PUMP



NO. 305

No. 305. This pump is made in a first-class manner. All parts that come in contact with the liquid are of heavy brass. It can be easily and solidly bolted to any barrel. The air being compressed into the air chamber with a 2-inch all brass cylinder makes the spray continuous. A mechanical agitator and small jet of liquid from the pump keeps the ingredients thoroughly agitated. It sprays whitewash, kalsomine, water, paints and any other liquid. Fitted with 15 feet of best 5-ply rubber hose, and graduated Vermorel nozzle complete as cut (except barrel). Price, \$8.80.

## O. K. SPRAY PUMP

No. 307. For hot, cold or any kind of mixture. Has mechanical agitator, solid brass ram plunger, round bevel valve and seat. A strictly reliable, first-class pump for spraying orchards or potatoes. Easily adjusted to barrel of any size. The handle is of wrought steel, so as to enable the operator to get up a pressure of 200 lbs. or more. It is fitted for 2 strings of discharge hose. Price without hose or nozzle, as cut (without barrel), \$13.65. Two 15-foot discharge hose and 2 graduated nozzles, \$6.35 extra.



NO. 307 O. K.

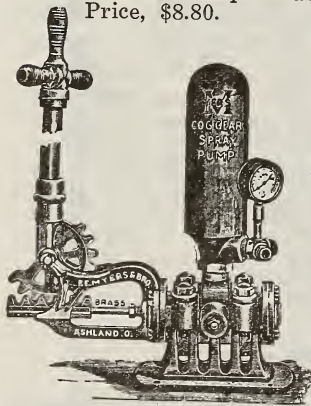
uid from the pump keeps the ingredients thoroughly agitated. It sprays whitewash, kalsomine, water, paints and any other liquid. Fitted with 15 feet of best 5-ply rubber hose, and graduated Vermorel nozzle complete as cut (except barrel). Price, \$8.80.

## MYERS' DUPLEX BACK GEARED DOUBLE ACTING SPRAY PUMP

This is built especially for heavy spray work. The 2-inch cylinder is brass-lined. The plunger is brass, hemp-packed, and piston rod is brass. You can use any material, hot or cold. It is fitted with large air chamber, pressure gauge, 6-foot wire bound suction hose, two 8-foot extension pipes, and two Vermorel or Bordeaux nozzles. Can be used on floor or barrel as the motion of handle is either perpendicular or horizontal. Price, \$20.00. 30 feet heavy hose for \$5.00 extra.

## MYERS' DUPLEX BACK GEARED DOUBLE ACTING SPRAY PUMP

No. 445. It is built strong for heavy pressure work. The 2½ inch heavy brass plungers have a 3-inch stroke, in the vertical, all-brass cylinders. All working parts that come in contact with the liquid are made of brass.

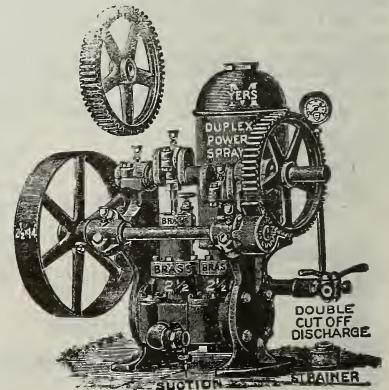


COG GEAR SPRAY PUMP

The air chamber is 8x16 inches. This insures a steady pressure when used with large power nozzles.

It is regularly equipped with belt pulley. If wanted with gear wheel give size of crank shaft on engine. Fitted with relief valve, pressure gauge, double cut-off discharge, 6 feet of wire-bound suction hose, two 8-foot pipe extensions and two power nozzles. No discharge hose. Price, \$53.00.

A SPECIAL PIPE to fit Nos. 27, 329, 305, 307 and for Meyers Knapsack, for spraying under leaves of Muskmelons or Cucumber vines, 50c each.



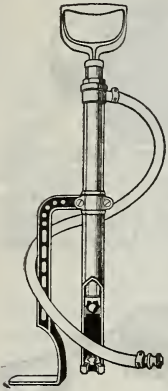
ASK FOR LARGE SPRAYER CATALOG



**SPRAYERS—(Continued)**

All Sprayers shipped by freight or express at your expense

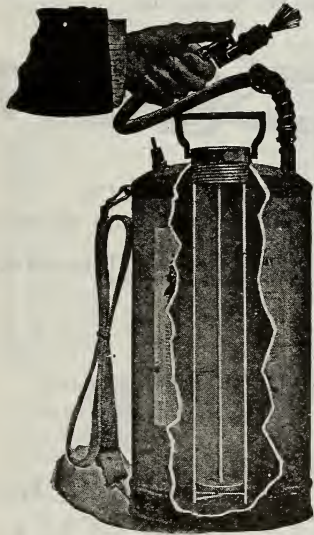
**MODOC BUCKET PUMP**



This pump is all brass except the foot piece and handle. The cylinder and plunger are made of heavy, seamless brass tubing. The plunger is hollow, thus forming an air chamber which insures a steady flow of liquid and is packed in cotton wick and can be quickly changed when necessary. The valves are brass balls. The foot piece holds the pump firm in the bucket or pail in just the proper position for work. The pump is equipped with 3 feet 1/2 inch spray hose attached with clamps. Price \$2.75.

**KANT-KLOG**

The sprayer holds over 4 gallons.



The air pump is made of heavy brass 2 inches in diameter. A safety valve is provided.

Special attention is called to the new "Kant-Klog." The first and only nozzle ever made which gives both flat and round sprays or solid sprays.

A light pressure of the thumb starts the spray instantly. Remove it and the spray stops instantly. Price, Galvanized Steel and 3 feet brass, extension rod, \$5.00; Polished Brass and 3 feet brass extension rod, \$6.50.

**MYERS' KNAPSACK SPRAY PUMP**



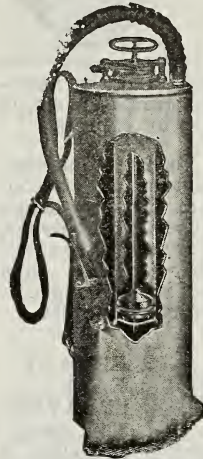
The tank holds 5 gallons. The pump has a large air chamber, ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. The pump can be removed easily. The pump is also fitted with handle, so the operator can set the knapsack on the ground and work as

a bucket pump. The handle lever can be shifted from right to left shoulder at will. Price \$5.50

**AUTO SPRAY NO. 1**

This machine is especially desirable for spraying insecticides, fungicides, etc., as well as being

useful for various household and farm purposes. A few strokes of the plunger into the air chamber will compress enough air to discharge the entire contents of the can and make a continuous spray for nine minutes, or if desired, will throw a single stream 30 feet high. The reservoir holds 4 gallons, but it should not be over two-thirds full of solution ready for spraying. The cylinder is made of galvanized iron and the pump strongly and rigidly made.



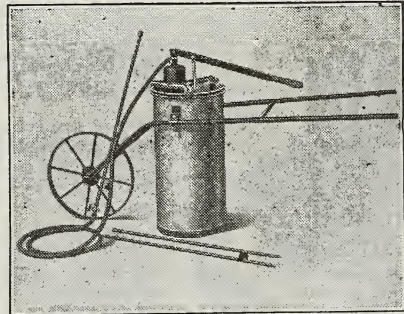
AUTO SPRAY NO. 1

An automatic valve called Auto Pop has been added and machines equipped with this allow an instantaneous discharge, and the spray is in perfect control. We advise ordering with Auto Pop attachment.

Auto Sprayer, galvanized, \$4.50; with Auto Pop, \$5.40. Auto Sprayer Brass Tank, \$6.75. Extension Rods, 2 feet lengths, 45c.

**IDEAL SPRAYER OUTFIT**

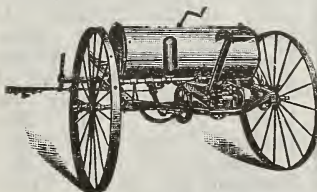
This is just the sprayer for small fruit, small orchard, and an ordinary size patch of potatoes. The tank is made of galvanized iron and holds 15 gallons. The extension pipe can be held and pump worked with one man.



The iron pump is equipped with a large air chamber which maintains the uniform pressure. It has a mechanical agitator and brass ball valves. It is complete with 10 feet 3/4 inch pressure hose; 10 feet of extension pipe in 3 pieces; and a Brandt Ideal Nozzle. Price \$13.00.

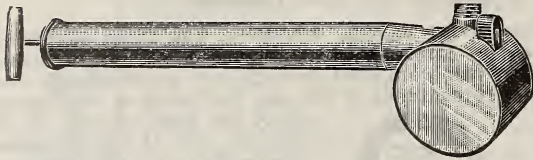
**ONE HORSE 4-ROW SPRAYER**

No. 100. Tank made of best galvanized iron, holds 55 gallons. The wheels turn an air pump which furnishes the compressed air. Best automatic horse sprayer we ever saw. Can be used for spraying orchards or potatoes. Ask for price and large catalog.



**SPRAYERS—(Continued)**

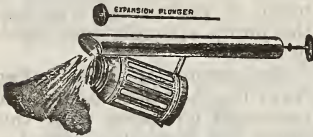
All Sprayers shipped by freight or express at your expense



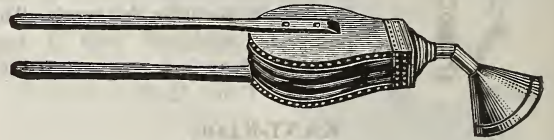
No. 3... Made of heavy tin; has the same size air chambers as our other styles, and the reservoir holds about one quart, and throws a single spray straight ahead. Price 50c, by express.



**THE DOUBLE DAISY.** Sprays both ways. Push the plunger in and it sprays. Pull the plunger out and it sprays. Made out of galvanized iron and holds 1 quart. Does anything that any other sprayer will and does it twice as fast. Price only \$1.00, by express.



No. 20. Tank consists of a Mason fruit jar. Its shape causes it to give a churning motion when in use, thus keeping the ingredients thoroughly mixed. Price 75c, by express.



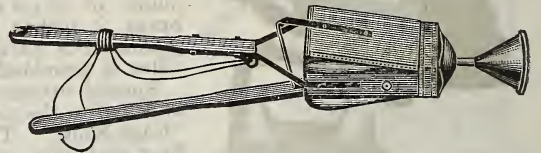
**ACME POWDER GUN**  
Sprays any powdered insecticide. It weighs 1½ pounds. Price \$1.00, by express.



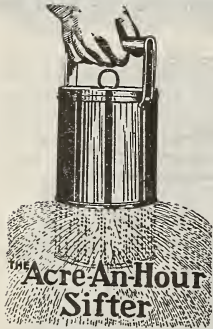
**BRYANT EASY SPRAYER.**

This sprayer holds one gallon of liquid, is equipped with automatic shut off lever nozzle, and made of heavy galvanized iron. Just as good as the larger sprayers only for size.

Price \$1.90, by express.



**ACME DOUBLE POWDER GUN**  
Similar to the single but holds twice as much and works much faster. Made out of the best material. Price \$1.50, by express.



**THE ACRE-AN-HOUR SIFTER**

is ideal for applying BUG DEATH and other dry insecticides. Price 75c, by express.

SEPT. 14, 1909



**DICKEY DUSTER**

For use in applying dry insect powder. Price 25c each, by express.

**INSECTICIDES AND SPRAY MIXTURES**

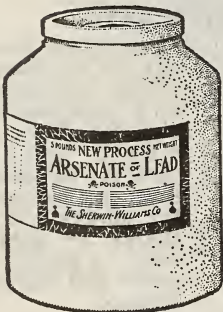
All of these goods by freight or express at your expense unless postpaid prices are given.

**WHEN TO SPRAY**

Just before buds open. When fruit is set. Two weeks later. When fruit begins to color.

**ARSENATE OF LEAD**

S. W. Brand Arsenate of Lead is more sticky than any other insecticide, and is used where it is desirable that the poison should remain on the foliage. It positively will not burn. Use two pounds of Arsenate of Lead to 50 gallons of water. We sell only the best. Price 1 lb., 25c; postpaid, 30c; 2 lbs., 45c; postpaid, 50c; 5 lbs., 80c; postpaid 90c; 10 lbs., \$1.50; postpaid \$1.65.



**PARIS GREEN**

Paris Green is the most active poison known for the destruction of chewing insects, and it should not be applied or left where stock of any kind or children can have access to it.

For destroying the potato bug it should be applied in the proportion of one ounce of Paris Green to three gallons of water or one pound to 50 gallons of water. Price, by express, per lb., 30c; 5 lbs., \$1.20; 14 lbs., \$3.25; 28 lbs., \$6.15; 100 lb. lots, 20c per lb.



**PRICES OF INSECTICIDES AND SPRAY MIXTURES SUBJECT TO CHANGE**

## INSECTICIDES AND SPRAY MIXTURES

All of these goods by freight or express at your expense unless postpaid prices are given  
**WHEN TO SPRAY**

Just before buds open. When fruit is set. Two weeks later. When fruit begins to color.

### LIME-SULPHUR SOLUTION

Use one gallon to make twelve gallons of liquid for strongest use or 24 gallons for summer spraying. For San Jose Scale spray every part of the trunk and branches after leaves are off in the fall and the tree is dormant, using one part to ten of water. Then again in the spring before the leaf buds open. Better make two sprayings of it if you can, about two weeks apart. Price, quart, 30c; gallon, 75c; 5 gallons, \$2.25. Ask for price in larger lots.

### TARGET SCALE DESTROYER

A remedy for San Jose Scale. This preparation contains a combination of mineral and vegetable oils easily mixed with water. It does not clog the pump and nozzle. Dilute with 19 parts of water. Price, 1 qt. cans, 35c; ½ gal. cans, 65c.

### TOBACCO DUST

One of the best remedies for green and black aphid fleas, beetles, etc., also for insects in the ground. Price, 1 lb., 10c, postpaid 15c; 5 lbs. 35c, postpaid 45c; 10 lbs., 50c, postpaid 65c; 50 lbs. \$2.50; 100 lbs. \$4.50, by freight.

### BORDEAUX MIXTURE

S. W. Brand

In pulp, add 49 gallons of water to each gallon of Bordeaux Mixture and spray all fruit trees before buds are open and again after the fruit has set. Potatoes will yield twice as much if sprayed with this mixture and Paris Green or Arsenate of Lead. Pt., 25c; qt., 40c; 5 lb. jars, 70c each; 25 lb. steel cans, \$2.75.

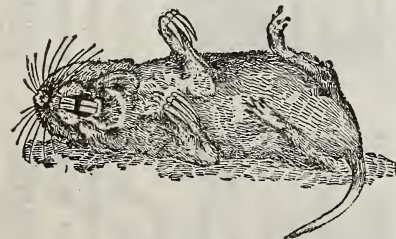


### QUICK BORDEAUX

In making a Bordeaux Mixture some people prefer to have the lime and copper sulphate in a dry state. To supply this demand we furnish this Quick Bordeaux in 10 lb. bag, 4-6-50 formula (enough for 50 gallons of mixture), price, 90c each.

## GOPHERGO

(Machine Poisoned Raisins)



It will exterminate gophers, squirrels, prairie dogs, rabbits, and is the only prepared poison that will get a gopher. The government advises poisoning as the most effective

and best method of exterminating ground pests, but it must combine three points: an attractive bait, thoroughly poisoner, placed where they will get it. Gophergo does it. Try it, if it don't do the work we return your money. Price, ½ lb. can 25c, postpaid 30c; 1½ lb. can 50c, postpaid 55c; 3¼ lb. can \$1.00; postpaid \$1.10; 9½ lb. can \$2.50; postpaid \$2.65.

### KEROSENE EMULSION

This is a safe and sure remedy to kill all sucking insects, that is those which get their nourishment through a proboscis, which they insert into the leaves or bark. Price, qt., 55c; gal., \$1.10.

### WHALE OIL SOAP

It effectually destroys the mealy bug and almost all lice on indoor and outdoor plants. Simply make a suds and spray the plants with it. Price, 1 lb. 20c, postpaid 25c; 5 lbs. 80c, postpaid 90c.



### BUG DEATH

This is a powder used for killing any bug or worm that eats the foliage or flowers of any plant. It is absolutely harmless to plant or animal life, thus making it a safe poison. Can be used dry or with water. For best satisfaction should be used when the tender shoots first come. Price, 1 lb. package 15c, postpaid 20c; 3 lb. package 35c, postpaid 42c; 5 lb. package 50c; postpaid 60c; 12½ lb. package, \$1.00; postpaid \$1.20.



Pat. March 16 and Nov. 9, 1897.  
Pat. in Canada Nov. 2, 1897,  
and Jan. 25, 1900.

### SLUG SHOT

Just dusted lightly on the plants. It kills potato bugs, cabbage worms, melon, squash and cucumber bugs. Non-poisonous and harmless to all creatures except insect life.

Price 1 lb. can. with perforated top 15c, postpaid 20c; 5 lb. pkg. 40c, postpaid 50c; 10 lb. pkg. 75c, postpaid 90c.



### SULPHO-TOBACCO SOAP

Is a powerful agent for the destruction of all bugs and insects. Of special value for spraying roses, shrubs and vines. One or two applications will rid plants of the pests. Full directions with each cake.

3-oz. cake makes 1½ gallons, 10c; 14c, postpaid.

8-oz. cake makes 4 gallons, 20c; 29c postpaid.

10-lb cake makes 80 gallons. By express, your expense, \$3.00.



# OUR SPRAY CALENDAR

In making the spray calendar we have endeavored to explain to anyone not familiar with spraying what to spray, with what and when. We realize that there are several insect pests and diseases which, while fairly common, are not generally known by their names and so one does not know how to treat them.

We, as well as a good many, realize that spraying must be done to secure the biggest and best yields of crops. The question is, what to spray, with what and when, also the cheapest and most effective way to spray. It is for our benefit as well as yours that you spray right, and so if you are in doubt what pest or disease your plants are infested with and will send us a sample leaf or twig of the affected plant we will gladly, to the best of our ability, tell you what the trouble is and the remedy.

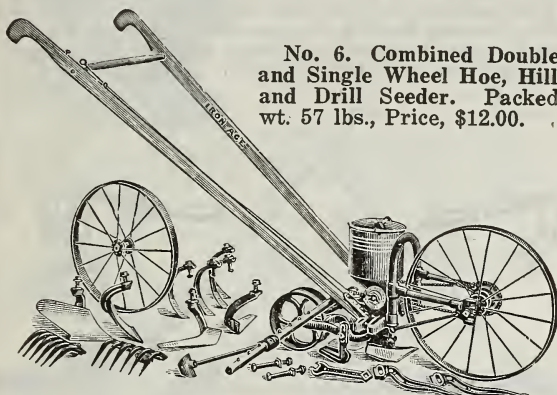
If you should desire a sprayer that is not catalogued write for our special spray catalog and we will help you figure out what you want.

WHAT TO SPRAY	FOR WHAT TO SPRAY	WITH WHAT TO SPRAY	WHEN TO SPRAY			
			First Spraying	Second Spraying	Third Spraying	Fourth Spraying
Apple	Codling moth or Apple worm San Jose Scale	Arsenate of Lead Lime-Sulphur solution	As soon as blossoms fall Late in fall, late in winter or early in spring	7 to 10 days later	Thirty days later	14 days later
Cabbage and Cauliflower	Scab or Rust Aphis Cabbage Worm	Bordeaux Mixture Kerosene Emulsion Bug Death or Slug Shot	Just before blossoms open When trees are in full leaf With first appearance of worms	Within a week after blossoms have dropped. In fall Whenever worms are observed	Same 7 to 10 days later Same Same	Repeat 10 to 14 days later Same Same
Cucumber	Cucumber Beetle	Arsenate of Lead in Bordeaux	Soon as plants appear.	Week later	Week after second	Week after third
Peach	Leaf Curl Rot and Scab Bud Moth	Bordeaux Arsenate of Lead in Bordeaux Lime and Sulphur	In fall or spring As buds are swelling With opening of buds	As buds are opening Just after calyx drops	Just after calyx drops Two or three weeks later	Not required if others are well done Repeat
Pear	San Jose Scale Scab Codling Moth	Lime and Sulphur Bordeaux Mixture Arsenate of Lead in Bordeaux	In late fall or early spring When leaves are half grown As with apples	After blossoms drop Same as first		
Plum	San Jose Scale Rot Curculio	Lime and Sulphur Bordeaux Arsenate of Lead in Bordeaux Lime and Sulphur	In late fall or early spring As buds are swelling With starting of buds	Just after calyx drops Just after calyx drops	Three or four weeks later	As fruit begins to color
Potato	San Jose Scale { Early Blight Scab	Bordeaux Arsenate of Lead in Bordeaux Lime and Sulphur Bordeaux	In late fall or early spring When plants are 6 inches high	Two weeks later	Two weeks later	Two weeks later
Strawberry	Leaf Spot	Bordeaux	Soak seed in Formalin (one pound to fifty gallons of water) for two hours	Two or three weeks later		
Tomato	Anthracnose	Bordeaux	On new growth after crop set	Two or three weeks later	Three weeks later	Three weeks later
Water Melon and Musk Melon	Leaf Blight Anthracnose Melon Beetle	Bordeaux Bordeaux Arsenate of Lead in Bordeaux	Three weeks after transplanting When plants begin to vine	Three weeks later Two or three weeks later	Three weeks later Two or three weeks later	Three weeks later Two or three weeks later Week after third

# IRON AGE GARDEN IMPLEMENTS

Garden Implements on this page shipped by freight or express at your expense

No. 6. Combined Double and Single Wheel Hoe, Hill and Drill Seeder. Packed wt. 57 lbs., Price, \$12.00.



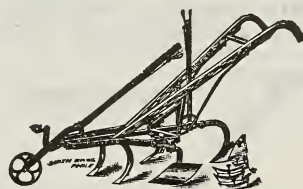
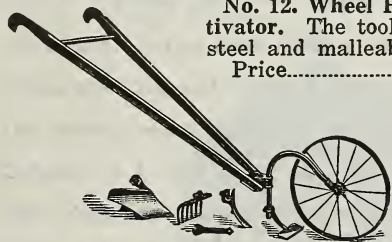
No. 4. Combined Hoe and Drill Seeder.



No. 4 same size and same tool as No. 6, but does not drop in hills.....\$11.00  
No. 5. As a drill only..... 8.00

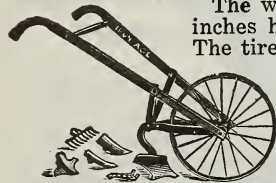
No. 6. Complete (like cut).....\$12.00  
No. 7. As a Hill and Drill Seeder only..... 9.00

No. 12. Wheel Plow and Cultivator. The tools are of best steel and malleable iron.  
Price.....\$3.50

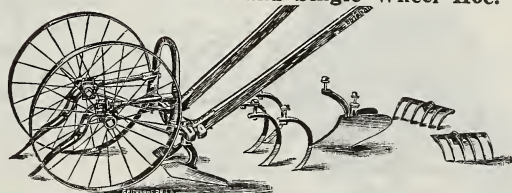


No. 6. Horse Hoe.  
Complete (like cut).....\$6.25

No. 19. Wheel Plow and Cultivator  
The wheel is made of steel, 24 inches high, and is very strong. The tire is 1 inch in width. The frame is made of steel throughout. The handles are made of best oak.  
Price complete with 5 tools.....\$3.25

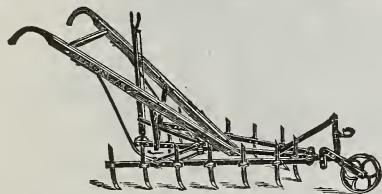


No. 1. Double and Single Wheel Hoe.



Packed weight, 40 lbs.  
No. 1. Complete (like cut), 10 tools.....\$7.00  
No. 3. Side Hoes only, 2 tools..... 4.25  
No. 13. Side Hoes and Teeth, 6 tools.... 5.50

No. 1. Combined Harrow and Cultivator.

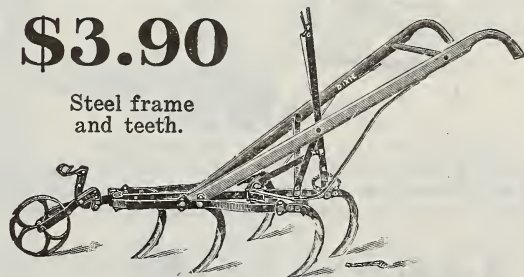


Price with lever expander as in cut, \$5.00

DIXIE ONE-HORSE CULTIVATOR

## \$3.90

Steel frame and teeth.



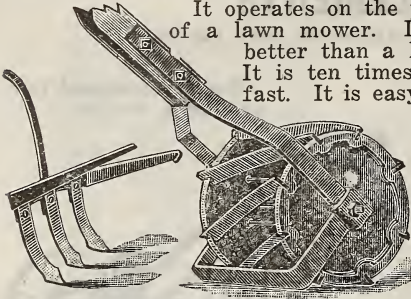
No. 1. Seven Tooth Cultivator. Price, as in cut, \$5.20.



ASK FOR SPECIAL IRON AGE CATALOGS OF HAND TOOLS, HORSE TOOLS, SPRAYERS, POTATO PLANTERS AND DIGGERS.

**BARKER WEEDER AND MULCHER**

It operates on the plan of a lawn mower. It is better than a hoe. It is ten times as fast. It is easy to

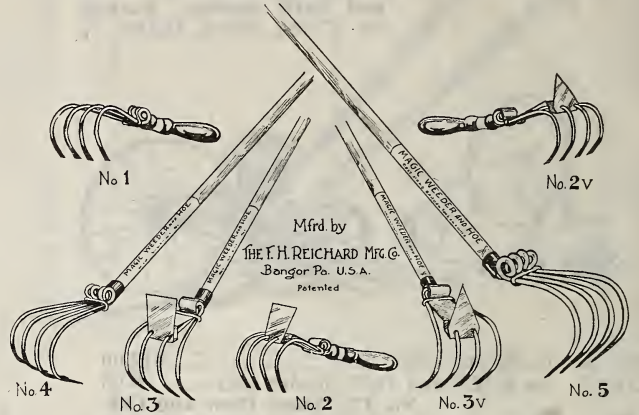


operate. It forms a dust mulch. Cut your weeds in your garden once a week. With the revolving blades in your Barker the surface of the ground is chopped, the weeds are cut, separated from the soil and thereby destroyed.

It cuts the weeds under the ground as well as the weeds out of the ground. Price complete, with three cultivator teeth and leaf guards, \$6.50.

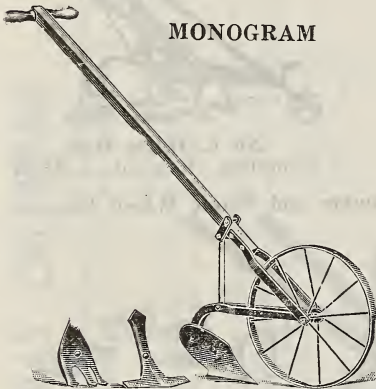
**MAGIC WEEDER AND HOE**

The best garden tool on the market. It does the work with half the labor, saving both time and strength. The tongs are formed so as to enter the ground the same as a garden plow, lifting and pulverizing the soil, leaving a dust mulch, thereby holding the moisture, which is so essential to the rapid growth of young plants. From the picture you get an idea of the different styles.



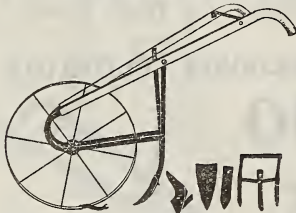
- No. 1. Short handle and without weed cutter. 30c each; 35c postpaid.
- No. 2. Short handle with weed cutter, like cut. 40c each; 45c postpaid.
- No. 2V. Short handle with V-pointed blade instead of weed cutter. 40c each; 45c postpaid.
- No. 3. Formed larger than No. 2 and with 4 ft. handle. 65c each; 72c postpaid.
- No. 3-V. Like No. 3 but blade V-pointed. 65c each; 72c postpaid.
- No. 4. Like No. 3 and 3V in size but without a blade. 50c each; 57c postpaid.
- No. 5. Extra heavy without blade. 75c each; 90c postpaid.

**MONOGRAM**



14-inch steel wheel, steel tools. Price.....\$1.75

**SUPERIOR NO. 2**



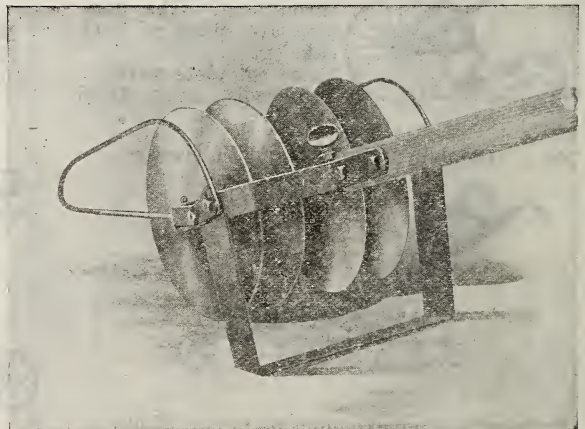
In this plow the center of weight falls directly over the pivoting point, making it self-balancing. Height of wheel, 24 in. Price, with 5 steel tools as in cut...\$2.50

**LANG'S HAND WEEDER**



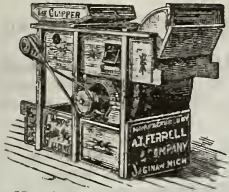
Weeder 25c; postpaid 30c

**PERFECTION**



The Newest Garden Cultivator. This new Disc and Knife Weeder and Mulcher is the final evolution in hand cultivators. It excels and supersedes all. A child can work it. It has no attachments, is complete in itself. The stiff wire leaf guards keep the tops of the plants away from the discs. It can be worked in gravel soil, through sticks and coarse straw or stubble of any kind. In stony land it works as well as in the softest loam. Price \$5.00 each; postpaid \$5.15.

Everything on this page by freight or express at your expense unless postpaid prices are given.



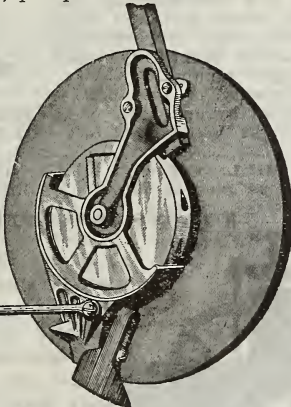
**NO. 1 CLIPPER FANNING MILL.** This is the small size of the fanning mill and seed separator used by all seedsmen. It will separate small seed from large, take out light seed, straw and weeds all at one time. Is equipped with ten screens, will fan seed. Send for large catalog of fanning mills. Price, complete.....\$21.00



**DOG CAKES**  
An especially prepared food for dogs, cats, rabbits, etc. Price, 25c.



**NICKEL PLATED MILKING TUBES**  
Use for sore and obstructed teats and hard milking cows. 2 inch, 2½ inch, 3 inch long. Price, 25c each, postpaid.



**EUREKA SEED DRILL**  
It will sow and cover Beets, Cabbage, Carrots, Celery, Lettuce, Onions, Radishes, Spinach, Turnips, and all such seeds with the greatest regularity, much better and faster than hand work. It is not a toy, but a strong, practical machine. Of course, when you have a large garden you will want our Iron Age Drill, but for a few vegetables the Eureka superb. It is the only machine suited to sow in a hotbed. Sows the smallest packet of seeds as well as a large bulk. Price 80c.



**HEDGE SHEARS.**  
Cast steel, notched, hand finished and burnished handles, 8-inch \$1.35; 9-inch \$1.60; 10-inch \$1.90.



**PRUNING SHEARS, 9-inch**  
forged steel, polished blades, volute spring. Price 65c.



**TREE PRUNERS.**  
Waters, cast steel blade, single. Wood pole, 6-foot handle, 75c; 8-foot handle, 90c; 10-foot handle, \$1.00.

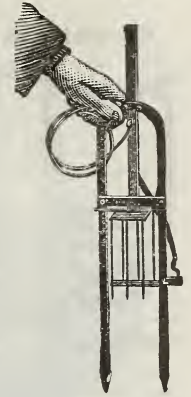


**NO. 136 PRUNER.** The best grade of forged steel. Handles 22 inches long. Price \$2.00.



**NO. 9 PRUNER.** A good grade of steel, with polished blades. Price \$1.00.

**LITTLE GIANT MOLE TRAP**  
Most simple and best trap on the market. Fully guaranteed to give satisfaction. Price 75c each.



**LITTLE GIANT SEEDER**  
Will sow anything broadcast and do it right. Price, \$1.75.

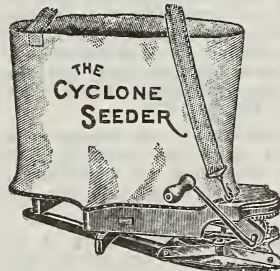
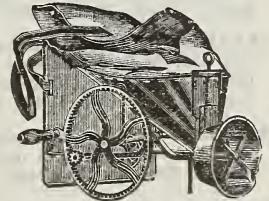


**GIANT TIN HORN SEEDER**

A light, accurate seeder that will broadcast clean seed from 30 to 40 feet. Price 75c.



**CAHOON SEEDER**  
The best machine of the kind in the market. The grain is held in a tight sheet-iron hopper surrounded by a bag which will hold a bushel of seed. Price, \$3.25.



**CYCLONE SEEDER**  
Simple in construction and easy of operation; has automatic regulator and cut-off, and performs its work perfectly. It is practical. Price \$1.65.

# POULTRY SUPPLIES

Everything on this page by freight or express at your expense unless postpaid prices are given.



**GRISWOLD'S CHICK FOOD.** This consists of millet, wheat and other seeds, grit, bone, etc., in such proportions as shall supply the young growing chickens with all that is necessary to secure health, vigor and growth. Is not only a money maker but saves much time in feeding. 8 lbs., 25c; 50 lbs., \$1.35; 100 lbs., \$2.50.

**GRISWOLD'S DRY MESH.** Is composed of corn meal, bran, oil meal, shorts, alfalfa meal and beef scraps in just the right proportions for laying hens. It is also very good for young chickens after they are about six weeks old. It should be fed in dry hoppers and kept constantly before the fowls. 10 lbs., 25c; 50 lbs., \$1.00; 100 lbs., \$1.90.

**GRISWOLD'S SCRATCH FOOD.** From 15 to 20 kinds of seeds and grains especially good for grown fowls. Do not confuse this with screenings. This has no waste whatever, no grit. 15 lbs., 25c; 50 lbs., 80c; 100 lbs., \$1.50.

**BEEF SCRAPS.** For laying hens may be mixed one part meat scraps to three parts crushed grain, bran or shorts. Wet with hot water, or skimmed milk preferred. Feed night and morning. 7 lbs., 25c; 50 lbs., \$1.75; 100 lbs., \$3.35.

**BLOOD MEAL.** This is pure, rich, dried blood. Very fine for incubator chicks, as it prevents loss from breaking down or leg weakness. Good to start hens laying. Feed one part blood meal to fifteen parts of mash. 6 lbs., 25c; 50 lbs., \$2.00; 100 lbs., \$3.75.

**ALFALFA MEAL.** Made from green, kiln-dried alfalfa hay and is 2 to 3 times more valuable than clover meal. Good for chickens or stock. 12 lbs., 25c; 50 lbs., 80c; 100 lbs., \$1.40.

**ALFALMO MEAL.** Same as alfalfa meal except that it is mixed with syrup, a decided addition. 12 lbs., 25c; 50 lbs., 80c; 100 lbs., \$1.40.



**CRYS-CO.** A shell producer and grit in one. It is the crystallized molluscan shell formation or petrified shell, nature's own product, and is mined and crushed coarse, medium and fine for the great American hen. 17 lbs., 25c; 50 lbs., 50c; 100 lbs., 85c.

**CRUSHED SHELLS.** If you expect your hens to lay eggs you must furnish them with something to make shell. 17 lbs., 25c; 50 lbs., 50c. Cam shells, 75c per 100 lbs.; Oyster shells, 85c per 100 lbs.

**POULTRY BONE** should be kept before poultry of all classes, at all times, especially where egg production is desired. They will be the best judges as to the amount they want. Young chickens should be permitted to get it at their pleasure. Large, medium, chick and meal. 8 lbs., 25c; 50 lbs., \$1.35; 100 lbs., \$2.65.

**CRYSTAL GRIT.** Not only your large fowls, but your small chickens must have grit. Most so-called chicken cholera is simply indigestion caused by lack of grit with which to grind the food. Large, medium and chick. 17 lbs., 25c; 50 lbs., 50c; 100 lbs., 85c.

**POULTRY MANUAL.** By Frank L. Sewell and Ida E. Tilson. A safe guide to successful poultry culture in all its branches, fancy and practical breeding and feeding; diseases and remedies, how to make farm poultry pay, etc. 12 mo. 148 pp. Price, paper, 25c. (40th thousand.)



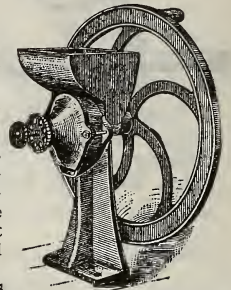
**CHARCOAL.** This is a most excellent ingredient to mix with mash. 5c per lb., 6 lbs. for 25c.

**TOBACCO DUST.** Sprinkle it around the chicken house and nest. It keeps away the lice. Per lb., 10c; 5 lbs., 35c; 10 lbs., 50c; 100 lbs., \$4.00.

**SULPHUR.** 10c per lb.; 3 lbs., 25c. Ask for prices in large lots.

## NO. 32 HAND GRINDING MILL

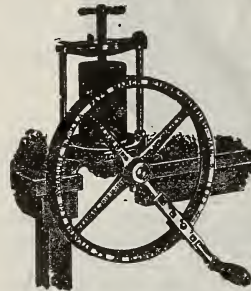
In this mill are embodied all the good features of other hand grinding mills, to which have been added universal burrs or grinding plates that are adjustable for grinding coarse or fine. This machine grinds oats, barley, rye, corn, peas, dry bone, shells, etc., for feeding to poultry. It is a well designed machine, is strong and well made throughout and of excellent finish, has a 16-inch fly wheel and is light running.



The capacity of this mill is not equalled by any other of the same size. Shipping weight 40 lbs. Capacity, 1 to 2 bushels per hour.

Price .....\$4.00  
**MODEL MILL.** Capacity, 1/2 to 1 bushel. Similar but not as good as above. Price.....\$2.50

## STEARNS' BONE CUTTER



It has automatic feed; is self-cleaning; is the fastest fine cutting machine on the market; will stand mere wear and tear; is least liable to get out of order; is the Only Bone Cutter that will not clog with gristle or meat.

Price .....\$9.00

## NEST EGGS

Lice Killer and Nest Eggs combined in one—effective, lasting, non-expensive.

Superior to others in form, size and appearance. They look exactly like natural eggs. Just the thing for laying hens.

5c each; 6 for 25c; 13 for 50c; 6 for 45c; postpaid.

## PORCELAIN NEST EGGS

Made of Flint Glass. 2 for 5c; 25c dozen; 6 for 25c; postpaid.



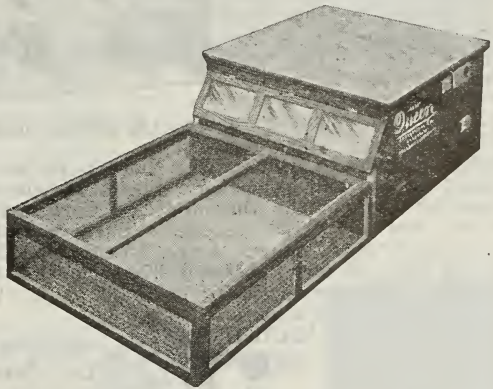
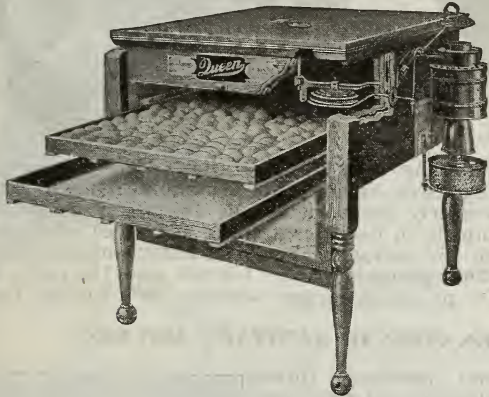
\*\*\*\*\*  
Platte Co., Wyo., Febr. 19, 1913.  
Your seeds have been very good, although two years old last season still every seed came up to our great surprise. The Millet did fine, also the Mangles. JOHN P. BELCIH.  
\*\*\*\*\*



# INCUBATORS *Queen* BROODERS

For a dependable hatcher that will operate under varied conditions with uniformly good results, the Queen Incubator is unexcelled. We can highly recommend this machine and guarantee it to do all that is claimed for it, and judging from the enviable reputation it has established for itself, it surely is making good.

For a mother that is always on the job the Queen brooder has no equal. Made in all styles, both indoor and outdoor, lamp-heated and lamp-less, sizes 50 to 200 chick. Every brooder is guaranteed and fully equipped, ready for business when you receive it. Hatch your chicks in a Queen Incubator, raise them in a Queen Brooder, to get the most profit from your poultry yard.



There are twenty-eight (28) reasons why the Queen excels all other makes regardless of price. Many others sell for fifty to one hundred per cent more than we ask for the Queen. The Queen is the Standard Hot-Water Incubator of the World, and so much as hot water excels hot air in heating, just that much is the Queen superior to any hot air machine.

Queen construction is the best. California Redwood case, double wall, and double lined with heavy deadening felt. Double doors, inner one glass, giving full view of egg chamber. Jacketed copper boiler and radiator, lock seam joints heavily soldered. Galvanized steel seamless lamp bowl, heavy brass burner of our own design to meet incubating requirements. Automatic heat regulator adjusted at factory under actual incubating temperature. Long, substantial legs, no stooping to turn eggs. Self-supporting egg trays and chick drawers, deep nursery to care for baby chicks when first hatched. Ventilation, automatic with adjustment for hatching time and hot weather. Adjustable metal shelf, metal egg tester, funnel, special mercury incubator thermometer. Big 24-page instruction book which tells how to set up and run the Queen for big results and also gives a large amount of information useful to the chicken raiser. These are but a few of the 28 special features to be found on the Queen.

### QUEEN INCUBATORS

No. 1, 60 to 70-egg size.....	\$10.00	No. 4, 220 to 240-egg size.....	\$18.00
No. 2, 110 to 130-egg size.....	12.00	No. 5, 340 to 360-egg size.....	23.50
No. 3, 160 to 180-egg size.....	15.00	No. 25, 520 to 540-egg size.....	31.50

### QUEEN INDOOR LAMP-HEATED BROODERS

No. 6, 50-chick size.....	\$ 5.90	No. 8, 150-chick size.....	\$ 7.75
No. 7, 100-chick size.....	6.85	No. 9, 200-chick size.....	8.50

### QUEEN OUTDOOR LAMP-HEATED BROODERS

No. 10, 100-chick size.....	\$10.50	No. 12, 200-chick size.....	\$14.00
No. 11, 150-chick size.....	12.25		

### QUEEN INDOOR LAMPLESS BROODERS

No. 26, 50-chick size.....	\$ 3.50	No. 28, 150-chick size.....	\$ 4.90
No. 27, 100-chick size.....	4.20	No. 29, 200-chick size.....	5.60

### QUEEN OUTDOOR LAMPLESS BROODER

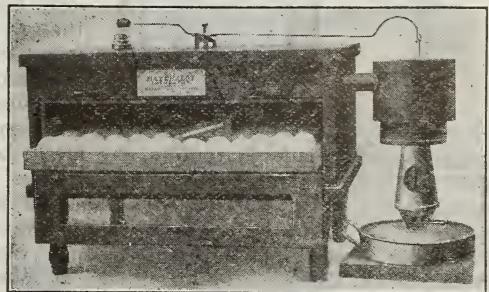
No. 30, 100-chick size.....	\$ 9.45	No. 32, 200-chick size.....	\$13.65
No. 31, 150-chick size.....	11.55		

All the above prices are F. O. B., Lincoln, Nebr.

Write for special prices with freight paid to your depot.

### SIXTY-EGG HATCHALOT INCUBATOR

This 60-egg Hatchalot Incubator is not only the best hatcher but the best incubator for the price on the market today. It is made of No. 1 Cypress; has a strong zinc and steel thermostat, in fact, is equipped with a complete, absolutely dependable regulating device. The boiler is large and so constructed that it will heat the incubator under any ordinary climatic condition. Its mild heat prevents evaporation of the moisture, so that all eggs with chicks in them will hatch, and every chick will be as large as the egg shell will allow. This Incubator is sold with a money-back guarantee.

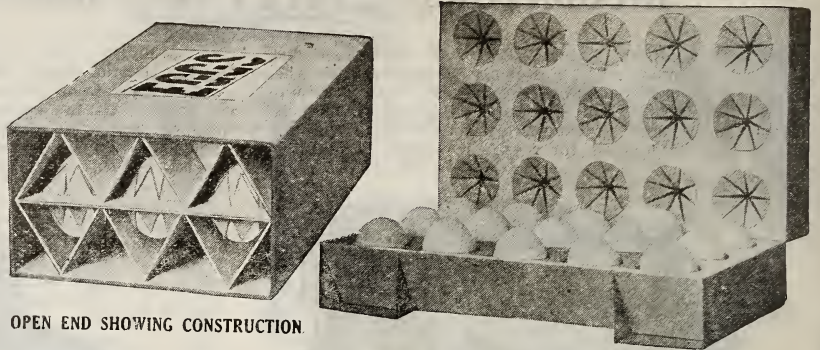


**PRICE \$7.50 BY FREIGHT OR EXPRESS**

HATCHALOT INCUBATOR.

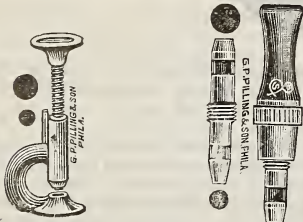
**DIAMOND EGG CASES**

Something entirely new and in a class by itself. The peculiar construction of the box, being made in V-shaped wedges, permits the use of very light material and still retains great strength. So easily put up that a child can put them together and pack the eggs on a moment's notice. The eggs do not come in contact with the outside of the box at all, having a cushion on all sides and being wrapped in tissue paper there is no jar, thus insuring safe transportation. The box can be sealed up and still be open for inspection, the only egg case having this desirable feature. The manufacturers of the Diamond Egg Carrier say if properly packed it can be dropped a distance of 6 feet and not harm the eggs. Each carrier is complete in itself, containing addressed label, gum paper and tissue paper. Price, 15-egg size, 20c each; 25c postpaid. Per doz. \$2.00; postpaid \$2.25. 25-egg size, 30c each; postpaid, 37c each. Per doz., \$3.00; postpaid \$3.30. 1 dozen size, 15c each; 20c postpaid. Per dozen, \$1.50; postpaid \$1.70. Write for prices on larger carriers; also Turkey, Duck and Goose Egg Carriers.



OPEN END SHOWING CONSTRUCTION

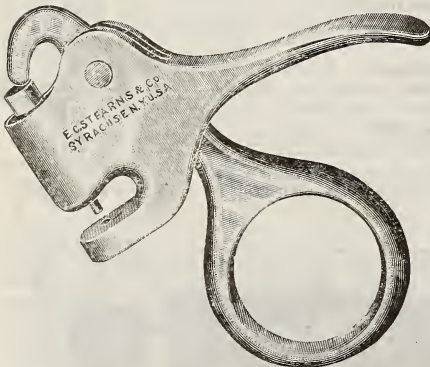
**POULTRY MARKERS**



No. 1  
No. 2  
Either kind 25c, postpaid

**STEARNS' NO. 17 POULTRY PUNCH**

This little tool is for marking poultry by punching through the web between the toes. It is light and handy to carry in the pocket. Nickel plated. Price 30c, postpaid.

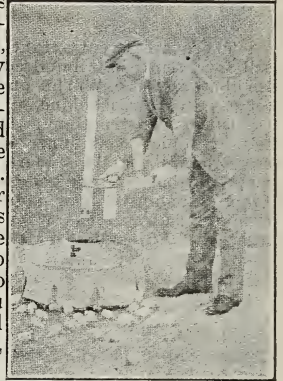


compartments made to contain dry mesh, beef scrap, grit, charcoal, oyster shells, etc. All are easily accessible for the fowls, and the machine is so constructed that none of the food can be wasted. This Exerciser Feeder has every advantage that can be found in an Exerciser of any kind. It eliminates all other feeding devices. Price, 40 qt., \$4.75; 20 qt., \$3.75, by freight or express.

**INTERNATIONAL SANITARY HOVERS**

The International Sanitary Hovers have stood every climatic test from Panama to Quebec. Practical Poultrymen, state experiment stations, and poultry judges endorse them. You can raise chicks anywhere with International Sanitary Hovers. No specially constructed houses are necessary. There is no place better than in your regular hen houses.

Sanitary Hovers are as practical for the small, back-yard poultry raiser as for the large poultry farms. They are ready for business wherever placed. No crowding or smothering of chicks—no kneeling in mud to get at the lamp. You want the best brooding device—you will get it in the Sanitary Hovers. Price, \$8.50 each by express or freight.



**SIX-IN-ONE EXERCISER FEEDER**

This Exerciser Feeder is just what its name implies. It is a large hopper supported on four strong iron legs and devised to hold all the food necessary for poultry. The center hopper holds the mixed grain or scratch food and is so constructed that a little agitator, which contains whole corn as bate, can be worked by the fowls so that it will scatter broadcast a small amount

each time of the dry grain mixture. It gives the hens the necessary exercise hunting for the grains so that it is impossible to overfeed. Surrounding this center hopper are six



**HENFRIEND WATER FOUNT**

Made of very best galvanized iron, cheap, practical and durable, protected from dirt, yet easy to clean; will not drown the chicks; easy to fill and carry as a pail. Keeps the water cool in summer. Filled with hot water in the morning will not freeze during the day in cold weather. A child can fill it. Price 2½ gal. size 60c; postpaid 70c. 1 gal. size 45c; postpaid 52c. ½ gal size for little chicks 30c each; postpaid 35c.



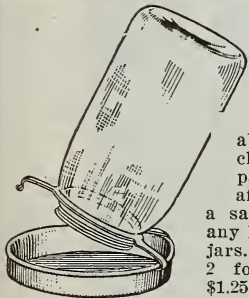
**SANITARY BROOD COOP**

Made of galvanized iron, it is mite, rat, weasel, mink and skunk proof. It can be taken down and put up in 40 seconds, the bottom can be removed for cleaning without taking the coop apart. It has three doors hung on one pivot; the first a slat door which lets the chicks out; the second, of one-half inch wire netting, for use on hot nights; the third door is of solid iron for cold and stormy weather. The coop is well ventilated but is entirely rainproof. It is approximately 18x24 inches square and 16 inches high. It can be carried with one hand to any convenient location. Price by express, each \$1.60; 6 for \$8.25.



**AUTOMATIC FEEDER AND FOUNTAIN**

Feeds water, grain, grit, etc., automatically. Is easy to fill and operate. Just lift trigger, as shown in above cut, which releases pan, clip remaining on jar, leaving pan without any obstruction, affording easy cleaning. Thus a sanitary fountain. Made to fit any Mason jar. We do not furnish jars. Price, 15c each, postpaid 20c; 2 for 25c, postpaid 30c; dozen, \$1.25, postpaid \$1.35.



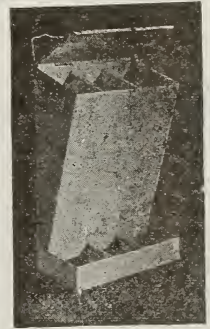
**LEADER ADJUSTABLE LEG BANDS**



Dozen 15c, 25 for 25c. 50 for 40c, 100 for 65c, postpaid.

**GRIT AND SHELL BOX**

Large; 2 bins 75c, postpaid 85c  
Small: 3 bins 50c, postpaid 60c



**CONKEY'S POULTRY REMEDIES**

EACH ARTICLE MUST SATISFY OR YOU RECEIVE YOUR MONEY BACK

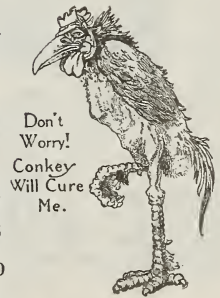
Send 4c to pay Postage, and get Big 50c Remedy Book FREE!

**By Express Collect**

Roup Cure.....	\$0.50
Roup Cure.....	1.00
Bronchitis Remedy.....	.50
White Diarrhoea Remedy.....	.50
Cholera Remedy.....	.25
Cholera Remedy.....	.50
Poultry Tonic.....	.25
Head Lice Ointment.....	.10
Head Lice Ointment.....	.25

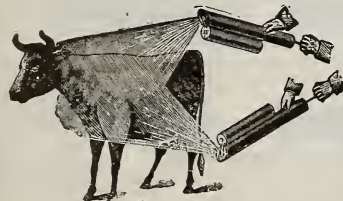
**By Express Collect**

Lice Powder (small).....	\$0.25
Lice Liquid (1 quart).....	.35
Lice Liquid (½ gallon).....	.60
Lice Liquid (1 gallon).....	1.00
Laying Tonic.....	.25
Laying Tonic.....	.50
Fly Knocker (1 quart).....	.35
Fly Knocker (½ gallon).....	.60
Fly Knocker (1 gallon).....	1.00



**STANDARD FLY AND GERM KILLER**

It is a liquid preparation designed for keeping flies from cows and horses, and is perfectly harmless. Most rapidly and economically applied with a sprayer. Put up in one gallon seal top cans, \$1.00. Sent only by express or freight at buyer's expense.

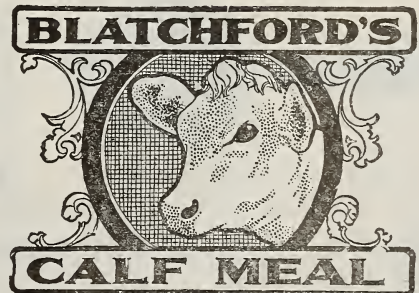


Special—One No. 1 Sprayer and one gallon Standard Fly Killer for \$1.25, by express, at your expense.

**CALF DEHORNER**

This comes in the shape of a pencil, and is very easily applied. Clip off the hair around the little horn at the time it feels like a button and before it starts through the skin. Dampen it a little with water, and rub it with the Dehorner material. This causes the horn to stop growing, and should be applied when the calf is from 5 to 10 days old.

Enough for 25 or 30 calves, price 50c, postpaid



**THE MILK SUBSTITUTE**

Blatchford's Calf Meal is for calves what Mellin's Food is for babies. Raises the finest calves at about half the cost of milk. Prevents scouring. By freight, 100 lb. bag (makes 100 gallons of rich, nutritious gruel), \$3.50; 50 lb. bag, \$2.00; 25 lb. bag, \$1.10. Try it and sell the milk.

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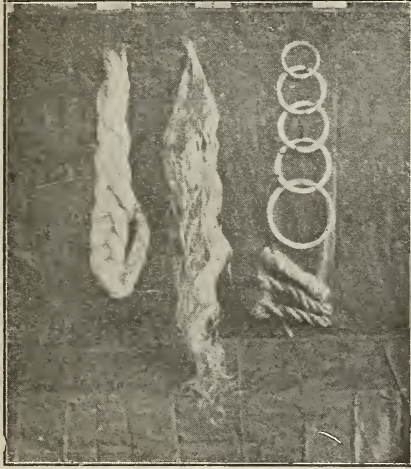
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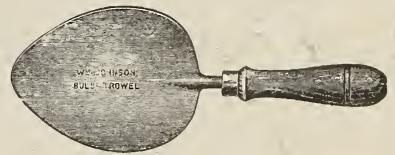
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