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SEEDS BULBS
ONLY ONE
THE BEST
QUALITY
PLANTS TOOLS

YVETTE
PROST

BIRDS
EGG

1917

DAYBREAK



ALPINE
BEAUTY

MARVEL
GERANIUMS

The full collection
of five plants

60¢

MARVEL



52ND Annual Catalogue
IOWA SEED CO.

DES MOINES, IOWA, U.S.A.

MARVEL GERANIUM COLLECTION

SPECIAL OFFER TO FLOWER LOVERS WORTHY OF FIRST PLACE IN OUR FLORAL BARGAINS

Five Fine, Thrifty Plants Postpaid to your Home for 60 Cents

You can have success and satisfaction with this collection

The geranium blooms so freely and continuously, is so free from disease and insect troubles, is so thrifty under good or bad conditions, that it is the popular flower among the masses of the people, and in this collection we offer you five of the newer and superior sorts which will delight with beautiful colors, bright markings and sturdy growth. The price is so low that all can afford to try this splendid bargain.

Yvette Prost This is a most magnificent single flowered variety. Color is bright violet rose with white eye, varying somewhat in size in different flowers, and shading to violet before reaching the outer portion of the petals, thus adding to the beauty and brilliancy of the flower truss. The plant is a strong, vigorous grower; does not suffer from sun scald or blight, is a free bloomer and very desirable for either summer bedding or winter blooming in the house. Each 15c; dozen \$1.50.

Marvel A flaming scarlet of splendid size, double form, vigorous growth and brilliant color. A fine variety for mass bedding because the many glowing trusses of large flowers make a dazzling show so bright as to instantly catch the eye even at a distance. A single plant will add the necessary touch of fiery red so essential in making a harmonious collection for indoor blooming. The habit of growth of this variety is all that can be desired either for summer bedding or house blooming. Each 15c; dozen \$1.50.

Daybreak A glorious pink, bright and beautiful. There are numerous pink geraniums, but we offer you the Daybreak in this collection because our experience, shows it to be the most profuse and persistent bloomer among the pink sorts. The blossoms are double, florets large and truss heavy, strong and borne well above the foliage, so that the flower is always in view in any situation. The plant is of vigorous growth and of good form, making it well adapted to outdoor bedding. Each 15c; dozen \$1.50.

Bird's Egg A wonderfully delicate and dainty combination of colors in the distinctive shading and markings of this flower. Our colored illustration is drawn from nature, but there is a native beauty in the blossom that is so elusive that it is almost impossible to convey it to paper. The exquisite shade in the dots of coloring, and the purity of the white ground in the petals on which the dots are laid are of nature's painting and beyond the power of the artist to reproduce. We do, however, give you a splendid picture of the flower, and from it you can grasp an idea of its extreme loveliness. Most people associate the idea of strong, hardy beauty with the geranium, and its popularity is largely based upon the flame of color and sturdy growth which are characteristics of this plant. But in the Bird's Egg variety we have strength and vigor of plant contrasted with a flower so dainty that it might well compare with the Rubrum Lilies in beauty and richness. Each 20c; dozen \$2.00.

Alpine Beauty This grand new French variety possesses all of the essential points that constitute an ideal geranium, enabling it to withstand our trying summers, being one of the best of the Bruant or sun-proof type, with very large, handsome, rich green foliage, zoned with dark green; of dwarf, vigorous and compact growth. Produces enormous trusses of pure white flowers on long stems held well above the foliage. The florets are very large and just double enough to give them a fine finish. Each 15c; dozen \$1.50.

MARVEL GERANIUM COLLECTION, 60 CENTS, POSTPAID.

THE STAR GERANIUM BED

One dozen each of the five varieties in the Marvel Geranium Collection, as described above, sixty fine, thrifty plants, enough for a splendid bed, by express, not prepaid, \$6.00. With every order we will send 1 oz. of Sweet Alyssum seed to plant for border around the Star Geranium Bed.



BIRD'S EGG GERANIUM

EVERGREEN LAWN GRASS

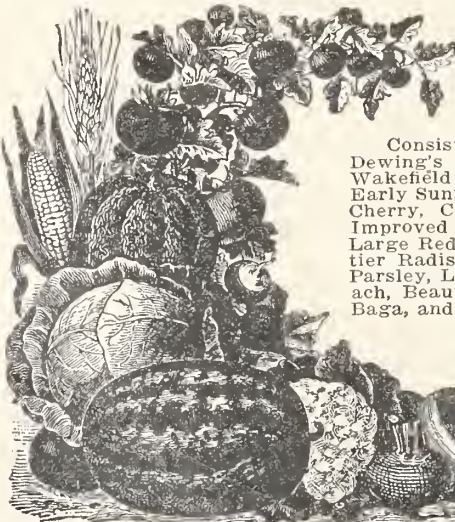
A Fine Close Turf Ready for the Lawn Mower Forty-five Days from Seeding

Every lawn needs building up. As long as you cut the grass continually without permitting it to go to seed, the original plants become weaker and fewer in number. Some new seed should be sown each year. This is not expensive nor does it require a great amount of labor. If the lawn is badly run down it is better to plow it up and re-plant it entirely. For either purpose, we recommend our Evergreen Lawn Grass. This grass seed is mixed by ourselves from new, choice seed, and in such proportions as are best to grow together to secure a continuous growth the entire season. During midsummer blue grass and some of the other grasses lie nearly dormant under the heat of the sun, and it is necessary to have grasses that will grow at this season of the year. These we have provided in our Evergreen Mixture, and we know from years of selling experience that Evergreen Lawn Grass gives satisfaction to our customers.

Per lb. 40c, 3 lbs. \$1.00, by mail, postpaid.

Price, not prepaid, 10 lbs. \$2.40; 50 lbs. \$11.00; 100 lbs. \$20.00.

"Complete Garden Collection"



35 Varieties Best Garden Vegetables

FOR \$1.00

All Good Desirable Sorts Sure to Please You

Consists of one full sized packet each of Valentine Beans, Old Homestead Pole Beans, Dewing's Beet, Swiss Chard Beet, Henderson's Snowball Cauliflower, Washington Wakefield Cabbage, Shortstem Drumhead Cabbage, Danvers Carrot, White Plume Celery, Early Sunrise Corn, Pharaoh's Dream Corn, Chicago Pickle Cucumber, Improved Ground Cherry, Curled Mosbach Kale, Monarch White Rice Popcorn, Continuity Lettuce, Improved Hanson Lettuce, Rocky Ford Musk Melon, Sweetheart Water Melon, Large Red Wethersfield Onion, Mammoth Prizetaker Onion, Iowa Challenge Peas, Charter Radish, Rosy Gem Radish, Improved Table Guernsey Parsnip, Market Gardener's Parsley, Large Bell Pepper, Early Crookneck Squash, Hester Squash, Bloomsdale Spinach, Beauty Tomato, Matchless Tomato, Purple Top Strap Leaf Turnip, Monarch Ruta Baga, and Vine Peach.

Total of 35 Full Sized Packets Sent Postpaid for \$1.00

At Our Regular Price They Amount to About Two Dollars

NOTICE: These collections are all put up ready for mailing before our busy season begins, and therefore cannot be changed or divided. Varieties described in Vegetable Seed Dept.

It is a Bargain. Can a Dollar be better Invested?

The best investment I ever made with one dollar was this spring when I sent to you for garden seeds. I wish you could see my garden. It's grand.—Mrs. David Horton, Caseville, Mich.

1865

1917

Fifty two Years Successful Business!

Des Moines, Iowa, January, 1917

Greeting to Our Customers

ESTABLISHED
1865

Our sincerest gratitude to our friends and customers can only be extended on this printed page. It seems but poor return for the many kind words of commendation and the generous patronage so freely given. We are very proud of the evidences of your friendship and it is a source of great satisfaction to note increasing confidence in our house and our CHOICE IOWA SEEDS. We want your patronage and will labor unceasingly to serve you in a satisfactory manner. It is a real pleasure to keep our friends and it is very gratifying to know that we please you with service and stocks supplied. We intend by careful and conservative conduct of our business to maintain our leadership and our place in the trade as

"SEEDSMEN TO THE AMERICAN PEOPLE"

OUR GUARANTEE

In trading by mail you have to buy seeds without seeing them. We protect you in this, however, because if any seeds from us are not satisfactory upon arrival and inspection, return them to us and we will refund the money you paid for them. With this agreement you can purchase your seeds of us in every confidence and just as well as though you traded over our counters. You are sole judge; all we require is that they shall be sent back to us within fifteen days from date of receipt by you. This applies to garden, farm and flower seeds. We cannot guarantee a crop, but we can and do guarantee to take seeds back that you yourself are not pleased with. The fifteen days will give you ample time to test them in any way you want. It will give you time to send samples for inspection, analysis or test to the State Seed Inspector or to the Agricultural Experiment Station. Our stocks will stand the closest scrutiny and we are ready to be judged accordingly. You will readily see that we could not make this offer unless our stocks were first class and would give satisfaction to the purchaser.



Retail Store and Office Building

TO OUR NEW FRIENDS

Each year this catalogue goes to a great number of prospective buyers who have never traded with us and are not acquainted with our stocks or methods. To such we desire to say just a few words of solicitation. This book is compiled with great care that it may be a help to you in your gardening and farming operations. Both text and illustrations are truthful in detail, and it will be found a real guide to better farms and better gardens. Read the catalogue carefully, weigh all the statements and send us a trial order. We will gladly leave in your hands the question of future and continued patronage. Each year our friends increase in number, and this increase comes because those who give us trial orders become firm friends and continuous patrons. We sell the best possible stocks at the lowest prices consistent with profitable merchandizing. Price, however, must be second to quality. You do not want poor seeds at any price. We affirm without qualification that our prices are as low as quality supplied will justify. We want your trade on a strictly business basis and will give value received in quality seeds for money sent us.

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

Order Early: The best time to order is just as soon as you receive this catalogue, as 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 order sheet, as it makes it more convenient for us in filling orders. You will note there are two order sheets enclosed; one for seeds, tools and miscellaneous goods, and the other for plants, bulbs and nursery stock. If you will use them as intended, it will greatly facilitate the execution of your orders. Terms are invariably cash with order, as we keep no book accounts in our mail order department, and the expense of sending goods C. O. D. is quite large. Postage stamps received the same as cash.

Shipping: There are five express companies and fifteen railroad lines at Des Moines, so that quick shipments can be made to any town in the United States.

Charges Prepaid: All Vegetable and Flower Seeds, Bulbs and Plants, except those noted, are sent prepaid by mail or express by the quickest and most direct routes, unless ordered otherwise, and we guarantee the safe arrival. Seeds sold by the peck or bushel, Field Seeds, Potatoes, Implements and other heavy goods are sent by freight or express, customers paying charges. Remember seeds go at special rates by express.

Seeds by Mail: Seeds, plants and bulbs may be sent by Parcel Post. The table of rates, page 2, gives amount of postage required on quantities over 1 pound. Miscellaneous merchandise may go by Parcel Post, and mailing weight is given on items of this kind.

Delivery: The point of delivery of all goods is on cars at Des Moines. When we quote a delivery price it means simply that we prepay the freight, express charges or postage.

Many of our farmer customers live at railroad stations where there are no agents. In such cases we must request them to send sufficient money to prepay freight charges on heavy shipments; also in cases where perishable or other goods are ordered to be sent by freight or express to such great distances that cost of transportation will nearly or quite equal the value of the goods.

Discounts: We have this year made the prices in this catalogue as low as our high grade seeds can be sold, and we can give no discounts. In ordering seeds in bulk you may deduct ten cents per pound on vegetable seeds, such as are listed prepaid. If you are willing to have them sent by express or freight at your expense.

Premiums: Each year we put up thousands of packets of new or particularly desirable varieties of seeds for free distribution to our customers. We will send these out with the seeds ordered by you and will treat you liberally in this respect. We shall also try to please our plant customers by adding something to their order when shipping it.

Our Responsibility: As this book will probably go into the hands of some who are unacquainted with us, this question will naturally arise, and in answer to same we refer you, by permission, to the People's Savings Bank of this city, to the postmaster, or to any express company.

What We Guarantee: That all money sent to us for seed shall reach us if sent us by registered letter, postoffice or express money order, or bank draft, made payable to our order. That your order will be filled promptly and well. That goods ordered will reach you safely. Keep a copy of your order. Sometimes persons think they have ordered articles which they have omitted, and blame us for not sending them.

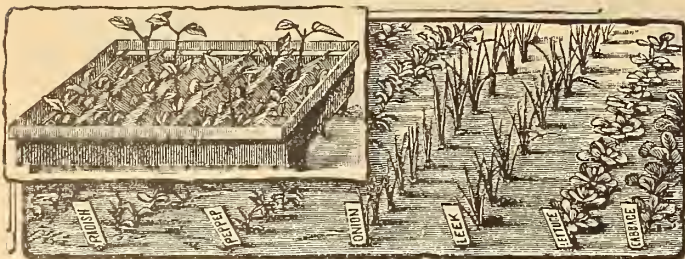
About Warranting: We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. When it is considered how many are the contingencies on which the success of any crop depends, such as sowing too deep or too shallow, too wet or dry soil, unfavorable weather, insects, etc., our customers will readily see that it would be sheer folly for anyone to warrant seeds to produce a perfect crop, and we want it plainly understood that while we exercise great care to have all seeds pure and reliable, and also true to name, we do not give any warranty express or implied as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the seeds on these terms and conditions, they are to be returned at once, and the money that has been paid for same will be refunded. No officer, agent or employee of this company is authorized to make any warranty whatsoever. However, we have so much confidence in our seeds that we hereby agree to refill any retail order for vegetable or flower seeds free of charge should they prove otherwise than as we represent them. We know of no responsible seed firm in the world which guarantees seeds any further than this. Compare with other seed catalogues and you will see that we are right.

Market Gardeners and others who buy vegetable seeds in bulk to the amount of \$5.00 or more are requested to send their list of seeds wanted to us and let us make special quotations.

Plant Orders: Orders for plants will be filled as early in the spring as we consider it safe to send them. If ordered for immediate shipment in severe weather they will be sent at purchaser's risk.

Small Orders: We take pains to fill orders promptly and correctly, no matter if only for but one packet of seeds, but we request that plant orders amount to at least 25 cents, and nursery stock to at least 50 cents, as otherwise they are filled at a loss to us.

VEGETABLE SEEDS



SEED TESTING AND TRIALS

up to the standard of purity and excellence, and are of the highest vitality, and the result is that we rarely have complaints as our Choice Iowa Seeds are sure to please. The vegetable seed department is under the personal supervision of the president of our company. He places the contracts, inspects the growing crops, superintends the farm operations in summer and during the busy months in spring he gives personal oversight to the order filling department.

Our stock of vegetable seeds we are sure cannot be excelled either in quality or selection by any firm in the country, as we watch our growing crops with great care, taking pains to isolate and keep pure and true to name. Every variety listed is desirable and has our recommendation. Our packets are, we believe, as well filled as any reliable seed dealer's in the United States, and, in fact, a comparison has shown that they contain more seed, on the average, than those of any other firm whose packets we have secured. We pay the postage on vegetable seeds at these prices, except on Beans, Peas and Corn at the 3 lb. and larger quantities.

We make it a rule to carefully test all seeds as soon as received from the grower, or as soon as they are brought in from our seed farms. We also carry on extensive trials on our grounds by which we are enabled to offer only those strains of seeds which come up to the standard of purity and excellence, and the result is that we rarely have complaints as our Choice Iowa Seeds are sure to please.

SEEDS BY PARCELS POST

BE SURE AND ADD ONE POUND ADDITIONAL TO COVER WEIGHT OF PACKING

Many of our friends will prefer to have their seeds come by parcel post rather than by express. There is not much difference in the cost of transportation by these two methods, but if you want the seeds to come by mail you must send postage, because it must be prepaid. We submit herewith a table showing the postage per pound to each state. This is figured in the way to be most easily understood by our friends. The only thing to remember is to add one pound over the actual amount of seeds you order to cover the weight of packing. For example, you live in Alabama and you order three pounds of Gradus peas by parcel post. You will add 24 cents to the price quoted in the catalogue. If you live in Illinois and want 15 lbs. of peas by parcel post, add 64 cents to the price in the catalogue.

If the postage you send is more than is necessary the surplus will be returned to you inclosed in a small envelope within the package. If you do not send postage we will take it for granted you want the goods forwarded by express or freight.

Remember that we pay the postage on garden seeds ordered by the packet, ounce, quarter pound or pound, no matter what the cost; but on larger quantities postage must be added if we are to send them by mail.

OUR POSTAGE RATE FROM DES MOINES TO ALL IOWA POINTS IS ONE CENT PER POUND.

STATE	Postage Per Lb.	STATE	Postage Per Lb.
Alabama	6 cents	Missouri	4 cents
Alaska	12 cents	Montana	8 cents
Arizona	8 cents	Nebraska	4 cents
Arkansas	4 cents	Nevada	8 cents
California	10 cents	New Hampshire	8 cents
Canal Zone	12 cents	New Jersey	8 cents
Colorado	6 cents	New Mexico	8 cents
Connecticut	8 cents	New York	8 cents
Delaware	6 cents	North Carolina	8 cents
Dist. Columbia	6 cents	Oregon	6 cents
Florida	8 cents	Oklahoma	4 cents
Georgia	6 cents	Oregon	10 cents
Guam	12 cents	Pennsylvania	6 cents
Hawaii	12 cents	Porto Rico	12 cents
Idaho	8 cents	Rhode Island	8 cents
Illinois	4 cents	Samoa	12 cents
Indiana	4 cents	South Carolina	6 cents
Kansas	4 cents	South Dakota	4 cents
Kentucky	6 cents	Tennessee	6 cents
Louisiana	6 cents	Texas	8 cents
Maine	8 cents	Utah	8 cents
Maryland	6 cents	Vermont	8 cents
Massachusetts	8 cents	Virginia	6 cents
Mexico	12 cents	Washington	10 cents
Michigan	4 cents	West Virginia	6 cents
Minnesota	4 cents	Wisconsin	4 cents
Mississippi	6 cents	Wyoming	6 cents

ASPARAGUS

(One ounce will sow forty feet of drill. For asparagus roots, see page 33.)

Asparagus is so easily grown and such a large quantity is produced on a small amount of ground that every garden should contain a bed. A bed ten feet square requiring 50 plants will give abundant supply for an ordinary family. Sow early in spring in rows a foot apart; keep clean by frequent weeding and hoeing. Ask for free circular giving instructions for making an asparagus bed.

COLUMBIAN MAMMOTH WHITE.—A new and entirely distinct variety, that produces shoots which are white and stay white as long as fit for use. Robust and vigorous in habit, and throws up larger shoots and fully as many as Conover's Colossal, and requires no earthing up in order to furnish the white shoots so much sought after. Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

PALMETTO.—Stalks frequently measure 2 inches in diameter, and even when 12 inches long are perfectly tender when cooked. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

CONOVER'S COLOSSAL.—The standard variety. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

ASPARAGUS ROOTS IN ONE AND TWO-YEAR-OLD PLANTS OFFERED ON PAGE 33.

ARTICHOKE



LARGE GREEN GLOBE ARTICHOKE

A great delicacy. A perennial producing the large flower heads, which are the part eaten, the second season and every year thereafter. Cook like asparagus and serve with cream or butter sauce. Sow seed and when weather becomes settled transplant in rows four feet apart and two feet in the row. When started early sometimes blooms the first year.

LARGE GREEN GLOBE.—The best variety for general use; buds large; scales green; very thick, fleshy. Pkt. 10c; oz. 35c; ¼ lb. \$1.00.

BROCCOLI

(One ounce will produce about 3,000 plants.)

Growth and habit like cauliflower, except more hardy, and heads are not so compact; not desirable for warm or dry countries. Cultivate and use same as cauliflower

EARLY LARGE WHITE.—The most popular sort. Has medium sized, creamy white heads. Pkt. 5c; oz. 35c.

I must say your garden seeds are first class and the largest packets I ever received from any company.—Mrs. Clarence Barker, Atwater, Ohio.

Your seeds are the very best I ever got anywhere. I had a very fine garden from your seeds and will recommend them whenever I can.—Mrs. Christ H. Westby, Burlington, Wisconsin.



COLUMBIAN MAMMOTH ASPARAGUS

CURIOUS VEGETABLES

ALPINE STRAWBERRIES.—Sown early will produce bearing plants first year. Pkt. 10c.
BRUSSELS SPROUTS.—See the left hand column. Pkt. 5c.
CARDON.—A plant grown for its large, thick leaves. Blanched and used like asparagus. Per pkt. 10c.
 "Vegetable Caterpillars." Grown as curiosities; for salads or pickles. Pkt. 10c.
CHUFAS, or Earth Almonds.—(See right hand column, this page.) Pkt. 5c.



ALPINE STRAWBERRY
Pkt. 5c.



COTTON

Start seed early and transplant. Has large, showy flowers, followed by boll of pure white cotton interesting to all. Pkt. 5c, oz. 10c.
CURRENT TOMATO.—(See description on page 31.) Pkt. 5c.
ENDIVE.—Called also Winter Lettuce. Excellent for late use. Pkt. 5c.
EGYPTIAN LENTILS.—It was from these that the dish of pottage was made for which Esau sold his birthright to Jacob in Bible times. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.
FRENCH SORREL.—Grown for and used as "greens." Pkt. 5c.
GARDEN HUCKLEBERRY.—(Illustrated in colors on back cover page.) Pkt. 10c.
GOURDS, Ornamental Mixed.—Pkt. 5c.
GROUND CHERRY.—(See description on page 14.) Pkt. 5c.
KOHL RABI.—(illustrated on page 14.) Per pkt. 5c.

MARTYNA.—Also called "Devil's Claw" and "Unicorn Plant." Ornamental plant, bearing beautiful flowers which are succeeded by large seed pods which when young are fine for pickling. Pkt. 5c, oz. 30c.



MARTYNA

OKRA, or Gumbo Plant.—(Described on page 21.) Per pkt. 5c.
ORNAMENTAL MICE.—Vegetable curiosity; bears small, neat, oval fruits, completely covered with long, light green spines or hairs. Pkt. 10c.
SCOLYMUS.—Grown for the roots, which are used like salsify. Pkt. 10c.
SEA KALE.—Is grown and used like Chard Beets, except it is perennial. Pkt. 5c, oz. 30c.
SNAILS.—Another singular variety having most oddly twisted seed pods resembling snails. Pkt. 10c.
SWISS CHARD.—(Illustrated on page 6.) For beet greens. Pkt. 5c.
VINE PEACH.—(Description p. 31.) Pkt. 5c.
WONDERBERRY.—Largely advertised. We offer it as a novelty. Fruits about as large as dried peas, blue black in color, with a peculiar flavor relished by some. Pkt. 10c.

COLLECTION OF ODD VEGETABLES

Persons exhibiting at fairs should grow some to help make attractive showing. Have something different.
ONE PACKET EACH OF THE ABOVE 22 VARIETIES FOR \$1.00, POSTPAID.

COLLARDS

(One ounce for about 3,000 plants.)

Collards are very largely used as "greens" in some parts of the country, especially in the South. They are a form of loose-headed cabbage.

GEORGIA.—The most satisfactory variety for general use. Pkt. 5c, oz. 10c, ¼ lb. 25c.

CRESS

EARLY CURLED.—A well known salad. Sow at intervals all season. Pkt. 5c, oz. 10c, ¼ lb. 25c.

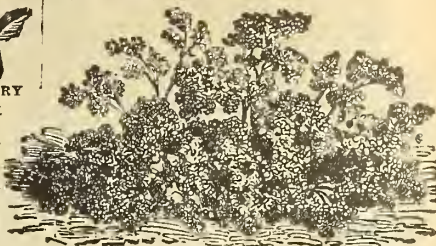
TRUE WATER.—Sow seeds along the running water. Pkt. 10c, oz. 35c.

UPLAND CRESS.—A perennial sort; hardy; produces well; same flavor as Water Cress. Grown on high, dry land; does not run to seed soon. Per pkt. 10c, oz. 25c.

I would like to say in regard to the seed I ordered last year that they gave good satisfaction and I was well pleased with them.—Mrs. John Gulick, Lansing, Iowa.

CHERVIL

(An ounce will sow 100 feet of drill.)
 Leaves used in soups and salads. Have a pleasant aromatic taste greatly liked. Cultivate like parsley. Pkt. 5c, oz. 15c; ¼ lb. 40c.



CHERVIL

CHICORY

LARGE ROOTED.—Used as a substitute for coffee. Cultivate the same as carrots. Take up roots in the fall, cut in small pieces and let dry. When wanted for use it is roasted and ground like coffee. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. \$1.00.



CORN SALAD

CORN SALAD

(One ounce will sow about 20 sq. ft.)
 Nice winter salad. Sow in September in drills. Just before cold weather cover with straw or leaves. Pkt. 5c, oz. 10c, ¼ lb. 25c.

FLOWER SEEDS FOR BEES

Below we offer seeds of a few flowers specially fine for sowing to furnish food for bees. They are all heavy producers of nectar, bloom quickly, and will bloom first year from seed, furnishing food during spring and summer until frost.

Mixed Flower Seeds for Bees, including Adonis, Sweet Alyssum, Asperula, Cleome, Pungens, Dracocephalum, Candytuft, Matthiola, Phacelia, Mignonette, and Sweet Rocket, in mixture, pkt. 5c, oz. 15c, lb. \$1.50.

POMEGRANATE.—Ornamental little fruit commonly grown in gardens a century ago, but now rarely seen. It grows on a pretty vine; fruit is round, yellow, and irregularly striped with orange, red or mahogany; fragrant; a specimen will perfume a room many days. Pkt. 10c, oz. 25c.



UPLAND CRESS



BRUSSELS SPROUTS

BRUSSELS SPROUTS

(One ounce for about 3,000 plants.)
 Of the cabbage family, producing numerous heads on the stem, of most delicious quality, with cabbage-like head at top. Use and cultivate like winter cabbage.

AMERICAN MAMMOTH.—Greatly superior variety of American growth, which forms heads about 3 weeks earlier than other sorts. It makes stronger plants and more heads. Profitable for market gardeners. Pkt. 10c, oz. 35c, ¼ lb. \$1.

ENGLISH.—Pkt. 5c, oz. 15c, ¼ lb. 45c.



CHUFAS

CHUFAS

A nice little ground nut greatly liked by children. Its flavor resembles the cocoanut. Very prolific, a single one yielding 200 to 400 nuts growing just under the ground and easily reached by pigs and poultry if they have access. Grow best in light, sandy soil, well fertilized. Plant in April, 10 inches apart, in 2½-ft. rows. Cover lightly. Soak seed before planting if very dry. Pkt. 5c, oz. 10c, ¼ lb. 20c.



OKRA

BEANS**DWARF BUSH VARIETIES**

(One pound will sow 50 feet of drill.)

Dwarf or bush beans require no support and may be planted in drills or hills. They do best if not crowded. Beans are tender annuals and cannot be planted until danger of frost is past. One pound will plant 100 feet of drill or 150 hills. Do not plant more than two inches deep. Never cultivate when the plants are wet. Prices for packets, quarter pounds and pounds include postage. Larger quantities go at customer's expense for transportation. If wanted by parcel post, add postage according to table on page 2.

Write for Prices on Large Quantities.

WAX POD SORTS

IMPROVED GOLDEN WAX.—In spite of all the new sorts of beans being introduced every year, our trade calls for more Golden Wax than any other variety. This great popularity is due largely to the fact that the strain we have is a great improvement on the old Golden Wax, having larger pods and being more prolific. This improved stock is one of the handsomest beans we have ever seen, the pods a rich golden yellow color and of perfect shape and rust proof. For family or market you make no mistake in planting them. Pkt. 10c, ¼ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. or over at 27c per lb.

GERMAN BLACK WAX.—This strain of Black Wax is in our opinion superior to that generally offered. Pods tender, round, fleshy and stringless. Pkt. 10c, ¼ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. \$1, 10 lbs. \$3, 25 lbs. or over at 27c per lb.



IMPROVED GOLDEN WAX

WARDWELL'S KIDNEY WAX.—Very popular with market gardeners on account of its handsome, clean, straight pods. Early and very prolific. Pkt. 10c, ¼ lb. 15c, lb. 50c, postpaid. Crop so small this year that we cannot quote in large quantity.

DAVIS WHITE WAX.—The best white seeded wax-pod variety. While other sorts may have superior qualities this bean does not show discoloration when cooked, and for that reason is preferred for canning. Pkt. 10c, ¼ lb. 15c, lb. 50c, postpaid. Cannot quote in quantity.

GREEN POD SORTS

STRINGLESS GREEN POD.—A stringless green pod bush bean. Surpasses all others in crisp, tender flavor. Finely shaped, long green pods, absolutely stringless; ready to market two weeks earlier than the Valentines. Of immense value, not only to market gardeners but also to amateurs who seek a rare quality early bean for home use. Pkt. 10c, ¼ lb. 15c, lb. 50c, postpaid. Not prepaid, 3 lbs. 90c, 10 lbs. \$2.75, 25 lbs. or over at 25c per lb.

BOUNTIFUL.—Vines strong, upright, with abundant heavy foliage. The pods, which are thick and broad and entirely stringless, are produced in greater profusion than any other bush bean. Resembles the well-known Yellow Six Weeks in habit of growth but is much more prolific and entirely stringless. You are hard to suit if this bean does not please you. Pkt. 5c, ¼ lb. 10c, lb. 40c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 22c per lb.

IMPROVED EARLY VALENTINE.—For many years the standard green pod variety. Very popular. About ten days earlier than the common Early Valentine. In addition, is more robust and vigorous and produces the true, round, curved pods very abundantly. Unexcelled in quality and uniformity of ripening; nearly the whole crop can be taken at one picking, usually within thirty-five days after planting. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 65c, 10 lbs. \$2.00, 25 lbs. or over at 18c per lb.



IMPROVED VALENTINE

REFUGEE, or Thousand to One.—A well known variety producing its fleshy, round, green pods in wonderful abundance. It is very tender and cooks quickly. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 65c, 10 lbs. \$2.00, 25 lbs. or over at 18c per lb.

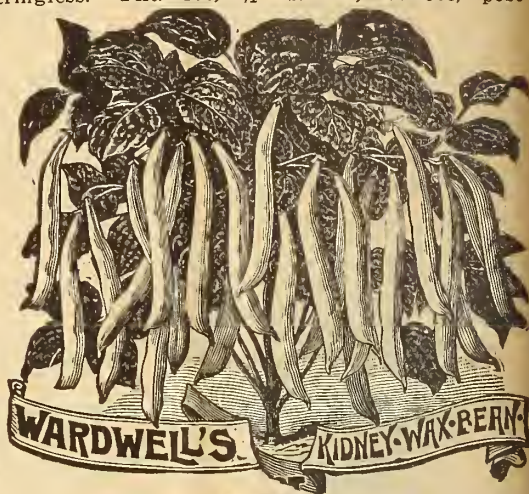
LARGE WHITE MARROW.—Fine as shelled bean. Beans are ivory white and double as large as Navy. Especially fine if used as soon as ripe, boiled or baked. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 22c per lb.

IMPROVED NAVY, or Boston Pea.—An improvement over the old-time Navy Bean. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 22c per lb.

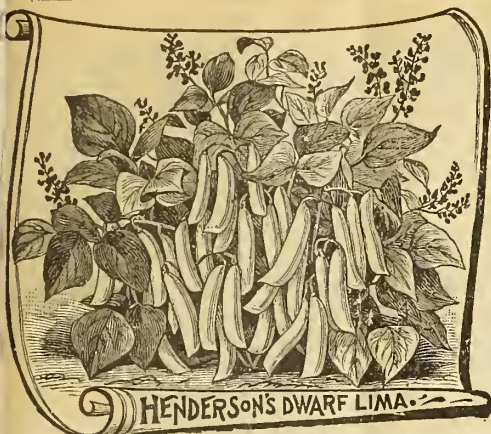
PROLIFIC TREE, or California Branch.—A valuable variety for field culture. It grows about 20 inches high, has stiff, upright branches and bears immensely. The beans closely resemble White Navy. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 22c per lb.

I have always been well pleased with seeds received from you and can recommend them to any one desiring first-class seeds.—Mrs. Elsie Ratliff, Geneva, Iowa.

I wish to thank you and tell you what I think of your seeds. I have the acknowledged finest garden in all our neighborhood.—Mrs. A. J. Darrow, Dixon, Illinois.



STRINGLESS GREEN POD



HENDERSON'S DWARF LIMA.

BEANS--CONTINUED

BURPEE'S BUSH LIMA.—A dwarf or bush form of the true large Lima which is of great value. They grow from 18 to 20 inches high, of stout, erect growth, yet branching and vigorous; an immense yielder. Does not always mature this far north, but makes excellent green shelled beans. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 50c, 10 lbs. \$1.60, 25 lbs. or over at 15c per lb.

HENDERSON'S BUSH LIMA.—A true bush Lima, and sure to ripen its enormous crop. Beans grow to good size and are excellent either green, shelled or dry. Produces a continuous crop from the middle of July until frost. Enormously productive. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. Not



BURPEE'S BUSH LIMA

CHINESE SAGO BEANS.—A very small variety from China, which is quite a curiosity. Pkt. 10c, ¼ lb. 20c, lb. 50c.

SOY BEANS AND COW PEAS for forage and hay crops are listed on page 56.

prepaid, 3 lbs. 50c, 10 lbs. \$1.60, 25 lbs. or over at 15c per lb.

ERFURT EARLY PROLIFIC BROAD.—We have inquiries for the English Broad Beans, but the leading variety, the Broad Windsor, does not succeed well in this country. The Erfurt is a greatly improved variety, very much earlier, more prolific and resists drouth better than any other kind. The plant is of robust, upright growth, entirely different from any ordinary variety of beans. Pods of handsome appearance. Plant in rows about 2 feet apart, and 6 inches apart in the row, covering 1½ to 2 inches deep. Pkt. 10c, ¼ lb. 15c, lb. 40c, postpaid. Not prepaid, 3 lbs. 75c.

Beans are a very short crop this year. We believe we have sufficient for our trade, but would advise you to order early to make sure of getting what you want.

POLE BEANS

Plant from five to six seeds in each hill, about two inches deep; one pound will plant 50 to 75 hills.

PLEASE NOTE

We are this year selling Beans, Sweet Corn and Peas by the pound. By this method there is no chance for short measures. For the purpose of estimating the quantity by those who are used to pecks and bushels, the Iowa legal weight per bushel of Beans and Peas is 60 lbs., and Sweet Corn 50 lbs. (shelled). A pound of Beans and Peas equals about a pint, and a pound of Sweet Corn is about 1¼ pints.



OLD HOMESTEAD

express, 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. or over 28c per lb.

SPECKLED CUT SHORT.—The old-fashioned cornfield bean so popular because it seems better than most pole varieties. Of good quality and a good yielder. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 65c, 10 lbs. \$2.25, 25 lbs. or over at 20c per lb.

GOLDEN CLUSTER WAX.—Considered the best of all wax pole beans. It bears profusely its long, golden yellow pods in clusters of from three to six, from the bottom to the top of pole, and continues in bearing from the middle of July until the vines are cut by frost. Pods are seven to eight inches long. They are quite flat but fleshy, absolutely stringless, very brittle and delicious. Pkt. 5c, ¼ lb. 10c, lb. 40c, postpaid. Not prepaid, 3 lbs. 85c, 10 lbs. \$2.50, 25 lbs. or over at 23c per lb.

KING OF THE GARDEN LIMA.—An improvement on the large White Lima. Pods are of enormous size. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 20c per lb.

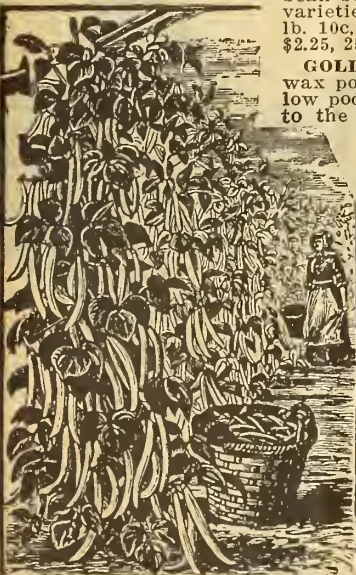
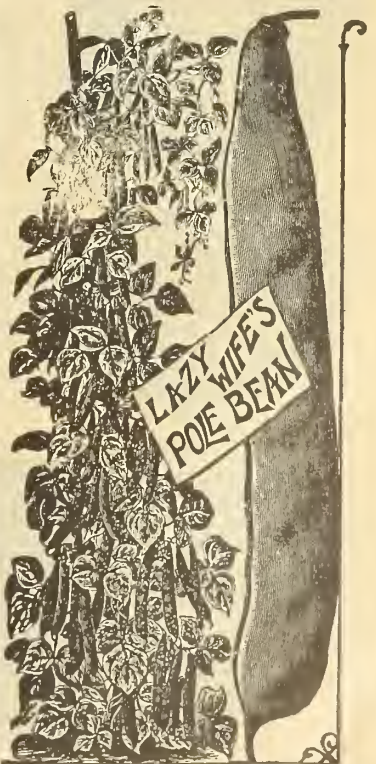
YARD LONG.—A great curiosity but withal an excellent variety. Produces pods fully three feet long. Splendid for use in green state as the pods are tender and of fine flavor. Pkt. 10c, ¼ lb. 25c, lb. 75c, postpaid.

SCARLET RUNNER.—Valuable for table use or as an ornamental vine. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 75c.

ARABIAN RUNNER.—Similar to the Scarlet Runner. Flowers white, striped scarlet. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid.

I received the last order in good shape and well pleased with it. Will favor you next spring.—Bertha Huston, Lenexa, Kansas.

We have never made any mistake in making purchases of Iowa Seed Co.—O. B. Barber, M. D., Zanesville, Ohio.



GOLDEN CLUSTER WAX

IT ONLY TAKES A LITTLE EXTRA WORK FOR POLE BEANS. THEY YIELD MUCH HEAVIER THAN THE DWARF KINDS.

BEETS

(One ounce sows 50 feet of drill; 4 to 6 lbs. for one acre.)

For early, sow as soon as ground can be worked, and from the middle of May for general crop, in drills 15 inches apart and 1½ inches deep. As the plants grow, thin to 6 inches in drills. Young plants make excellent greens. The soil should be a deep, rich loam. Hoe often, taking care not to bruise the roots.

CROSBY'S IMPROVED EGYPTIAN.—We believe this to be the earliest variety. Great improvement on the old Egyptian, being thicker, handsomer and more regular in shape, smooth with small tops and small tap root. Takes on its turnip shape and looks well even in early stages of growth, therefore it is preferred for forcing to any other variety. This is a decided advantage for a market where beets are sold in bunches. Very popular with Des Moines market gardeners for this purpose. Being a rapid grower, it may be sown outside as late as the first of August. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

EARLY CRIMSON GLOBE.—A very early variety, of spherical form. Skin very smooth and it is as handsome a beet as you can imagine. It is a rich, deep red color, shading to purple. Its flavor cannot be surpassed. When cooked it is of even, dark color throughout, and is attractive on the table. Of uniform shape and size. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

DETROIT DARK RED.—One of the best varieties grown for main crop. Its roots are round, very smooth, of good marketable size, and for table use no variety can excel it in fine quality. The skin is deep blood red; flesh is also dark red and is sweet and tender. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

ECLIPSE.—This variety is still exceedingly popular. It possesses all qualities requisite in a first-class beet, and is of uniform globular shape. Roots a bright, glossy red, fine grained and delicious. Pkt. 5c, oz. 10, ¼ lb. 35c, lb. \$1.00.

DEWING'S IMPROVED BLOOD TURNIP.—Improvement on the old Early Blood Turnip. Globe-shape, deep blood red color, fine flavor, a good seller and generally considered the most desirable variety for main crop and winter use. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.

IMPROVED MARKET GARDENERS.—Undoubtedly one of the best varieties ever introduced, and receives much praise from our customers each year. As will be noted by engraving, it is very symmetrical, with small tap root. Unusually small tops. Though on some soils the Egyptian can be marketed a few days before the Market Gardeners, still within a week it will be found larger than the Egyptian, while it continues to grow until late in the fall, attaining a large size, and making a good eating and selling beet for the winter. One sowing only is necessary to produce early beets for the market and main crop for winter use, which is not the case with any other variety. Its color is deep blood red; fine grained and unsurpassed in quality. Summing up, we find it the best beet for early market, the best for winter use. The most profitable for the market gardener and family gardens. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

GOLDEN GLOBE.—A distinct variety fully equal and by many considered superior to the red sorts in sweetness and flavor, but both the skin and flesh are of bright yellow color. When cut up in a dish with red beets, they make a handsome contrast. They mature early and are so sweet and nice that they should become popular. Pkt. 5c, oz. 10c.

LONG DARK BLOOD.—A well known variety. Smooth, tender and a good winter keeper. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

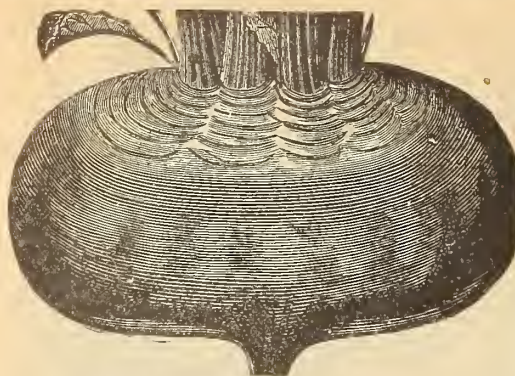
MIXED TABLE BEETS.—A mixture of the above varieties which will mature in succession so that one planting will give a supply all summer. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.

GIANT LUCULLUS CHARD.—Chard beets are growing in popularity. This variety is the largest and handsomest. Leaves are beautifully curved, and of a soft, clean shade of green. The thick, broad stalks are as large as rhubarb. They are prepared and served in the same manner as asparagus, or leaves and stalks can be used for "greens," and are considered by many superior to spinach for this purpose. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

SWISS CHARD, or Silver Beet.—This is the old standard variety with dark green leaves. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25.

I received your seeds all O. K. and in good shape. It is all good and comes up nicely.—William F. Behling, Boone Co., Iowa.

I find your seeds as satisfactory in this climate as I did back East. They are the best I ever used.—Mrs. S. S. Foster, Mendota, California.



CROSBY'S IMPROVED EGYPTIAN



MARKET GARDENERS BEET



DETROIT DARK RED



LONG DARK BLOOD



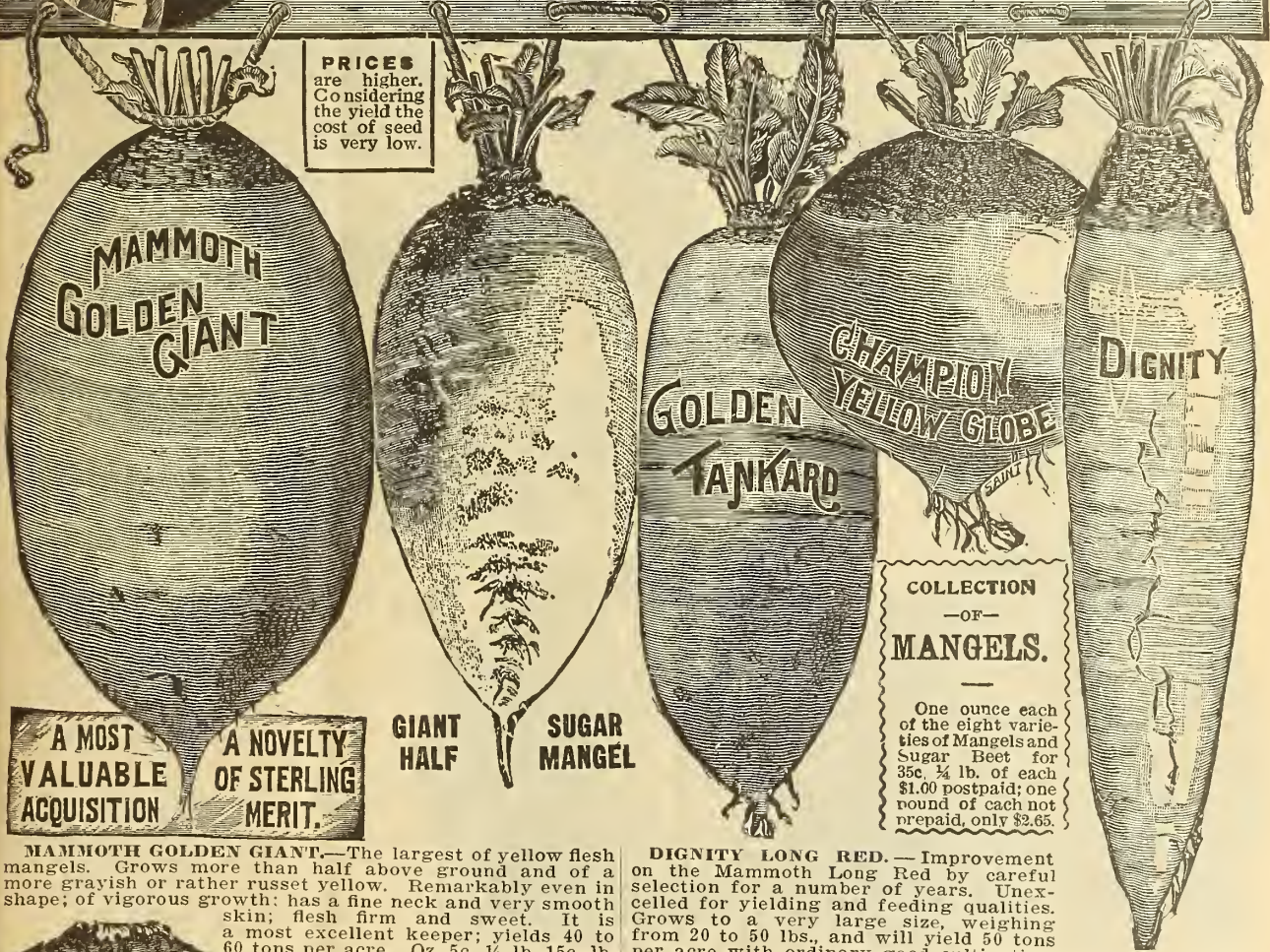
GIANT LUCULLUS CHARD BEET

MANGEL & SUGAR BEETS FOR STOCK.



EXTENSIVELY grown in all parts of the country for feeding stock. Sow in April or May in drills three feet apart, and thin to ten inches in the row. If your soil is deep and mellow, try the long varieties; if shallow the round kinds will do better. No crop pays the farmer and stockraiser better than mangels; 1,000 bushels to the acre is an ordinary yield, while, with good culture, 2,339 bushels have been grown to this amount of ground. It costs, counting labor, use of ground and everything, less than \$50 to raise an acre of mangels and gather and store them. This, for an ordinary yield, is a cost of only five cents per bushel. They make the cheapest of foods for all kinds of live stock—horses, cattle, sheep, pigs, chickens, etc. Easily grown, and they help to keep stock in good condition and free from disease. Dairy men claim that a bushel of mangels and a bushel of corn are worth more than two bushels of corn. Full directions for culture and storing mangels, will be sent on application. Use five pounds to an acre. Prices quoted by express are not prepaid.

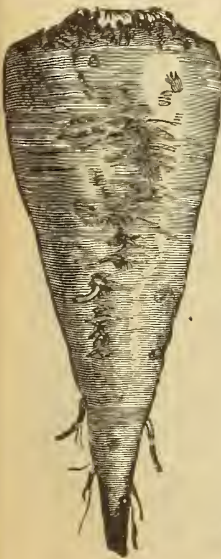
PRICES are higher. Considering the yield the cost of seed is very low.



A MOST VALUABLE ACQUISITION
A NOVELTY OF STERLING MERIT.

GIANT HALF SUGAR MANGEL

COLLECTION —OR— MANGELS.
One ounce each of the eight varieties of Mangels and Sugar Beet for 35c. ¼ lb. of each \$1.00 postpaid; one pound of each not prepaid, only \$2.65.



KLEIN WANZLEBEN

MAMMOTH GOLDEN GIANT.—The largest of yellow flesh mangels. Grows more than half above ground and of a more grayish or rather russet yellow. Remarkably even in shape; of vigorous growth; has a fine neck and very smooth skin; flesh firm and sweet. It is a most excellent keeper; yields 40 to 60 tons per acre. Oz. 5c, ¼ lb. 15c, lb. 50c. Not prepaid, 5 lbs. for \$2.00.

CHAMPION YELLOW GLOBE.—The finest type yellow globe in cultivation. Roots immense size, fine shape, small tap root, neat top. Flesh being very firm and fine grained renders it an excellent keeping variety. We recommend this variety as the best adapted to shallow soils. Our seed of this sort is particularly choice. Per oz. 5c, ¼ lb. 15c, lb. 50c. Not prepaid, 5 lbs. or more at 40c per lb.

GIANT SLUDSTROP.—This is a variety of exceptionally even growth, showing careful production of stock seeds for many years. Color is reddish yellow, excellent in shape, which resembles Golden Tankard, and is superior to that popular sort in every way. Contains more sugar, grows larger, more above ground and is therefore easier to harvest. It is the best of all mangels for feeding purposes. Per oz. 5c, ¼ lb. 15c, lb. 50c. Not prepaid, 5 lbs. or more at 40c per lb.

For five years past your seeds have been all right.—Mrs. Scott Asher, Trenton, Missouri.

I wish to say that seeds and plants bought of you last spring were a great success.—Mrs. E. M. Colten, Malcom, Iowa.

DIGNITY LONG RED.—Improvement on the Mammoth Long Red by careful selection for a number of years. Unexcelled for yielding and feeding qualities. Grows to a very large size, weighing from 20 to 50 lbs., and will yield 50 tons per acre with ordinary good cultivation, and if you want large crops of large mangels of good quality, don't fail to try Dignity. It is very uniform, smooth and of good shape. Should be grown on deep, loose soil. Per oz. 5c, ¼ lb. 15c, lb. 50c. Not prepaid, 5 lbs. at 40c per lb.

GIANT HALF SUGAR MANGEL.—A hybrid or cross between the Mammoth Long Red and Sugar Beet, and for our own feeding we have found it superior to either. Being sweeter, both cattle and hogs relish them greatly. As heavy a yielder as the mangels and equally as smooth. Per oz. 5c, ¼ lb. 15c, lb. 50c. Not prepaid, 5 lbs. or more at 40c per lb.

GOLDEN TANKARD.—Best for dairy farming. Considered indispensable among English dairy farmers; it is stated by them they are able to obtain a higher price for milk when feeding cows on Golden Tankard. Sheep thrive on it. Other mangels cut white, circled with yellow, but this is of a rich, deep yellow throughout. Early, hardy, a heavy cropper, and on account of shape the roots can grow close in rows. Oz. 5c, ¼ lb. 15c, lb. 50c. Not prepaid, 5 lbs. or more at 40c per lb.

KLEIN-WANZLEBEN SUGAR BEET.—This is the variety which is cultivated for the beet sugar factories, as it usually yields fifteen to twenty per cent of sugar. Root is of shape shown in our illustration, straight, tapering evenly and somewhat screw shape. Our seed is grown in Germany from beets which were tested as to per cent of sugar before setting out. The sugar makes it of great value for feeding. Per oz. 5c, ¼ lb. 15c, lb. 50c. Not prepaid, 5 lbs. or more at 40c per lb.

LANE'S IMPERIAL SUGAR BEET.—The largest of the sugar beets and the one usually grown for stock feeding. Yields heavy tonnage of beets with high percentage of sugar. Per oz. 5c, ¼ lb. 15c, lb. 50c. Not prepaid, 5 lbs. or more at 40c per lb.

CABBAGE

(One ounce will produce about 3,000 plants. Set 8,500 to 10,000 plants per acre, of early sorts, and 6,000 of large, late kinds.)

No vegetable is of greater importance than cabbage, and compared with the cost of seed, there is more money in growing cabbage than any other crop. It does not pay, therefore, to take any risk in buying seed. We have had our cabbage seed grown by the same growers for about twenty years past, and it has proven of uniformly excellent quality, so that we pride ourselves on having the purest and highest grade of cabbage seed that is offered, or at least it is surpassed by none. The cabbage requires a deep, rich soil and thorough working to insure good, solid, full-sized heads. Sow early sorts in hotbeds about six weeks before time to set out the plants in the field or garden. Transplant to rows three feet apart. Our packets contain about 800 seeds. Slug Shot and tobacco dust are used to kill insects and worms.



EXTRA EARLY EXPRESS

EXTRA EARLY EXPRESS.—The earliest variety in existence and produces rather small heads long before the Jersey Wakefield or other varieties have begun to head up. Heads solid, have few outside leaves, and can therefore be planted very close and yield a large crop. It is a most important variety for the gardener. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

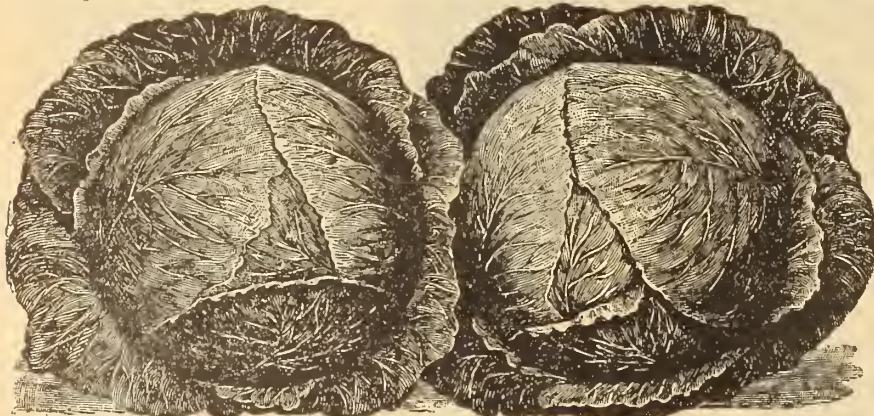
BURPEE'S ALL-HEAD EARLY.—This is the earliest of the flat-headed cabbages, of larger size than early varieties generally, of perfect shape and it makes exceptionally solid heads. It was originated by the late C. L. Allen, of Long Island, N. Y., but named by Mr. Burpee, who purchased the first crop and gave it his name. Our seed is grown from the original stock so that we have as good stock as can be purchased. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

WINNINGSTADT.—A cone-shaped summer sort which can also be used for winter keeping if planted late. A sure header, solid and of excellent quality, and is generally preferred among cone-shaped sorts for general crop. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.



EARLY JERSEY WAKEFIELD.—Considered by many gardeners the very best first early variety. Of large size for so early a kind and is certainly deserving of its great popularity. Heads hard and solid, and have few outside leaves. Our seed is highest quality, American grown. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

NEW WASHINGTON WAKEFIELD.—A grand variety, a trifle later than Jersey Wakefield; produces much larger heads, of perfect pyramidal shape, very solid, with few outside leaves. One cabbage grower, who is enthusiastic in its praise, says: "It is first in head, first in market, and first in the hearts of gardeners." It grows remarkably uniform, heads are of even size and shape. Unequaled for market or family garden. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.



COPENHAGEN MARKET

COPENHAGEN MARKET.—A splendid new early flat head cabbage. Matures as early as Jersey Wakefield, has few leaves and is remarkably hard and solid. Grows compact, takes but little room and matures with a short stem. We tested it on our own farms before offering it to our trade. We recommend it without reservation. It is a carefully bred variety from Denmark and the type and quality are thoroughly fixed. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.15, lb. \$3.50.

IMPROVED DANISH BALLHEAD, or Hollander.—This variety has been selected and perfected for more than fifty years by the Danish gardeners. They grow it almost exclusively for winter cabbage. Heads round, good sized, solid and very fine grained. Has but few outer leaves. A good keeper, tender and crisp, with little waste heart. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

HENDERSON'S SUCCESSION.—An excellent variety of large size and with flat head maturing in midsummer. It can be brought to perfection in the hottest weather or used as an autumn or winter crop. Heads 10 or 12 inches in diameter, frequently larger, average about 12 lbs. Many varieties are offered as a second early cabbage but we believe the Succession will prove first in general excellence. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

ALL SEASONS.—(Vandergaw)—This is a medium early variety, but is hardy and can be planted in the middle of summer for late cabbage, hence its name. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

I have bought seeds from you for several years past and expect to continue to as long as I can get such seeds as you have always sent me.—Harry Bassindale, Hageman, Idaho.

The seeds purchased from you last year produced the finest vegetables we have ever raised.—N. B. Larson, Powells, Nebraska.



HENDERSON'S SUCCESSION

YOU ARE CERTAIN TO HAVE GOOD CROPS OF FINE CABBAGE IF YOU PLANT OUR SEED. WE SELL NONE BUT THE BEST.

CABBAGE--CONTINUED

IOWA SEED CO.'S SHORT-STEM DRUMHEAD.—Our improved and selected strain which has greatly pleased thousands of our customers in the past, and so greatly is it improved that in a large field it is almost impossible to find a head that is not solid and well formed. For sureness in heading, regularity of growth, and even, large, solid heads, it far surpasses any other strain of late cabbage, ripening evenly, with very short stem or stalk, and large, thick heads of silky fine quality and best keeping properties. Almost all head and always sure to head. Pkt. 5c, oz. 25c, ¼ lb. 75c, lb. \$2.50.

SUREHEAD.—This popular cabbage is rightly named Surehead and never fails to make a remarkably fine, solid, large head with few outer leaves. Strong, vigorous grower; ripens late. First-class main crop sort. Is of the Flat Dutch type but heads are somewhat rounded in form. Equal to that well known sort in keeping qualities. Pkt. 5c, oz. 25c, ¼ lb. 75c, lb. \$2.50.

PREMIUM FLAT DUTCH.—This old and well known variety is still the standard winter kind. Heads are large, solid and it is a first-class keeper. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$2.

Your seeds were very satisfactory last year. In fact, my garden was the best in all this country.—Mrs. W. W. Smith, Wagar, Alabama.



SUREHEAD



VOLGA.

VOLGA.—For uniform growth, shape of head and hardness we have never seen its equal in a large heading variety. Plant is nearly all head, having few outside leaves. The head is nearly as round as a ball, hard and solid. In a field of three acres in Long Island there was not a single plant thrown out or one that showed any variation from the true type. Quality is very fine both for cooking and kraut. Can be set out in the middle of July in this latitude; will mature large, solid heads in October. Plants are so compact that they can be set out 1½ x 3 feet and will produce enormous crops on good land. Pkt. 10c, oz. 35c, ¼ lb. \$1.00, lb. \$3.50.

RED AND SAVOY CABBAGE

MAMMOTH RED ROCK.—Is the largest of the red cabbages, solid, heavy, and a good keeper. Pkt. 5c, oz. 30c, ¼ lb. 90c, lb. \$3.00.

ZENITH RED.—Medium early, medium size; handsome dark red color; by far most attractive red sort. Its small ribs and thin leaves very close together make it extra solid. Pkt. 5c, oz. 30c, ¼ lb. 90c, lb. \$3.00.

PERFECTION DRUMHEAD SAVOY.—Has curled leaves and of finer flavor and quality than ordinary kinds. Our strain is a sure header; heads large and solid. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$2.00.

I. S. CO.'S SHORT STEM DRUMHEAD.



OUR AMERICAN GROWN CABBAGE
Is not surpassed by any in the world. It has given satisfaction to our customers for many years.

CAULIFLOWER

(One ounce will produce about 3,000 plants.)
One of the most delicious of vegetables. Requires similar treatment to cabbage. Does not head well during the hottest weather in summer. Sow the seed early for an early crop and again in June or July for late heads. Our Danish Giant is excellent for late crop.

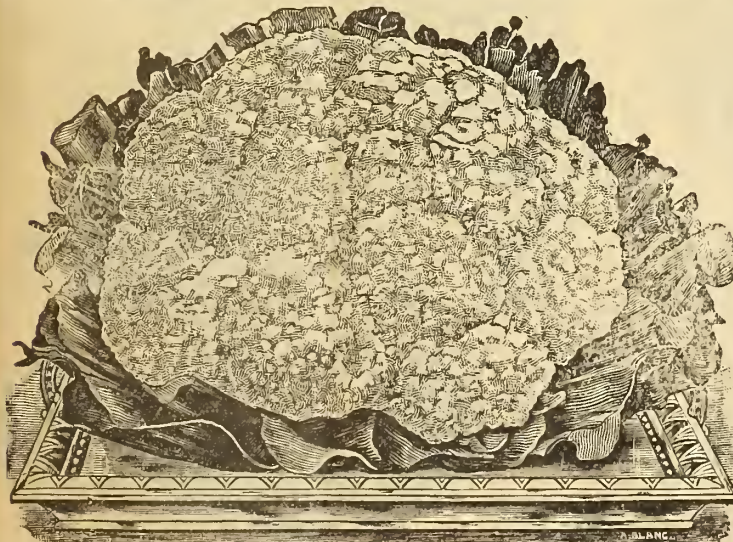
HENDERSON'S EARLY SNOWBALL.—Considered the earliest and more certain to make a head than any other sort. Its dwarf habit and short outer leaves allow it to be planted as close as 18 to 20 inches apart each way, thus making it especially valuable to market gardeners. Our stock is extra choice, and cannot be excelled. We believe it to be the best in the world. Pkt. 15c, ¼ oz. 60c, oz. \$2.00.

DANISH GIANT, or Dry Weather Cauliflowers.—A strong competitor for first place. Heads extra large, pure white and very solid. Has large leaves which protect the head. About 10 days later than Snowball, but has proved more desirable for growing in open ground and does well in dry seasons when other varieties show failure, keeping plump and fresh during the hottest, driest weather. Pkt. 15c, ¼ oz. 60c, oz. \$2.00.

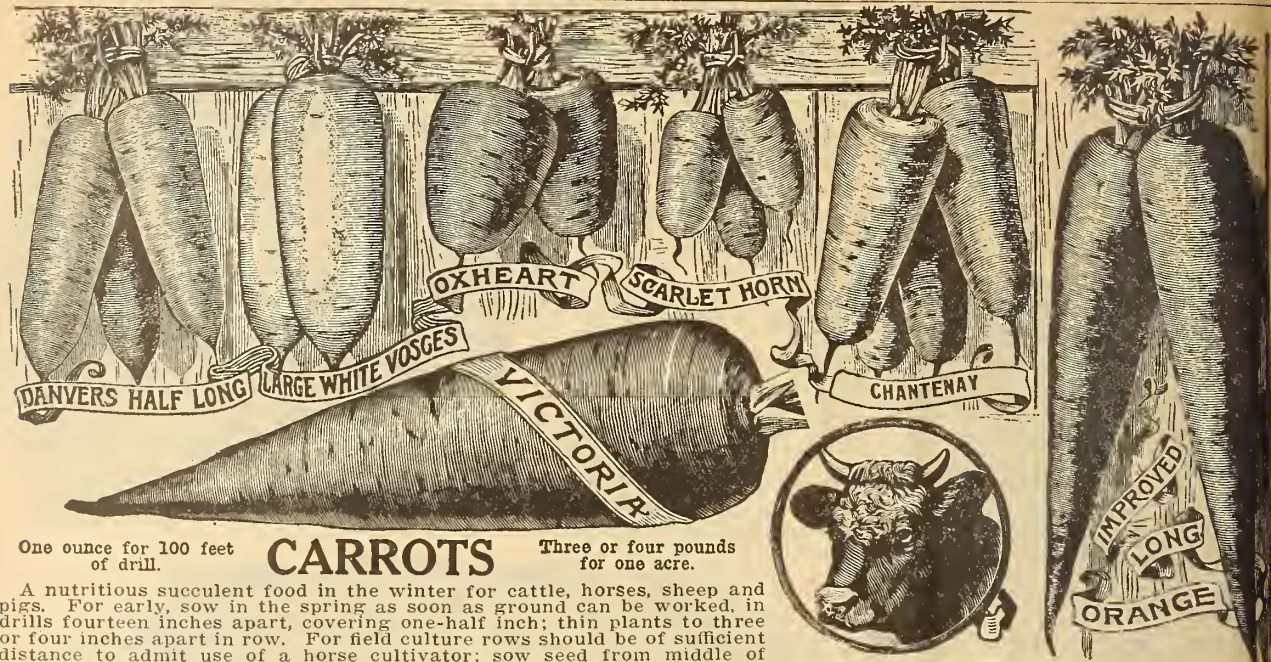
EXTRA EARLY DWARF PERFECT.—Is valued for forcing. A very popular variety. First quality. Pkt. 10c, ¼ oz. 50c, oz. \$1.75.

EARLY PARIS.—Well known small sort which is usually quite satisfactory. Pkt. 5c, oz. 20c.

LENORMAND'S.—A late variety of large size and fine quality. Pkt. 10c, oz. 60c.



HENDERSON'S SNOWBALL CAULIFLOWER.



One ounce for 100 feet of drill.

CARROTS

Three or four pounds for one acre.

A nutritious succulent food in the winter for cattle, horses, sheep and pigs. For early, sow in the spring as soon as ground can be worked, in drills fourteen inches apart, covering one-half inch; thin plants to three or four inches apart in row. For field culture rows should be of sufficient distance to admit use of a horse cultivator; sow seed from middle of April to first of June. A light, sandy loam, deeply tilled, is best.

EARLY SCARLET HORN.—Favorite extra early variety. Very early. Orange-scarlet, fine grained, and agreeable flavor. Top small, short, stump-shaped root; grows well in shallow soil. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

OXHEART, or Guerande.—Most valuable variety in existence. Intermediate between Half-Long and Horn sorts; diameter 3 to 4 inches at neck; beautiful shape; rich orange color. Easily pulled, early as any, best quality all season. Has yielded 1,200 bushels per acre. Cut tops with scythe; pull with potato hooks. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

DANVERS.—Is in form about midway between the Long Orange and Shorthorn class, growing generally with a stump root. It is of a rich, dark orange color, grows to a large size, is smooth and the flesh very close texture, with little core. It is a first-class carrot for all soils. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

CHANTENAY.—Most desirable early variety for bunching and, although a trifle later than the first earlies, will yield so much handsomer roots and larger crop that everyone is

pleased with it. Splendid variety for market or feeding purposes. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

IMPROVED LONG ORANGE.—Desirable for garden or field. Grows to large size, averaging 12 inches in length and 3 inches in diameter at the top. This is the standard long variety, preferred to Victoria by some because of its deeper orange color. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

VICTORIA.—Largest carrot grown, heaviest cropping and most nutritious; roots remarkably fine, light orange, symmetrical, excellent quality, of high feeding properties; good keeper; heavy cropper on all soils; best adapted for rich land; grows half as much weight again per acre as other sorts; grows well out of ground; easily harvested. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 90c.

LARGE WHITE VOSGES, or Improved Short White.—A stock variety which is enormously productive and easy to harvest. Color light green above ground, white below; flesh rich, white, solid and crisp; heavy yielding. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 90c.



WINTER QUEEN.

golden yellow and very attractive. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$2.00.

GIANT PRAGUE CELERIAC.—Instead of producing long leaf stalks like ordinary celery it has a turnip-like root with true celery flavor. Largest, smoothest, best. Fine for salads and flavoring. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$2.

I have used your seeds for four years and have always had good success with them, as they all grow nicely.—Miss Belle Owen, Crossingville, Pennsylvania.

CELERY

One ounce will produce about 6,000 plants.

For first crop sow early in hotbeds, or in boxes in the house, in rich, moist soil, covering seed very lightly. For main crop sow in open ground in April. If the weather is hot and dry protect with light covering of hay or straw. Stir soil when plants are well up; thin out and transplant so they stand about an inch apart in the row. If they grow too rapidly, shear tops off when about 4 or 5 inches high. For main crop set out between June 15th and July 15th, in rows 3 feet apart and 6 inches apart in the row. Firm the earth well when setting and they will root better. Keep clear of weeds.

GOLDEN SELF-BLANCHING.—By far the most popular sort; of medium earliness and dwarf, compact habit, with thick, solid, heavily ribbed stalks which blanch easily to a clear, waxen yellow. Grown in rich, moist soil, the stalks are numerous and large, with a solid heart of beautiful yellow. Pkt. 10c, oz. 75c, ¼ lb. \$2.25, lb. \$7.50.

WHITE PLUME.—Stalks, portions of the inner leaves and heart naturally white, and become fit for use by simply tying up closely with soft twine. More used than any other by gardeners. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$2.00.

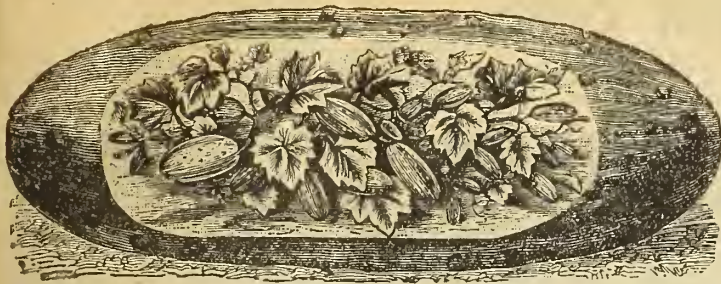
ROSE-RIBBED SELF-BLANCHING.—A sport from Golden Self-Blanching, having all its good qualities; the additional attraction of beautiful rose-tinted ribs makes it very handsome. Pkt. 5c, oz. 30c, ¼ lb. 90c, lb. \$3.00.

WINTER QUEEN.—Finest dwarf celery. Large bunches of heavy stalks of even length; excellent table quality. Pkt. 5c, oz. 20c, ¼ lb. 65c, lb. \$2.25.

GIANT PASCAL.—A late variety of superior keeping qualities. Very large, solid and crisp; a rich, nutty flavor. Blanches easily. The heart is



GIANT PRAGUE CELERIAC



EARLY EXPRESS.

EARLY EXPRESS.—This is by all odds the earliest variety in existence. Quality is the very best, being free from any rank, strong flavor, and is as fine for slicing as any later sort. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

**IOWA
STANDARD**

IOWA STANDARD.—The handsomest of long green varieties. Color is beautiful dark green, and they do not turn yellow with age. Fruits measure 12 to 15 inches in length and are smooth and symmetrical. Flesh is firm, crisp, white, and the flavor is most excellent. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

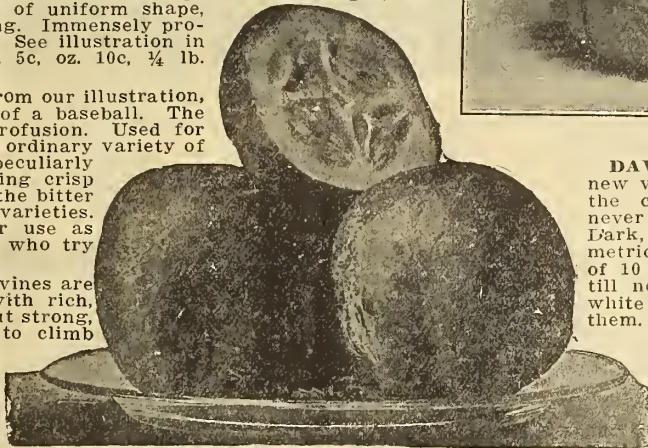
IMPROVED CHICAGO PICKLE.—Illustrated in lower right hand corner. A variety which originated with a leading pickle grower near Chicago; is considered the best variety there; very prolific; matures early, produces immense number of fine shaped pickles. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 80c.

EARLY CLUSTER.—Slim form. Extra prolific, frequently setting in clusters of two and three. Fine for small pickles. If fruit is kept gathered, the vines will continue in bearing. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 80c.

PERFECT WHITE SPINE.—This improved strain is pronounced by good judges superior to all others. Fruit even and good size, straight, well formed and symmetrical. It is of uniform shape, making it unexcelled for pickling. Immensely productive and keeps a long time. See illustration in lower right hand corner. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

LEMON.—As will be noticed from our illustration, it is round and about the size of a baseball. The fruits are produced in great profusion. Used for slicing or sweet pickling as any ordinary variety of cucumber, but have a flavor peculiarly their own; superior to any, being crisp and tender and having none of the bitter taste found in green skinned varieties. Of best quality. Desirable for use as mangoes. Will be liked by all who try it. Pkt. 10c, oz. 25c.

JAPANESE CLIMBING.—The vines are of healthy, vigorous growth, with rich, dark green foliage, and throw out strong, grasping tendrils, enabling it to climb trellis wire netting, brush or any other suitable support. It is of large size, cylindrical, flesh pure white, skin dark green, turning to brown and netted when ripe; fine for slicing. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.



LEMON CUCUMBER.

Received my spring order of seeds from your house, and found everything satisfactory. We are always well pleased with everything from your company.—Mrs. B. W. Ritchey, Emlenton, Pa.

IMPROVED LONG GREEN.—A standard sort. Vine vigorous and productive, forming fruit for the table nearly as early as shorter sorts. Produces very fine, firm fruit about 12 inches long. See illustration below. Pkt. 5c, oz. 10c, ¼ lb. 40c, lb. \$1.25.

EMERALD.—A new sort which possesses the rich dark green color which has long been sought but never before obtained, retaining its color until fully ripe. Its fruit sets early and its vigorous vines abound in long, straight, handsome fruits of most desirable qualities. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

SEE OUR OFFER OF CHOICE GARDEN FRUITS FOR PICKLING OR PRESERVING, OFFERED ON THE BACK COVER OF THIS CATALOG.

EMERALD

ROLLISON'S TELEGRAPH.—An English forcing variety bearing fruits 14 to 16 inches long. Dark green, smooth, and of perfect shape. Much used and greatly liked by market gardeners for hotbed and greenhouse growing in winter and early spring. Pkt. 15c, oz. \$1.00.

WEST INDIA GHERKIN, or Burr.—This is a peculiar shaped, very small variety of cucumber which makes a handsome pickle of first-class quality. When ready it is about as large as an English walnut, partly covered with spines, from which it takes the name "Burr" cucumber. Pkt. 5c, oz. 20c, ¼ lb. 65c.

SNAKE.—The cucumbers grow curled up like a snake with the head protruding, and some are six feet in length. Are grown chiefly as a curiosity and for exhibition. In pkts. only. Per pkt. 10c.

CUCUMBER

(One ounce will plant 50 hills, two pounds will plant one acre.)

Cucumbers succeed best in a rich, loamy soil. For first early, sow in hotbeds, in berry boxes or in small flower pots, six weeks before they can be set out in open ground. When danger of frost is over transplant in hills four feet apart each way. For general crop plant in open ground in May, about twelve seeds in a hill. When danger of bugs is past thin to four strong plants in a hill. For pickling, plant in June. Sprinkle vines with plaster or air-slaked lime, or use Slug Shot, to protect them from bugs.



DAVIS PERFECT.

DAVIS PERFECT.—A grand new variety. Everyone who saw the crop last year says they never saw anything to equal it. Dark, glossy green, slim and symmetrical, with an average length of 10 to 12 in. They hold color till nearly ripe when they turn white without a yellow streak on them. Quality fine, as seeds are very soft when fit for table use. Very tender, brittle and of exceptional flavor. Early as earliest strain of White Spine and outyields all others. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

IMPROVED LONG GREEN.—A standard sort. Vine vigorous and productive, forming fruit for the table nearly as early as shorter sorts. Produces very fine, firm fruit about 12 inches long. See illustration below. Pkt. 5c, oz. 10c, ¼ lb. 40c, lb. \$1.25.

EMERALD.—A new sort which possesses the rich dark green color which has long been sought but never before obtained, retaining its color until fully ripe. Its fruit sets early and its vigorous vines abound in long, straight, handsome fruits of most desirable qualities. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

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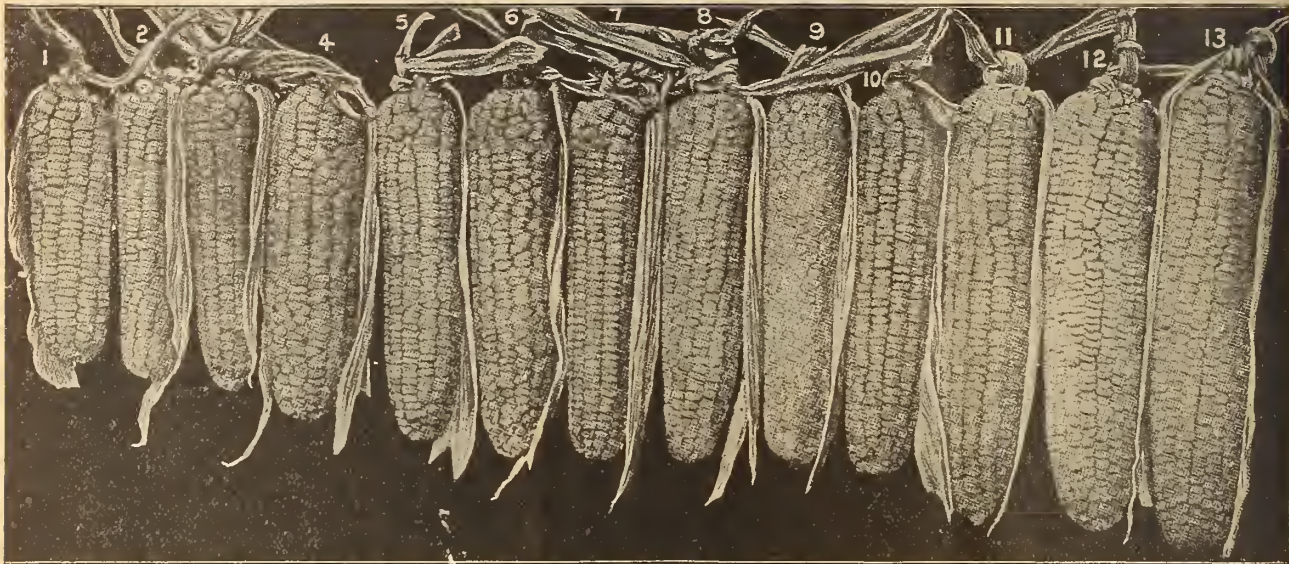
SNAKE.—The cucumbers grow curled up like a snake with the head protruding, and some are six feet in length. Are grown chiefly as a curiosity and for exhibition. In pkts. only. Per pkt. 10c.

NO. 1—PERFECT WHITE SPINE. NO. 2—IMPROVED LONG GREEN. NO. 3—IMPROVED CHICAGO PICKLE

SLUG SHOT WILL KEEP THE CUCUMBER VINES FREE FROM BUGS. IT IS LISTED AMONG INSECTICIDES ON PAGE 119.

SWEET CORN

Plant as soon as the ground becomes warm in the spring, in hills about three feet apart; give thorough cultivation. Our sweet corn is carefully grown and selected, only the choicest, most perfect ears being selected for seed. It is far superior to ordinary stock. We pay postage by the packet or pound. Quantities of three pounds or more go by express or freight at customer's cost for transportation or will be sent by parcel post if you send postage. See page 2.

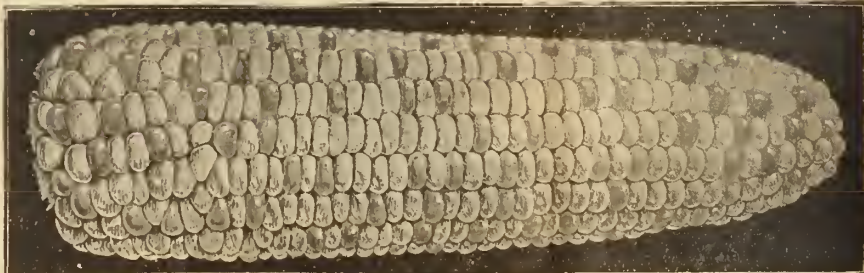


IMPROVED GOLDEN BANTAM.—(See cut No. 1.)—This handsome new variety is one of the most delicious of all and it is generally believed to be the richest in flavor. Is extremely early, of hardy, vigorous growth, so that it can be planted quite early. The stalks grow only about four feet high but they bear two or three good ears six to eight inches long, of handsome yellow color. In flavor it is quite distinct from the white sorts and some have called it as sweet as honey. Give it a trial. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. By express, 3 lbs. \$1.00, 10 lbs. \$3.00, 25 lbs. or over at 30c per lb.

EARLY SUNRISE.—(No. 5.)—Is a splendid new variety which we introduced. It is undoubtedly the best extra early corn for either private gardens or the public market. The ears are long, well filled out at the end, and husk covering so completely and being so tight as to prevent working of worms, which are so bad in Cory. Grains fairly deep and set in straight rows on a small white cob; very uniform and handsome. Market gardeners will find Early Sunrise a most profitable and satisfactory sort. Pkt 5c, $\frac{1}{4}$ lb. 10c, lb. 35c, postpaid. By exp., 3 lbs. 75c, 10 lbs. \$2.25, 50 lbs. (1 bu.) \$11.

GOVERNOR GILMAN.—Named for Governor Gilman, of Minnesota, who produced it by crossing Golden Bantam on a larger early white variety of sweet corn of exceptional quality. Both green and mature corn show uneven dotting of white and golden grains as will be noted in our illustration of an ear in fit table condition. When cooked it presents a beautiful appearance. It is quality that has induced us to give it a prominent place in our list. There is no corn offered so sweet, so tender and fine flavored. When to quality we add good size, earliness and prolific yield we have in our opinion the best of all sweet corn. It will prove superior in every way. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 35c, postpaid. By express, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 22c per lb.

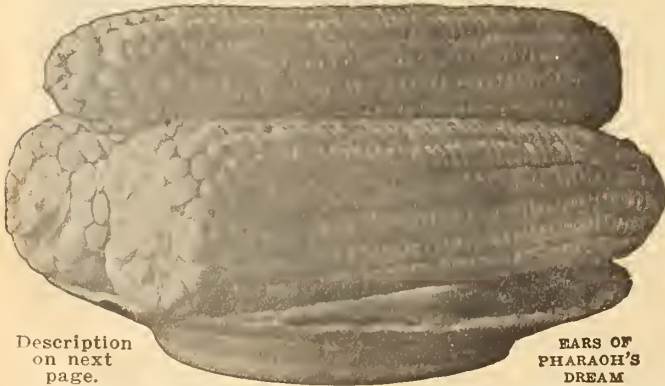
PEEP O' DAY.—(See cut No. 2.)—Of Minnesota origin, five to seven days earlier than other kinds. The ear is five inches long, of perfect form, and well filled. The corn is tender and sweet. On our place it matured with Early Sunrise and is similar to it in many respects. You will make no mistake in planting some of it for first early. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 35c, postpaid. By express, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 20c per lb.



GOVERNOR GILMAN

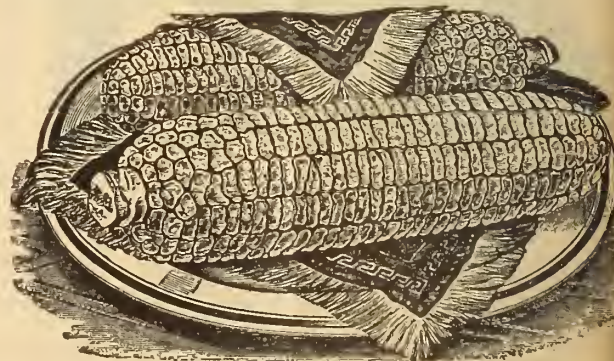
EXTRA EARLY CORY.—(White Cob.)—(No. 3.)—This was for years the most popular variety with market gardeners for first early until the introduction of Early Sunrise. Dwarf growth and yields well. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 60c, 10 lbs. \$1.75, 25 lbs. or over at 15c per lb.

CHAMPION EARLY.—(No. 6.)—Earliest large corn ever introduced, maturing only a few days later than the small-eared sorts and producing large 12-rowed ears 8 to 10 inches long. Pure white kernels with white cob, very sweet and tender, usually producing two ears to the stalk. Unsurpassed for market gardening or family garden owing to its large size and fine appearance. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 35c, postpaid. By exp., 3 lbs. 75c, 10 lbs. \$2.25, 50 lbs. (1 bu.) \$11.



Description on next page.

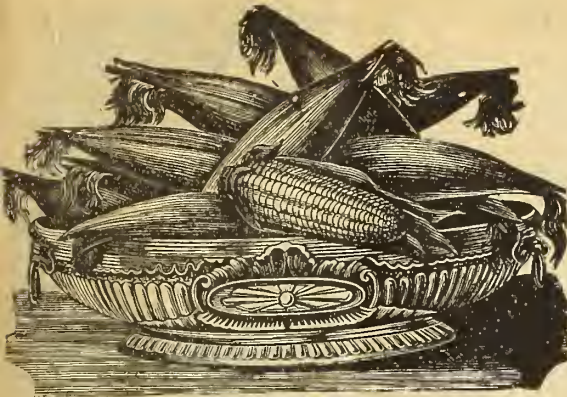
EARS OF PHARAOH'S DREAM



EARLY SUNRISE.

WE OFFER OUR CUSTOMERS THE CHOICEST STOCKS OF SWEET CORN AT VERY LOW PRICES QUALITY CONSIDERED.

SWEET CORN--CONTINUED



CHAMPION EARLY.

EARLY MINNESOTA.—(No. 7.)—A standard variety. Has held its position in the list for a long period of years as a dependable sort. Ears of good size and well flavored. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By exp., 3 lbs. 60c, 10 lbs. \$1.75, 25 lbs. or over at 15c per lb.

CROSBY'S EARLY.—(See cut No. 8.)—For medium early use and general crop it is a most desirable sort. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. By exp., 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 22c per lb.

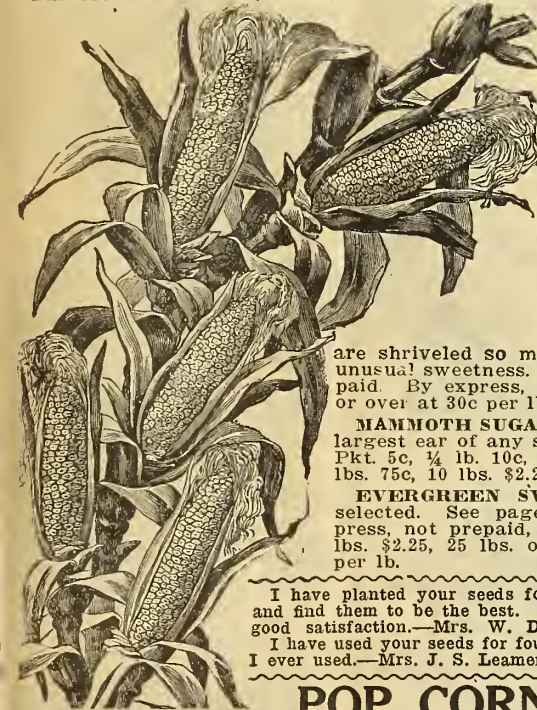
PHAROAH'S DREAM.—(No. 11.)—“And Pharaoh slept and dreamed... and behold seven ears of corn came up, upon one stalk, rank and good.”—Genesis 41-5. The most productive variety of sweet corn ever sent out. So frequently produces seven ears to the stalk it has been aptly named “Pharaoh's Dream.” Ears are large and would sell for Stowell's Evergreen in market. The corn is pure white, tender and of rich, delicate flavor, remaining a long time in an edible condition. Produces better when only one or two grains are planted in a hill. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. By exp., 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over 22c per lb.

COUNTRY GENTLEMAN.—(No. 9.)—An improvement on the old favorite Shoe Peg Sweet Corn. Our illustration of a single stalk shows its great productiveness; 3 to 5 ears to a stalk. In this, coupled with the luscious quality, the general superiority of this new variety will be quickly seen. The cob is small, giving great depth to the kernels, which are nearly white, and we cannot say too often—surpassingly sweet and tender. Pkt. 10c, ¼ lb. 15c, lb. 50c, postpaid. By express, 3 lbs. \$1.10, 10 lbs. \$3.50, 25 lbs. or over at 30c per lb.



BLACK MEXICAN.—(No. 10.)—Although the ripe grain

is black, the corn when in condition for table cooks white and is surpassed by none in tenderness. This, by many, is considered the most desirable for family use of the second early sorts. Withstands hot, dry weather. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. By exp., 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over 22c per lb.



IMPROVED STOWELL'S EVERGREEN.—(No. 12.)—The most prominent main crop sort and more largely planted than any other, being a general favorite with canners and market gardeners for late use. The ears are large size. The grains are deep, exceptionally tender and remain a long time in an edible condition. The dried kernels

are shriveled so much that they readily show its unusual sweetness. Pkt. 10c, ¼ lb. 15c, lb. 50c, postpaid. By express, 3 lbs. \$1.10, 10 lbs. \$3.50, 25 lbs. or over at 30c per lb.

MAMMOTH SUGAR.—(No. 13.)—This produces the largest ear of any sweet corn. Sweet and luscious. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. By express, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 22c per lb.

EVERGREEN SWEET FODDER.—Particularly selected. See page 44. By express, not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. or over at 20c per lb.



I have planted your seeds for several years and find them to be the best. Your seeds give good satisfaction.—Mrs. W. D. McFarland, Humboldt, Iowa.
I have used your seeds for four years and they are by far the best I ever used.—Mrs. J. S. Leamer, Polo, Mo.

POP CORN FOR SEED

COUNTRY GENTLEMAN It pays to raise pop corn as a general crop. The demand usually exceeds the supply. Some farmers claim it is as easily grown as field corn and they receive three or four times the amount per acre for the crop. Let the children try a patch.

MONARCH WHITE RICE.—This is our own strain of large rice pop corn and has been bred up to wonderful productiveness. We believe it is the best white variety. Bears three to six ears per stalk and yields 1,800 to 2,500 lbs. per acre. The grain is rather large and in popping expands to great size. If you are growing pop corn for market we urge you to plant Monarch White Rice, as it will yield better returns than any other kind. Pkt. 5c, ¼ lb. 10c, lb. 30c, 3 lbs. 60c. Not prepaid, 3 lbs. 30c, 10 lbs. 90c, 25 lbs. or over at 8c per lb.



MINIATURE.—The smallest pop corn grown. Splendid quality, pops very tender. Listed by some dealers as hullless pop corn. Pkt. 5c, ¼ lb. 15c, lb. 40c, 3 lbs. \$1.

PAGE'S STRIPED RICE.—Introduced by Iowa Seed Co. A beautiful and attractive variety. Color white, each kernel being striped bright crimson. It has true rice grains, ears of good size, yields big crops and pops fine. Pkt. 5c, ¼ lb. 10c, lb. 30c, 3 lbs. 75c.

QUEEN'S GOLDEN.—Large ear, and large, smooth grain of a peculiar lustrous golden yellow. Very prolific. It pops splendidly, the general appearance of the popped corn being a rich cream color, peculiarly attractive. Pkt. 5c, ¼ lb. 10c, lb. 30c, 3 lbs. 75c.

MAPLEVALE PROLIFIC.—Best smooth grain white variety. Ears medium size, but so many to the stalk that average yield is extra large. Pkt. 5c, ¼ lb. 10c, lb. 30c, 3 lbs. 75c.



IMPROVED STOWELL'S EVERGREEN

EGG PLANT



IMPROVED NEW YORK EGG PLANT.

A tender plant that should be started quite early in a hotbed or box in the house, which must be kept warm. Transplant late to open ground 2 feet apart.

IMPROVED NEW YORK.—Our strain of this, the leading market variety, we believe to be unsurpassed. Very large size, skin deep purple, flesh white and of excellent quality. Very productive. Pkt. 10c, oz. 40c, ¼ lb. \$1.50.

EARLY LONG PURPLE.—The earliest variety in existence, being much earlier than the above. Pkt. 10c, oz. 40c, ¼ lb. \$1.50.

PEARL WHITE.—Pure creamy white, slight shading of light green near stem; good quality. Pkt. 10c, oz. 40c.

ENDIVE

(One ounce will sow about 60 sq. ft.)

Preferred to lettuce by many. Should be more largely used. One of the best and most wholesome salads for fall and winter. Sow in April for early; in June or July for winter. When 8 inches long tie together with a string near top to blanch.

GREEN CURLED.—Has finely cut leaves and makes a handsome plant. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

GIANT FRINGED.—Also called winter lettuce. The best of all. Strong, vigorous grower, making large white heart; leaves are beautifully curled, and of best quality. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

GARDEN HUCKLEBERRY

When this new fruit was first offered to us we had but little confidence in it, but after growing it on our grounds we recommend it to our customers. It belongs to the Solanum family (Solanum Nigrum), which is the same class botanically as the tomato, egg plant, and potato. Edible and by some considered injurious when green. When ripe they are about one-half inch in diameter, of shining black color and make delicious pies, preserves and jam. Easily grown and immensely productive. Pkt. 10c.



GARDEN HUCKLEBERRY

GOURDS

Cultivate like cucumbers; they may be trained over lattice work, fences, etc.

JAPANESE NEST EGG.—Grows almost uniformly to the size, color and shape of a hen's egg. The shells are hard and make the very best of nest eggs, as they do not crack. Pkt. 5c, oz. 20c.

PIPE GOURD.—The calabash variety, somewhat resembling the Dipper. Pipes are made from the neck and lower portion of the gourd. Pkt. 5c, oz. 20c.

DIPPER.—Makes a light, convenient dipper. Dippers of various sizes, of a capacity from a pint to a quart and a half, can be had from a few vines. Pkt. 5c, oz. 20c.

SUGAR TROUGH.—Very large and strong grower. For buckets, etc. Pkt. 5c, oz. 20c.

LUFFA, or Dishcloth.—Has peculiar lining which is sponge-like, porous, tough, elastic and durable, making a natural dishcloth or sponge. Start early. Pkt. 5c, oz. 25c.

HERCULES' CLUB.—Grows to immense size—4 to 5 feet in length. Pkt. 5c, oz. 25c.

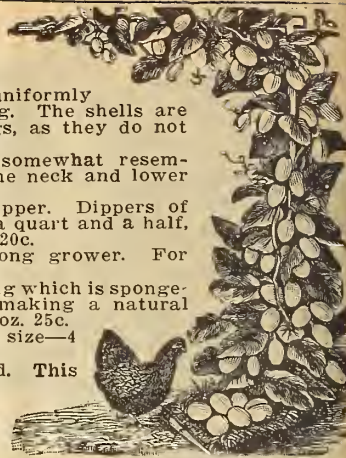
MIXED UTILITY.—Seeds of above mixed. This is a very popular item with our customers. They are really useful in many ways. They are easily grown and will repay the work expended. Pkt. 5c, oz. 20c.

GROUND CHERRY

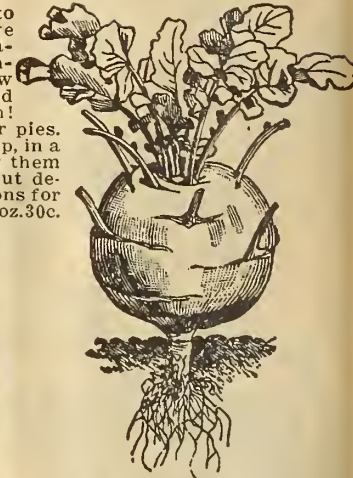
IMPROVED YELLOW.—Each year adds to the popularity of this little fruit, which we introduced, and it is now listed in the catalogues of the leading seedsmen of the country, to whom we supply seed. They grow well on almost any soil, are easier raised than the tomato, are prolific bearers and oh! what luscious fruit. Excellent for sauce or pies. They make delicious preserves and will keep, in a cool place, all winter. No one, after eating them once, will ever make a garden again without devoting space to the Ground Cherry. Directions for preserving with each pkt. Pkt. 5c, ½ oz. 20c, oz. 30c.



GROUND CHERRY



NEST EGG GOURD



WHITE VIENNA KOHL RABI

KOHL RABI

(One ounce produces 2,500 plants.)

If you have never grown Kohl Rabi, you should try it this year. It is a most excellent vegetable, intermediate between the cabbage and turnip. Cultivate like cabbage and, when young, cook like turnips.

GOLIATH PURPLE.—A new sort of immense size, solid and sweet. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$2.00.

EARLY WHITE VIENNA.—The flesh is white and tender and it is a good market sort. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$2.00.



EXTRA CURLED MOSSBACK KALE

KALE, OR BORECOLE

Very hardy; excellent for winter and early spring greens. Cultivate like cabbage. Leave out during winter and use as wanted. Splendid food for poultry.

EXTRA CURLED MOSSBACK.—A most attractive variety; fine crimped leaves, light green; fine for garnishing. Best cooking. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 85c.

DWARF GERMAN GREEN, or Siberian.—A very popular variety. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

THOUSAND HEADED.—Grown mainly for forage, but is also an excellent garden vegetable. See farm seed department. Pkt. 5c, ¼ lb. 20c, lb. 50c.

LEEK

Sow the seed thinly in drills early in the spring, thin out so as to stand six inches apart in row. Early in the fall draw earth up about stems as you would blanch celery.

LARGE ROUEN.—Largest and most uniform sort. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.25



LARGE ROUEN LEEK

LETTUCE

(One ounce will sow 100 ft. of drill.)

No vegetable is more universally used than lettuce, and to be thoroughly appreciated it must be brought to the table fresh and unwithed. Quality depends largely upon rapid and vigorous growth. Sow in hotbed in March and in open ground as early as it can be worked, thinly in drills one foot apart. For succession, sow every three weeks during season. Thin out plants as they grow.

ICEBERG.—Has large, curly light green leaves, sometimes slightly tinged with red. Has a rich, well bleached center; stands the summer sun without blighting. Has no superior for quality. We fully recommend this variety for home use. Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. \$1.00.

IMPROVED HANSON.—As a head lettuce the Hanson has no superior, either for home use or for market. Makes the most solid large heads and is the surest to head of all lettuces. Stands heat well when grown out doors and does well in hotbed or greenhouse. Can be used as a leaf lettuce but is such a splendid header that it should be given a chance to head by setting the plants 8 inches apart in rows and hoeing often. Resists summer heat. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

EARLY CURLED SIMPSON.—Grows a bunch of large, light green leaves; makes during season and will grow new leaves, which are always tender. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

BLACK SEEDED SIMPSON.—This is the standard variety with market growers who grow lettuce under glass or in frames. Makes large, loose heads of light colored, brittle leaves. Can be sown outside for first early use but will not stand hot summer weather. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

GRAND RAPIDS.—Another forcing variety of superior quality. Large plant, quick growth. Claimed to keep fresh longer than other sorts. Also fine for out door planting. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.25.

CALIFORNIA CREAM BUTTER.—A cabbage lettuce, with round, solid head; outside is green, slightly marked with small brown spots; within the leaves are very rich cream yellow color, rich and buttery to the taste. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

CONTINUITY.—A grand variety. Outside leaves brown, tinged with purple; inside of the head a fine creamy white, tender, crisp and well flavored, making it a very desirable sort. Especially recommended for remaining crisp and brittle. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.10.

MAY KING.—A very early variety of head lettuce of compact growth. The inner leaves are a bright yellow, the outer ones a light green, sometimes slightly tinged with brown. Its greatest claim to popularity is quick and rapid growth, making it extremely tender and brittle. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

RELISH, or Improved Big Boston.—The leaves are large and thick. Has a fine, rich center with excellent flavor. Resists hot, dry weather. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

IMMENSITY.—The largest of all lettuces; will make plants 18 inches across on good ground; heads well and is always tender and crisp. Excellent quality. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

PRIZE HEAD.—The leading brown leaved lettuce. Tender leaves, dark reddish brown. Heads large, of good flavor. We sell more of this than any other brown-leaved variety. Is always satisfactory. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

DENVER MARKET.—An early variety of head lettuce, either for forcing or the open ground. Large, solid heads, light green color, and is very slow to go to seed. Leaves beautifully marked and blistered, crisp and tender. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

ROMAINE.—Is very popular where choice flavor in vegetables is especially appreciated. The leaves are of rather light green color, shading to white when blanches. It is more self-folding than any other variety of cos lettuce, so that it is not necessary to tie the leaves in order that it may blanch. Give this a trial; you will be more than pleased with it. Possesses a peculiar flavor, crisp and delicious. Pkt. 5c, oz. 15c, ¼ lb. 40c.

SALAMANDER.—Excellent all seasons sort, forming good heads that stand drouth and heat longer without injury than other kinds. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.



ICEBERG LETTUCE



RELISH LETTUCE



CONTINUITY LETTUCE



MAY KING LETTUCE.



MIXED LETTUCE.—The above varieties in careful mixture. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.



ROMAINE.

LETTUCE SOWN BROADCAST ON GOOD GROUND MAKES EXCELLENT GREEN FEED FOR POULTRY. GIVE IT A TRIAL.

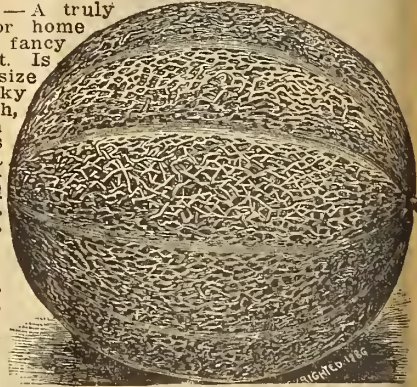
MUSK MELON

(One ounce will plant about 80 hills, 2 lbs. to the acre.)

Musk melons require a rich, well drained soil. They will not grow where it is wet. Plant as early as safe from frost; cultivate until vines cover the ground. Usually planted in hills 4 to 6 feet apart. Use plenty of seed.

THOROUGHbred ROCKY FORD.—This variety is in great demand by the high-class hotels and restaurants. Just the right size for table use, slightly oval in shape, flesh thick, of light green color, and fine, juicy, luscious flavor. Very early and wonderfully productive. Our seed is from the crop of the best melon grower at Rocky Ford, who grows the pedigreed stock of this variety. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

BURRELL GEM.—A truly delicious melon for home use or will bring a fancy price on the market. Is about the same size and shape as Rocky Ford, but has rich, golden yellow flesh of most delicious flavor, solid and a most desirable shipping sort. The seed cavity is very small. Average about 6 in. long, 4½ in. in di-



PAUL ROSE.

ameter, and weigh 2¼ lbs. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

EMERALD GEM.—Finest in flavor and the earliest to ripen; too soft to stand shipping any great distance; unequalled for home use or near by markets. Vines strong and vigorous; very prolific. Rather small and flattened at both ends. Emerald green, smooth and free from netting, heavily ribbed, with narrow bands of lighter green between ribs. Flesh very thick, crystalline appearance, of rich salmon color. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

PAUL ROSE.—Named for its originator; a cross of Osage and Netted Gem, combining sweetness and flavor of the former with fine netting and shipping qualities of the latter. Size about midway between the parent sorts, with salmon flesh. A splendid melon for hotel and restaurant trade. Peculiarly sweet, rich, delicious flavor, and a long keeper. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

I have used all kinds of seeds for ten years past, but have never had better results than with those from you.—W. H. Binder, Grand Island, Neb.



EMERALD GEM MUSK MELON.

IMPROVED GREEN NUTMEG.—Greatly improved strain of the old Green Nutmeg. Fruit of medium size, very rich and melting, of exquisite flavor; flesh is light green. Is very productive. The original was a standard sort for many years, and is one of the best main crop sorts. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

I will say that your seeds have proved to me to be the best I ever used and I intend to continue purchasing my seeds from you.—E. Barnhart, Olathe, Kansas.



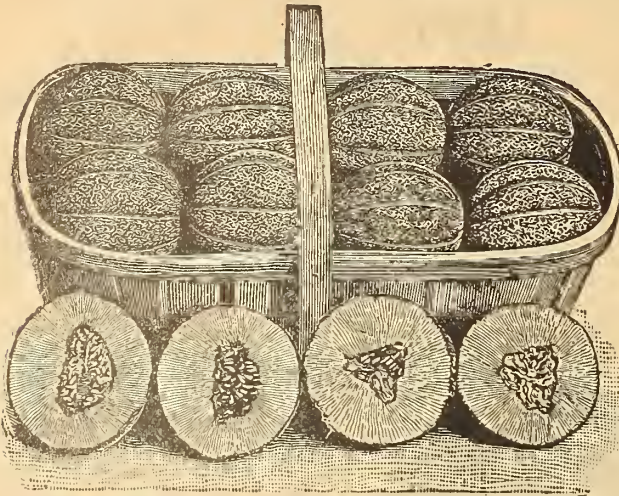
GRAND RAPIDS.

GRAND RAPIDS.—An extremely early variety. Flesh pure yellow to the rind, finely netted. Larger than the Rocky Ford type, averaging in size with Osage, but is claimed to be the earliest of the larger sorts. Of handsome and attractive appearance and quality is good. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

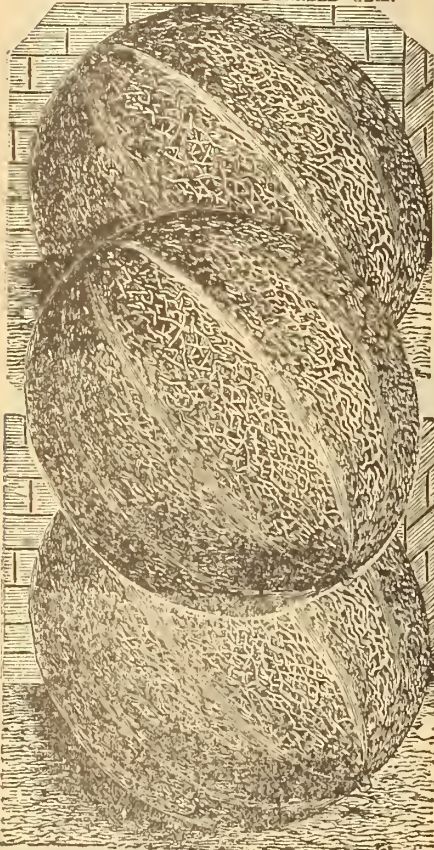
IMPROVED EARLY HACKENSACK.—The largest early musk melon. Good quality; is firm and heavy; deeply netted; flesh light green. Shape fine and a splendid market melon as it ships well. Per Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.



IMPROVED GREEN NUTMEG



BURRELL GEM.



ROCKY FORD MUSK MELON.



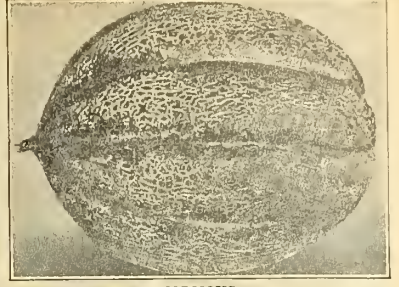
IMPROVED EARLY HACKENSACK



OSAGE



TIP TOP



ENORMOUS

MUSK MELON--CONTINUED

OSAGE.—One of the best melons for family use; greatly liked by gardeners. Flesh salmon color, remarkably sweet and spicy, very thick, and delicious to the rind. Seed cavity very small. It is seldom that one of poor quality is found. Medium size, oval, slightly ribbed. Skin thin, dark green color and covered more or less with shallow netting. We have taken great pains to develop the thick, deep, rich colored and fine flavored flesh, and a careful comparison proves it to be unequalled. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

BANANA.—Attains a length of from 1½ to 3 ft.; 3 to 4 in. thick. Flesh is very thick, of salmon color. It looks almost like one, hence its name. Has a peculiar flavor, differing from ordinary musk melons, and by some considered superior. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

MIXED MUSK MELONS.—A mixture of above varieties desirable for the diversity it offers, making an appeal to all different tastes. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

CASABA MUSK MELONS

This is a class of very late maturing musk melons which do not ripen on the vines in the North, but are gathered before freezing weather and stored in a cool place and brought to a warm room for ripening; can be eaten any time up to Christmas as they keep very long. Shipped from California in carloads during the winter.

WINTER PINEAPPLE, or Santa Claus.—The original round form; green; the best keeper of all. Pkt. 10c, oz. 25c.



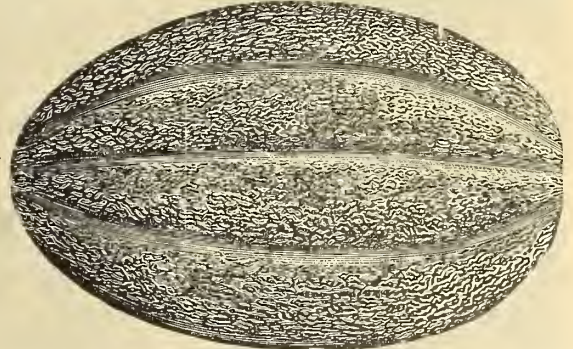
SOUTHERN GIANT CURLED MUSTARD

WHITE'S FAVORITE.—Is shaped like Winter Pineapple; a beautiful golden color when ripened. Best flavored of this type, but will not keep long. Pkt. 10c, oz. 25c.

ENORMOUS.—A new musk melon growing to immense size. Oblong with wide fissures. It is well netted but the fruits are so large that the netting does not show as heavily as on the smaller sized varieties. Specimens have been grown upward of 15 lbs. weight. The flesh is very thick, salmon colored and of better flavor than any other large melon we have ever seen. The seeds are very much larger than in the ordinary sorts. Vine is vigorous and very productive. Pkt. 10c, oz. 25c, ¼ lb. 75c.

TIP TOP.—(Orange Flesh.)—A fine, nearly round melon of such attractive appearance as to always sell quickly. It is sweet, juicy and delicious. Flesh firm but not hard, and is edible almost to the rind. Of medium to large size, evenly ribbed and moderately netted; strong grower, heavy yielder and handsome. One of the best of the orange fleshed sorts. Pkt. 5c, oz. 10c, ¼ lb. 40c, lb. \$1.25.

BAY VIEW.—Fruit of large size, often 10 or 15 lbs. Deep ribbed and coarse netted. Best large, late maturing sort. Of good flavor, productive, with firm flesh, does not rot quickly. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.



BAY VIEW

MUSTARD

A pungent salad used for greens. Sow thickly in rows. One ounce will sow about seventy-five feet of drill.

OSTRICH PLUME.—Leaves long, ruffled, frilled and curved gracefully as an ostrich plume; desirable for garnishing. Can be cut quite early; excellent for "greens." Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

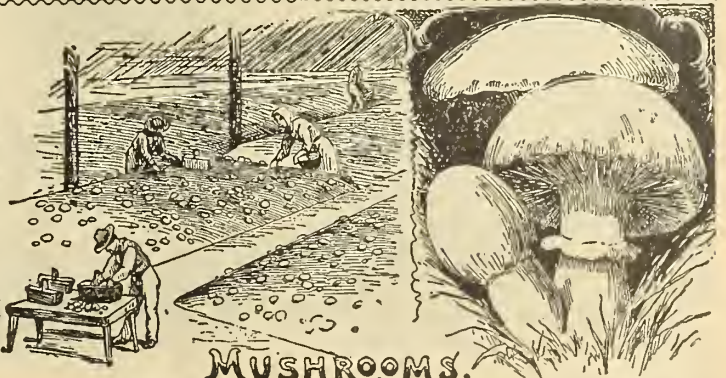
SOUTHERN GIANT CURLED.—True curled leaf variety so popular in the South for planting in the fall to furnish early spring salad; also fine for spring sowing. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

WHITE ENGLISH.—Seeds are white and it is preferred by housewives for pickling purposes on that account. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

MUSHROOMS

The ease and certainty with which a crop of mushrooms can be grown to perfection in an ordinary house cellar, woodshed or barn, and the astonishing success of so many who have taken up this new industry, both for profit and their own use, induces us to call especial attention to the subject. The great luxury of mushrooms can be enjoyed by all at a trifling expenditure of money, time and labor. We recommend our English mushroom spawn as generally better both for the market garden and the private planter. Directions for culture sent on application. Per brick of about 1½ lbs., by mail, 40c. By express or freight, not prepaid, 5 bricks for \$1.00, 10 bricks, \$1.80, 100 bricks \$17.00.

We bought our first seeds of you in 1894. Borrowed a catalogue and wrote out the order on tablet paper. It was a dry year—got nothing at all. Next year tried it again and have bought seeds of you ever since.—Annie Stubbs, Correctionville, Iowa.



MUSHROOMS.

WATER MELON

(One ounce is required for forty hills; three pounds will plant an acre.)

A light sandy soil, with good exposure to the sun, is the best for water melons. It should be prepared deep, but receive shallow cultivation. Hoe often and thoroughly. Plant in hills 8 to 10 feet apart each way. Plant 8 to 10 seeds in a hill, and, finally, when danger of insects is past, leave but three strong plants. Thousands of melon growers depend on us annually for their seeds and are universally pleased, claiming that nowhere have they ever obtained seeds so pure and reliable. It pays to have the best. Packets contain about one hundred seeds.

NEW EXCEL.—(Cut No. 1.)—This new variety resembles the well known Monte Cristo, but is much larger in size, often growing to weigh 60 lbs. Similar in shape and color and will be taken for Monte Cristo by those who are not familiar with this new variety. Has all the melting, delicious sweetness of its prototype, and surpasses it in size, shipping qualities and market value. A splendid sort for both home and market. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

TOM WATSON.—(Cut No. 2.)—A new variety destined to become a leader among melons, because of its quality and shipping excellence. There is no variety to our knowledge that combines both essentials as does this melon. Most sorts of extra quality are not tough enough to ship, and most shipping melons are too tough to excel in quality. The Tom Watson is a large, oblong melon, the skin of which is dark green, with thick netting on the entire surface, quite distinct from other varieties. It averages 18 to 24 inches long and 10 to 12 inches in diameter and it weighs 50 to 60 pounds. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. The heart is large with no core. Seeds brown, tipped white. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

MCLVER'S WONDERFUL SUGAR.—(Cut No. 3.)—This is a famous melon for sweetness and high quality. The fruits are long and of large size, averaging about 50 lbs. each. Is considered one of the handsomest melons, being rather light colored, irregularly striped and mottled with dark green. Rind is rather thin but tough; a good shipper. Flesh is delicate light red, entirely stringless and tender, and juicy and luscious. Vine is a strong, vigorous grower, very prolific and withstands extremes of weather, either wet or dry. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.

GOLDEN SWEET.—(Cut No. 4.)—The Golden Sweet is a most delicious and fine flavored melon, unsurpassed for sweetness and aroma. Outside skin dark, shape oblong, as shown, size medium, a little larger than Monte Cristo, averaging about 20 lbs., just right for family use. Rind very thin but hard and will carry without cracking or bursting. Flesh golden yellow, solid, smooth, with few seeds. This is without exception the highest quality water melon in the list, and this is true of every melon in the field. We have never yet found a poor quality melon. Even the late fruits that ripen after frost kills the vines are excellent. Originated here in Iowa and we grow our seed of this variety on the home farm at Altoona. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.00.

SWEETHEART.—This is a favorite Des Moines market sort. It is early, large, handsome, heavy, a good shipper, long keeper, of bright color and good quality. The fruit is large, oval, very heavy, uniformly mottled light green; rind thin but firm; solid, tender, melting and delicious. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

PEERLESS, or Ice Cream.—(White Seeded.)—Very early, medium size, thin rind, flesh is bright scarlet. It is the great home market melon. Few sorts surpass it in melting, delicious quality. Color green, slightly mottled, shape oblong to round, and appearance attractive. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 75c.

MOUNTAIN SWEET.—The old standard, is still quite popular in the North, where large fruited southern sorts do not ripen. Pkt. 5c, oz. 10c, ½ lb. 20c, lb. 60c.

I wish to express my pleasure in your garden seeds, deriving the greatest pleasure from every packet.—J. G. Huge, Clermont County, Ohio.

I have bought my garden seed of you for the past seven years. They have always given satisfaction. Every seed is true to name. You also give larger packets. All of my friends boast of my good vegetables.—Mrs. N. B. Calhoun, Horse Cave, Kentucky.

We have just received our order of garden seeds and are very well pleased with them.—J. S. Margon, Guthrie Center, Iowa.



Reading from top to bottom: Excel, Tom Watson, McIver's Sugar, Golden Sweet.



COLES EARLY

FLORIDA FAVORITE

FORDHOOK EARLY

IMPROVED TRIUMPH

WATER MELON--CONTINUED

COLES EARLY.—Decidedly the finest variety for the private garden, but is too brittle for long shipment. It is very early and will mature farther north than most other sorts. Of medium size; very productive. Flesh bright red, of granulated, sparkling appearance. In flavor lusciously sweet and refreshing. One of the best early melons and is specially valuable for growing for home market. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

FLORIDA FAVORITE.—Shape and color well shown in the illustration above. It is a real favorite because of sweetness and fine texture. It is of large size and attractive appearance and is popular both for home use and market selling. Solid and heavy and ships well. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

FORDHOOK EARLY.—Large early variety. From seeds planted May 10th, ripe melons have been produced the last of July. The rind is tough, making it valuable for shipping. Color is uniform medium green; flesh red, very sweet, solid, and of excellent quality. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

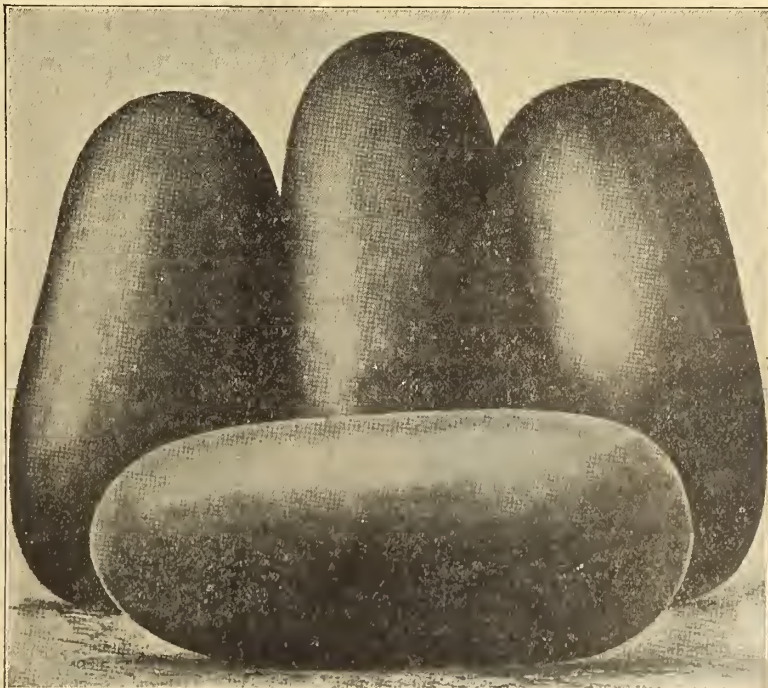
IMPROVED TRIUMPH.—Is undoubtedly the largest of all melons, having been grown to the extraordinary weight of 147 lbs. Very productive. It is of dark green color, matures in good season, flesh dark red, solid, and of excellent quality. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 65c.

HALBERT HONEY.—The aristocrat among water melons. A very early variety; medium size; fine, oblong shape; very prolific and even size; skin handsome dark green; flesh a rich crimson, fine grained, melting and exquisite flavor. Has no superior as a home or near by market melon but rind is too thin to stand much handling. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.



MONTE CRISTO

MONTE CRISTO, or Kleckley's Sweets.—A wonderfully popular variety everywhere. After testing all varieties of melons, we do not hesitate to pronounce this one of the sweetest, juiciest, most delicious melons, and it is especially desirable for home use. The skin is dark green, faintly striped, flesh bright red and peculiarly rich, crisp and pleasant flavored. It ripens early, is of good size, is a good shipper and a long keeper. Market gardeners will also be pleased with it. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00



HALBERT HONEY

CITRON MELONS

Nice for preserving and largely used for this purpose.

APPLE PIE.—A novelty which will be appreciated in many parts of the country. Illustrated in colors on back cover page. Vine and fruit quite similar to a water melon and are easily grown on any good soil. Each vine produces from five to fifteen fruits and one of the large size will make as many pies as a half bushel of apples. The flesh is white, solid throughout and of excellent quality for making pies, preserves, etc., and resembles apples in flavor. They keep nice and fresh all winter, so they can be used any time and any surplus can be fed to the live stock. It will pay to raise them for this alone as they can be kept and fed all winter. Pkt. 10c, oz. 25c, ¼ lb. 80c.

COLORADO PRESERVING.—This is a large fruiting strain of citron for preserving. The flesh is clear white and very solid. Green seed. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

RED SEEDED CITRON.—Is round, dark green, striped and mottled with light green. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

My friend wanted me to refer her to some good seed company and I knew of none better than yours.—Mrs. L. J. Martin, Cushing, Oklahoma.

I was very much pleased with your seeds, both last year and the year before, and expect to succeed with them this summer.—Mrs. J. J. Kindie, Metuchen, New Jersey.

WATER MELONS ARE ENJOYED BY EVERYONE. THEY ARE FAR SUPERIOR IN FLAVOR AND QUALITY WHEN HOME GROWN,



Good onion seed is of the utmost importance as it is one of the most important crops grown, and there is no other vegetable where the quality of the seed exerts a greater influence upon the crop than onions. There is more money in onions grown from seed than almost any other crop. Fully realizing this, we have for many years made a speciality of onion seed which is all grown from choice, selected bulbs, critically examined before being set out for seed. In vitality it is very strong, being carefully tested, and we are sure that **OUR ONION SEED CANNOT BE EXCELLED** in purity, vitality or high quality. Large onions can easily be grown the first year from the seed by obtaining our American grown onion seed. The crop was short this year and prices may advance. In comparing our prices with others, remember that we pay the postage. Deduct ten cents per pound if to be sent by express. Ask for prices in large lots.

CULTURE.—One ounce will sow about 100 feet of drill; pounds will sow one acre. The soil for onions should be rich loam thoroughly enriched with well-rotted manure or pulverized before sowing the seed. It should be as free from weeds and grass as possible. As early as the ground can be worked in the spring, sow the seed in drills 14 inches apart covering one-half inch. Commence hoeing as soon as the rows can be seen; skim the ground over the surface; avoid stirring deeply, and work the soil away from the bulbs. A second hoeing weed carefully and thoroughly by hand. For pickles or sets the seed should be sown very thickly and in broad drills, about 50 pounds to the acre for sets, and 15 to 20 pounds for pickling. For sowing seed and cultivating the crop it will pay you to purchase a good drill and hand cultivator. See description elsewhere. Lang's Hand Weeder, price 30c, postpaid, is the best hand weeder made.

LARGE WHITE GLOBE.—The handsomest market variety; beautiful, clean, pure, silvery white bulbs of large, even size, globe-shape, mild and pleasant flavor, and outsells every other variety. Undoubtedly the best white sort. Will yield as many bushels per acre as any of the American varieties. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

WHITE PORTUGAL or SILVER SKIN.—Standard white variety for general culture. Bulbs grow flat to good size, ripening early and quite evenly. Flesh mild and sweet; skin a clear silvery white, of very handsome appearance. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.



IOWA STANDARD, or Golden Globe.—Offered by us as the very best yellow, globe-shaped onion for general culture. We prefer it to the red varieties because it is of mild flavor and much more handsome. Always uniform in shape, size and color. Is surely thoroughbred, and the entire crop looks like carefully hand-selected onions. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

SOUTHPORT RED GLOBE.—This is a very handsome variety and is deserving of general cultivation. It is medium early (none of the perfectly globe-shaped onions are as early as the flat varieties), grows to a large size, skin deep red, flesh fine grained, mild and tender. It is steadily increasing in popularity as the market is demanding globe-shaped onions more than formerly. They require better soil and cultivation to make a crop than the flat varieties, but much more than pay for it in increased yield and price. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 70c, lb. \$2.50.

YELLOW GLOBE DANVERS.—Handsome, globe-shaped sort of large size, yellow skin, white flesh, fine grained, mild, very firm and the best of keepers. Has yielded 1,000 bu. per acre. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.25.

WHITE BERMUDA.—A favorite in the South. Grown for the northern markets during winter and early spring. Popular because very mild and palatable. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

EXTRA EARLY BARLETTA.—Is a distinct variety; the very earliest onion in cultivation. They are of a pure paper-white color, very delicate in flavor, and in size grow 1 to 1 $\frac{1}{2}$ inches in diameter. For table use and pickling it is most valuable. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 85c, lb. \$3.25.

LARGE RED WETHERSFIELD.—The standard sort throughout the country, the easiest to grow and the surest to make a good crop, being hardy and not subject to decay in very hot or wet weather. Of finest form, skin deep purplish red. The flesh is purplish white and finer grained than many of the red sorts. Our seed is extra select and cannot be excelled. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.25. By express, 4 lbs. for \$8.00.

EXTRA EARLY RED.—Matures very early. It is of medium size, flat shape deep red in color; very close grained, solid and heavy. Will often form bull in cold and mucky soils where other varieties fail. It is recommended particularly for the North and Northwest where the seasons are short and cool. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.25.

AUSTRALIAN BROWN.—Color is particularly clear amber brown, quite distinct from any other variety. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.75.



IOWA STANDARD OR GOLDEN GLOBE

BIG ONIONS

For table use large onions are much preferable to small ones and they bring a better price on the market. The varieties listed on this page are of immense size, splendid quality and yield wonderfully large crops. Do not keep quite as well as some other kinds, still they are usually good till January or February.

The 5 Giants

One Packet Each of

Mammoth Prizetaker
Silver King Copper King
Giant Vesuvius and
Improved Gibraltar

FOR ONLY 25 CENTS

With each of these "Five Giant" collections we will send a circular, giving full directions for "GROWING BIG ONIONS."

MAMMOTH PRIZETAKER (See cut No. 1.)—The hardest and most easily grown of the giant onions. Grows to mammoth size and matures perfectly in this latitude. It is very solid, fine grained and keeps well. It is of clear straw color, uniformly globe shaped and produces immense crops. The demand for this variety has been increasing rapidly for many years. It is well acclimated and always sure to fully ripen. Pkt 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.25.

COPPER KING, OR MAMMOTH POMPEII.—(No. 2.)—Have been grown to the enormous weight of 5 lbs. 6 oz. and retain their shape and fine quality. Weigh the largest onion you can find and compare. Copper color, flesh white, fine grained, mild. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c.

MAMMOTH SILVER KING.—(No. 3.)—The largest white onion, no other approaching its mammoth size. Of attractive form, flattened, but thick through as shown in cut. Often weigh from 2 $\frac{1}{2}$ to 4 lbs. each. Beautiful silvery white; flesh snowy white, sweet and tender and can be eaten raw. Matures early. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 85c, lb. \$3.00.

GIANT VESUVIUS.—(No. 4.)—Mammoth foreign variety. In rich soil, under good cultivation, they grow to immense size. Handsome globe shape, somewhat elongated. Color almost blood red; flesh nearly white and quality most excellent. More tender and mild than American sorts. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

IMPROVED GIBRALTER.—New Spanish onion, similar in shape and color to Prizetaker, but larger and hardier; keeps better. The leaves of blades are distinct deep green, with glossy surface, enabling it to withstand dry weather and the attacks of insects. Very popular among onion growers because of hardness and cropping excellence. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00.

I thought I would write you a few lines and let you know I had great success with the seeds I received from you last spring.—Chas. Spainhower, New Eagle, Pennsylvania.

I have used your seeds for the past three years and find them to be the best seeds and largest packages I ever bought.—Mrs. J. E. Broadford, Burr Oak, Kansas.

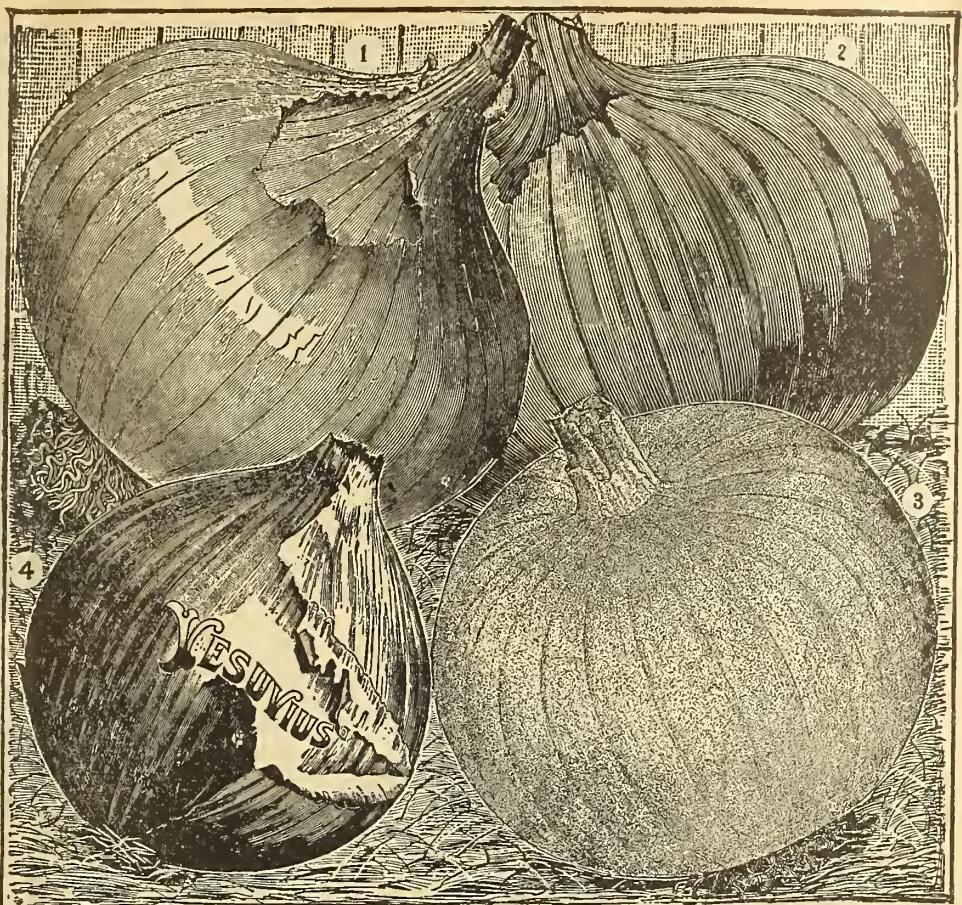
OKRA

Ont ounce will sow about 80 ft. of drill.

Nice for soups, stews, etc., and also much liked when pickled. Sow at the usual time of tender vegetables in drills 2 in. deep, leaving the plants 2 to 3 feet apart. Pick pods while quite young and still tender and slice crosswise before cooking. Illustrated on page 3.

WYRICK'S NEW GIANT.—Wonderfully productive. Pods shoot out from the stalk within 3 inches of the ground, and the whole plant is covered with them. Pods are vivid green, 8 to 9 in. long. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

WHITE VELVET.—Pods round and smooth, of attractive white, velvety appearance, very tender and of superior flavor. Plants dwarf and very productive. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 65c.



ONION SETS

For early onions for bunching; ready for table in a very few weeks. Is cheaper to grow from seed but considerable work to weed, and many prefer to buy sets. Price by pint and quart includes postage; deduct 10c per quart if by express. Price per peck or bushel subject to market variations, and shipped at buyer's expense. Top sets sold at 28 lbs. per bushel; other kinds 32 lbs. or stroke measure on all small lots. Write for prices for large lots.

POTATO ONION SETS.—A species of Multiplier Onion, increasing from bulb; early; matures quickly; mild. Pt. 20c, qt. 35c; not prepaid, pk. \$1.50.

WHITE MULTIPLIER ONION SETS.—Pure silvery white; frequently producing bulbs in clusters; excellent quality; very early. May be planted either in spring or autumn. Pt. 20c, qt. 40c; not prepaid, pk. \$1.50.

SUMMER TOP SETS.—Commonly known as Button Onion Sets. Pt. 20c, qt. 40c; not prepaid, pk. \$1.50.

PERENNIAL, or Winter Sets.—Also called Egyptian or Tree Onions. Usually set in fall; produce earliest spring onions without winter protection. Do not make large bulbs. Pt. 15c, qt. 25c; not prepaid, pk. 65c, bu. \$2.00.

WHITE BOTTOM SETS.—White onion sets from seed are best for early use and large onions. Pt. 20c, qt. 40c, postpaid; not prepaid, pk. \$1.90.

RED BOTTOM SETS.—Are like the white, except that they are of dark red color. Very hardy. Pt. 20c, qt. 35c; not prepaid, pk. \$1.50.

YELLOW BOTTOM SETS.—Like the white, except color. More used than any other kind. Pt. 20c, qt. 35c; not prepaid, pk. \$1.50.

BOTTOM ONION SETS



POTATO ONION SETS



GARDENERS WHO USE ONION SETS IN LARGE QUANTITIES SHOULD ASK FOR SPECIAL PRICES, STATING AMOUNT WANTED.

PEAS

(One pound will plant about fifty feet of drill;
2 to 3 bushels per acre.)

Peas mature quickest in light, dry soil, not too rich. May be sown as early as the ground can be worked, and for a succession every two weeks up to July; or, what is better, select several kinds which will form a succession in maturing. Sow in drills 2 to 4 feet apart, according to varieties, and 2 to 3 inches deep for general crop. The wrinkled sorts are marked *. They are more liable to rot if the ground is wet. We are this year offering peas by the pound and the pound prices include postage. Larger lots go by express or freight at customer's cost for transportation. If you want the larger lots to come by parcel post you must send postage as shown by table on page 2. The Iowa legal weight is 60 lbs. per bushel.

EXTRA EARLY SMOOTH VARIETIES

IOWA CHALLENGE. pods are rather small, dark green color, well filled; the earliest pea known, being two days earlier than the First and Best, and 90 per cent of pods can be gathered at first picking. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. and over at 20c per lb.

IOWA CHALLENGE.—Extra early variety of superior merit which is a favorite with Des Moines gardeners. We can in confidence say that after a trial of nearly all extra early varieties we have not found one possessing more merit, hence its name. For the market gardener it has no superior. Is not only extra early and prolific, but of good flavor. All good qualities of Extra Early are most nearly brought to perfection in the Challenge. Height 18 inches. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. and over at 20c per pound.

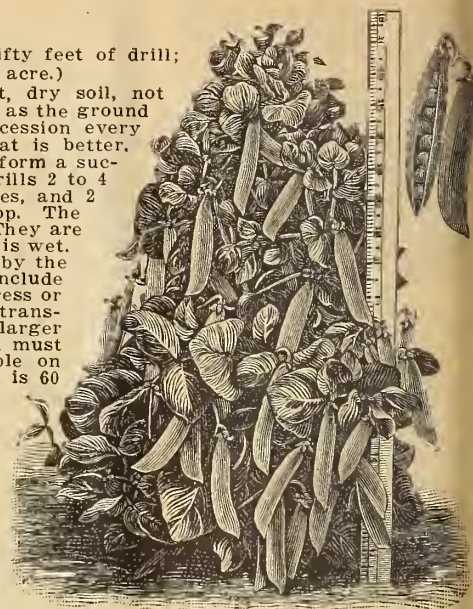
FIRST AND BEST.—A well known standard early pea. Ready to use several days before the early wrinkled varieties. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 60c, 10 lbs. \$1.75, 25 lbs. and over at 15c per lb.

I have been ordering garden seed from you for several years and have had no occasion to complain with results obtained in any case.—H. H. Howard, Canton, Missouri.

I have bought my garden and flower seeds from you for several years. They have always given satisfaction; every packet is true to name, and are large and well filled.—Mrs. T. W. Humphries, Natasulga, Alabama.



NOTT'S EXCELSIOR



PREMIUM GEM.



GRADUS, OR PROSPERITY.

EARLY DWARF WRINKLED VARIETIES

***LITTLE MARVEL.**—A strong vine about 15 inches high, bearing tremendous crops of fair sized pods, frequently borne in pairs. Pods 2½ to 3 inches long, containing six to seven large, deep green peas. As early as American Wonder, more productive, and will be preferred by gardeners generally because of extra quality. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. and over at 20c per lb.

***LANTONIAN, or Pioneer.**—This variety is the finest of the very large podded, early wrinkled peas. Vine is not quite so long as Gradus but the pods are fully as large as those of that variety and there are twice as many of them. Both pods and peas are a rich, dark green in color and retain this rich color when cooked. This is the most satisfactory variety we had on our trial grounds last season. Pkt. 10c, ¼ lb. 15c, lb. 40c, postpaid. Not prepaid, 3 lbs. 80c, 10 lbs. \$2.50, 25 lbs. and over at 23c per lb.

***AMERICAN WONDER.**—Popular extra early variety for family garden. Cannot be planted quite as early as smooth sorts; will not stand as much cold, wet weather but is far superior to them in flavor and table qualities. Dwarf, robust habit, growing about 10 in. high; produces a profusion of good-sized, well-filled pods of the finest flavored peas. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. and over at 20c per lb.

***PREMIUM GEM.**—This has been for many years the standard dwarf wrinkled pea for the family garden, and is also popular with market gardeners. It only grows 1 to 15 inches high and requires no support. Pods large, dark green, and quality of the peas is excellent. Pkt. 5c, ¼ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 60c, 10 lbs. \$1.75, 25 lbs. and over at 15c per lb.

***GRADUS, or Prosperity.**—This remarkable pea is not only large and of best quality, but it is nearly or quite as early as the small, round, extra early sorts. It is a wrinkled pea with the vine growing about 20 inches high. Pods are bright green color and measure 4 inches or more in length, well filled with luscious peas. Of highest table quality. Pkt. 5c, ¼ lb. 15c, lb. 40c, postpaid. Not prepaid, 3 lbs. 80c, 10 lbs. \$2.50, 25 lbs. and over at 23c per lb.

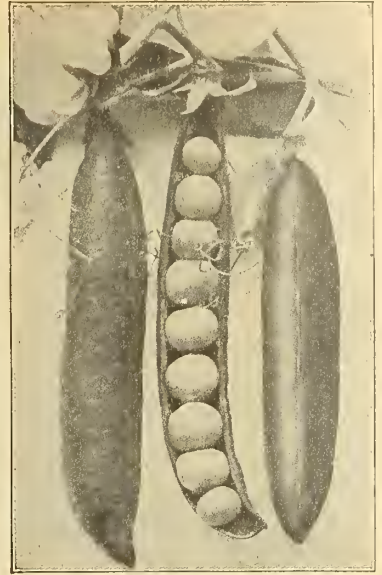
***NOTT'S EXCELSIOR.**—Is fully as sweet and delicious as American Wonder and grows one-half taller. Pods are larger and it is far more productive than the Premium Gem. Pkt. 5c, ¼ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. and over at 20c per lb.



TELEPHONE



STRATAGEM



DWARF CHAMPION

PEAS--CONTINUED

SECOND EARLY AND MAIN CROP VARIETIES

This class of peas all grow vigorously and should have support of some kind. Some of these, like the Dwarf Champion or Everbearing, will give fair results when not given a support, yet it pays to provide some kind of support, they will yield very much more and are so much easier to pick. Where brush cannot be had, poultry netting fence makes a neat and cheap support, as it can be rolled up and used many times. See price in back part of catalog.

***DWARF CHAMPION.**—Splendid main crop variety; bears profusion of good size, well filled pods; vines seem less affected by mildew than most late peas; make a sturdy growth $\frac{1}{2}$ feet tall. Very prolific; quality excellent. Much used by market gardeners. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 60c, 10 lbs. \$1.75, 25 lbs. and over at 15c per lb.

***EVERBEARING.**—Fine for main crop. Grows about 2 ft. high, strong and vigorous, branches freely; does well with support. Continues to grow and produce pods a long time if pods are kept picked as they grow. Both pods and seeds of good size. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 60c, 10 lbs. \$1.75, 25 lbs. and over at 15c per lb.

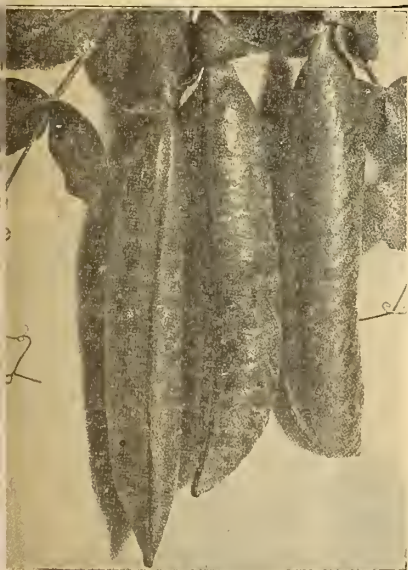
***CHAMPION OF ENGLAND.**—Well known standard sort; grows 4 to 5 ft. high and requires support, but fine quality and large crop produced more than repays any extra labor required. A strong, vigorous grower and continues to bear a long time. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 60c, 10 lbs. \$1.75, 25 lbs. and over at 15c per lb.

***TELEPHONE.**—Immensely productive; finest quality; an excellent sugary flavor; vines very strong growing, about 4 ft. high, and should be supported. Pods large, with 6 or 7 large, delicious peas. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 70c, 10 lbs. \$2.00, 25 lbs. and over at 18c per lb.

***IMPROVED STRATAGEM.**—Most popular late variety for market or family use. Preferred because of the immense size of pods and peas and exceptional sweetness and tenderness when ready to use. Half dwarf sort, 2 to 3 ft. high. It is a vigorous grower and an enormous cropper. Pods contain 7 to 9 large peas. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 35c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. \$2.25, 25 lbs. and over at 20c per lb.

***DWARF WHITE MARROW.**—An improvement on the old Large White Marrowfat. Fully as productive, but does not grow so tall and rank. Used almost exclusively for late midsummer planting by market gardeners and is very productive. Grows 3 to 4 feet and is best if supported, though support is not usually given. Peas are smooth and very large. Pkt. 5c, $\frac{1}{4}$ lb. 10c, lb. 30c, postpaid. Not prepaid, 3 lbs. 60c, 10 lbs. \$1.75, 25 lbs. and over at 15c per lb.

***MAMMOTH LUSCIOUS SUGAR.**—This new sugar pea bears pods much larger than any other variety, often 6 or 7 inches long and $1\frac{1}{2}$ inches broad. They should not be shelled, but the peas and pods eaten together like green beans. Grows quite tall, 5 to 6 feet high. Have large purple blossom. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, 3 lbs. 75c, 10 lbs. and over at 20c per lb.



CHAMPION OF ENGLAND



EVERBEARING



DWARF WHITE MARROW



MARKET GARDENER'S PARSLEY.

PEPPER

(One ounce will produce about 1,800 plants.)

Sow seed in hotbed early in spring; transplant to open ground when the weather is favorable, in warm, mellow soil, in rows 18 inches apart. Seeds germinate slowly and require considerable heat.

CORAL GEM BOUQUET.—(Cut No. 1.)—This new red hot pepper is the finest of the smallest sized varieties. Excellent for pepper sauce. Nice to chop up for mixing picilli. Pkt. 10c, oz. 40c.

RUBY KING.—(Cut No. 2.)—Very large in size, 4½ to 6 inches long by 3½ to 4 inches thick. When ripe are beautiful bright ruby red and always remarkably mild and pleasant to the taste. Produces large, handsome fruit and is splendid for stuffed peppers or mangoes. Pkt. 5c, oz. 30c, ¼ lb. \$1.00.

CHINESE GIANT.—(Cut No. 3.)—Most gigantic of all Giant Peppers. A fine mild red pepper of enormous size, magnificent appearance and brilliant, glossy scarlet color. The flesh is mild and unusually thick. Makes an excellent salad sliced and served like tomatoes. Pkt. 10c, oz. 45c, ¼ lb. \$1.50.

KALEIDOSCOPE.—(Cut No. 4.)—A very ornamental new sort. The small fruit changes from cream color to canary, deepens to orange then turns into pink, until it becomes a deep, shining scarlet. Pkt. 10c, oz. 50c.

JAPANESE FANCY.—(Cut No. 5.)—A very ornamental variety, bearing little heart-shaped fruits of various colors, purple, white, yellow, orange, red, all on same bush. Fruits are edible, of mild flavor. Pkt. 10c.

LARGE BELL, or Bull Nose.—(Cut No. 6.)—The standard variety for mangoes or sweet pickle. Our stock of this pepper is as near perfection as we have ever seen. Fruits large, uniform in size, thick meat and smooth, very pleasant mild flavor; prolific yielder and matures early. Pkt. 5c, oz. 25c, ¼ lb. 85c.

RED CHILL.—(Cut. No. 7.)—Small, long fruit, but very hot. Used for pepper sauc. Pkt. 5c, oz. 25c, ¼ lb. 75c.

MAMMOTH GOLDEN QUEEN.—(Cut No. 8.)—Average a third larger than Ruby King. Is 8 to 10 inches long; bright, waxy, golden yellow and mild flavor. A favorite variety for mangoes. Pkt. 5c, oz. 30c, ¼ lb. \$1.00.

PIMENTO.—(Cut No. 9.)—This is a new and distinct pepper. Perfectly sweet, having no trace of pungency. Plants are loaded with the fine, perfectly smooth fruits which are of medium size and thick meat. They are so firm and thick that they can be pared with a sharp knife or they may be scalded and the skin slipped off like a tomato. Excellent for winter use. While introduced only a year ago, they are already known and prized the country over. See back cover page for illustration in colors. Pkt. 10c, oz. 50c.

SWEET MOUNTAIN, or Mammoth.—This pepper is in shape similar to Large Bell, but fruits are much larger and not nearly so pungent. Splendid sort for making stuffed pickle. Has been a standard large pepper for many years. Pkt. 5c, oz. 25c, ¼ lb. 75c.

RED CAYENNE.—Pods long and slim, of medium size. Pungent. Used for pepper sauce. Pkt. 5c, oz. 25c, ¼ lb. 75c.

MIXED PEPPERS.—A choice mixture of all the above and several other fancy varieties. Fine for exhibition. Pkt. 10c, oz. 35c.



PIMENTO PEPPER

PARSLEY

(One ounce will sow 150 feet of drill.)

Sow early, thinly, in drills 1 ft. apart, ½ inch deep. Soak seed in warm water a few hours before sowing. For winter use, protect in glass frame or light cellar.

MARKET GARDENER'S.—An extra choice stock with dark green, beautifully curled, mossy leaves, very ornamental in its growth and very productive. Valuable for either garnishing or flavoring. Earlier than other varieties and what is more important it retains its dark green color till late in the fall and continues to produce well throughout the winter when transferred to the greenhouse. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

CHAMPION MOSS CURLED.—Very select stock, finely crimped and curled. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

HAMBURG.—Turnip-rooted variety, used for flavoring soups, etc. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

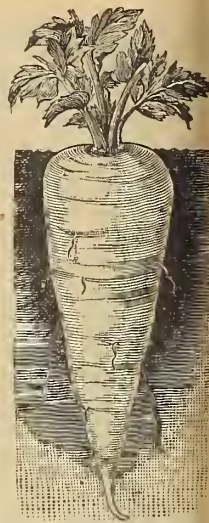
PARSNIP

(One ounce will sow 200 feet of drills. Five pounds will sow an acre in drills.)

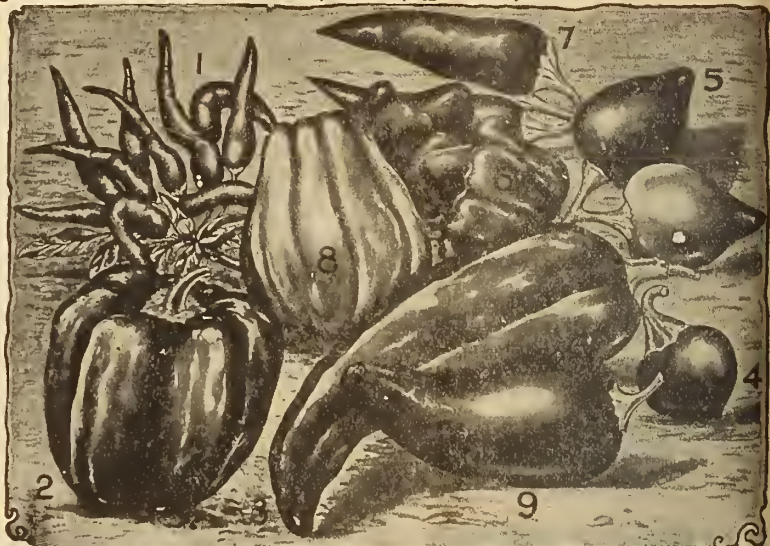
Sow early in spring in good, rich soil, which has been plowed deep, in drills 15 inches apart, covering half an inch. Thin to 5 or 6 inches apart in rows. They are improved by freezing.

IMPROVED TABLE GUERNSEY.—A greatly improved and wonderfully fine strain of the Guernsey Hollow Crown Parsnip. The roots do not grow as long as the Hollow Crown, but are of greater diameter and more easily gathered. Very heavy cropper; roots are smooth with a deep, hollow crown and a small top. Flesh fine grained, sweet and of excellent quality; cooks evenly, center being as fine, soft, even quality as outside portions. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 80c.

IMPROVED HOLLOW CROWN.—This greatly improved strain is about same shape as the old sort, but smoother and of more even quality; fine grained and excellent. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.



GUERNSEY PARSNIP.



PEPPERS. Refer to numbers for description.

RED CROSS PEANUTS.—This variety is in shape similar to Large Bell, but fruits are much larger and not nearly so pungent. Splendid sort for making stuffed pickle. Has been a standard large pepper for many years. Pkt. 5c, oz. 25c, ¼ lb. 75c.

RED CAYENNE.—Pods long and slim, of medium size. Pungent. Used for pepper sauce. Pkt. 5c, oz. 25c, ¼ lb. 75c.

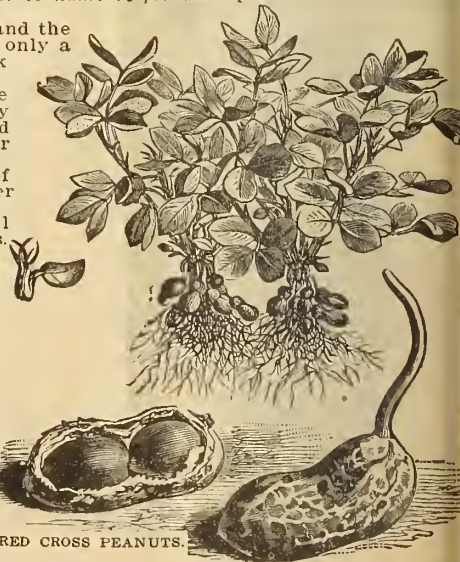
MIXED PEPPERS.—A choice mixture of all the above and several other fancy varieties. Fine for exhibition. Pkt. 10c, oz. 35c.

PEANUTS

Peanuts can be grown in Iowa, and everyone should plant at least a few, for children.

RED CROSS.—The most desirable variety is early as the earliest, most hardy, very prolific and of best quality. Boys, here is a chance for you. Think of growing peanuts in your own garden and having plenty of them to eat. Shell nuts carefully so as not to break inside skin, plant as soon as ground becomes warm, from 2 to 3 ft. apart each way, 4 or 5 to the hill, covering 2 inches. Soil should be deep and mellow. Pkt. 10c, lb. 40c, postpaid. By express, 5 lbs. or more at 25c per lb.

SPANISH.—Very early variety; quite prolific, but pods are small. Pkg. 10c, lb. 50c.



PUMPKIN

(One ounce will plant 25 hills; 4 lbs. will plant one acre.)

The best, most enterprising and most prosperous farmers put in a crop of pumpkins every year. They can be grown separately or with a corn or potato crop, and do not seem to interfere in the least. They are valuable for feeding to stock and what is a fair without pumpkins, or a Thanksgiving dinner without a pumpkin pie? Planted with corn, two pounds will plant one acre.

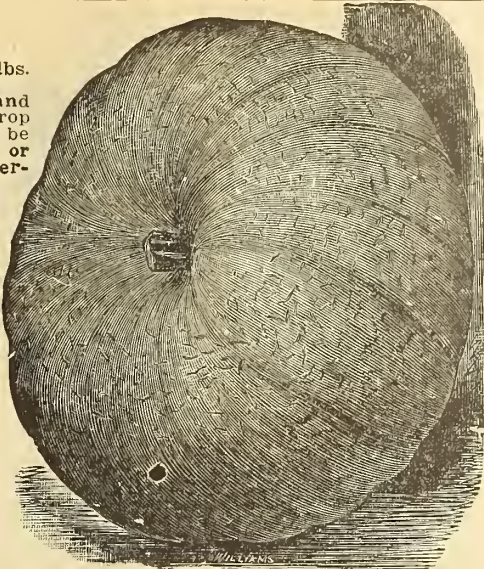
MAMMOTH PUMPKINS

NEW ATLAS.—The largest of them all. We have grown this variety on our home seed farm for many years. They are uniform in shape and we have had them weigh as heavy as 300 lbs. Our seed is saved only from the largest sized, perfect shaped specimens, which will be sure to produce enormous fruits if properly grown. It is just the thing for exhibition at fairs. Flesh is a rich yellow, very thick, and excellent quality, nutritious and profitable to grow for stock feeding. Pkt. 10c, oz. 25c, ¼ lb. 75c.

"From one seed of the Atlas Pumpkin received from you I grew one vine which produced four pumpkins. The largest weighed 175 pounds, the second 168 lbs. third 138 lbs., fourth 96 lbs., or 577 lbs. in all."—Hardy Hughes, Myrtle Creek, Ore.

KING OF MAMMOTHS.—The largest variety of true pumpkins. The flesh and skin are of a bright golden yellow, fine grained and of good quality. We know of one specimen that reached the enormous weight of 245 lbs. One customer writes us that he grew one that weighed 158 lbs., and on the same vine he had five other pumpkins from 80 to 104 lbs. each in weight—over 640 lbs. grown from one seed. Farmers and gardeners, just think of that kind of a crop! Will it not pay to grow the King of Mammoths and exhibit them at your county fair? Our seed is from select specimens. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

KING OF MAMMOTH PUMPKIN



ATLAS PUMPKIN.

PIE PUMPKINS

YANKEE PIE.—The noted New England Pie or Small Sugar Pumpkin. Same shape and color as the Connecticut Field but is smaller, very sweet, fine grained and one of the best varieties for pie use. It pleases everyone for making pies. Early. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.00.

LARGE CHEESE.—This is a very popular pumpkin for pies and is quite commonly known as "Sweet Pumpkin." In size they average about as large as the Connecticut Field but are flat shaped, with creamy buff skin and thick golden flesh. It is one of the best of the pie pumpkins and can be grown in the corn like the common cow pumpkin. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 80c. Five pounds by express or freight at 60c per lb.

JAPANESE PIE.—This is similar in size and form to the well known Cushaw, but the skin is deep green, with darker stripes; earlier than any other pumpkin. Seeds marked with curious indentations. Flesh is very thick. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25.

GOLDEN RUSSET.—An extra choice sweet variety, also called Winter Luxury. Golden yellow, netted or russeted over surface; small to medium size. Unsurpassed as a pie pumpkin and a good seller on market. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.



GOLDEN CUSHAW, or Jonathan.—Like the old Cushaw in shape but of a clean old gold color instead of green and white stripe. Flesh is solid, of deep orange color and very rich. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25.

CONNECTICUT FIELD.—Is the common field or cow pumpkin. It is more generally grown than any other variety. Of good quality for culinary purposes. If you have any live stock plant some of these. Oz. 5c, ¼ lb. 20c, lb. by mail 60c. By exp. or frt. 10 lbs. \$5.00.

We have been buying seeds from you for our home garden for the past six years, and must say that they are much better than any we can obtain here. They are pure, true to name and sure to germinate. —W. R. Chandler, Boyd's Creek, Tennessee.

MAMMOTH TOURS.—Is also called "Mammoth Whale." Grows to an immense size, sometimes 3 feet in length, and to a weight of 100 to 200 pounds. Flesh of a salmon color. Seed of a peculiar shape. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25.

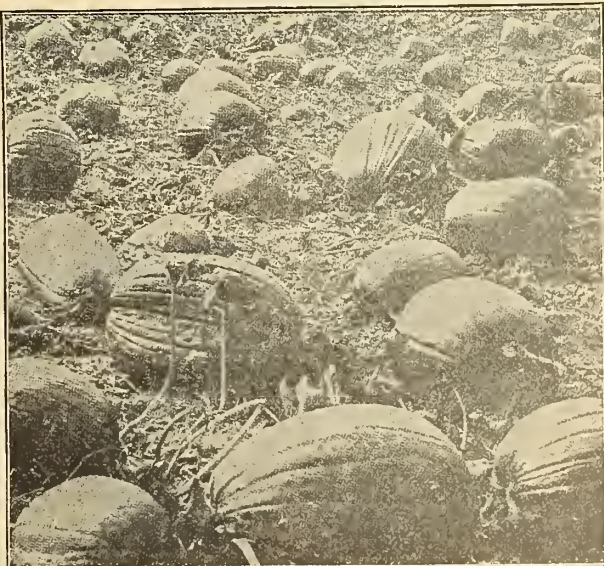
MAMMOTH ETAMPES.—Giant variety from France. Bright red color. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

COLLECTION OF Mammoth Pumpkins

One Packet Each of New Atlas Mammoth Tours, King of Mammoths and Mammoth Etampes. ONLY TWENTY CENTS



JAPANESE PIE.



BIG TOM PUMPKIN.

GROW PUMPKINS AMONG THE CORN OR IN THE WASTE PLACES ABOUT THE FARM. THEY WILL PROVE PROFITABLE.

One ounce will sow 100 feet of drill. **RADISH** Eight to ten pounds will sow an acre in drill.



FRENCH BREAKFAST

SPARKLER

SCARLET GLOBE

ROSY GEM

SCARLET GEM

Radish seed should be sown in light, rich soil as early as the ground can be worked, and for a succession, at intervals of two weeks, until midsummer. Radishes must be grown quickly and have plenty of room or they will invariably be tough and pithy. Sow in drills one foot apart and thin to two or three inches apart as soon as the rough leaves appear.

FRENCH BREAKFAST.—Of medium size and olive shape, with small top; of quick growth; beautiful scarlet color, shading to white. Pkt. 5c, oz. 10c; ¼ lb. 25c, lb. 75c.

SPARKLER.—This is a new extra early, white-tipped, round radish. It is distinct in that the white tip is larger and more pronounced than in any other sort. Much more of the root is white than shown in our illustration, and the contrasting colors being so nearly equal gives it a more attractive appearance than any of the varieties now on the list. Well adapted for either forcing in frames or for the private garden. Will brighten the whole table if placed in a glass dish where colors show to good advantage. Quality unsurpassed; remain solid and crisp a long time. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

EARLY SCARLET GLOBE.—The most popular variety for hotbeds and forcing, as it is the earliest of all. Of handsome color, crisp, juicy and tender. It forms a small top and will stand a great deal of heat without becoming pithy. It is the gardener's standby for first early radish. More of this is grown than any other variety. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.

ROSY GEM.—Handsome globe-shaped variety of rosy scarlet, shading to white at the tip. Rapid grower; fine quality. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

EARLY SCARLET GEM.—Extremely early variety which has matured fit for the table in twenty days from the time of sowing the seed and is fully grown in less than four weeks. It is of a perfect globe shape, and of bright, rich scarlet color, tipped pure white, thus making it particularly handsome on the table. The Scarlet Gem has very few leaves, therefore is an excellent variety for forcing, and gardeners will find it an "A No. 1" seller on the market. It is quality unsurpassed; tender, crisp, appetizing. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.



GOLDEN DRESDEN

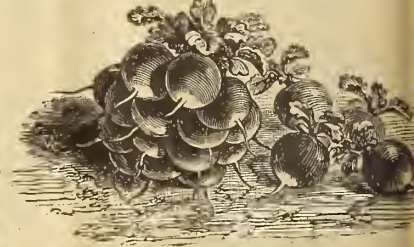
GOLDEN DRESDEN.—A little beauty, with golden brown skin, white flesh, crisp, juicy and of finest flavor. One of the quickest growing sorts; tops small, admitting of close planting. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.

STRIPED TRIUMPH.—Beautiful new variety and a decided novelty. Shape is round, with white skin striped bright scarlet, being decidedly ornamental on the table. Very early and has small top. Flesh is white, crisp, tender. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25.



EARLY BIRD RADISH.

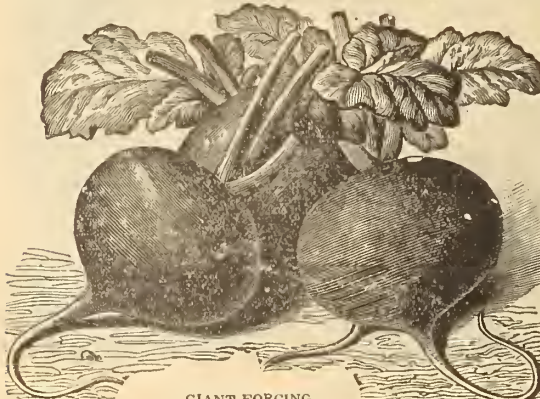
EARLY BIRD.—Decidedly the earliest of radishes. With loose soil and proper culture the Early Bird is ready for the table in twenty days from the time of sowing the seed, which makes it one of the most desirable sorts ever offered for either forcing or outdoor culture. It is of round or turnip shape, as shown in our illustration, of bright scarlet color and pure white flesh, which is tender, crisp and of the very best flavor. It has few and short leaves. Very desirable for the home garden and a money maker for the market gardener. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.



VIOLET QUEEN RADISH.

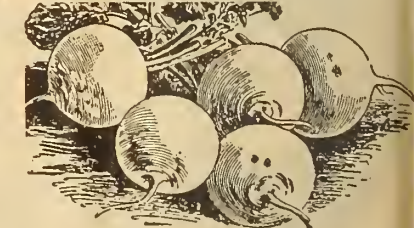
VIOLET QUEEN RADISH.—A novelty of 1908 and decidedly the handsomest of all radishes. It is a small, round or turnip-shaped variety of a beautiful violet-purple color, shading to white near the tip, thus giving it a very pleasing aspect. It matures very quickly, is solid, crisp and of excellent flavor, and does not become pithy quickly. For best results grow in loose, rich soil and cultivate well. It is very showy on the table, especially when put in a glass dish with red and white radishes. Do not fail to try it. Pkt. 5c, oz. 15c, ¼ lb. 50c.

MODEL WHITE BOX.—Of handsome shape, very early and has but few leaves, and one-third more radishes can be grown in the same space than with most other varieties. Of clear white color, solid, juicy and unsurpassed in flavor. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.



GIANT FORCING

CRIMSON GIANT FORCING.—The most profitable variety for market gardeners, and may well be considered the most valuable new sort sent out for many years. A rapid growing variety, developing roots of beautiful deep crimson, perfect in shape and more than double the size of any other forcing variety. It often measures 9 inches in circumference without getting pithy or hollow, and retains its firmness and tenderness of flesh. It is a distinct variety differing from other round sorts, and is the most popular sort with Des Moines gardeners. It comes into market a few days after the smaller earlier kinds but drives them all out when it appears. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.



MODEL WHITE BOX RADISH

RADISH--CONTINUED

ICICLE.—A splendid long variety of almost transparent whiteness. Produces ice roots in twenty-two days from the date of sowing, and it continues in prime condition for a long period, so that in one sowing of seed, nice, crisp radishes may be had from spring until midsummer. It is much the most popular sort in the entire list. There is no variety that grows more uniform in type, and there are none that surpass it in quality. We recommend it as the very best early radish. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.

WHITE STRASBURG.—Of handsome, oblong, tapering shape, both skin and flesh being pure white. The flesh is firm, brittle and tender and retains its crispness even if old and large. Excellent for summer use. Very popular because it remains fit for use a long time and does not get pithy. Sometimes called the Sandwich Radish. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.

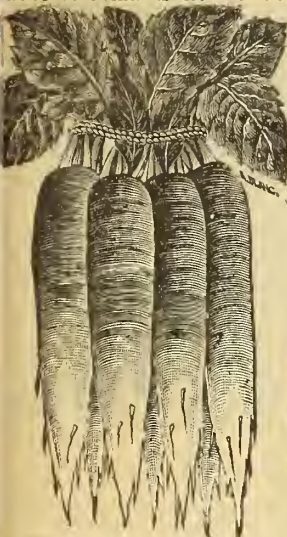
IMPROVED CHARTIER.—The roots are long and cylindrical, scarlet rose above, shading into pure waxy white at the tip. Flesh white, crisp and of mild flavor. Stands hot weather well. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 65c.

EARLY LONG SCARLET, or Short Top.—An old standard variety of quick growth; long, slender root. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 65c.

BRIGHTEST LONG SCARLET.—The handsomest long red radish which is very early. It is shaped like Long Scarlet, but the tips are white like the Chartier. The white and red colors in contrast make it a popular market sort. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.



WHITE ICICLE AND LONG SCARLET



BRIGHTEST LONG SCARLET



MIXED RADISHES

MIXED RADISH.—Our mixture of about two dozen kinds contains all shades and shapes: red, white, pink, variegated; round, half-long and long, in great variety. It is all the go for small gardeners, where space is limited and you want to make garden and be done with it. One sowing does for the whole season, as they come early, medium, and late. You always have some that are just right.

You will be surprised and delighted with our popular radish mixture. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 65c.

WINTER RADISH

SAKURIJIMA.—This is a giant variety of radish from Japan. It has been grown to the enormous dimensions of 43 inches in circumference. The flesh is solid, firm and brittle, and of excellent flavor. It will grow and thrive in any ordinary garden soil. This is a real "novelty" to most Americans and it will hardly be recognized as a radish from its appearance when full grown. Try it and you will be surprised at the real value of this monstrous variety. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50.



WHITE STRASBURG

CALIFORNIA MAMMOTH WHITE.—Large size, eight to twelve inches long, two to three inches thick, white, solid, of good quality. A very popular sort with market gardeners for late selling. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.

CHINA ROSE WINTER.—A bright rose colored variety. The most popular of the winter radishes because of its bright color, firm flesh and long keeping qualities. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.

LONG BLACK SPANISH.—A large, black-skinned radish, with firm white flesh of pungent flavor. A good keeper, lasting until spring. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.



BLACK SPANISH and CHINA ROSE WINTER RADISH

RHUBARB OR PIE PLANT

(One ounce will produce about 100 plants.)

Succeeds best in deep, rich soil. Sow in the spring in drills, cover one inch. Thin to six inches apart; transplant in the fall or spring to permanent beds three feet apart each way.



IDEAL MAMMOTH.—The largest pie plant grown. Leaves four feet across; stalks three inches in diameter and three and one-half feet long, and this is not unusual. Have had them that large on two-year-old plants. They have a habit of dying down in midsummer and starting growth in August and September, which makes it just right for canning for winter use. Pkt. 10c, oz. 25c, ¼ lb. 75c. Roots 35c each, doz. \$2.50, prepaid; not prepaid, \$1.50 per dozen.

VICTORIA.—For many years the standard variety of rhubarb. Stalks are not so large as Ideal Mammoth, but are preferred by many on account of their more piquant and richer flavor. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

For price of rhubarb roots, see page 33.



One ounce of early varieties will plant about forty hills, 2 lbs. per acre.

SQUASH

One ounce late varieties will plant about twenty hills, 4 lbs. per acre.

Plant about the middle of spring in hills, the early sorts four to six feet apart, the late varieties eight to twelve. Thin to three plants in the hill. The soil cannot be too rich. Use Slug Shot to kill the bugs.

TABLE QUEEN SQUASH.—(See Cut No. 2.)—Vines are vigorous and very productive. Just the right size, averaging about 6 to 8 inches long and 4 to 6 inches in diameter. Color dark green, with sometimes a blotch of red at pointed end. The shell is hard and smooth, and is ridged as shown in the picture. Just wash it clean, cut in half, take out the seeds, bake twenty minutes and you will have the most delicious squash you ever tasted. Splendid for pies because of its sweetness and dainty flavor. Ripens in the fall and keeps as long as Hubbard. A novelty which we introduce in full confidence, as it has already established itself a favorite on Des Moines market. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

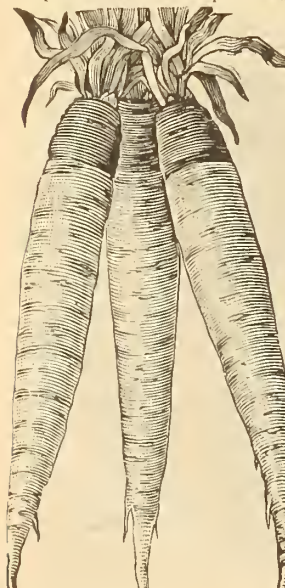
GOLDEN BUSH.—(Yellow Bush Scallop.)—The earliest of all and quite a favorite with all who like summer squash. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

WHITE BUSH SCALLOPED.—Similar to Golden Bush. Color creamy white. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

EARLY BUSH CROOKNECK.—(See Cut No. 5.)—Splendid, early, productive, fine quality. With all new varieties recently brought out, many claim there is no summer squash superior to this. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

MAMMOTH CHILL.—(See Cut No. 6.)—The "Jumbo" of the family. Outer color rich orange yellow; skin smooth, wide fissures. Flesh very thick and of a yellow color. They keep well and are profitable for stock. Have been grown to weigh over 200 lbs. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

PEERLESS VEGETABLE MARROW.—(See Cut No. 7.)—In England they consider this far superior to any variety of squash. The Peerless is the most desirable sort, fruits being handsome shape, creamy white color, of excellent flavor. Very productive. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.



SALSIFY

SALSIFY

VEGETABLE OYSTER

(One ounce will sow 50 feet of drill, 8 lbs. to the acre.)

It is one of the most delicious and nutritious of vegetables and should be more generally cultivated for use in the winter, when the supply of really good vegetables is limited. It has the true oyster flavor and is a delicious substitute for them in soup, etc. Cultivate like parsnips.

MAMMOTH SANDWICH ISLAND.—The best and most popular variety. The roots are white, smooth, and, notwithstanding their enormous size, of superior quality. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

EARLY PROLIFIC MARROW.—Early and productive. In color brilliant orange-red; good cooking and keeping qualities. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

NEW HESTER.—Extra choice new variety, which we introduced. The color is a pinkish yellow striped at point with light green. Early and can be used as summer squash, but they are superior for winter. It is really a quality sort. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

DELICIOUS.—(See Cut No. 3.)—A most desirable new winter variety. Color is green. Is about the same size as the Hubbard. Has very thick flesh, cooks dry and is of superior flavor. Although a good fall variety, it is best during the winter. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

BANANA.—A distinct variety of fall and winter squash. It is very prolific, grows to two feet or over in length, is very fine grained and heavy, cooks dry but is free from that "choky" quality common to winter squashes. Always rich, sweet and splendid flavor. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.

TRUE HUBBARD.—(See Cut No. 1.)—This sort is the most popular winter squash grown; hard, green shell; flesh bright orange yellow, fine grained, very dry, sweet and rich flavor; keep in perfect condition throughout the winter. Our stock is grown on our Altoona farms and is selected for thick flesh and solidity. It has been given special care and is of the highest type. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

WARPY HUBBARD.—(See Cut No. 8.)—A strain of the Hubbard. The wartiness indicates a very hard shell, which is one of the very best features of a long-keeping squash. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.25.

SYMIE'S BLUE HUBBARD.—A new strain of Hubbard and a splendid squash. Very thick meated, fine grained, dry and excellent flavor. Color clear, light blue; thick shelled and a good keeper. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

GOLDEN HUBBARD, also called Red Hubbard.—(See Cut No. 4.)—A counterpart of the old Green Hubbard, except in color, which is a bright, deep, orange yellow; fine flavor; in productiveness excels the green variety. Every market gardener will find it a "seller." Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25. One pkt each of the four Hubbards listed above, only 15c.

SPINACH

(One ounce will sow 80 ft. of drill, 10 lbs. to acre.)

Makes the finest "greens" of any plant in cultivation. For summer sow early in spring in deep, rich soil, one foot apart in drills; cover one inch; sow at intervals of two weeks all through season. For very early use sow first of September and protect with straw.

VICTORIA.—A variety distinguished for its very long standing qualities, being two or three weeks later than the ordinary varieties. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00. By express, not prepaid, 5 lbs. or more at 75c per lb.

LONG STANDING.—Standard with gardeners; leaves are thick, fleshy and crumpled, round, large, and dark green in color; slow to run to seed. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.00. By express, not prepaid, 5 lbs. or more at 75c per lb.

BLOODDALE.—Savoy-leaved, curled sort, very popular. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

NEW ZEALAND.—Very useful to supply the place of ordinary spinach during the hottest months of the year, or in dry, arid localities. A few plants will supply a family with this delicious vegetable from July to October. A distinct variety of merit. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25.

One ounce will sow 150 feet of drill.

TURNIP

Two pounds will sow an acre.

For early, sow in April in drills half an inch deep and twelve inches apart; thin to six inches apart in the drill. For main crop sow broadcast in July and August, and before a shower if possible.

EXTRA EARLY PURPLE TOP MILAN.—One of the earliest sorts in cultivation. Bulb very flat, medium size, quite smooth, with a bright purple top; grows compact and makes exceedingly small strap-leaved top. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

EARLY WHITE MILAN.—Much like the above, but is pure white all over, instead of having purple top. Quite popular with gardeners. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

EARLY SNOWBALL.—A globe-shaped, white-skinned turnip, very fine grained, firm and of delicate flavor. One of best keeping of white fleshed sorts, very early and particularly adapted for market use. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

WHITE EGG.—A quick-growing, egg-shaped, perfectly smooth, pure white variety with small top and rough leaves. Flesh very sweet, firm and mild, never having any rank, strong taste. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

GOLDEN BALL, or Orange Jelly.—A beautiful bright yellow turnip of medium size and universally sweet and delicious flavor. Is hardy and one of the best keepers. Flesh extremely firm and solid. Brings good price on market. If you have never tried yellow turnips we advise you to plant some of the Golden Ball in your home garden this year. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.00.

PURPLE TOP GLOBE.—Similar to the Purple Top Strap Leaved except shape. The largest yielder of any turnip on the list and always brings top market price. Desirable for table use or for stock. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c, 5 lbs. or more, not prepaid, 45c per lb.

PURPLE TOP STRAP LEAVED.—The standard for this part of the country for late planting, and we sell immense quantities of it every year. One of the best table and stock sorts on the market; fine grained and of mild flavor.

Of good size, flat shape, pure white below with purplish red top. Good cropper and excellent keeper. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c; 5 lbs. or more, not prepaid, at 45c.

COW HORN.—Long, slender, white turnip. Heavy yielder and easy to harvest. Grown mainly for stock feeding. Used also as a green manuring crop. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

SCARLET KASHMYR.—This new extra early, bright scarlet turnip has a striking resemblance to a large radish. The flesh is white and crisp. Matures almost as quickly as the earliest radish, and when cooked is of unsurpassed quality. Good keeper and entitled to a place among garden favorites. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

SEVEN TOP.—Used as a pasture. The tops keep growing as they are eaten off by the stock. Hardy, but does not produce turnips. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

RUTA BAGA

Largely grown in the north for stock feeding, and for this are superior to turnips. Sow in June in drills 2 feet apart and thin out to 8 inches in the row.

IMPROVED AMERICAN.—Very solid, fine quality, good shape, smooth skin, small neck, keeps well. A choice strain of very best quality for table use or stock feeding. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 70c, 5 lbs. or more, not prepaid, at 55c.

MONARCH.—This grand new and distinct form of ruta baga is, we believe, by far the most productive of all. Of tankard shape, with very small neck, skin dark red above ground and yellow below. The flesh is rich yellow in color, fine grained and of good quality. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 70c, 5 lbs. or more, not prepaid, at 55c per lb.

WHITE SWEET GERMAN.—Large size, oval and very solid; flesh pure white, sweet. Best keeping sort. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 65c, 5 lbs. or more, not prepaid, at 50c per lb.

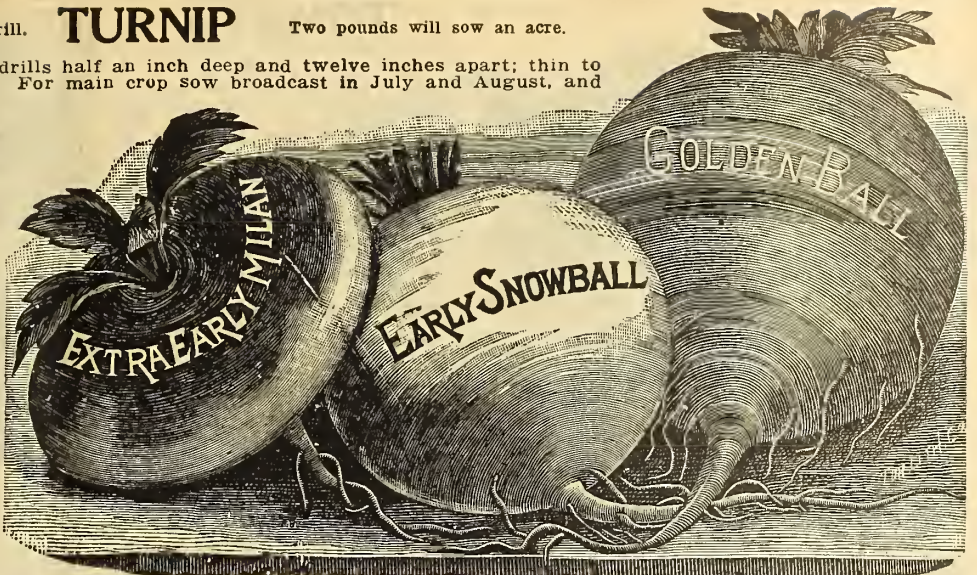
TOBACCO

BIG ORONOCO.—A favorite Virginia variety. Grows very large, broad leaves. A fine variety for dark plug wrappers and brings a good price in the market. Pkt. 5c, oz. 30c, ¼ lb. \$1.00.

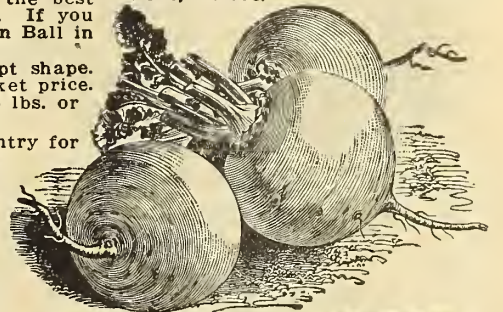
CONNECTICUT SEED LEAF.—This is a staple variety in all sections of the country and will grow successfully over a wide range of territory. Used for cigar fillers. Pkt. 5c, oz. 25c, ¼ lb. 75c.

HAVANA.—The best known variety, as it is used very largely for cigar wrappers. Commands the highest market price when well grown and cured. Pkt. 5c, oz. 40c, ¼ lb. \$1.25.

WHITE BURLEY.—A mild and sweet tobacco. It is the standard main crop variety in the tobacco sections as it is extra fine for manufacturing in nearly every manner that tobacco is used. Pkt. 5c, oz. 30c, ¼ lb. \$1.00.



MIXED TURNIPS.—All the table varieties mixed in equal proportions. For family use. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.



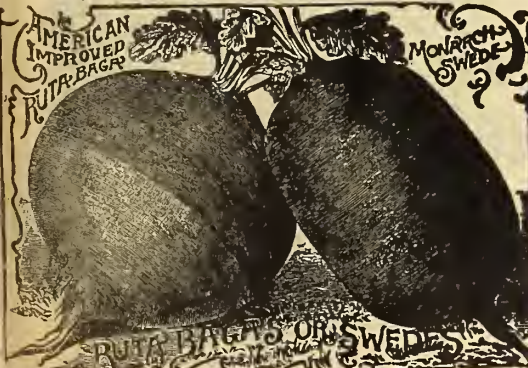
WHITE EGG.



PURPLE TOP GLOBE



PURPLE TOP STRAP LEAF



TOBACCO

GET THE SMALL GRAIN OFF EARLY AND SOW TURNIPS ON THE STUBBLE. TWO CROPS MAY BE SECURED IN THIS WAY.

TOMATO

(One ounce will produce about 2,500 plants.)

Sow early in hotbeds or seed boxes and when plants have four leaves transplant to four or five inches apart. Give plenty of air and endeavor to secure a vigorous growth. When all danger of frost is past, transplant to the open ground, four to six feet apart each way. Well manured, light, sandy soil is best. Our tomato seed is saved from hand picked fruits. No decayed or deformed tomatoes are used.

SPARKS' EARLIANA.—Probably no early tomato has so large a sale as Sparks' Earliana. Extremely early, remarkable for its large size, handsome shape, and beautiful bright red color. One of the most profitable crops for the market gardener and especially desirable in the home garden. Pkt. 10c, oz. 35c, ¼ lb. \$1.00, lb. \$3.50.

JUNE PINK.—This may briefly be described as a pink Sparks' Earliana. Fruits medium size, smooth, without cracks or green core. Skin is tough, thus making it a good shipper. Color is bright pink. Pkt. 5c, oz. 35c, ¼ lb. \$1.00, lb. \$3.50.

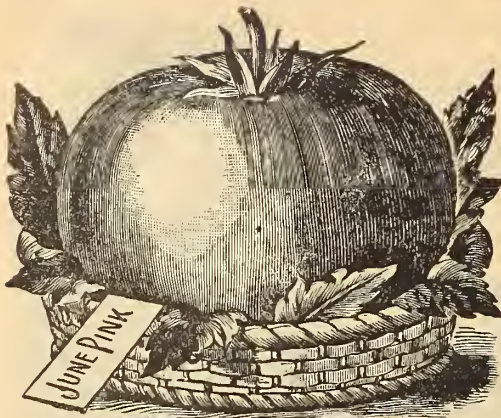
SUPERLATIVE.—The best of all the main crop, medium sized tomatoes. Fruits are medium size, very solid, and without exception the best flavored red tomato we have ever grown. It is very handsome, being a pinkish crimson in color. While we grow many other varieties on our seed farm, our women folks use Superlative in preference to any other. It will please the most critical. Pkt. 25c, oz. \$1.00.

DWARF CHAMPION.—Plant dwarf and compact, stem stiff and short jointed, almost self-supporting when laden with fruit. Early; purplish pink color; smooth, symmetrical, solid and of fine quality. Best to grow for plants for sale as they are so stocky. Pkt. 5c, oz. 30c, ¼ lb. \$1.00, lb. \$3.50.

THE EARLIEST TOMATO IN THE WORLD



SPARKS' EARLIANA.



SUPERLATIVE

DWARF STONE.—A dwarf, upright growing plant with fruits fully as large as the standard Stone variety. The fruits are held up well, while it is far superior to any of the other kinds in size. Color and quality of fruit is high class. Pkt. 10c, oz. 35c, ¼ lb. \$1.20, lb. \$3.50.

STONE.—One of the best standard sorts. Color bright red. Fruit large size, perfectly smooth and of best table quality. Much used for canning. Productive. Pkt. 5c, oz. 25c, ¼ lb. 75c, lb. \$2.75.

ACME.—Was at one time the standard early market variety. Good size, smooth, light purple in color. Pkt. 5c, oz. 25c, ¼ lb. 75c, lb. \$2.50.

LIVINGSTON'S BEAUTY.—One of the best. Its size, beauty, shape, color, flavor and productiveness make it desirable to market growers. Pkt. 5c, oz. 30c, ¼ lb. 85c, lb. \$2.75.

MATCHLESS.—Well worthy of its name, for in beauty, color and symmetry of form it is indeed without a peer. Vines of strong, vigorous growth, well set with fruit, which is entirely free from core, of finest flavor, very rich cardinal red color, and not liable to crack from wet weather; of large size, and the size of the fruit is maintained throughout the season. Solid, of fine quality, keeps well. Pkt. 5c, oz. 30c, ¼ lb. 90c, lb. \$3.00.

PERFECTION.—Large and round, smooth and handsome red fruit of highest quality. It proves very satisfactory for forcing under glass. Pkt. 5c, oz. 25c, ¼ lb. 75c, lb. \$2.50.

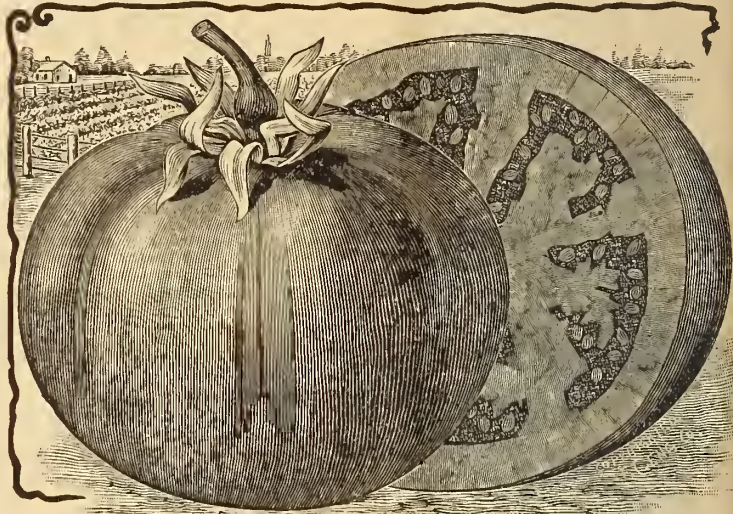
GOLDEN QUEEN.—Large, yellow. Its fruit is smooth and of finest flavor; ripens evenly; handsome. Pkt. 5c, oz. 25c, ¼ lb. 90c, lb. \$3.00.

PONDEROSA.—Very large, inclined to be irregular in shape, but of fine quality. Purplish red. Pkt. 10c, oz. 45c, ¼ lb. \$1.50, lb. \$5.50.

CRIMSON CUSHION.—Can be grown on trellises. Grows 7 to 10 feet high, if desired; most of fruit is borne 3 to 4 feet from the ground. Fine quality, extremely large and excellent. Pkt. 10c, oz. 45c, ¼ lb. \$1.50, lb. \$5.50.

WONDER MAGNUS.—Is of very good size, deep, rich, red color, very solid and containing few seeds. The best of the potato-leaved tomatoes. A favorite for canning purposes because of its color. Pkt. 10c, oz. 35c, ¼ lb. \$1.00, lb. \$3.50.

Do not overlook the Canning Club Collection on inside back cover page.



MATCHLESS



LIVINGSTON'S BEAUTY



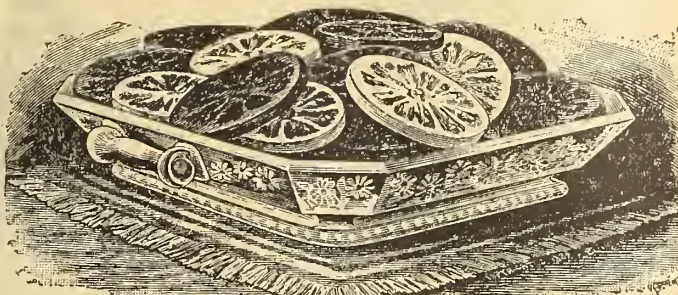
THE STONE TOMATO

GRAND TOMATO TRIO

THE THREE MAJESTICS

One Packet Each of the Three Majestics, 25c

MAJESTIC.—This is the largest, handsomest and finest quality tomato ever sent out. When we first secured this grand sort we knew that it was of exceptional merit and superior in size and flavor to anything on the market, but we were astonished at the reports received from our customers. Thousands of letters arrived speaking of it in the highest praise. Undoubtedly the largest fruited of any, and the fruit is solid, weighing more than its size would indicate. The first fruits matured are somewhat rough, but later they are smooth and handsome, of rosy red color, its core blending into delicate shell-rose tints. Fruit is unusually solid, with very small seed cells. Flesh is tender, fine grained and rich, yet of mild, delicate flavor, being of the sub-acid class. Plant is of vigorous growth and many of our customers report specimens of 3 lbs. to 7 lbs. each. The largest were, of course, grown by special culture. There were also many reports of 120 to 160 lbs. of tomatoes grown on one plant. Pkt. 10c, oz. 50c, ¼ lb. \$1.50.



Illustrating the three Majestics served on the table.

GOLDEN MAJESTIC, the \$1,800.00 Tomato.—A magnificent new variety which originated in northern Iowa, and we were so favorably impressed with it that we bought all the stock in existence and paid for same at the rate of \$1,800.00 per lb. It is the golden member of the great triumvirate, fully equal to its elder brothers in size, solidity, yield and flavor. Without hesitation, we pronounce it the grandest yellow tomato in existence. The tomato is undoubtedly the most popular vegetable in America, and nothing presents a more appetizing appearance than thick, luscious slices of alternating purple, red and yellow, cut from our Majestics. A trial will convince you of their superior qualities. Pkt. 15c, oz. \$1.00.

RED MAJESTIC.—This new sort appears to have all the good qualities as well as large size of the world-renowned Majestic, but is a bright cardinal red in color, and for this reason may be preferred by some. Bears its fruit well up from the ground, out of reach of the chickens. Pkt. 10c, oz. 50c, ¼ lb. \$1.50.



Plant of Majestic Tomato grown by W. R. Long, Iowa County, Iowa.

MAJESTIC TOMATO PLANTS

STRONG, WELL-GROWN, TRANSPLANTED PLANTS

MajesticPer dozen, 40c; per 100, \$2.00
 Red MajesticPer dozen, 40c; per 100, 2.00
 Golden Majestic ..Per dozen, 40c; per 100, 2.00

One dozen of each only \$1.00, postpaid.

PRESERVING TOMATOES

GOLDEN NUGGET.—When at the Royal Agricultural Show in England, our attention was especially attracted by this grand new variety. Fruits are beautiful golden yellow, round as a ball and about as large as a hulled black walnut. Flavor exceptionally fine, and a most desirable variety for eating from the hand or as a dessert fruit. We have grown them now both on our farm and at our trial grounds, and were more than pleased. Plants were loaded with most beautiful, rich, golden yellow fruits of delicious flavor. Try them. They are extra fine. Pkt. 10c, oz. 75c.

PEACH.—Named from its resemblance to a peach in size and shape. Color a peculiar shade of pink and orange, differing from ordinary tomatoes. A fine sort for preserving. Pkt. 10c, oz. 40c.

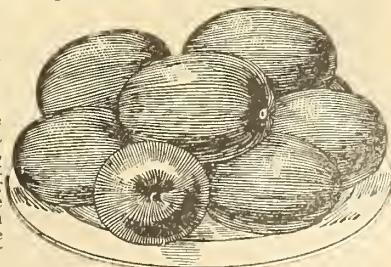
YELLOW PEAR.—A favorite with all who know them. Pear-shaped and a deep yellow color. Highly valued for preserving or to make "tomato figs." They are fine pickled. Pkt. 5c, oz. 30c, ¼ lb. 85c.

CRIMSON CURRANT.—A most charming little fruit, hardly more than a half inch in diameter, of bright crimson color; borne in long clusters containing from twenty to sixty tomatoes. Excellent for eating from the hand or preserved. Pkt. 10c, oz. 60c.

STRAWBERRY, or Husk Tomato.—Also called Ground Cherry. Is of spreading habit and immensely productive. Pkt. 5c, oz. 30c.

VINE PEACH

A splendid novelty introduced by us. The vine on which they are borne is similar to the musk melon vine, and requires same cultivation. Fruit about the size of a large peach, oval shaped, and of a bright orange yellow color, somewhat russety. For sweet pickles, pies or preserving they are superb. A jar of these cut in halves and cooked in



VINE PEACH



GOLDEN NUGGET TOMATO

syrup presents a beautiful appearance. Recipes for preparing for the table will be sent with each packet. Where fruit is scarce, they are popular, as they are easily cultivated, wonderfully prolific, and can be used in every culinary way in which you would use a peach; not usually liked raw. Pkt. 5c, oz. 25c, ¼ lb. 75c.

THERE ARE NO TOMATOES IN THE WORLD SUPERIOR TO OUR THREE MAJESTICS. PROVE THEIR MERITS BY A TRIAL

HERBS

In making up your assortment of seeds for the year don't neglect to order a few varieties of herbs. The chief point is to harvest them properly, which should be done on a dry day when not quite in full bloom, dried quickly and packed closely and entirely excluded from air. Those marked with an asterisk (*) are perennial.

ANISE.—Seeds of agreeable, aromatic taste. Pkt. 5c; oz. 10c.

BALM.—For making balm tea. Pkt. 5c; oz. 25c.

BASIL, SWEET.—For flavoring soups, stews, etc. Pkt. 5c; oz. 15c.

BORAGE.—Leaves used for flavoring. Pkt. 5c; oz. 15c.

***CARAWAY.**—Seeds are used for flavoring bread, etc. Pkt. 5c; oz. 10c.

***CATNIP, or Catmint.**—For seasoning. Pkt. 5c; oz. 30c.

CORIANDER.—Seeds used in confectionery. Pkt. 5c; oz. 10c; ¼ lb. 25c.

CASTOR OIL PLANT.—Seeds are pressed out to obtain oil. Pkt. 5c; oz. 10c; ¼ lb. 20c, lb. 50c.

***CHAMOMILE.**—Largely used for medicinal purposes. Pkt. 10c.

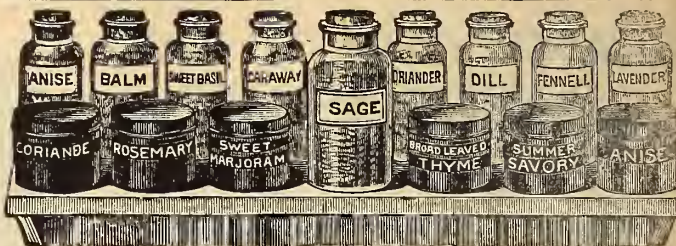
***DANDELION.**—Grown for greens, also for medicine. Pkt. 5c; oz. 35c.

DILL.—Used in making dill pickles. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

***FENNEL, SWEET.**—Leaves used in sauces. Pkt. 5c; oz. 10c.

***HOREHOUND.**—For seasoning and cough remedy. Pkt. 5c; oz. 20c.

***HYSSOP.**—For asthma and catarrh. Pkt. 5c; oz. 20c.



***LAVENDER.**—Used as a perfume. Pkt. 10c; oz. 25c.

MARJORAM, SWEET.—For seasoning. Pkt. 5c; oz. 15c.

POPPY, or Maw.—Blue Seeded. Pkt. 5c; oz. 10c.

***ROSEMARY.**—Aromatic leaves used for seasoning. Pkt. 5c; oz. 40c.

***RUE.**—For medicinal uses; good for fowls. Pkt. 5c; oz. 15c.

SAFFRON.—Flowers used for coloring. Pkt. 5c; oz. 15c.

***SAGE.**—Much used for dressing. Pkt. 5c; oz. 20c; ¼ lb. 70c; lb. \$2.50.

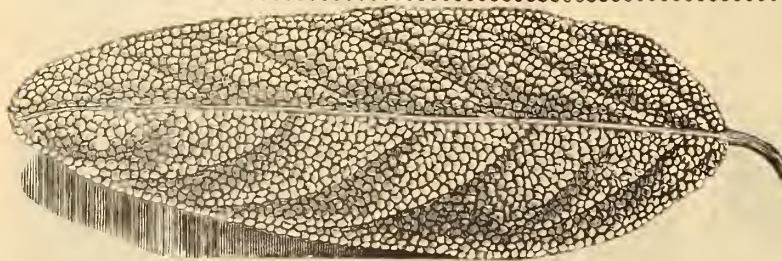
SUMMER SAVORY.—Used for flavoring. Pkt. 5c; oz. 20c.

***TANSY.**—Cultivated for medicinal purposes. Pkt. 5c; oz. 40c.

***THYME.**—Leaves and young shoots used for seasoning. Pkt. 5c; oz. 40c.

***WORMWOOD.**—Used medicinally, and also for poultry. Per pkt. 5c; oz. 20c.

MIXED VARIETIES.—A mixture of all the above. A nice garden assortment. Pkt. 5c; oz. 20c; ¼ lb. 65c.



HOLT'S MAMMOTH SAGE—AVERAGE SIZE LEAF

ARTEMISIA, or Brotan.—A hardy plant sometimes called "Old Man." The leaves have a pleasant odor and bitter taste. Use similar to wormwood. Each 15c; 3 for 40c.

BALSAM MINT.—Has a soft, agreeable fragrance and is used for perfume; also used for flavoring soups, salads, etc. Each 15c; 3 for 40c.

CALAMUS—Plain Leaf.—(Acorus.)—Also called "Sweet Flag." Leaves have an aromatic odor and roots a pungent taste. Grows in wet soil or beside ponds, but can be grown in dry places also. Each 15c; doz. \$1.50.

CHIVES.—Perfectly hardy little perennials of the onion tribe, and are grown entirely for their tops, which are used wherever flavor of onion is required. Plant in any common garden soil and they will grow readily. The tops appear very early in spring and can be shorn throughout the season. Roots per bunch 10c; 3 for 25c; dozen 85c.

CATNIP, or Catmint.—A well known perennial herb having great medicinal value. Used largely for infants. Ea. 10c; 3 for 25c; doz. 75c.

HOP ROOTS.—Golden Cluster.—A fine variety of commercial hops. The vines are very ornamental when trained over rockeries, stumps, etc., with the added value of usefulness from the crop produced. Each 10c; 3 for 25c; dozen \$1.00.

LEMON MINT.—Also called Citronelle. A perennial, hardy herb, leaves of which furnish a sweet lemon fragrance and flavor. Each 10c; 3 for 25c; dozen 75c.



ENGLISH CLUSTER HOP

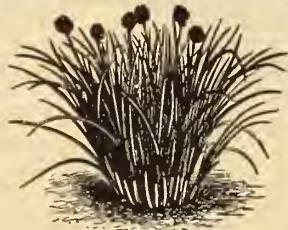
MONARDA DIDYMA.—Also called Scarlet Bergamot and Oswego Tea. Not only useful as an herb, but very ornamental for its bright scarlet flowers. Each 10c; 3 for 25c; doz. 75c.

PEPPERMINT.—All children know and like the flavor of peppermint. It has a high medicinal value. Any pantry collection of dried herbs is incomplete if it does not contain some peppermint. Be sure that your order calls for at least a few plants. Each 10c; 3 for 25c; dozen 75c.

GENUINE PENNYROYAL.—Warm, pungent, of somewhat aromatic taste; used for medicinal purposes. Each 15c; 3 for 40c; doz. \$1.25.

ROSEMARY.—Used for perfume; for flavoring meats, stews, etc., and garnishing. Each 10c; 3 for 25c; doz. 75c.

HOLT'S MAMMOTH SAGE.—Great improvement on common sage. Plants very strong growing; leaves are very large and of unusual substance, strong in flavor and of superior quality. A single plant of Holt's Mammoth will yield more than a dozen of the common sort; hardy. Each 10c; 3 for 25c; dozen 75c.



CHIVES

GARDEN PLANTS AND ROOTS

Every garden should contain an assortment of these hardy plants and a few square feet will supply the family. Many persons now believe that if these well known old remedies were kept and used more in families in place of so many drugs and patent medicines it would be better for the health of the people. Orders for these plants must amount to at least twenty-five cents. We pay the postage.

LAVENDER.—A favorite plant with our grandmothers for perfuming wearing apparel, by distributing its sprays in the bureau drawers. Each 10c; 3 for 25c.

VARIEGATED MAMMOTH SAGE.—Beautifully variegated dark green and pure white color, which makes it a very ornamental plant; equal to Holt's in productiveness and flavor; new and scarce. Each 15c; 3 for 35c.

SPEARMINT.—This is commonly called Mint and thousands of dollars' worth of it is sold annually in New York, Boston and other cities for flavoring salads, garnishing meats, mint julep, etc. Each 10c; 3 for 25c; doz. 75c.

THYME.—A well known plant which is used for sauces and flavoring. Each 10c; 3 for 25c.

***TANSY.**—Used largely for its tonic, stomachic and other medicinal qualities. Each 10c; 3 for 25c; doz. 75c.

TARRAGON.—The true tarragon is appreciated thoroughly by all who know of it, for the use of its aromatic leaves in seasoning salads, soups, pickles, etc., and also for tarragon vinegar. Each 15c; 3 for 40c; doz. \$1.25.

HOUSEWIFE HERB COLLECTION

3 bunches Chives, 1 Hop Vine, 2 Holt's Mammoth Sage, 2 Lavender, 1 Rosemary and 3 Spearmint; all postpaid for \$1.60.



TARRAGON

NO PANTRY OR GARDEN IS COMPLETE WITHOUT ITS ASSORTMENT OF HERBS FOR SEASONING OR MEDICINAL USES.



Well grown and lightly packed to carry a long distance. They can be shipped fresh, well packed at the beds, on a day's notice. All are strong, transplanted plants unless otherwise stated. Plants quoted "by mail" are sent at our expense; "by express" the purchaser is to pay the express charges. No charge either for packing or boxes. Plants from either hotbed or cold frame are ready during April or May; outdoor grown during June and until the middle of July. 500 sold at 1,000 rate. Large orders for more than 1,000 plants should be placed at least 30 days before shipping date.

EARLY CABBAGE.

Transplanted ready April 10.
Extra Early Express.
Early Jersey Wakefield.
Washington Wakefield.
All-Head Early.
 By mail postpaid, 25 for 35c, 100 for \$1.00. By express, not prepaid, 100 for 85c, 1,000 for \$7.50.

If preferred we can furnish seedling plants, not transplanted, by mail postpaid, 25 for 25c, 100 75c. By express, not prepaid, 100 for 60c, 1,000 for \$4.00.

LATE CABBAGE.

Ready May 15; field grown after June 15.

Premium Flat Dutch.
Short Stem Drumhead.
Danish Ball Head.

By mail postpaid, 25 for 25c, 100 for 65c. By express, not prepaid, 100 for 45c, 1,000 for \$3.50.

CELERY.

Transplanted ready May 1.
White Plume. Giant Pascal.
Golden Self Blanching.
 By mail postpaid, doz, 20c, 100 for 75c. By express, not prepaid, 100 for 60c, 1,000 for \$4.50.

After June 15 we can furnish outdoor grown plants, not transplanted, by express, not prepaid, 100 for 40c, 1,000 for \$3.00.

CAULIFLOWER.

Transplanted ready April 15.
Henderson's Snowball.
 By mail postpaid, doz, 25c, 100 for \$1.50. By express, not prepaid, 100 for \$1.25, 1,000 for \$10.00.

TOMATO.

Transplanted ready May 1.
Sparks' Earliana. Beauty. Stone.
Dwarf Champion. Matchless.
 By mail postpaid, doz, 25c, 100 for \$1.40. By express, not prepaid, 100 for \$1.00, 1,000 for \$7.50.

Not transplanted, by express, not prepaid, 100 for 75c, 1,000 for \$5.00.

SPECIAL TOMATO.

Transplanted plants only.
Superlative, Majestic, Red Majestic.
Yellow Majestic. Dwarf Stone.
 By mail postpaid, doz, 40c, 100 \$2.00.
Pot Grown Plants, doz, 75c, postpaid

VEGETABLE PLANT COLLECTION

JUST ENOUGH FOR THE HOME GARDEN

READY FOR MAILING MAY 1st.

It often happens that you would prefer to buy a few vegetable plants rather than bother with growing from seed. We appreciate this fact and offer you the following collection as a veritable bargain:

12 Tomatoes, 25 Early Cabbage, 6 Pepper, 6 Egg Plant, 25 Celery, 50 Sweet Potatoes. All by mail, postpaid, for \$1.00.

ASPARAGUS ROOTS

It pays to have a small bed of asparagus so as to gather it fresh, and when once set, a bed will last many years. Our roots are strong and healthy. We recommend the one-year-old roots as more desirable for general planting than the two-year-old, as well as cheaper. Ask for circular giving directions for planting.

CONOVER'S COLOSSAL.—One year plants.—Per doz, 25c, 100 for 90c, postpaid. By express or freight, not prepaid, 100 for 60c, 1,000 for \$4.00.

Two year plants.—Per doz, 50c, 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for 90c, 1,000 for \$6.00.

PALMETTO.—One year plants.—Per doz, 30c, 100 for \$1.00, postpaid. By express or freight, not prepaid, 100 for 75c, 1,000 for \$5.00.

Two year plants.—Per doz, 55c, 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for \$1.00, 1,000 for \$6.50.

COLUMBIAN MAMMOTH WHITE.—Per doz, 30c, 100 for \$1.10, postpaid. By express or freight, not prepaid, 100 for 75c, 1,000 for \$5.00.

Two year plants.—Per doz, 55c, 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for \$1.00, 1,000 for \$6.50.

RHUBARB ROOTS

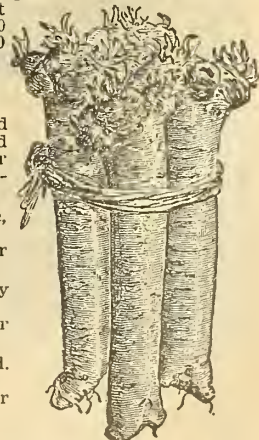
Everyone realizes the value of rhubarb or pie plant in the home garden. The best way to get a start is to purchase a few roots, as you can save one year's time in this way. The roots we offer are not seedlings but large divided plants. Plant in spring or fall, setting plants 3 feet apart each way.

VICTORIA.—The standard for general use. Each 15c, 5 for 70c, dozen \$1.50, postpaid. By express, not prepaid, per doz, \$1.00.

IDEAL MAMMOTH.—The largest and best variety. See description in vegetable seed department. Strong roots 35c each, doz, \$2.50, postpaid. By express, not prepaid, per doz, \$1.50.



GARLIC ROOTS.



HORSE RADISH SETS

HORSERADISH

Grow it in your own garden and grate fresh. Plant the sets small end down in rows 3 feet apart, about 12 inches apart in the row. It does best in rich, loose soil set slanting and covered about two to three inches. Doz, 15c, 100 75c, postpaid. By express, per 100 50c, 1,000 for \$4.00.

GARLIC

Species of onion propagated by dividing the bulbs into small pieces, planting each one separately. It is quite pungent and is used for flavoring soups, stews, etc. Per lb, 40c, postpaid. By exp., lb, 25c, 10 lbs, \$2.25.

THERE ARE SEVERAL KINDS OF ONION SETS LISTED IN THIS CATALOGUE ON PAGE 21. THEY ARE NOT EXPENSIVE.

SEED POTATOES

The Proof of the Potato is in the Eating



ROSE OF THE NORTH

An improvement on the old Early Rose which has been grown on the virgin soil of the far north. It is very early, being only a trifle later than the Early Ohio and much larger. Is smooth and of handsome rose color. Quality superb, either baked or boiled, and yields immensely. Keeps sound well into spring. This new strain is rapidly gaining the place long held by the old Early Rose. Pk. \$1.00, bu. \$3.00.

Prices on Potatoes frequently change as the market advances or declines. See Red Ink Price List accompanying this Catalogue.

It is of greatest advantage to potato growers to purchase their seed of us. By using our northern grown stock you are assured of early maturity, increased yield and vigorous growth. There is no longer any doubt that seed potatoes from the Red River Valley surpass those from any other section of the country with the possible exception of the state of Maine. We have for a number of years had our supplies grown in the northern part of Minnesota and Dakota and the comparative tests have each season shown an advantage for the northern seed. This is especially true of the early varieties. They mature earlier, are free from disease and produce more abundantly than home grown stocks. Prices on potatoes fluctuate greatly, but good seed potatoes are always worth more than ordinary table stock. This part of the catalogue is printed in November. We cannot fix price so far in advance of the selling season, hence we only quote in smaller quantities. If you want a large lot consult the red ink price list of farm seeds which is dated the day it is mailed with this catalogue. Should you not send your order until a change in price has occurred we will notify you upon receipt of your order and hold it until we can hear from you. If the order comes too late in the season for correspondence we will send the full value of the money received.

A PLANET JR. NO. 8 HORSE HOE is the best machine for cultivating the potatoes. You can do all the work but the planting with this tool, and do it with ease and satisfaction.



FANCY NORTHERN GROWN EXTRA EARLY OHIO (Grown in Red River Valley)

EXTRA EARLY OHIO

Fancy Northern Grown Stock

For several years past we have been having these grown in the noted Red River Valley, about 400 miles north of Des Moines, and careful tests have proved them to be fully ten days earlier than the Iowa grown stock. This is a great advantage to the gardener, and puts this variety at the head—the most popular of all. They are all of good, average size, strictly pure, smooth and free from scab or rot, and outyield the other early sorts. It is an especial favorite with marketmen, and the most profitable potato they can grow. The sprout is very strong and the vines grow erect, making it easy to cultivate, and on account of its early maturity you can get the highest market prices. They will keep firm till late in the spring. This variety is frequently sold under the name Extra Early Six Weeks. This is our specialty in standard varieties. Also desirable for late planting as they keep well for winter and spring use. Pk. \$1.00, bu. \$3.25.

EARLY OHIO

Grown in Iowa

These were originally from our choice northern grown stock. Have been kept pure and are really good. They have been grown a year or two in this state and it is possible they are a few days later in maturing, and will not be quite so good as the fancy northern grown stock, but they are as fine as can be found in Iowa and can be grown for market with profit as the cost for seed will not be excessive. Pk. \$1.00, bu. \$3.00.

POUND PRICES.—All varieties, except where quoted, 25c per lb., 3 lbs. 60c, postpaid. Read T. B. Terry's new book, "A B C of Potato Culture." Price 50c, postpaid.

IRISH COBBLER

EXTRA EARLY NORTHERN GROWN STOCK.

The Irish Cobbler has the form and color so popular in the market. Is prolific and profitable to the grower and from these causes has become a much prized variety. Matures as early as the Early Ohio, and is preferred by many because it is smooth and round in shape and of cream white color. The flesh is white and of fine quality and flavor. It is a strong, vigorous grower, with strong germ. Eyes well developed and slightly indented. Generally quoted at a premium in the summer markets because it is of economical shape, there being no waste in preparing for cooking. It is rapidly taking front rank as a market variety, and its popularity is founded on real merit. As with the Early Ohio, we recommend our northern grown stock as being more prolific and earlier in maturing. Pk. \$1.00, bu. \$3.25.



SLUG SHOT IS CHEAP AND WILL KILL THE POTATO BUGS. BETTER ORDER SOME WHEN YOU ORDER YOUR POTATOES

POTATOES--Continued

RURAL NEW YORKER

The Most Popular Main Crop Variety.

One of the largest yielding varieties in existence. Preferred by large buyers because it is large and unusually smooth, with few and shallow eyes, skin white as is also flesh, which is of good quality. Medium late and the best drouth resister. There is no other potato of more handsome appearance than the Rural New Yorker. It is very hardy and will stand the heaviest manuring without getting scabby or spotted. For this reason it is one of the most desirable varieties for farmers and potato growers near large cities to grow for main crop for market. Under ordinary circumstances they will yield from 300 to 400 bushels per acre and by heavy manuring this yield can be almost doubled. Pk. \$1.00, bu. \$3.00. See red ink price list for quantity prices.

NORTHERN KING

A Main Crop Potato of Exceptional Quality.

Offered as the potato par excellence in quality. Has light red or pink color and oblong shape and is vigorous and prolific. It will outyield either Rural New Yorker or Burbank and because of extra vigor and vitality will make a crop under most trying conditions. It is quality that recommends this variety, the writer preferring them to all other kinds for winter use. The tubers average larger in size than most sorts, are smooth and of good shape, and they cook whole, either baked or boiled, without hard centers or becoming "soggy." For the family who wish to grow their own potatoes for the winter supply we believe the Northern King will prove the best variety to plant. Pk. \$1.00, bu. \$3.00. See red ink price list for quantity prices.



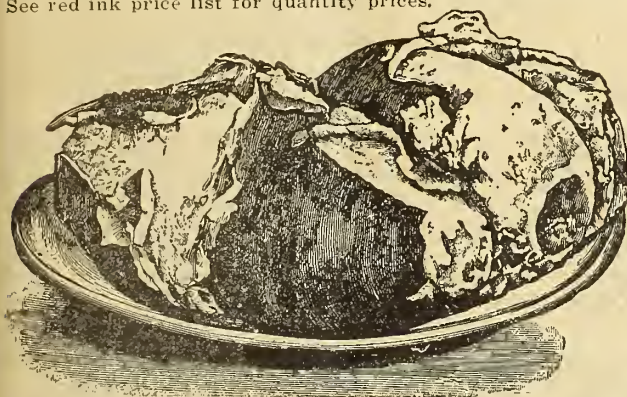
RURAL NEW YORKER

BURBANK

A Standard Long White Variety.

An old standard main crop variety which is very popular because of market demand and heavy yields. Satisfies both the grower and the consumer. Tubers are large, oblong and have fairly deep eyes. Color white, quality excellent, cooking very mealy and of attractive whiteness that pleases. Contents with Rural New Yorker for first place. Our seed is good and we offer it believing it will give results. In our opinion no white potato excels the Burbank in quality, and some grown in sandy soils on new land often command a premium in city markets. Pk. \$1.00, bu. \$3.00. See red ink price list for quantity prices.

HYBRIDIZED POTATO SEED.—Potato seed from the flower boll (the true seed). It is from such seed that the choice new varieties of potatoes are originated. The result is interesting and often very profitable, and you are just as apt to obtain a choice new variety as an experienced potato specialist. Pkt. 10c, 3 for 25c.



SEED SWEET POTATOES

PRICES SUBJECT TO CHANGE OF MARKET.

Thrive on any of the loam soils of the Middle West, and do specially well on sandy ground. They are so easily grown that there should be plenty at every home where a small plot of ground is available. A few hundred plants will supply all you need. One customer reports 20 tubers, weighing over twenty pounds, from a single hill, and a full bushel from three hills last year. We do not recommend that you buy sweet potatoes for a small family garden. Better buy plants unless you need a thousand or more. They are not expensive, ship without loss, and grow readily when transplanted. Plants are priced both postpaid and by express, in large or small quantities, on page 33. It is not, however, difficult to grow plants and if you desire information ask for our circular, "How to Grow Sweet Potatoes," and we will mail it free. Keep them free from weeds and the ground mellow. After vines begin to run they will keep down the weeds.

Our seed sweet potatoes are grown, stored and handled especially for seed purposes. They are not cold storage stock on which the germ has been killed but are fresh and vigorous. It is absolutely necessary that they be handled quickly in spring as they do not keep well after being taken from the storage bins. We cannot guarantee them to be all sound upon arrival and we try to protect our customers by prompt service. For this reason we hold the potatoes and fill orders at once so as to get them to you promptly. We usually ship from April 12th to 20th and notify our customers when we start them. Prices are subject to change of market, and we will be pleased to quote firm prices in March.

EARLY YELLOW JERSEY.—An improvement on the Yellow Nansemond. In spite of the many so-called new varieties, all of which we have tested, Early Jersey holds first place. The earliest and most productive; of large, short, chunky shape and of the very best quality. It will probably always remain the most popular market sort. 10 lbs. 75c, 50 lbs. \$2.75, bbl. \$4.50. Ask for prices in quantities.

RED JERSEY.—Similar in shape to Yellow Jersey, but dark red color. Do not rot so quickly as other kinds and are preferred by many. Quality excellent. 10 lbs. \$1.00, 50 lbs. \$3.50, bbl. \$5.50.

WHITE SOUTHERN QUEEN.—These are the large "yams" which are so popular in the South. Even the seed potatoes are of monster size and often weigh several pounds each. 10 lbs. 75c, 50 lbs. \$3.00, bbl. \$5.00.

Any of the varieties of sweet potatoes by mail, postpaid; at 35c per lb, 3 lbs. for \$1.00.



EARLY YELLOW JERSEY

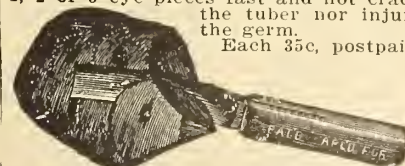


I received the sweet potato plants in very good condition. I did not believe you could send plants to Texas so fresh and nice.—Chas. Schubert, Lexington, Texas.

CONCAVED AND CURVED SEED POTATO KNIFE

It is thin and of the right shape to cut 1, 2 or 3 eye pieces fast and not crack the tuber nor injure the germ.

Each 35c, postpaid.



CONCAVED AND CURVED POTATO KNIFE

FARM SEED DEPARTMENT

EXPERT PRODUCTION

EXPERT SUPERVISION

EXPERT SERVICE

THE SINCERE EFFORTS AND SPLENDID FACILITIES OF THE ENTIRE ESTABLISHMENT ARE AT YOUR SERVICE

We can help you if you will patronize our Farm Seed Department. We have the equipment necessary to grade up our Farm Seeds to the highest possible excellence. We can give you better stocks than you can get elsewhere. Every item offered in this list has been carefully grown to maintain purity. Every one has had expert treatment in our special machinery and appliances to make it better than when it came to us, and we do improve it. We have so much pride in our stocks that we are ready to be judged in any way you see fit. We will mail free samples of any item for inspection. We will ship you seed with the understanding that it must be satisfactory or it may be returned to us within fifteen days and the money paid for it will be refunded. You can inspect it and test it yourself. You can have it inspected and tested by any authority and we will cheerfully abide by the report. You know we could not afford to make such an offer if we were not sure of our ground.

Let us help you improve your crops, both in quality and quantity

We put time and money and painstaking care into the farm seed line. We have to. We must supply better seeds than you can get elsewhere if we are to have your trade. The present-day farmer raises good grains and if we are to surpass him in quality, we have to keep wide awake and progressive. If our grass seeds are to excel in purity and vitality, it requires the closest scrutiny in buying and cleaning. We ask your trade solely upon our ability to please you.

PRICES named in this department are always subject to important market changes. All quotations are net and are not subject to any premium or discount. Clover and grass seeds are constantly varying in value, and we issue a red ink price list daily during the busy season. Please write for quotations, sending list of requirements when in need. Orders sent us will be given benefit of lowest prices on day order is received. Will take pleasure in mailing samples and quoting inside prices at any time on large orders.



WAREHOUSE, 208-210-212 SOUTH EIGHTH ST., WHERE ORDERS FOR FARM SEEDS ARE FILLED.

SHIPPING WAREHOUSE

Has side-track capacity for seven cars at once, and loading stations for five wagons at the same time. It houses the most modern electric cleaning machinery, with capacity for 1,000 bushels of grass seed per day. It contains a seed drier which will thoroughly cure a car load of grain each day. It also contains the grading and scarifying machines and special devices for hand sorting when necessary. Last year we installed the machinery necessary to sort, shell and grade seed corn at the warehouse, so that we might double our output if wanted.

ALTOONA ELEVATOR

Was erected a few years ago with numerous separate bins and storage capacity so that we might have a place to store the excess seed grain until needed for shipment, and quickly execute large orders for car lots. It is equipped with electric cleaning and grading machinery to improve the quality of the grain as it comes in from the threshers, and we can handle a car load through the elevator in less than one hour if necessary.

The above are only a few of the many special processes employed, but we have not room to enumerate further. Stocks supplied will tell the story.

OUR SEED CORN HOUSE

At Altoona, eleven miles east of Des Moines, is, we are sure, the best arranged and most complete building in America for this purpose. The outside walls are made up almost entirely of doors which can be lifted for ventilation and are in fact kept open all the time except during very cold or stormy weather. The interior arrangements consist mainly of very narrow high cribs with ventilators running through the entire length of them and narrow passages between the cribs. There is a very extensive system of steam pipes underneath which are used as needed for drying the corn and also to keep out moisture during foggy weather and to protect it from freezing.

Shipping and quotations are net and are not subject to any premium or discount. Clover and grass seeds are constantly varying in value, and we issue a red ink price list daily during the busy season. Please write for quotations, sending list of requirements when in need. Orders sent us will be given benefit of lowest prices on day order is received. Will take pleasure in mailing samples and quoting inside prices at any time on large orders.

SHIPPING.—In this department everything that is quoted by the packet or pound is sent by mail, postpaid; all larger quantities, unless noted, are sent by express or freight at the expense of the purchaser. Prices named include bags and delivering to depot here.

ABOUT WARRANTING.—We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. However, we give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned, and the money paid for same will be refunded. We know of no responsible seed firm in the world which guarantees seeds any further than this. Compare with other seed catalogues and you will find we are right.

SOME NEW SPECIAL EQUIPMENT

We have a number of special machines and devices for improving our farm seeds, and think we are better equipped than any other house in the West to do this work at least cost.

OUR CLEANING MILLS

are large Clipper machines equipped with a hundred different screens, so that perfect grading and separation is possible. They are the best made for close work and give splendid results.

A GRADING MACHINE

for separating wheat from oats or mixtures of grain of any kind. Operates on the gravity principle and will do the work of separation perfectly. It also separates clover from timothy and takes weeds out of grass seeds that cannot be removed by the screen and wind process of the ordinary fanning mills.

THE HESS GRAIN DRYER

Installed at a cost of hundreds of dollars, to dry any grain or seeds that are immature at harvest, and to protect the germ by artificial ripening. Has proven valuable seasons like the year 1915 when corn and other grains were damaged by excessive rainfall.

SCARIFYING MACHINE

We purchased through Prof. H. D. Hughes, of the Iowa Agricultural College, who is the inventor, one of these machines, for the express purpose of scarifying sweet clover seed to increase germination. It will also scarify red clover, alfalfa or other hard hull seeds, and this will be done in any case where necessary to aid the percentage test.



OUR NEW SEED GRAIN ELEVATOR AT ALTOONA



SEED CORN HOUSE AT ALTOONA

WE MAKE NO CHARGE FOR BAGS. THEY ARE FURNISHED FREE WITH SEED PURCHASES AT OUR CATALOGUE PRICES.



It costs less than 60 cents
an acre to use our carefully
selected SEED CORN.

SEED CORN

Do you deem it wise to risk
doubtful corn when GOOD
SEED is so cheap?

GROWN, SELECTED, CURED, GRADED AND TESTED BY THE IOWA SEED COMPANY

WE DO NOT SELL EAR SEED CORN.—Did you ever stop to think that the man who buys ear seed corn pays double what he should for his seed? Every house in the trade that sells ear corn charges a premium for it. In addition, at least 25 per cent of the corn on the cob is tip and butt grains, unfit for seed. In reality, you pay double price for the privilege of seeing the ears before they are shelled. If you cannot trust selection to the seedsman, don't buy of him. We sort our corn just as carefully as you can. We do not throw out the choicest ears for ear corn trade and then sell everything else for the regular trade. We do not make seed corn on a price basis. We throw out every "nubbin" ear; we

discard every ear that shows mold or evidence of exposure or injury, and when the corn is ready for sheller and graders it is fit to plant anywhere. We try to treat every customer alike, give them nothing but seed we would be willing to plant ourselves, and we want to sell only one quality—the best.

AS NEARLY PERFECT AS YOU CAN PROCURE

We come to you this season with the best seed corn we have been able to offer in the last six years. Our crops are of unusual quality and if you want corn of superior merit send us your orders. We offer only stock grown specially for seed purposes from our own pedigreed stock seed. The results will show for themselves at harvest time. Now is the time to increase your corn crop for future years.

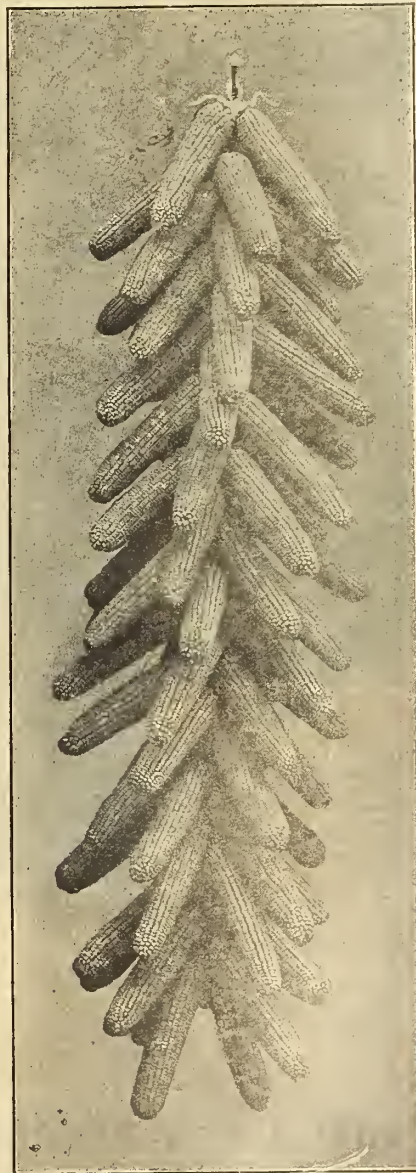
PLANT ONLY THOROUGHbred CORN

The progressive farmer does not use grade male animals to head his herds, and he should be equally careful in the choice of seed for planting, whether it is corn or any other crop. You can't raise a thoroughbred corn from any but thoroughbred seed. It is true that you can select good ears that appear all right, but reversion will show in the product and it will require years to bring your crops up to what they should be. It takes seven or eight years to fix a type of corn with the best methods, and you can save yourself time and labor and secure increased yields from now on if you purchase our seed this spring, because, as stated above, you can get exceptionally good stock this year of pure bred, sound, thoroughly matured, large sized corn, that will not be surpassed and probably not equaled again for several years.

When Joseph filled the granaries of Pharaoh in anticipation of the seven lean years, he set an example that wise men have followed ever since. It is not likely that the next following seasons will be as favorable for the production of seed corn as was 1916. At any rate, we now are in position to offer you the very highest type and choicest quality of seed corn, and for the reason we are so very certain that we can and will please you, we urge you to take advantage of conditions and start the foundation of your future corn crops on a right basis.

BUY ON YOUR OWN JUDGMENT

We guarantee satisfaction or money refunded. Order the kind of corn that you think will suit you best, and if the seed does not please you when it comes you can send it back to us and we will return the money paid for it. We cannot guarantee a crop, that would be folly, but we do ask you to satisfy yourself as to the quality of the seed. We give you fifteen days after receipt to test it for vitality, and if you find any fault send it back. Even if there is no fault and you are not pleased with corn, send it back. We are giving you the right of final decision and leave entirely in your hands the conclusion of seed purchases from us. There can be no fairer way to trade by mail than this, and we know our customers appreciate it by the tremendous volume of our seed corn trade. If you want to get an idea of the appearance of any variety we will mail you a small sample for inspection, free on request. Do you think we would make so many liberal inducements or give you so much chance to be certain of the seed if we were not sure of our ground and confident of pleasing you. Our house has been fifty years in the trade and you surely realize that we would not jeopardize our reputation and business standing for the sale of a few bushels of seed corn.



WRITE FOR SAMPLES

Our selections and recommendations are based upon normal weather and soil conditions, and the varieties named will give splendid returns in ordinary years. The extreme north district named on this page is intended to include South Dakota, Minnesota, Wisconsin and parts of the corn belt north of our Iowa line. The other districts are in accord with the division of Iowa as accepted by the Iowa Corn Growers' Association. In good seasons like 1916 most of the large sorts might be moved north 50 miles, but we recommend as stated, believing it better to be conservative rather than lead our friends to plant large late corn in unsuited sections.

VARIETIES TO PLANT

In the Extreme North—Sanford's White Flint, Improved Yellow Flint, Pride of the North, Silver King.

Northern District—Pride of the North, Silver King, Farmers' Reliance, Iowa Gold Mine, and the Flint varieties.

North Central District—Iowa Gold Mine, Iowa Silver Mine, Silver King, Farmers' Reliance and Flint varieties.

Central District—Profit, Iowa Silver Mine, Iowa Gold Mine, Farmers' Reliance, Prosperity, Reid's Yellow Dent, Lenocher's Homestead.

Southern District—All of our large varieties will do well in this section; also any early sorts for special uses.

READ CAREFULLY THE DESCRIPTION OF THE DIFFERENT VARIETIES OF CORN OFFERED ON THE FOLLOWING PAGES.

MORE THAN THIRTY
YEARS OF PEDIGREE

THE PROFIT CORN

OUR OLDEST VARIETY
THOROUGHbred CORN

THE GREATEST YIELDER OF THE YELLOW SORTS
NOTHING EQUALS IT IN LOW COST PER POUND

This variety will produce a hundred bushels of ear corn per acre. The shape, size and color are ideal and its characteristics are all that may be desired. Ears are very large, 10 to 12 inches in length, and contain 16 to 20 rows of grains. The grain is broad and symmetrical in shape very deep and of beautiful golden color. No other corn is so fine in appearance when shelled with the possible exception of our Iowa Gold Mine. We have grown this variety since 1886 and by careful selection have improved it until it is now given first place in our list. We believe it to be the best yellow corn now grown. Our object is breeding this variety has been to fix type of field corn for profit, superior to any in cultivation, and prof in corn growing, as we understand it, means the largest crop of shell corn (not cobs), maturing in a reasonably short time, and of the best quality. Ears of large size, the grain is very deep, cob small for size of ear and dries out rapidly, thus making it a sure cropper. Corn is solid on the cob, the kernels appearing driven in, and it shells out immensely.

WE RECOMMEND IT FOR A GENERAL PURPOSE CORN

This variety does not mature so quickly as either Gold Mine or Silver Mine, requiring 110 days, and we do not recommend it for planting in the extreme northern districts of Iowa if a crop of grain is desired or if the corn is to be sold in the ear, but we think it is the best corn for silage in the northern districts, as it will mature sufficiently for that purpose. It will do well in the two central and southern districts for all purposes, and we believe it will produce more bushels of shell corn than any variety with which we are acquainted. It produces big ears on big stalks, contains the largest amount of sugar and starch

in each plant, and matures a big crop. You can raise it profitably either for the market or for feeding, and we recommend it without reserve to friends who want to secure the most profit. Every customer who bought Profit Corn last year is a booster for this variety.



PRICES

Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre), \$1.00 by mail or express prepaid. By freight or express, not prepaid, pk. \$1.25, bu. \$4.00, 2 bu. or more at \$3.85 per bu., 10 bu. for \$37.50.

Corn for the silo does not necessarily have to be fully matured like it does if you are to crib it on the ear. If you are in the northern part of Iowa, or the Corn Belt, you can raise Profit Corn for silage, but we would not advise you to plant it expecting to crib it in the ordinary manner. It will mature, however, wherever Reid's Dent can be successfully grown, and we think it will yield more corn, and we know it will produce more stalk than that well known variety. If you have a shredder, or if you use corn for fodder in any way, you will find no variety as valuable as the Profit.

JUST A FEW REPORTS ABOUT PROFIT

A prominent Polk County (Iowa) farmer says: "Profit Corn has out-yielded every other variety on my place. Ears are large, extremely solid, and grain is deep. It shells out more than other sorts."

A customer in Sullivan County, Mo., writes: "Your Profit Corn was very satisfactory this year, although I planted it quite late in the season."

A neighbor to the west of us, living in Guthrie County, Iowa, says of the Profit Corn: "I like it and shall plant entirely of it next season. It is solid and heavy and feels profitable while you are husking it. Matured better than any other corn, there being less loose or chaffy ears than with other varieties this season."

From over in Illinois comes the following report: "The Profit Corn I received from you last spring has the right name. It is the best corn for stock. It grows large and is solid and also contains a greater proportion of fat than any corn in our country."

Still farther east, over in Ohio, we have a customer who writes us: "I was much pleased with your Profit Corn this season, as it gave an exceedingly large yield."

Across the Missouri river, in Nebraska, the Profit has made friends. One of our customers reports: "Your Profit corn has proved a great drought resister. Every stalk has a good ear, while other varieties of corn yielded but very little. If I had planted my fifty acres with Profit, even at your high price as I thought for seed, I would be many dollars ahead on my crop."

SEND ALL ORDERS TO THE IOWA SEED COMPANY, DES MOINES, IOWA. THEY WILL RECEIVE OUR CAREFUL ATTENTION.

PRIZE WINNER
EVERYWHERE

IOWA SILVER MINE CORN

215 BUSHELS
PER ACRE

THE WORLD WIDE FAVORITE WHITE VARIETY
THE CORN THAT ALWAYS MAKES A CROP

GROWN EVERYWHERE

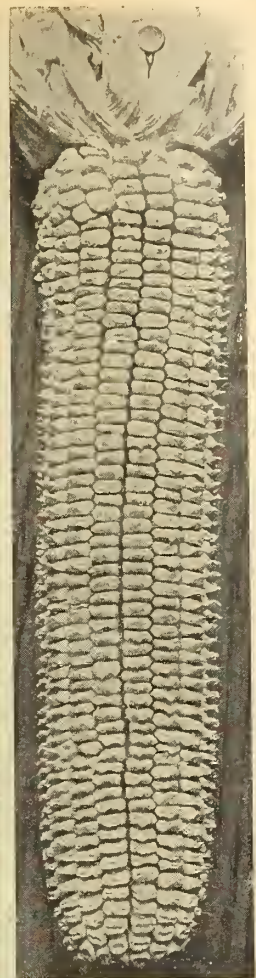
A change of location seems in no way to diminish yield or impair quality of the Iowa Silver Mine when grown from our seed. We have reports from customers in Egypt, South Africa, Australia, Central America, Mexico and the West Indian Islands, as well as from all parts of the United States, praising in the highest terms the Iowa Silver Mine Corn produced from seed purchased of us. So widespread has been the dissemination of this variety, and so universal the success of the planters, that without hesitation we recommend Iowa Silver Mine for all corn planters, except possibly the extreme North.

It is twenty years since we purchased the original stock of Iowa Silver Mine for the sum of \$1,000 in cash. Each year the stock has been carefully selected to maintain all its superior qualities and we have grown it with care, giving it good soil and cultivation, and isolating it to prevent mixture or taint from any other variety. Our stock is of the original, purchased by us in 1895 and bred continuously since that time under the personal direction of our seed corn experts, who have thirty years' experience as their guide.

There is a prejudice in the minds of some farmers against white corn. In the markets now, however, white corn sells at a premium, and if you want to obtain the very highest price for your corn, grow Iowa Silver Mine and shell it before shipping. We sell the Silver Mine surplus and such as is rejected for seed at a greater price than the yellow varieties.

Read the Astonishing Record of Our Own

Prize Contest. It produced 215 bu. per acre on Scott Co., Iowa, the crop being actually inspected by a member of our firm. It yielded 11 bu. per acre in Indiana; 201 bu. in Arkansas; 178 bu. in Illinois; 145 bu. in Ohio; 37 bu. per acre in Texas.



PRICES

For high grade, select seed corn, by mail or express, prepaid: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. will plant one acre) \$1.00. By freight or express, not prepaid, pk. \$1.25, bu. \$4.00, 2 bu. or more at \$3.85, 10 bu. for \$37.50. Write for prices in quantity.

IT IS TRULY THOROUGHbred

The stalk grows to a height of about 7 or 8 feet and sets the ears about 3½ or 4 feet from the ground, just the right height for easy picking. One peculiarity which will be noticed in going over the fields is that there are no barren stalks; every one has an ear, many stalks have two or three good ears, and the originator says that has been characteristic every year that he has grown it. Type is very even. Ears measuring from 10 to 12 inches in length, and weighing 1½ pounds, are often found. The ears are very uniform in size and shape, with sixteen to twenty straight rows (usually eighteen rows) of deep, pure white kernels, set on small, white cob, and ears are well filled out over the tips. It is early, maturing in ninety-five days. The cob dries rapidly, so that it is ready for market, earlier than any other large white field corn. Seventy pounds in the ear will make sixty-two shelled. It is adapted to a wider range of soil and climate than any other corn ever offered. It is in every way a distinct type of corn, hardy, and wonderful resister of drouth.

HERE IS A PART OF ITS RECORD

Everywhere the Iowa Silver Mine captures the prizes over all other varieties. At one fair ten of the largest ears took first prize, ten of the smaller ears took second prize. Afterwards the same ten large ears took sweepstakes over all varieties, both white and yellow, making a total of \$95.00 in prizes taken at one fair by twenty ears of the Iowa Silver Mine Corn. It captured the big prize offered by us in 1896, for the largest crop, against all other kinds of any color, yielding 215 bushels. At the Illinois State Fair it took first premium for the best bushel of corn, any color or sort; first for best white corn in the state, grand sweepstakes for best corn, any color, competition open to the world. In 1899, the Illinois State Agricultural Society offered three large prizes for the largest crop grown on one acre, and Iowa Silver Mine captured all three with crops of 196, 176 and 154 bu. per acre. No other corn, any color, can compare with it productiveness or ability to make a crop under adverse conditions.

REID'S YELLOW DENT

A STANDARD VARIETY IN THE MIDDLE WEST
THOROUGHbred, PEDIGREED, CAREFULLY SELECTED STOCK
OUR SUPERIOR TYPE

A Splendid Strain of Sustained Purity and Excellence

Most farmers know the Reid's Dent Corn, and it is very popular because of the large, smooth, symmetrical ears, which are always uniform and make it one of the most attractive varieties for market selling. Because of its handsome appearance it is generally accepted as the show standard, and because of show record is widely known and generally distributed.

Our particular strain is far superior to the common strains found on most farms. Our original stock was direct from Mr. Reid, the introducer, and we have grown it continuously for many years. We have bred it to retain the purity of type and heavy yield. You can safely order Reid's Dent of us and be assured you will get superior stock of this superior sort.

It is grown at Altoona. The soil is heavy black loam, the land is high, in fact it is one of the highest points above sea level in the entire state. Our experience proves that seed corn produced in that locality will mature anywhere in Iowa. It is just as though grown in the northwest part of our state as regards latitude, and an advantage over that section because the soil is heavier and matures the corn more slowly. It is because of this location that our seed corn will successfully grow far to the north and is superior to most of the seed corn produced in other sections of the state.

WE ARE BREEDERS OF SEED CORN

growing it here in Central Iowa, the best section for corn in the great corn belt of the United States. We have several seed corn specialists who select stock seed for our crops. Each ear is critically examined in all points with greatest care and only the strong and vigorous in vitality, true to the ideal of each variety, are used. These ears must be uniform in shape and color, straight rows, tips well filled with large grains denoting vigor and strength, kernels uniform in color, depth, width, shape and such other points as are desirable and indicate well bred corn. The stock seed is given to careful growers who for many years past, have made a specialty of growing seed corn exclusively for us, and know just how to handle the crops to secure best results. Our rule is to have each variety grown at least ninety rods from any other, in order to prevent becoming mixed. The greatest care is used in preparing and having the soil in best condition and in the cultivation of the crop.

We have special machinery and our seed corn is very carefully graded so it can be planted with the edge dropping corn planter. It is then tested by taking several lots of 100 kernels each from different bags or bins just as corn runs in bulk, the only way to get a true average test. Great care is taken through the whole process. Corn thus prepared is worth much more than ordinary seed corn, and we believe our seed is the best offered by the trade.

Reid's Dent is not an early variety. It requires about 115 days to mature under favorable conditions and we do not, therefore, recommend it for planting north of Central Iowa. Sometimes it makes good crops in Minnesota, but it cannot be depended upon to ripen in short seasons in that latitude. If you can grow Reid's Dent, buy your seed from us. We will make good our claims of superiority by increased yield of splendid large corn at harvest time.

PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00 by mail or express, prepaid. By freight or express, not prepaid, pk. \$1.25, bu. \$4.00, 2 bu. or more at \$3.85 per bu., 10 bu. for \$37.50

LENOCHER'S HOMESTEAD

The Greatest Red Corn Ever Produced

A Hundred Bushels Per Acre Variety

This is the corn that won the Iowa Homestead prize of \$100 for the best three acres of corn grown under ordinary methods. The crop produced yielded 345 bushels on the three acres on the farm of Mr. G. F. Lenochoer, a practical farmer and feeder of Dallas County Iowa. We made arrangements with Mr. Lenochoer to introduce the corn to the public and gave it the name of Lenochoer's Homestead and have offered it for sixteen years. It is given as great care with us as our other sorts and our stock is carefully selected for seed purposes. The color is a rich, dark red with occasional light caps grain deep and hackled; ear somewhat above the average with small cob which dries out rapidly so that it is not likely to be caught by frost. It is perfectly safe corn to plant in central and southern districts of Iowa and may be grown anywhere that Iowa Silver Matures. It is a splendid silage corn for all locations, and produce good crops in unfavorable seasons when other corns will hardly make nubbins. Don't let your prejudice against red corn prevent a trial of this splendid corn, for we give you our assurance that it will produce more actual corn per acre than the kind you are growing, and it makes just as good feed as any other sort. There is no prejudice on the part of the live stock or the silo against red corn, and if you plant Lenochoer's Homestead the great yield per acre will overcome your prejudice.

PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00 by mail or express, prepaid. By freight or express, not prepaid, pk. \$1.25, bu. \$4.00, 2 bushels or more at \$3.85 per bushel, 10 bushels for \$37.50.

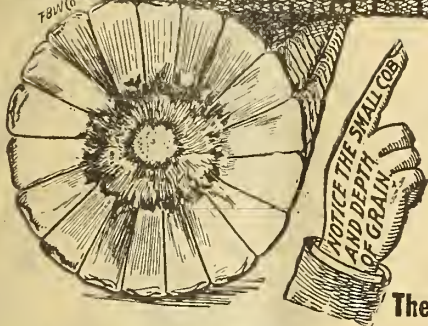
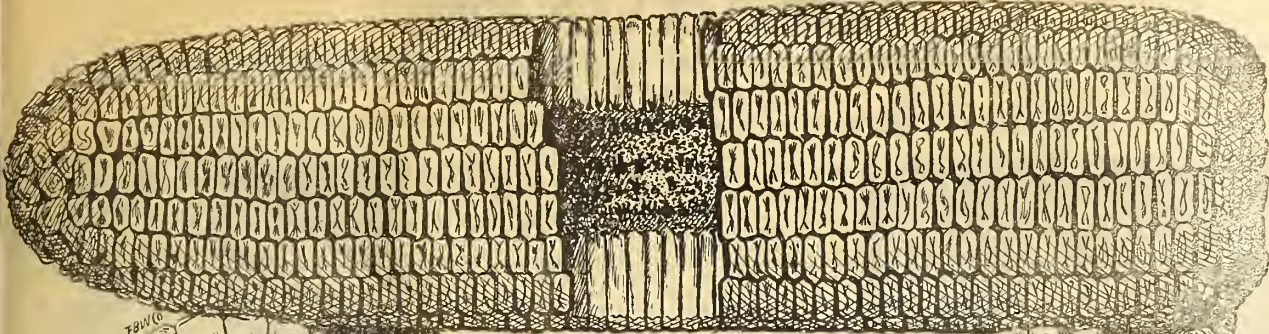
Your Lenochoer's Homestead corn is out of sight. My neighbors bought all could spare for seed purposes, and I had hard work to keep seed enough for my own use.—Frank Degnan, Seneca County, Illinois.

Lenochoer's Homestead is the best corn I ever fed. Earliest variety in these parts.—J. Abrie, Doniphan Co., Kansas.



Last spring I got some Reid's Yellow Dent seed corn and will say it is as fine as any corn I ever saw. I don't think it could be beat in the state.—A. A. Westbrook, Ira, Iowa.

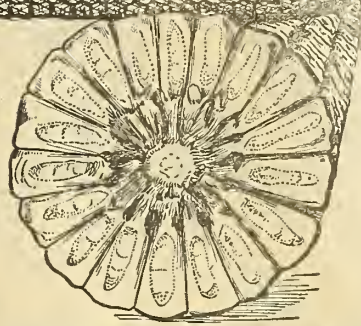
WE ARE HEADQUARTERS FOR SEED CORN. IT IS OUR SPECIALTY AND WE DEVOTE GREATEST CARE TO ITS PRODUCTION



IOWA GOLD MINE

The Deepest Grained
and Purest Yellow

Corn in Existence : : : :
The Kind that Made Us Famous



THE GREATEST CROP FOR THE NORTHERN FARMER OR FOR THE LIVE STOCK FEEDER

The season of 1915 will be long remembered by Iowa corn growers as the year of failure. We believe there was less sound corn in the state that fall than any previous year since Iowa took her place as the greatest corn producing state. Millions of bushels of Iowa corn were fed in immature condition to avoid loss. The results that season were a vindication of our claims for Iowa Gold Mine corn. We got better results from it than from any other variety. It fully demonstrated its value by producing a far greater percentage of sound corn than other kinds, and also by far greater yields under the remarkably adverse conditions of the season. It proves to our satisfaction that Gold Mine is not only valuable under normal conditions and favorable seasons, but by far the best in times of real danger from excessive rains or early frosts.

THE GOLD MINE IS BEST OF ALL

It ripens in ninety-five days and never fails to mature. It does not mold or spoil if cribbed at proper time, and is the most certain to succeed in adverse seasons. It is all corn and corn of extra quality. We have sold it for twenty-six years, and each season we have a higher opinion of its value. Our farmers want great big corn. We think this is a mistake. We believe a medium-sized corn of the quality of our Gold Mine—one that can always be depended upon to ripen—is to be preferred to the larger, later sorts. This view is confirmed by thousands of testimonials as to the productiveness and quality of the Gold Mine from farmers who plant for home consumption. Plant three in a hill, in strong, rich ground, give it good cultivation and you will produce as many bushels of ears per acre as you can of the larger kinds and a much greater quantity of shelled corn—the real test of value to the feeder. It would seem at casual glance that a variety of corn would cease to hold its place among the leaders after twenty-five years. We have maintained Gold Mine among the five leading sorts by constant election of stocks, by keeping it true to type in spite of all temptations to increase the size of the ear and stalk. We have found that to increase the size of the ears means larger cob and less corn, a larger stalk means slower growth and later maturity. In other words, if you secure advance in size you lose earliness, soundness and depth of grain, and the gains do not offset the losses. You will find these advantages fully as great compared with any of the present-day large sorts. We breed Gold Mine constantly to the rough type, with open grain and extra small cob. Ordinary field culture in a few years reduces the hackle until the corn is almost smooth. It also grows more compact upon the cob.

SOME SHORT STATEMENTS ABOUT GOLD MINE.

From New York: "I bought some Iowa Gold Mine Corn of you, and it is the best corn I ever used in my life."

From Wisconsin: "The Iowa Gold Mine Corn is the best I ever saw, and it is well adapted to this climate."

From Colorado: "Your Iowa Gold Mine Corn was early and stood the drouth remarkably well. I never made a better investment in my life."

From Illinois: "The Iowa Gold Mine Corn yielded three times as much as any other variety. Think it is the best corn I have ever seen."

From Ohio: "I purchased some Iowa Gold Mine Corn of you which did exceedingly well here. I took three premiums on it at three different county fairs."

From Missouri: "I think Iowa Gold Mine the best corn of all, and am perfectly satisfied with it."

From Kansas: "The Iowa Gold Mine Corn I got from you has done fine. It has been in ear two weeks ahead of any other field corn."

From Texas: "From your sample package of Iowa Gold Mine Corn I had just twenty four stalks and there were sixty four ears on them."

From Iowa: "The Iowa Gold Mine Corn surprises everyone by its deep grain and small cob. It shells out about six pounds to the bushel more than any other sort."

A FEW OPINIONS OF IOWA SILVER MINE.

From Arkansas: "The seeds purchased from you produced the finest yields ever seen in our country. The Iowa Silver Mine corn yielded 188 bushels per acre."

From Missouri: "I planted the Silver Mine on a piece of land a little less than one acre. The other day I husked 12 shocks and got 42 bushels of good corn. At this rate I will harvest about 131 bushels of corn per acre."

From Kansas: "I am especially pleased with the Iowa Silver Mine Corn, and it is worth five times the kind I have been growing."

From Iowa: "I don't think a better quality of corn can be found than the Iowa Silver Mine and it yielded 114 bushels per acre for me."

ONLY SIX POUNDS OF COBS

Seventy pounds of Iowa Gold Mine on the ear will make 62 to 63 lbs. of shelled corn. This is the smallest proportion of cob of any variety. We have shelled selected ears of this corn which produced only 6 lbs. of cob per bushel. This is an unparalleled record. It cannot be equalled by any other corn in the world. One carload lot of 400 bushels of Iowa Gold Mine corn was carefully weighed, and after shelling was re-weighed and there was just 456 bushels. Just think of it—a gain of 14 bushels to the 100. You can see from these figures that if you are to sell this corn it should be either sold as shelled corn, or a premium demanded for the corn in the ear. You cannot afford to sell 70 lbs. of ear corn of the Iowa Gold Mine for a bushel as you are actually giving the buyer six or seven extra pounds, worth ten cents at ordinary market value.

GRAIN IS OF SUPERIOR QUALITY

You can readily understand its exceeding great value to the feeder. The figures given above demonstrate that there is very little waste, but they do not show the features which are so much superior to other kinds—the soft grain and the oil and sugar content that make it so readily digestible by the stock. There is really ten per cent more feeding value in Iowa Gold Mine pound for pound than in the ordinary sorts, and an acre of Gold Mine producing sixty bushels is worth as much to the feeder as a seventy bushel yield of any other variety.

This year we have a splendid crop of thousands of bushels of choice seed, carefully selected, cured and graded, and yet, knowing the immense demand that is sure to come to us for Iowa Gold Mine, we urge our friends to send their orders early.

PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, by mail or express prepaid. By freight or express, not prepaid, pk. \$1.25, bu. \$4.00, 2 bu. or more at \$3.35 per bu., 10 bu. \$37.50. Ask for prices in quantity.

We are the original introducers of Iowa Silver Mine, Iowa Gold Mine and Farmers Reliance, and if you want pure, thoroughbred seed of these varieties it must be purchased of us. We have proof that some other dealers are copying our descriptions and selling common corn under these names. The cost of our pure seed is only about 60 cents per acre. One bushel per acre added to your crop will pay for the seed used.

IOWA SILVER KING

A SUPERIOR NINETY DAY VARIETY SUITABLE FOR PLANTING IN NORTHERN IOWA AND EQUAL LATITUDES

OFFERED ALSO BY VARIOUS HOUSES AS "WISCONSIN NO. 7," "WISCONSIN WHITE DENT," ETC.



This is an extra early white variety, and originated with Mr. A. L. Goddard, of Kossuth County (near Minnesota line), who also originated Pride of the North more than twenty-five years ago. It has not been grown very much south of the north Iowa district, but it will make a good crop anywhere. Because of its extreme earliness it will be safe to plant in the North, where the larger later sorts will not mature sufficiently, and in the southern and central corn belt will be ready for feeding thirty days ahead of Reid's Dent or the large late varieties. Very popular wherever known.

Mr. Goddard gave it the name "Silver King," which is the proper designation. It has been tested and bred for a number of years by the Wisconsin Agricultural Experiment Station at Madison, who disseminated it under the name "Wisconsin No. 7," and from this it became known among some of the seed trade as "Wisconsin White Dent." It is, however, an Iowa corn, and we are offering it under the Iowa name, as our stock is produced in this state. By reason of the publicity given it by the Wisconsin station it has become the most popular variety in that state, and under the Wisconsin title has been disseminated in Minnesota and other portions of the northern corn belt.

HAS YIELDED 93 BUSHELS PER ACRE

with ordinary methods of cultivation. The record yield is 137 bushels per acre, produced in Wisconsin in 1913, in the acre contest for that year. In the same state, in the boys' acre contest, the record was 133 bushels per acre. Of course these were forced yields but we believe on strong land with heavy planting of three stalks to the hill, a hundred bushels per acre might be harvested. There is no question about its yielding qualities. Many prefer a yellow corn, but to those who have no prejudice against color the Silver King is recommended as a profitable variety. In many markets white corn commands a premium, and we do not think it ever sells at a discount. After the disastrous year of 1915, we believe there will be a general demand for early corn, as the large, late kinds are not dependable, and an early corn that will produce large yields is far better. For this demand we offer the Silver King as the white variety that will meet this need.

IT IS A DISTINCT TYPE

although it might well be called a small eared Iowa Silver Mine. In shape of ear and general appearance it resembles that well known variety. It is, however, a little smoother, and the grain is a trifle harder. This is no doubt due to its being acclimated to the North where the seasons are short. It grows very uniform and the ears show every evidence of careful breeding and thorough fixing of the type. With good seed, carefully produced, such as we offer you a crop may be produced which will prove most profitable, and bring the topmost price in market. The stalk is strong and vigorous, grows moderately tall, and the ears are carried at just the proper height for easy harvesting; 8 to 9 inches long, very symmetrical and handsome, in fact a splendid sort in every characteristic of good corn.

OUR STOCK IS NORTHERN GROWN

The stock we are offering comes from northeastern Iowa, a hundred miles north of Des Moines, so that customers in any part of the corn belt can order from us with assurance that the corn is suited for their planting. Most of our seed corn is grown at Altoona where conditions are peculiarly well adapted for the production of corn that will bear transplanting to any part of the corn belt. We sell the Altoona stocks everywhere with general satisfaction, but we went north for our stock of Silver King in deference to the wishes of our northern patrons, and for

the further fact that Silver King is best known and in most demand in that section.

PRICE IS LOW FOR QUALITY

When you consider the unprecedented price of ordinary corn in the markets, you will readily understand that our price for carefully sorted and graded seed, grown from pedigreed stock with extra care, is really cheap. The cost per acre is not heavy and you ought to start now to plant pedigreed seed corn.



PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 10 lbs. (will plant one acre) \$1.00, by mail or express, prepaid. **B** freight or express, not prepaid, **pl** \$1.25, bu. \$4.00, 2 bu. or more at \$3.80 per bu., 10 bu. for \$37.50.

THE SILVER KING CORN WILL MAKE GOOD ANYWHERE IN THE CORN BELT. WE RECOMMEND IT BOTH NORTH AND SOUTH.

THE EARLIEST LARGE CORN

FARMERS' RELIANCE

THE LARGEST EARLY CORN

RECOMMENDED BY US AS A

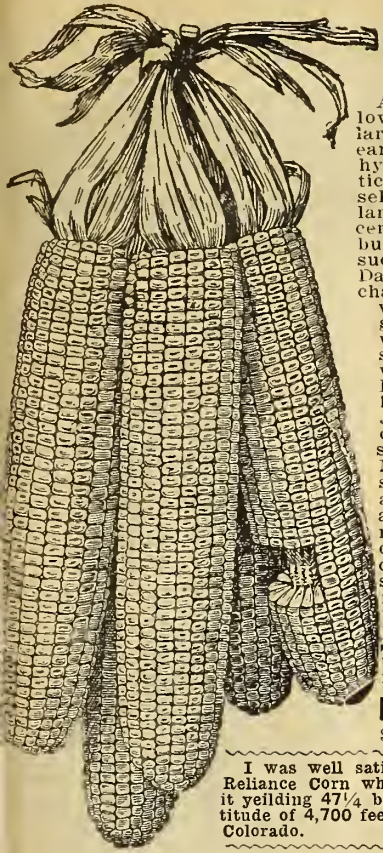
FINE VARIETY FOR GENERAL PLANTING

A grand variety of field corn, introduced by the Iowa Seed Company, and it is by far the earliest large dent corn in existence, and also the largest eared early corn. It is the result of a scientific hybridization made twenty years ago by a practical seed corn grower, and followed by careful selection each year since to obtain the earliest large-eared corn in the world. It originated in central Iowa, about forty miles east of Des Moines, but has been widely disseminated, and now grows successfully in northern Iowa, Minnesota, South Dakota and Wisconsin. Of very strong, vigorous character, growing more rapidly than any other variety from the day it is planted. Its quick growth really surprises one with the speed with which it hurries on to make ears. The stalks usually have from nine to eleven blades while most ordinary corn has thirteen blades. Leaves quite broad, of dark emerald green, healthy color. Has been planted as late as June 26th and yielded a splendid crop. We claim it will mature in ninety days. Ears are smoother and easier to handle than Iowa Gold Mine, and will yield fully as much under the same conditions. It holds the same place among yellow corn that Silver King does among the white varieties, and we recommend it without reserve. An average bushel of 70 pounds will make 60 pounds of shelled corn. It has for years been selected from the stalks which set the ears about three feet from the ground and this has a tendency to make it earlier. Fully 40 per cent of stalks produce two good ears. It is the "farmers' reliance" every year. The originator has taken the first prize for early yellow corn at every fair at which it has been exhibited.

PRICES: Per lb. 25c, 3 lbs. 60c. postpaid. By frt. or exp., not prepaid, pk. \$1.25, bu. \$4.00, 2 bu. or more at \$3.85, 10 bu. for \$37.50.

I was well satisfied with the Farmers' Reliance Corn which I purchased of you, it yielding 47 1/4 bushels per acre at an altitude of 4,700 feet.—C. F. Fitch, Greeley, Colorado.

I have seven acres of Farmers' Reliance that will make 80 or 90 bushels per acre. It is by far the best corn I know of around here. It was planted June 14th.—Geo. W. Brown, Ross County, Ohio.



PRIDE OF THE NORTH

THE EARLIEST VARIETY OF YELLOW DENT CORN. OF EXTRA VALUE FOR FEEDING. MATURES SOUND AND DRY IN NINETY DAYS

This variety originated with A. L. Goddard, of Kosuth County, Iowa, near Minnesota line, over twenty-five years ago, and sprang at once into prominence as the earliest of all yellow dent corns. The ears are 7 to 8 inches long, with small cob and kernel; 70 lbs. of ears will make 62 lbs. shelled corn; color bright orange, very uniform. Will ripen in 90 days and matures in its latitude when planted in June. Good soil is capable of producing three to four good stalks to the hill and many of the stalks have two ears each. Same results can be better accomplished by growing closer together or planting in drills, as it does not require as much room as large growing sorts. This will enable one to get as large a crop as with a long eared variety, and much more fodder. There is no corn, not excepting our famous Iowa Gold Mine, that is better for the feeder than a Pride of the North. The cob is extremely small, and will not weigh more than 7 or 8 lbs. in a bushel of ears. The grain is very long and sets closely on the cob. It is extremely rich, and goes farther in flesh production than ordinary sorts. A splendid sort to grow for "hogging down." By using in this method you do not have the labor of husking, you can plant it thicker than for ordinary cultivation, and get an immense crop of small ears of splendid quality that will fit flesh on the stock in record time. It is the dependence of the man in a pinch. If for any reason you can not plant at proper time, Pride of the North will make a crop in 30 days' less time than the large eared sorts. In some years it has made a crop planted after July 4th. It is the variety that insures a corn crop against storms or unfavorable conditions in May or early June.



PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, postpaid. By freight or express, not prepaid, pk. \$1.25, bu. \$4.00, 2 bu. or more at \$3.85 per bu., 10 bu. for \$37.50.

TREE AND HEDGE SEEDS

Variety.	Pkt.	Oz.	1/4-lb.	Lb.	Variety.	Pkt.	Oz.	1/4-lb.	Lb.
Apple	.05	.15	.40	\$1.25	Locust, Black	.05	.10	.25	\$.75
Ash White	.05	.10	.30	1.00	Locust, Honey	.05	.10	.25	.75
Box Elder	.05	.10	.30	1.00	Mulberry, Russian	.10	.30	1.00	3.50
Catalpa, Hardy	.05	.25	.75	2.25	Osage Orange	.05	.10	.30	1.00
					Tree of Heaven	.05	.10	.25	.75

ON THIS PAGE ARE TWO EXTRA EARLY SORTS SPECIALLY VALUABLE TO NORTHERN PLANTERS OR FOR EARLY FEED.

80 DAY FLINT CORNS

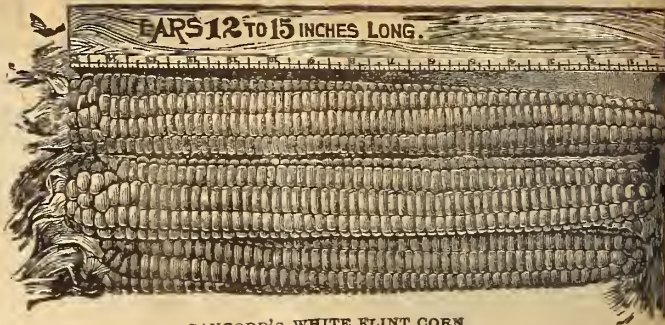
For Early Feed. Ready For Use a Month Earlier Than Ordinary Varieties

SANFORD'S EARLY WHITE FLINT

This standard variety is considered the best flint corn on the market. The ears are of unusual length, 12 to 15 inches, and handsome shape, flinty white color. Plants of sturdy, vigorous growth; leaves are very broad and succulent, and it is therefore of great value for fodder and ensilage, as well as for a grain crop. Stalks usually bear two or three long ears. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.85 per bu., 10 bu. for \$27.50.

IMPROVED YELLOW FLINT

An eight-rowed yellow flint variety with ears from 10 to 15 inches long, $1\frac{1}{2}$ to $2\frac{1}{2}$ inches in diameter, and well filled out to the extreme end of the cob. The cob is small and the kernel large and broad; ripens in 75 to 85 days. Said to produce 200 bushels of ears to the acre in Massachusetts. Has given excellent results in Minnesota and other northern states. Excellent for ensilage and is often used here for re-planting. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. 90c, bu. \$3.00, 2 bu. or more at \$2.95 per bushel, 10 bushels for \$27.50.



SANFORD'S WHITE FLINT CORN

EVERGREEN SWEET FODDER CORN

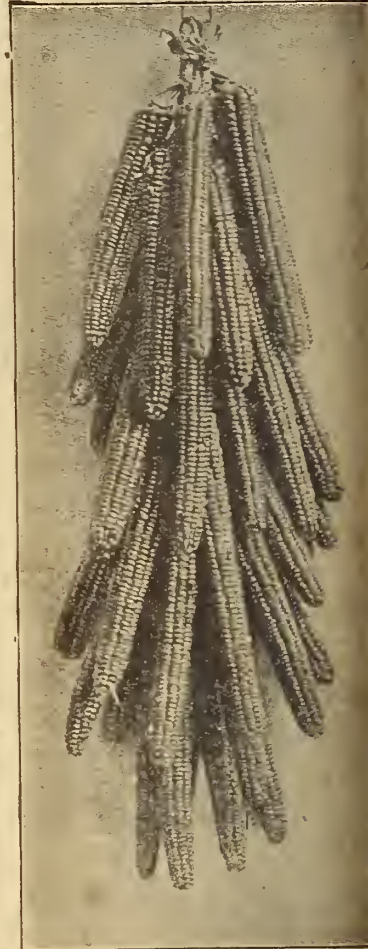
SUPERIOR TO FIELD CORN IN FEEDING VALUE

For best results plant somewhat thicker than ordinary field corn, using 3 to 5 grains in a hill, or drill it in rows, allowing 10 or 12 inches for each plant. Our stock this season is of excellent quality and it will prove a most profitable crop. We consider it one of the most valuable fodder plants in existence, and stock farmers should devote some land to it. The stalks are sweet, juicy, rich, tender, and very nutritious. Grown on a strong soil it will grow 10 to 12 feet high and produce almost an incredible quantity of fodder, which when well cured is equal to hay and much cheaper in cost. It is claimed by dairy farmers this fodder will increase milk and cream production greatly and keep the animals in the best of condition. It has the further merit of being so sweet and palatable that cattle eat every part of the stalk and leaves. As a green fodder for cutting in the summer, one acre is worth eight acres of ordinary pasture. Of high value also for hogs, and an excellent plant to plow under for soiling. Sow thick in drills, or broadcast at rate of 2 bushels per acre. By freight or express, not prepaid, pk. \$2.50. See red ink price list for current values.



EVERGREEN FODDER CORN

CUT EVERGREEN SWEET FODDER CORN IN ROASTING EAR STAGE FOR PIGS AND MILK COWS.



IMPROVED YELLOW FLINT

EXPERIMENT CORN COLLECTION

For the benefit of those of our customers who would like to compare our varieties of corn in a practical way, we offer a collection composed of 1 lb. each of the following seven varieties: The Profit, Iowa Silver Mine, Iowa Gold Mine, Silver King, Reid's Yellow Dent, Lenoche's Homestead, Farmers' Reliance. By express, not prepaid, for \$1.00; or, if you want them prepaid, send additional postage as per table, p. 2.

SOME UNIQUE AND NOVEL VARIETIES OF CORN

NEW CENTURY WONDER

A wonderful variety from South America, different in many respects from other sorts. Instead of growing like ordinary corn, one stalk to each kernel planted, it stools like winter wheat, producing 10 to 20 stalks from each seed. Often 3 to 7 ears to stalk, being 8 to 10 in. long, and of most clean, snow-white color. Of excellent quality for the table like sweet corn; when dry and ground makes the cleanest, finest, whitest meal. An improvement on Brazilian flour corn, being acclimated by growing in the north. Plant early as it requires the whole season to mature in this latitude. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, 3 lbs. (will plant one acre) \$1.00, postpaid. By frt. or exp., not prepaid, $\frac{1}{2}$ pk. 75c, pk. \$1.25.

COBLESS CORN

A unique curiosity. The grain grows at the top of the stalk, where the ordinary corn produces the tassel. Each grain is enclosed in a husk in the manner of primitive corn, while the head resembles sorghum or Kaffir, except that the grain itself is true corn, hard and flinty, about the size of grains of ordinary flint varieties. Sold only in pkts. at 10c.

PRIMITIVE OR HUSK CORN

It is from this wild variety that all of our civilized sorts have sprung. The ears are of fair size and each individual kernel or grain is covered with a husk and all is enclosed in an outer husk like common corn. In some of the wild and uncultivated parts of Mexico, the primitive or natural corn can still be found growing wild. It is quite curious and valuable for exhibition purposes and attracts great attention wherever seen. Pkt. 10c. Specimen ear 40c, postpaid.



PRIMITIVE OR HUSK CORN

BY ALL MEANS INCLUDE THESE NOVEL CORNS IN YOUR ORDER AND HAVE SOMETHING FOR THE FAIRS AND CORN SHOWS



SELECT GRADE SEED WHEAT

Wheat is now higher in price than ever known, and future indications are for continued high values. It certainly appears to us that wheat will be a profitable crop for the planter this season. Many farmers do not appreciate the difference in wheat for sowing. We most earnestly advise you to buy only seed of known quality. We have never yet been able to get wheat from our growers that we considered good enough to send our customers without grading. We

installed a special gravity cleaner for the purpose of grading our seed grain. It separates out all the light, shriveled and immature grains, and the stocks we sell for seed will grade No. 1 in any market. Such seed is worth double the price of ordinary grain for planting purposes. Remember, if our wheat is not satisfactory upon receipt it may be returned to us and we will refund the money paid.

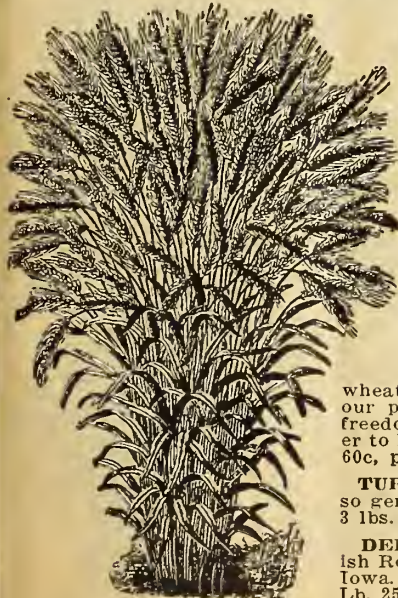
MARQUIS

Ten Days Earlier than Blue Stem or Red Fife and Produces Five to Ten More Bushels per Acre

This is the wheat that won the \$1,000 prize at the New York Agricultural Exhibition against all exhibitors, representing every wheat growing section of the western hemisphere. Superior to any known variety in milling and baking qualities. Has recorded yields of 50 bushels per acre. It originated at the experiment station at Ottawa, Canada, and introduced to Canadian planters in 1905. It created a furore and is now the most popular variety in that country. It is a favorite in Minnesota and the Dakotas and after testing it three years on our own farms we recommend it as the best beardless spring wheat for this latitude. Grows stiff, strong straw of medium height, has round, hard, dark red kernels and matures two weeks earlier than the old standard blue stem types. Popular because it is free from beards and not so difficult to handle at harvest. Per lb. 25c, 3 lbs. 60c, postpaid. See red ink price list for current values.

MACARONI OR DURUM WHEAT

(Kubanka.)—Yields very much greater than other varieties of wheat. One farmer reported 49 bushels per acre. It does especially well in the semi-arid plains. It seems to be always a sure crop and will mature in less time than other wheat. Yields profitable crops in Iowa, Kansas, Nebraska, Oklahoma and Texas.



MACARONI WHEAT



EARLY JAVA WHEAT

better when sown in poor land. Grains hard and glossy, often translucent and large. Heads compactly formed and bearded. Hardy and not attacked by smut or rust. Sow early in spring about 1½ bu. per acre. Lb. 25c, 3 lbs. 60c, postpaid. See red ink price list for current values.

WINTER WHEAT

For years we have made a specialty of furnishing farmers with choicest seed of winter varieties. We have urged upon them the value of this crop from a money standpoint with the result that the production of winter wheat has steadily grown in volume and our friends have made a profit from this crop. We issue a price list of winter wheat about Aug. 1st.

RED CROSS.—The best beardless winter wheat for the corn belt. Is immensely popular with our patrons because of hardness, heavy yields and freedom from harsh beards, making it much pleasanter to handle than the Turkey Red types. Lb. 25c, 3 lbs. 60c, postpaid. Ask for prices in quantity.

TURKISH RED.—The great standard winter variety so generally recommended by all authorities. Lb. 25c, 3 lbs. 60c, postpaid. Ask for prices in quantity.

DEFIANCE.—Our greatly improved strain of Turkish Red which has a record of over 59 bu. per acre in Iowa. Has never failed to produce a profitable crop. Lb. 25c, 3 lbs. 60c, postpaid. Ask for prices in quantity.

EARLY JAVA

The early bearded sort that is so prolific and gives best returns in the corn belt. This is a bearded variety which for five or six years past has given for better satisfaction in central Iowa than any other bearded variety and wherever introduced it is driving other sorts out. The farmers are delighted with it. It is a variety of spring wheat, about ten days earlier than the Velvet Chaff or other standard sorts, and thus escapes the extreme hot weather so injurious to small grain. It is usually ready for harvest as early as winter wheat, and therefore desirable to sow on land where winter wheat has partially failed. A good crop can this way be secured from fields which would otherwise be unprofitable and the wheat would be all right for milling purposes, but would not do for seed. Yields in this vicinity ordinarily about 25 bu. per acre. Per lb. 25c, 3 lbs. 60c, postpaid. See red ink price list for current values.





Send for Free Samples
for Comparison

If you want a large quantity of seed oats of any variety we handle, write us for special prices.

IOWA GROWN SEED OATS

BUY THE IOWA GROWN SEED

Comparative tests for a number of years have led us to the conclusion that Iowa grown seed oats are the best to plant in the corn belt. Iowa grows more oats than any part of this continent. We ought to grow more than we do. This is easy to do if we use selected seed from improved varieties, thoroughly acclimated. The problem in oats raising is to get a variety that will mature before adverse conditions of hot, dry weather obtain, and one that will produce good grain in profitable amount. It is necessary to have seed that has been acclimated.

WHITE KHERSON (Iowa 103)

A NEW PRODUCTION FROM AMES COLLEGE

Bred from the Yellow Kherson by Prof. L. C. Burnett, agronomist at the Iowa Agricultural College, under the designation "Iowa 103," and entrusted to us for introduction to the farmers. We grew the first field crop of this variety for Prof. Burnett and he distributed it through the extension department of the college. The next year he permitted us to introduce it commercially. It has all the good qualities of the old Kherson, with the additional value of better color. Grain is not so large as Silver Mine, but plump and heavy, with thin hull. It matures very early and does not suffer from blight or rust. The straw is strong, medium height, and stands up extra well on heavy soil. Stools well and only requires 2½ bu. per acre for full seeding. On our farms the past three seasons it has surpassed all other varieties, and we offer it as the best oats for Iowa that has yet been produced. Per lb. 20c, 3 lbs. 50c, postpaid.

By freight or express, not prepaid, pk. 40c, bu. (32 lbs.) \$1.20, 3 bu. or more at \$1.15 per bu., 10 bu. for \$11.00, 25 bu. for \$25.00.

Below is a clipping from the daily press about this sort: Ames, Ia., Oct. 16.—(Special).—A strain of oats, "Iowa 103," developed under Iowa conditions by the Iowa agricultural experiment station, proved itself worthy this last year in a number of sections of the state under practical farm conditions. At Oakville, Louisa county, one large field seeded with this strain outyielded the best local varieties by 20 bushels per acre. Other fields in the vicinity did nearly as well. In other counties "Iowa 103" also showed heavier yielding qualities, though not so much better than local sorts as in Louisa county.

These facts are contained in reports to Jno. Buchanan, of the experiment station, secretary of the Iowa Agricultural Experiment Association, which is distributing the new varieties of seed developed at Ames. The Oakville test was conducted by F. E. Jamison, who got his first shipment of seed in 1913. Then he grew an acre of "Iowa 103" which produced 77 bu. of choice seed. He planted the entire 77 bu. last spring on 26½ acres, from which he harvested this fall 1,800 bushels.

THE RICHLAND OAT (Iowa 105)

THE BEST VARIETY FOR RICH, STRONG LAND

First sent out by Prof. L. C. Burnett of the Iowa Agricultural College, who produced it by scientific breeding for several years. Grains are medium size, light yellow color, plump and heavy. It has very strong straw and its greatest value is because it will stand up under adverse conditions and upon rich land better than any other sort. Produces wonderful crops, and is recommended to farmers who must sow oats where they are likely to lodge because of excessive growth of straw. Mature as early as the White Kherson and are sure to make a crop. By frt. or exp., not prepaid, pk. 40c, bu. (32 lbs.) \$1.20, 3 bu. or more \$1.15 per bu., 10 bu. \$11, 25 bu. \$25.

REGENERATED SWEDISH SELECT

MOST WIDELY ADVERTISED VARIETY

For reasons set out at introduction to this page, we are confining our offerings of seed oats this year to home-grown stocks. We know that our oats are fully acclimated and have been grown successfully under adverse conditions, that they will give better results than greatly advertised, high-priced seed of this sort. Pk. 45c, bu. \$1.15, 3 bu. or more \$1.05 per bu., 10 bu. \$10.00, 25 bu. \$22.50.

SILVER MINE

THE POPULAR MAIN CROP VARIETY

Standard for main crop in Iowa and from comparative tests for a period of years has proven its ability to produce good crops under ordinary conditions, year after year. Reputation of yielding immense crops of 100 to 160 bu. per acre in favorable years. Grain is usually large, plump and heavy with a reasonably thin hull. Quite hardy, vigorous, stands well and shows little tendency to rust or lodge unless soil is rich. Has splendid record in comparative tests at Iowa Agricultural College. Pk. 40c, bu. \$1.15, 3 bu. or more at \$1.05 per bu., 10 bu. for \$10.00 25 bu. for \$22.50.

SWEDISH SELECT

WHITE KHERSON

OUR CUSTOMERS ARE AT NO EXTRA EXPENSE FOR BAGS TO HOLD SEED GRAIN AS THEY ARE FURNISHED FREE OF COST.

SPELT, OR EMMER

This new grain was first introduced into this country by our house about ten years ago, has proven of great value, and is now listed by almost all of the leading seedsmen. It has become a staple crop in all sections of the West and Northwest and its position in the list of grains is thoroughly established. It is grown and handled in the same manner as barley, though many feeders do not thresh it but feed direct from the stack or shock. It is really better to thresh it as the process breaks up the beards and straw so that the animals eat it more readily. It is a splendid feeding grain, in our opinion second only to corn, and in dry or cold sections where corn will not mature Spelt will be the very best live stock feed that can be produced. It is in the cold and arid regions that it thrives best, and will yield wonderful crops under adverse conditions. Records of 75 to 100 bushels of grain and 3 to 5 tons of straw are reported from Kansas, Nebraska and the Dakotas. It can be used for pasturage and hay after the manner of rye, and if sown with field peas the hay will be strictly first quality. Its value lies in its hardness, great yields, and feeding value, and it can be grown anywhere in the corn belt with profit. Use 50 to 75 lbs. of seed per acre. Per lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. 50c, bu. (40 lbs.) \$1.50, 2 bu. or more at \$1.40 per bu., 10 bu. or more at \$1.35 per bu.



HEADS OF SPELT

NOVELTY FARM COLLECTION

Many of the items in this collection are not strictly novelties but few of them are generally known to our customers. For a very small price we offer an opportunity to study these plants and determine for yourself their value in agriculture. The collection consists of one good size pkt. of Primitive or Husk Corn, New Century Wonder Corn, Sudan Grass, Feterita, Teosinte, Sand Vetch, Australian Salt Bush, Pencillaria, Milo Maize, Thousand Headed Kale, New Era Cow Peas and Soja Beans—12 kinds in all—postpaid for 60c.



SEED BARLEY

MANDSCHEURI.—Improved strain of standard six-row bearded barley. The standard market variety by which all are graded and therefore the most popular bearded sort. It is an early variety, very strong, stiff straw, stands up and stools well. It bears large, well-filled heads of plump-berried grain. Per lb. 25c, 3 lbs. 60c, postpaid. By freight, pk. 50c, bu. (48 lbs.) \$1.60, 2 bu. or more at \$1.55 per bu., 10 bu. or more at \$1.50 per bushel.

ODERBRUCKER.—First introduced into the United States from the Agricultural Experiment Station at Guelph, Ontario, Canada. Bred and disseminated at the Wisconsin Agricultural College by Prof. R. A. Moore, who claims it is the greatest barley in this country for feeding or malting purposes. It and Mandscheuri have held the record for many years for the heaviest yielding sorts. It is bearded, and in manner of growth similar to the Mandscheuri, but the straw is somewhat stronger and stiffer, and will stand up on the richest ground. Will not rust and is free from smut. Per lb. 25c, 3 lbs. 60c, postpaid. By freight or exp., not prepaid, pk. 50c, bu. \$1.65, 2 bu. or more at \$1.60 per bu., 10 bu. or more at \$1.55 per bushel.

SUCCESS BEARDLESS.—A very valuable variety. The earliest barley known. The straw is about the height of common barley and will stand up on any land; on good land will produce 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards which are so disagreeable in threshing, although it is a profitable crop. This is beardless and as easy to grow and handle as oats. It has hulls like the Mansury or any other old variety, and the quality is excellent, both for malting and for feeding hogs. Per lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp., pk. 65c, bu. (48 lbs.) \$2.00, 2 bu. or more at \$1.90 per bu., 10 bu. or more at \$1.80.

SEED RYE

MAMMOTH SPRING RYE.—This is quite different from the winter rye and is highly valued wherever known. It is not only more productive but the grain is of finer quality and it can be successfully grown in any latitude. The straw is of special value as it stands six or eight feet high, being better than that of winter rye and producing nearly four times as much straw as oats. Produces 30 to 40 bushels of grain to the acre. As it does not stool like winter rye, not less than two bushels to the acre should be sown. There is always a demand for first quality rye straw and the price is nearly always remunerative. The double crop of straw and grain make it one of the most profitable of farm crops. Pkt. 5c, lb. 25c, 3 lbs. 60c postpaid. By freight, pk. 50c, bu. (56 lbs.) \$2.20, 2 bu. or more at \$2.10 per bu., 10 bu. or more at \$2.00 per bushel.

MONSTER WINTER.—We consider Winter Rye one of the most important of all farm crops. In the first place, it is a sure crop, failures being almost unknown. Every farmer should have at least a few acres of it. It is usually sown in the fall, and as it grows very vigorously, will furnish pasture till late in the fall and also early in the spring before other grasses have made a growth. So it is of great value to dairy farmers. If sown early in the spring it makes an early and abundant pasture, but makes no grain crop. Our Monster Rye is of extra quality. We are sure it will please you, no matter whether you want it for pasture or grain crop. As grown for the grain alone it will yield great returns and make money for you. As much as 60 bushels per acre have been produced. Pk. 50c, bu. \$2.00, 2 bu. or more at \$1.90 per bu. (56 lbs.), 10 bu. or more at \$1.80 per bushel.





BUCKWHEAT

Buckwheat is a valuable crop for those parts of the farm which always seem to be left unplanted at the close of the season. Generally sown in July and will fill up the vacant plots at a time when all other planting is past. Can be sown after crop of winter wheat or rye and make a second crop. Use about one-half bushel seed per acre. Prices subject to change.

JAPANESE.—A week earlier than Silver Hull and yields more. Flour is equal to any other buckwheat, while it is more productive than any other, and succeeds well far north. The kernels are quite large, but the straw is heavier and it branches more; need not be sown as thickly as other kinds. Per lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. 75c, bu. (48 lbs.) \$2.40, 2 bu. at \$2.35 per bu., 10 bu. for \$22.50.

SILVER HULL.—Very good, popular variety. Grain is light gray color, rounder than the common variety, has a thinner husk, earlier and yields more. It is preferred by the mills grinding buckwheat flour as it

makes a smaller proportion of hull to flour than any other sort. Lb. 25c, 3 lbs. 60c, postpaid. By frt. or exp., not prepaid, pk. 75c, bu. (48 lbs.) \$2.40, 2 bu. or more at \$2.35, 10 bu. for \$22.50.

VEGETABLE FARM CROPS

Many of our best and most profitable farm crops are listed in this catalogue among the vegetables, and we have thought best to call our farmer friends' attention to them at this point, for fear they might be overlooked or not appreciated because they did not appear in the Farm Department.

Mangel Beets (see p. 7).—Are of special value to the stock feeder and produce enormous crops.

Carrots (see p. 10).—Are another root crop producing heavy crops and recommended to horsemen and dairy farmers.

Pumpkins (see p. 25).—Two crops on one field if you plant them in the corn. Seems like there are never enough in the markets.

Onions (see pp. 20, 21).—Always salable at profitable prices, for they can be sent to market without loss or shrinkage.

Citron Melons (see p. 18).—Grown in dry sections, in preference to pumpkins for stock feed; are used in same way.

Pop Corn (see p. 23).—A field crop grown in hundreds of acres in north-west Iowa. A great market is now established for this product by the breakfast food manufacturers.

Parsnips (see p. 24).—A good farm crop, since they can be marketed either fall or spring and produce wonderfully.

Squash (see p. 28).—A profitable crop for the farmer near a market. Demand always good for the large late varieties.

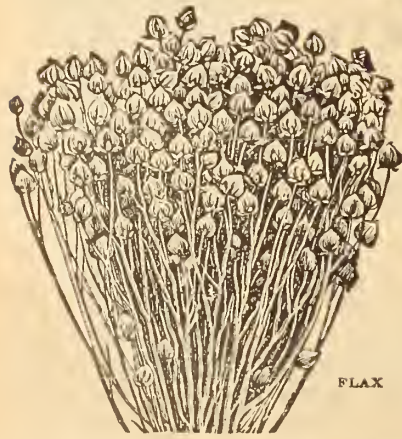
Turnips and Ruta Bagas (see p. 29).—Recognized as the field crop of all others to occupy the waste spots and produce feed after the planting season for other crops in past.



SEED FLAX

It will pay you to sow nice, pure, high-grade flax seed. For several years the available supply has not equaled the demand and prices have ruled very high.

Our seed is thoroughly re-cleaned, free from mustard or any other weed seed and is as good as can be purchased anywhere. Do not buy flax seed on open market. It is generally full of weed seed. One of the most profitable of crops, especially on new land. Price subject to change. Per lb. 20c, 3 lbs. 50c, postpaid. By frt. or exp., not prepaid, pk. \$1.00, bu. \$3.10, 2 bu. or more at \$3.00, 10 bu. or more at \$2.90 per bu.



SUNFLOWER

A small patch of cultivated sunflowers will produce a great quantity of the very best poultry feed for winter. Drill in rows, cut with a corn harvester, dry thoroughly and let the cows do the threshing. If you can't spare land for cultivating plant them in waste corners. We sell sunflowers for feeding purposes, and prices will be found with bird supplies on page 134; seed so offered is not for germination. Ornamental sorts listed with flower seeds.

MAMMOTH RUSSIAN.—Extremely large sunflower. Large pkt. 5c, lb. 25c, 3 lbs. 65c, postpaid. By frt. or exp., not prepaid, 10 lbs. \$1.25, bu. (25 lbs.) \$2.50.

WHITE BEAUTY.—Equal in size to Mammoth Russian. Pkt. 5c, lb. 35c, 3 lbs. \$1.00, postpaid. By frt. or exp., not prepaid, 10 lbs. \$1.25, bu. (25 lbs.) \$2.50.

BROOM CORN

CALIFORNIA GOLDEN.—Carefully selected and improved so that the brush is straight and long. Of fine quality, light green color, turning to light yellow when allowed to become too ripe. Per lb. 25c, 3 lbs. 65c, postpaid. By freight or express, not prepaid, pk. \$1.00, bu. (50 lbs.) \$3.00.

EVERGREEN.—Largely grown in the western states. The brush is noted for fine quality, good length, and handsome appearance. Lb. 25c, 3 lbs. 65c, postpaid. By freight or express, not prepaid, pk. 85c, bu. (50 lbs.) \$2.75.

DWARF.—Popular in some sections, matures late. Lb. 25c, 3 lbs. 65c, postpaid. By freight or express, not prepaid, pk. \$1.00, bu. (50 lbs.) \$3.00.

SEEDS FOR SUMMER SOWING

A thirty-two-page booklet telling how to grow Sweet Clover, Sudan Grass, Cow Peas, Sand Vetch, Alfalfa, Amber Cane and Dwarf Essex Rape. Also chapters on Millet, Buckwheat and other seeds for summer planting. Free on request.

FORAGE AND FODDER PLANTS

OF SPECIAL VALUE TO LIVE STOCK RAISERS

Every plant that will conserve the hay raised on a farm is of material advantage to the farmer. In this department will be found a number of items which, if properly used, will solve the problem of feed for the live stock when hay and pasturage are short from any cause. Amber Cane or Kaffir Corn for fodder; Rape or Kale for pasturage; Vetch or Field Peas for hay can be used by any farmer in the corn belt with profit. All may be siloed with corn to advantage.



HEAD OF FETERITA



TEOSINTE



KAFFIR CORN

MILO MAIZE

Very similar in manner of growth to Kaffir Corn, but is preferred by many growers who claim that it produces more grain per acre and better quality of forage than any of the non-saccharine sorghums. It is grown and handled in same manner as Amber Cane or Kaffir for hay and fodder, and will make splendid ensilage if cut up with corn. Pkt. 5c; lb. 20c; 3 lbs. 50c, postpaid. By frt. or exp., not prepaid, 10 lbs. 50c; 25 lbs. \$1.00. See red ink price list for current values.

PENCILARIA

Particularly a dry, hot weather plant. An improvement of the *Pencilaria Spicata* (Pearl Millet), and much better adapted to the North. Seeds very small, and when it first comes up looks like grass, but very soon resembles corn, growing rapidly, and having broad, succulent leaves. It stools out wonderfully, customers reporting as high as 75 stalks grown from one seed. Sow in May or June in drills 24 to 36 inches apart, using 2 lbs. of seed per acre, or broadcast, 15 lbs. per acre. Pkt. 5c, ¼ lb. 15c, lb. 35c, 3 lbs. \$1.00, postpaid. By freight or express, not prepaid, lb. 25c, 5 lbs. \$1.00, 25 lbs. \$3.75.

AUSTRALIAN SALT BUSH

A valuable plant for soils containing alkali and for all semi-arid or dry regions, because it is able to furnish forage during the hot, dry summer months in western and southwestern states. It is not hardy in the North. It needs some little moisture to start it into growth but when once started it will make a strong growth during hottest and driest weather. Spreading habit, branching freely, making thick mat of stems and foliage 12 to 18 inches over entire surface of the soil. Pkt 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25, postpaid; 5 lbs. or more by express, not prepaid, at \$1.00 per lb.

EARLY AMBER CANE

Dairy farmers say that Early Amber Cane is the most valuable fodder plant in existence for their use. It is of the very best quality, being sweet, nutritious and greedily eaten by cattle, horses and hogs. Grown successfully in any part of the country, from Canada to Texas, and from the Atlantic to the Pacific. It is one of the best plants to withstand drouth and unfavorable weather and is therefore a comparatively sure crop. It is wonderfully productive, the Ames Agricultural College harvesting 29 tons per acre on August 27th from a plot seeded May 21st. It is usually put in during June, sowing 100 pounds per acre broadcast, or 60 to 75 pounds per acre is sown with a wheat drill. Cut in September or just before frost with a mower and cure like hay, or with a binder and stand the bundles up. We consider the Black or Red Seeded Amber the most desirable. If wanted for sorghum, we recommend the Kenney's, which is purer. It is difficult to secure a strictly pure lot on the general markets, but this cheaper grade is desirable for fodder purposes. Price is subject to market changes but it usually advances later in the season. Per lb. 20c; 3 lbs. 50c, postpaid. By freight or express, not prepaid, 10 lbs. 50c; 25 lbs. \$1.00. See red ink price list for current values.



EARLY AMBER CANE

KENNEY'S EARLY AMBER CANE

An improved variety grown on our own farms to keep it pure. The stock seed has been saved from stalks tested for sugar content. This process has been followed for a number of seasons, until we now have, without doubt, the best sorghum cane in the country, and it will make the very finest grade of beautiful amber syrup of delicious flavor. In addition to the sorghum, a crop of seed worth \$25 or \$30 can be grown at the same time. Why not supply your own table in this way, as it is as easily grown as a crop of corn. Requires only 5 lbs. of seed per acre. Per lb. 35c, 3 lbs. \$1.00, postpaid. By freight or express, not prepaid, 10 lbs. \$1.50; 25 lbs. \$3.00; 50 lbs. \$5.50; 100 lbs. \$10.00.

FETERITA

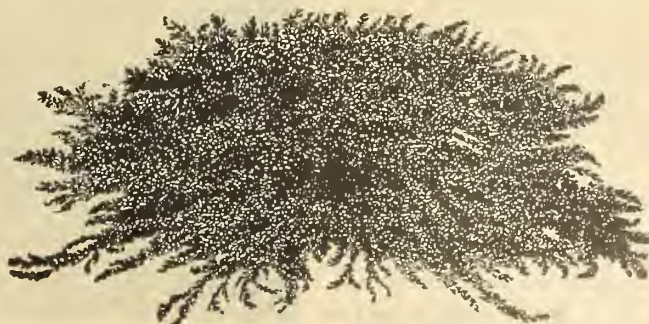
Similar to Milo Maize and Kaffir Corn in general habit. It matures earlier than either, however, and the grains are somewhat larger and softer. It is also said to be more prolific, yielding thirty to fifty bushels of grain per acre, and suitable for feeding most any kind of live stock. It is especially recommended in the semi-arid regions of the West, or upon poor soil where ordinary Indian Corn will not produce a profitable crop. The sorghums should be planted in the North about June 1st. They do not withstand the cold and dampness of early spring like Indian Corn, but are strictly hot weather plants. In good weather, however, they grow quite rapidly and can generally be depended upon to ripen a crop as far north as Central Iowa. Undoubtedly superior to the ordinary Kaffir and Milo. The great advantage lies in its productiveness. Pkt. 5c, lb. 20c, 3 lbs. 50c, postpaid. By frt. or exp., not prepaid, 10 lbs. 60c, 25 lbs. \$1.25. See red ink price list for current prices.

KAFFIR CORN

Grows five to six feet high; straight, upright growth. The stalk bears numerous wide leaves; keep brittle and juicy, making excellent fodder either green or dried. Seed crop is heavy, yielding 30 bu. per acre. There is no failure about it; can go without rain without any loss in yield. The grain is extremely valuable for feeding poultry. Cultivated same as common corn, requiring 5 lbs. of seed per acre. For fodder sow 35 to 50 lbs., either broadcast or in drills. Pkt. 5c; lb. 20c; 3 lbs. 50c, postpaid. By freight or express, not prepaid, 10 lbs. 50c; 25 lbs. \$1.00. See red ink price list for current prices.

TEOSINTE

A very prolific, heavy yielding fodder plant grown largely in some parts of the country. Somewhat resembles corn but leaves are much longer and broader and stalks contain a sweet sap; 35 stalks have been grown from one seed, attaining to a height of 11 ft. and very thickly covered with leaves. Horses and cattle eat it as freely as young sugar corn. Plant as soon as ground becomes warm at usual corn planting time, in hills 3 to 4 ft. apart each way, two seeds to a hill. Has yielded 50 tons of fodder to the acre. Large pkt. 5c; oz. 10c; ¼ lb. 20c, lb. 60c, 3 lbs. (sufficient for one acre) \$1.50, postpaid.



AUSTRALIAN SALT BUSH.

YOU CANNOT APPRECIATE THE FULL VALUE OF THESE FORAGE CROPS UNLESS YOU YOURSELF PRODUCE AND USE THEM.



COW PEAS

There is as much difference in the grading of cow peas as in clover, and we handle only the choicest; you will not be able to get better. **Circular on Cow Peas free.**

NEW ERA.—The earliest variety and is therefore most decidedly best for growing in the North. Make splendid hay; use 30 lbs. seed per acre and plant like garden beans; particularly recommended for planting after grain harvest and plowing under in fall. Get the grain off the ground early and plow and plant to New Era cow peas; put the ground in fine shape for next year's crop. You will not have to haul manure on land so treated. Mature in 60 days and have done well as far north as Minnesota. Pkt. 5c, lb. 25c, 3 lbs. 65c, postpaid. By frt., 15 lbs. \$1.00; 50 lbs. \$3.00. See red ink price list for current values.

WHIP-POOR-WILL.—Highly valued in the South for fodder and reclaiming worn-out land; of special merit as a fertilizer. Vines when fed green make the best fodder and are very nourishing. Whip-Poor-Will is a popular sort and yields a good crop of both fodder and peas. Ground peas make the best cattle fattener. Pkt. 5c, lb. 25c, 3 lbs. 65c. By frt., 15 lbs. \$1.00; 50 lbs. \$3.00. See red ink price list for current prices.

SOJA OR SOY BEANS

IMPROVED YELLOW.—Splendid soiling and hay crop, preferred by many to cow peas as they stand up better and are easier to harvest. Of great value from the fact that they fertilize the soil like clover. Ground beans are equal to linseed oil meal in feeding value; as hay for silo it is equal to or better than clover. Will mature in all parts of the corn belt and in the Middle States has been grown over 4 feet high, heavily podded with seed, producing 10 tons of feed per acre. Pkt. 5c, lb. 30c, 3 lbs. 60c, postpaid, 15 lbs. \$1.00, 50 lbs. \$3.00. See red ink price list for current values.

SAND OR WINTER VETCH

A forage plant of high value, highly recommended by the U. S. Dept. of Agriculture. Produces good crops on poor, sandy soil, but more vigorous on good land. Grows 4 to 5 ft. high. Recommended for seeding with fall rye for winter and spring pasturage; hardy throughout United States. Stays green all winter. Earliest for cutting and a full crop may be taken off before planting the spring crops. Sow 30 lbs. per acre in the spring or fall. Pkt. 5c, lb. 40c, 3 lbs. \$1.00, postpaid. By frt. or exp., not prepaid, 15 lbs. \$3.75, 50 lbs. \$12.50. See red ink price list for current values.

Write for Red Ink Price List of Farm Seeds. Issued all Year.



WHITE CANADA FIELD PEAS.

is the quickest possible way to produce a hay crop and they are especially valuable to the farmer who has not enough meadow land. Pkt. 5c, lb. 25c, 3 lbs. 65c. By freight, 15 lbs. \$1.00, 50 lbs. \$3.00. See red ink price list for current prices.

DWARF ESSEX RAPE

Most popular and profitable of all annual forage plants. Easily grown anywhere and stands unsurpassed as pasture for hogs, cattle or sheep. They eat it greedily and seem to prefer it to any other pasture during summer and till late fall or early winter. It can be sown early in the season in small grain to provide pasture after harvest, or sow on the stubble, but it is more generally sown in June, July or August with corn or potatoes or on well prepared land alone for summer and fall pasture. Extremely cheap and very prolific, having yielded 20 tons per acre. At the Iowa Agricultural Station at Ames, 60 bushels of oats and 18 tons of rape were grown on one acre, the oats and rape being sown together early in spring. The rape interfered but very slightly in oats harvest. Sow in drills, two or three pounds per acre, and cultivate. Sow broadcast four or five pounds per acre. A Nebraska farmer sowed only 3 lbs. per acre on a four and one-half acre field, and five weeks after

turned 80 head of hogs and 40 pigs into the field and pastured there until October. It grew so rapidly that at no time could he tell where they had been 20 feet away from the gate. **True English Seed**, imported by us from Essex, England. Pkt. 5c, lb. 35c, 3 lbs. \$1.00, postpaid. By frt. or exp., not prepaid, 5 lbs. \$1.25, 10 lbs. \$2.25, 25 lbs. \$5.00. **Ordinary Rape Seed**—Lb. 25c, 3 lbs. 65c, postpaid. By frt. or exp., not prepaid, 5 lbs. 75c, 10 lbs. \$1.25, 25 lbs. \$2.50. See red ink price list for current values.

THOUSAND HEADED KALE

Is now considered much superior to the rape in some sections. The seed can be sown early in April and thereafter till mid-summer. Grows 3 to 4 feet high and is so covered with small whorls of leaves that the name of Thousand Headed Kale was given to it. Sow broadcast 3 lbs. per acre, or in rows 18 inches apart, using 1 lb. per acre. Pkt. 5c, ¼ lb. 15c, lb. 50c, prepaid; 5 lbs. or more, by exp., not prepaid, 35c a lb.

WHITE CANADA FIELD PEAS

For northern states no crop is of greater value than field peas, being very rich in the elements that improve the muscle, bone and nervous system. Sow as early as ground can be worked, using 60 lbs. (1 bu.) of peas and two bushels oats per acre. Cut when the oats are in milk and cure for hay. This is the quickest possible way to produce a hay crop and they are especially valuable to the farmer who has not enough meadow land. Pkt. 5c, lb. 25c, 3 lbs. 65c. By freight, 15 lbs. \$1.00, 50 lbs. \$3.00. See red ink price list for current prices.



FIELD OF COW PEAS

MAKES FINE QUALITY HAY**SUDAN GRASS**WONDERFULLY PRODUCTIVE**A MOST VALUABLE QUICK GROWING PLANT FOR AN ANNUAL HAY CROP**

This is a new annual grass that is causing a great deal of inquiry throughout the country. It is very highly recommended by the United States Department of Agriculture, who brought it to this country from the Egyptian Sudan, in 1909, and since growing it upon our own farms we give our recommendation and urge our customers to try it.

Two years ago we first offered Sudan Grass to our friends without our recommendation, because it was a comparatively new plant and had not been grown in Iowa. It was widely advertised, and we offered it in deference to inquiry from our friends. We purchased seed from growers in Texas and planted a small plot of a few acres at our Altoona farm. It grew so splendidly and made such a magnificent crop of hay that we are urging our friends who need an annual hay crop to plant Sudan Grass, believing it will produce more tonnage per acre than any other grass now grown. We know that it thrives in Iowa and from the

short time required for maturity we believe it can be grown anywhere in the United States with satisfactory results.

We recommend Sudan Grass to take the place of the millets as a summer hay crop. This in our judgment is its most valued place in the agriculture of Iowa. It will do as a substitute for sorghum for fodder or Kaffir, Milo and Paterita as a forage plant, but we do not consider it as valuable in any other form as it is for hay. In quality it is far superior to the millets. It does not get "dusty," nor is it so "seedy" as millet hay, while it will yield much larger quantities per acre than any variety of millet generally grown. The seed is not expensive, and when the small quantity required per acre is considered, you will see that you can grow a crop of it at less cost than any of the millets. It costs more to produce Sudan Grass seed in Iowa than in the South, hence we are asking a higher price for home grown stocks. We will send whichever you prefer.



Prof. Jas. Atkinson, Editor of the Iowa Homestead, in the field of Sudan Grass at the Iowa Seed Farm

Sudan Grass belongs to the same family as the sorghums, and the Kaffir corn, and like plants, but does not grow so coarse, while producing fully as much leaf growth in proportion to the crop. It grows to a height of seven or eight feet, and the stalks vary in size from that of a lead pencil to a half inch in diameter. It is not difficult to cure, and it is claimed by those who have fed it to live stock to contain a great amount of food value.

Owing to the great similarity of Sudan Grass and Johnson Grass, care has to be taken in the selection of the seed. Johnson Grass is a perennial—that is to say, when once established it is hard to get rid of, as the winters do not destroy it. We have not offered Johnson Grass for a number of years because of this fact, and because it was unpopular with our farmers. The Sudan Grass, however, being annual in its nature, does not survive the winter and is not obnoxious nor difficult to get rid of.

Sudan Grass may be planted in cultivated rows, in close drills, or broadcast. If in cultivated rows, we recommend they be made 36 inches apart, using about 3 lbs. of seed per acre. It stools wonderfully if given room; this planting will produce a tremendous crop. Sometimes as much as fifteen or twenty tons per acre is produced. In the dry regions this is the best planting process. Usually the crop can be cut twice during the summer, making a second growth from the roots when the first cutting is removed.

Where there is plenty of rainfall, it may be sown in drills 18 inches apart, using 6 lbs. per acre, or it may be sown broadcast, using 15 to 20 lbs. per acre. Either method makes a solid mass of hay, but in our judgment the broadcast method produces finer quality hay, although not so much tonnage.

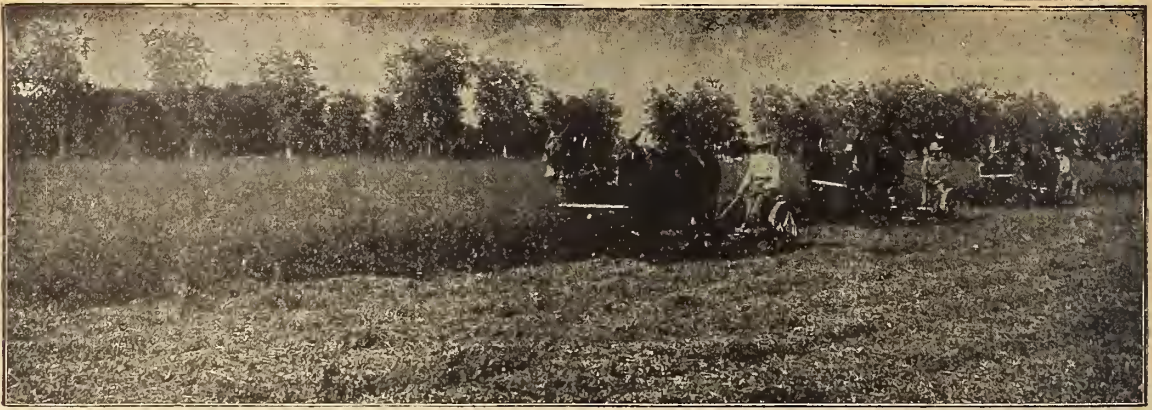
By the broadcast method recommended we mean either seeding and harrowing, or using the grain drill as in sowing rye or other small grained cereals.

As with millet and cane and other plants of similar nature, we believe in heavy seeding for Sudan Grass, because what is lacking in quantity is more than made up in quality, and if sown thickly as suggested in the last paragraph, live stock can consume the entire crop.

Because it belongs to the millet and sorghum family, it is not to be planted until the ground is thoroughly warm. Our recommendation is early June. In some seasons it might be started at corn planting time in May, but we believe as good results can be obtained by sowing after the corn has been planted, and is out of the way.

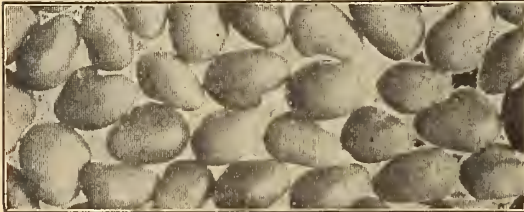
PRICES: Southern Grown Seed—Per lb. 40c, 3 lbs. \$1.00, postpaid. By express or freight, not prepaid, 10 lbs. \$2.50, 100 lbs. \$20.00. Iowa Grown Seed—Per lb. 50c, 3 lbs. \$1.25, postpaid. By express or freight, not prepaid, 10 lbs. \$3.00, 100 lbs. \$23.00.

WE URGE EVERY FARMER CUSTOMER TO TRY A FEW ACRES OF SUDAN GRASS. IT WILL PROVE VERY PROFITABLE.



EXTRA QUALITY IOWA GROWN CLOVER SEED

Iowa has a splendid crop of Clover this year. It grew and was harvested without rain so that it is exceptionally bright in color. Our farmers have been sowing high grade seed for years and our fields are free from bad weeds. We are free from the dodder of the far West and the dock and buckhorn of the East. No state in the Union will supply as good seed as Iowa this year and we believe this is in large degree because our Iowa Shield Brand seed has been so generally used by Iowa planters for several years. Will be pleased to submit samples and prices at any time.



IOWA SHIELD BRAND CLOVER

Notice the plump, perfect shaped grain and freedom from weeds. You cannot secure better seed, no matter what you pay for it, and it costs but little more. It always pays to sow the best you can obtain.

Market changes constantly and this part of the catalogue goes to press in November. It is impossible to name price at which clover seed will sell in spring. We therefore quote price in this book only in small lots.



ORDINARY CLOVER

As it comes from the huller, full of weed seeds, trash and sand. If you buy low grade seed you not only risk filling your land with weeds, but you are also paying for each pound of weed seed and trash.

MEDIUM OR COMMON RED CLOVER

Iowa Shield" Brand Clovers our Famous Specialties,

We sell more clover seed direct to farmers than any seed firm in the West, and it is all sold because those farmers get better quality of seed,—brighter, cleaner, more plump and vital—than they can secure elsewhere. The reason is that we take special care to have everything first class and protect our customers by using the microscope in both buying and selling.

Our clover seed has become widely known for its purity, strong vitality, hardiness, vigorous and healthy growth, and branching qualities, so that now we receive many or-

ders from the most distant parts of the United States. Well posted farmers appreciate the difference between it and ordinary stock. This is the most important of all clovers and the standard everywhere for hay and pasture and our "Iowa Shield" grade is the plumpest, cleanest, purest, fanciest grade; tested and of high vitality. Farmers usually sow 15 to 20 pounds of clover seed to the acre when sown alone, but this seed is so choice that 6 or 7 pounds is really sufficient if conditions are favorable, but we recommend sowing 10 pounds so as to be sure of a perfect stand. About 5 pounds, if sown with timothy. Per pound, 35c, 3 pounds \$1.00, postpaid. See red ink price list for quantity price.

MAMMOTH RED CLOVER

This is also called Sapling or Pea Vine Clover. It greatly resembles the Medium Red but grows coarser and more vigorous. It is the best clover for pasturage as it will produce an enormous yield and is of the highest feeding quality but not as desirable for hay. Specially desirable for hog pasture. You can enrich your soil more cheaply by sowing Mammoth Clover and plowing it under than in any other way. Per lb. 35c, 3 lbs. \$1.00, postpaid. Ask for price in quantity.

ALSIKE CLOVER

Unequaled for hay and we cannot too strongly recommend it to our customers. It is hardy even in northern Minnesota, and is the only variety which will produce a good crop



ALSIKE CLOVER

and not kill out in low, wet land. The hay is finer and better than any other, therefore of special value for sowing with timothy. Height 18 to 24 inches, and has round pink or flesh colored heads. Seed is small and requires only about 8 pounds per acre, or half that quantity if sown with timothy. Will hold its proportion with timothy in a permanent meadow as the seed ripens on the first crop and thus re-seeds itself. The best clover to use with Timothy, Red Top and Blue Grass for meadows or pasture where land does not dry out well. Per lb. 35c, 3 lbs. \$1.00, postpaid. See red ink price list for current values.

WHITE DUTCH CLOVER

Valuable in pasture mixtures. Is also used largely for lawns. Hardest of any clover. Creeping habit. Is desirable for terraces and sloping grounds. Our "Iowa Shield" grade is extra bright and fine. Sow 5 lbs. per acre. Per lb. 75c, 3 lbs. \$2.25, postpaid.



CRIMSON CLOVER

CRIMSON CLOVER

(Also called Giant Incarnate.)—An annual variety. It commences to grow after cutting the grain nurse crop and continues until severe freezing weather and makes good hay. Sow in April or May, 20 lbs. per acre. Winter kills in this latitude. If you want to enrich your soil without loss of time or crop sow Crimson Clover in the corn at last cultivation. Cut the corn and turn clover under in October. Per lb. 35c, 3 lbs. \$1.00, postpaid. Ask for price in quantity.



Field of Alfalfa on the farm of H. C. Hargrove, nine miles south of Des Moines. Iowa Shield seed sown April 14; photograph taken seventy days after sowing. Note the wonderful growth.

AMERICAN GROWN HARDY ALFALFA SEED

There is a fair crop of Alfalfa seed this year and the quality is of the best. The season was extra good in the Middle West where our supplies come from. There was no rain on the seed crop, so that color and appearance is better than usual. Perfect maturity made large, plump, vital grains so that we have unusually choice stocks. The price this season is about an average but if quality is considered planters will get better values than for several seasons. If you can possibly do so, we recommend seeding Alfalfa this spring, because we believe conditions are ideal both as regards soil conditions and seed, and it will be a profitable crop on any farm.



Iowa Shield Brand Alfalfa—Perfect, plump grains, free from weeds, and of strong vitality.



Alfalfa seed as frequently sold on the open market. Full of weeds and dangerous.

No crop is so valuable for permanent meadow as Alfalfa. In ordinary seasons three crops of hay are cut in Iowa and the North generally, while many seasons produce four cuttings. It stands the dry, hot months of July and August in the corn belt and continues green and growing at this time when other grasses are dormant. It is grown everywhere in the United States now, and it is a question of soil rather than climate which determines success or failure with Alfalfa. We procure our American Alfalfa seed from the states of Kansas, Nebraska and South Dakota so that they are suitable for any section of the country. Actual tests of seed from all over the United States show that the stocks produced in the semi-arid districts of the states named give the best results and are harder than stocks grown farther south or by irrigation in the West. It is because of the results of actual plantings that we offer this seed, and when we have re-cleaned it, taken out dirt, trash, immature seeds and weeds, we have the best possible stocks for our customers.

FARMOGERM

In response to inquiry from many patrons, we are here offering the one culture of nitrogen-gathering bacteria which seems most likely to succeed under general conditions and in the hands of inexperienced people. Little effort is required and needed instructions are printed on the package. It comes in the form of a jelly, sealed in bottles to exclude the air. It is diluted with warm water to which sugar is added, and is sprinkled on the seed just before sowing.

Farmogerm furnishes the bacteria which fixes nitrogen in the form of nodules on the roots of plants like Clover, Alfalfa, Soy Beans, Cow Peas, etc. By its use more nodules for the storing of nitrogen are produced on the roots of the plants, and thus the plants grow stronger and more vigorous. There is a special Farmogerm for each crop. We furnish from the manufacturers culture for any particular crop you desire, carrying in stock here three kinds, which will be sufficient for ordinary needs, as follows:

No. 1—For Red, White, Crimson, Alsike and Mammoth Clover.

No. 2—For Alfalfa and Sweet Clovers (any variety).

No. 5—For Garden Peas, Sweet Peas, Garden Beans, etc. Sold in the following quantities, delivered:

Garden size (for $\frac{1}{4}$ acre) 50c; for 1 acre \$2.00; for 5 acres, \$6.00.

THE QUALITY OF SEED

As with medium red clover, the increasing demand for Alfalfa seed has caused immense quantities of low grade seed to be offered on the market. Thousands of bushels are imported each year, much of which contains impurities and foul weed seeds in such quantity as to make it really dangerous to sow. A great deal of the American grown seed is offered just as it comes from the hullers, full of weed seeds, sand, trash and immature grains so that it will not pay to use it. Prices change and we can only offer seed at market values. Ask for samples and prices when ready to buy.

IOWA SHIELD ALFALFA SEED

No seed which we handle is given closer scrutiny than Alfalfa. We buy only the best offered; using the microscope and analyzing for purity. Our Iowa Shield Brand grade is the brightest, plumpest and cleanest we can find; and even this is not good enough for the Shield grade until we have re-cleaned it through our perfected machinery and taken out everything in the way of sand, broken grains and dirt; and when it is put in the branded bags it is fit to sow anywhere. We invite the closest inspection of our Iowa Shield Brand Alfalfa from particular farmers and we will gladly mail you a sample on request for microscopic inspection and analysis. Per lb. 40c, 3 lbs. \$1.00, postpaid. See red ink list for price.

IOWA FANCY ALFALFA

Our fancy grade of Alfalfa seed is only a little below the Iowa Shield brand in quality. It will be found of excellent purity, free from prohibited weeds, and grading lower because of color rather than actual value. See red ink list.

IOWA STANDARD ALFALFA

The Iowa Standard is a good grade of Alfalfa, fully up to standard of the Iowa pure seed law, and is in fact fully equal to most of the Alfalfa seed offered as "choice" or "prime" by other dealers. It is really nice seed and we will mail a sample for comparison if desired. Write for price.

TURKESTAN ALFALFA

We import the seed of this variety, but are just as careful in our buying as we are in the purchase of American seed. There is a demand for this sort in the semi-arid regions of the west and northwest as it is said to be harder than our native sorts. The seed which we offer will be clean, plump and vital and in purity is nearly as good as our Iowa Shield Brand. Lb. 30c, 3 lbs. 75c, postpaid.



SWEET CLOVER

Ask for Circular on Sweet Clover and Price Per Bushel.

Sweet Clover has become a standard crop throughout the country. It is grown in every state in the Union.

It is now being used in spring sowing exactly as common red clover. Some farmers seed it with small grain for nurse crop, while others are sowing it alone in early spring and securing both pasturage and hay the first year. The handling of this crop has passed the experimental stage. We have ceased to handle seed in the hull, as we now have machines to hull and clean it, so that we offer it in as high quality and purity as any clover. This is a great step forward, and our customers will appreciate the difference if they compare crops from our stock with that grown from ordinary seed.

SCARIFYING THE SEED.—One great difficulty with sweet clover in the past was slow germination. In the natural condition the seed has a very hard hull and the germ does not start quickly. Sometimes spring sown seed would not sprout until fall, and at best only about 70 per cent germination might be expected. Prof. H. D. Hughes, of the Iowa Agricultural College, at Ames, Iowa, has perfected a machine to scarify the seed, and kindly permitted us to install one in our warehouse so that we can now supply our customers with seed that will show a high percentage of germination. The process of scarifying results in rubbing the seed against sandpaper, so that the hull is very thin, while in other respects the seed retains its normal condition, except the microscopic scratches in the seed-coat show where the sandpaper has chipped it. Of course it costs a little more to add the extra cost of labor, and the loss by shrinkage is considerable, but you get value received. A bushel of scarified seed will give you 25 per cent greater germination than untreated seed, and is really worth that much more to the planter. Use 12 to 15 lbs. of scarified seed per acre. This gives a heavy stand resulting in hay of fine texture and quality.

Sweet Clover belongs to the family of leguminous plants, and adds greatly to the fertility of the soil on which it has been grown. The same bacteria which live on its roots thrive on the roots of alfalfa and therefore it is claimed that alfalfa will do much better on land where Sweet Clover has previously been grown. It roots very deeply, therefore opens up the soil so as to adapt it for all other kinds of crops, making it not only more rich in nitrogen, but allowing the roots of other plants to penetrate more deeply.

Sweet Clover will grow and make a crop on the poorest soil and worst locations of any of the grasses. It thrives

on land where there is no plant food apparently. It will be found growing wild in railroad cuts, about the mouths of abandoned coal mines, or steep hillsides where stone crops out—in fact it will grow under more adverse conditions than any of the coarser grasses, and every place it grows it enriches the soil and prepares it to produce the more economic grains and grasses. It is used by thousands of farmers as a forerunner for alfalfa. You will not require inoculation or any preparation of any kind if you sow alfalfa on land that has grown sweet clover.

Many times a farmer wants to start a field of sweet clover in the fall. This is readily done, and by this method you get it out of the way of spring work. Sow in late October on thoroughly prepared ground. The seed will lay in the ground all winter and sprout in early spring. We believe you get quicker growth and larger crops with fall sown seed, although since the scarifying process has been perfected much quicker growth is now secured with spring sown seed.

If you sow scarified seed with small grain in early spring you can reasonably expect to cut a crop of hay in October. If preferred the crop can be turned under in fall plowing and by this method you can build up the soil without using the clover rotation if you so desire. Sweet clover can be sown among the corn at last cultivation and turned under the following spring, or it may be used for pasturage or hay during the summer. It has a permanent place in agriculture and we expect to see it increase in popularity. This year there is a splendid crop of seed throughout the country. For the first time production has reached a point equal to demand and we expect to see lower prices than for several years. At these values you can afford to use it freely.

WHITE BIENNIAL.—(*Melilotus Alba*, or Bokhara.)—The white-flowered variety frequently seen growing wild along the roadsides. In growing it for hay, it is cut when about 18 inches to 2 feet high and before it begins to branch heavily. If the mower bar is set about 6 inches above the ground it will cut above the first branches and the clover produces a second crop. If cut too close to the ground the plants are not likely to survive the first cutting. Sow very early in spring or fall, and without a nurse crop. Germinates more quickly and freely if sown on a well prepared seed bed. Per lb. 40c, 3 lbs. \$1.00.

YELLOW BIENNIAL.—(*Melilotus Officinalis*.)—Very similar to the commoner white-flowered (*Melilotus Alba*), but blooms a little earlier. Not so rank and coarse and for this reason is claimed to be superior. Per lb. 40c, 3 lbs. \$1.00.

MILLET

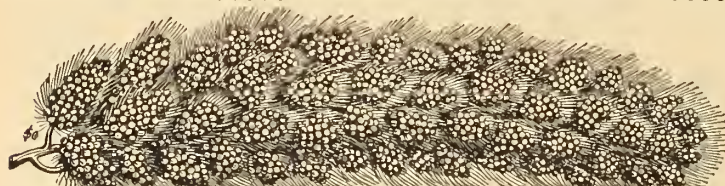
There is nothing like millet to cover up shortage in your hay crops. Can be sown in the middle or end of July and makes a valuable catch crop. This catalogue is printed six months in advance of sowing season, so we do not quote prices on large lots.

GERMAN MILLET.—Matures about two weeks later than common millet. It grows 4 to 5 feet high, yielding an abundance of leaves; heads closely condensed; spikes very numerous; seeds round, golden yellow in rough sheaths. Sow 50 lbs. to acre. Iowa Standard grade. Lb. 20c, 3 lbs. 50c, postpaid.

IOWA SHIELD GERMAN MILLET.—This is an extra fancy grade of the true southern grown German millet of the Tennessee or cultivated strain. The seeds are round and "shotty." The heads are very large, borne on a strong, vigorous, very leafy plant and produces a much heavier crop than the ordinary stock. Per lb. 25c, 3 lbs. 60c, postpaid.

COMMON MILLET.—Best quality. Preferred by some to German, as it does not grow so rank and coarse. Makes a better quality hay, but will not produce so heavily. Requires strong, rich ground for best results. Lb. 20c, 3 lbs. 60c, postpaid.

HUNGARIAN.—Popular in some sections. Sometimes preferred to millets as it is thought to be less dusty. Per lb. 20c, 3 lbs. 50c, postpaid.



GERMAN MILLET

JAPANESE MILLET.—(*Panicum crus-galli*.)—A distinct variety called by one seedsman the "Billion Dollar Grass." Especially valuable for the north. Yields an enormous crop of forage, which is greatly relished by stock. When cured makes an excellent hay. Per lb. 30c, 3 lbs. 75c, postpaid.

MANITOBA MILLET.—Hog or Broomecorn millet. Best for withstanding drouth. Two weeks earlier than German. Per lb. 20c, 3 lbs. 50c, postpaid.

PEARL MILLET.—Entirely different from ordinary millet; an immense fodder yielder, of tall growth, highly recommended by the Department of Agriculture for the South. Sow in May in the North. Per lb. 35c, 3 lbs. \$1.00, postpaid. 20c, 3 lbs. 50c, postpaid.

SIBERIAN MILLET.—Frequently called Red German millet. Resembles German millet in manner of growth and productiveness. Earlier and seed is mixed red and yellow. Per lb. 20c, 3 lbs. 50c.





NEW CROP, RE-CLEANED, TESTED GRASS SEEDS

THE SEEDSMEN'S SERVICE

The measure of usefulness of the seed house in the handling of grass seeds is the ability to take the crops as they come from the farms, re-clean the stocks and send them out to planters free from weed seeds, dirt, trash and impurities and in fit condition to produce good crops. The seedsman who simply buys and sells performs no function that is worthy of reward. All the best houses in the trade are equipped to clean and improve the quality of stocks purchased on the open market. Because of these conditions the farmers patronize the seed houses. Most planters realize that they can procure better seed from the seedsman than from the grower. Every year a great many of our patrons sell us their crops of clover and grass seeds and buy fresh supplies from us because they find it profitable to use re-cleaned seed of the highest quality.

For the service rendered in re-cleaning and grading grass seeds the pay is small. Ten per cent on an average will measure the margin between buying and selling prices, and this is a very low cost when it covers all the many details necessary in the work performed. The cost of this service and the price paid for it by no means measure the value to the planter. It is one of the great factors in increasing farm production.

No seed firm in this country takes greater pains and care in the purchase and sale of grass seeds handled than do we, and none have experts of greater knowledge or better judgment. The men in charge of buying, cleaning and grading have all had more than twenty years' experience in our own establishment. We also have the latest and best cleaning machinery and thus equipped we are in position to furnish and do furnish the very highest possible quality in this line. No expense is spared either in purchase price or handling to keep up the quality; and of course it costs a little more, but when you see a field of grass, free from weeds, of strong and vigorous growth, you will realize that quality is and should be of greater concern than price. If grass seeds bought of us are not satisfactory they may be returned within fifteen days and money will be refunded.

TIMOTHY

We make a speciality of supplying the choicest timothy direct to farmers. No variety of our natural grasses is more cultivated than timothy, and for meadows it is very valuable. It is best suited to moist, rich, strong and loamy soils where it grows to perfection, but does not succeed as well on dry, sandy soil. It is very nutritious, and makes good hay, but should be cut at the time of flowering. We are located in the best section of the country for growing timothy seed and more of it is grown in Iowa than in any part of the world.

There is not more than one field of timothy in a hundred which produces our Iowa Shield grade. It is very bright in color, but little hulled, almost absolutely free from impurities and of high vitality, and therefore requires only about 3 lbs. of seed per acre. Per lb. 25c, 3 lbs. 60c, postpaid. Ask for price in quantity.

RED TOP

Very hardy native perennial; succeeds best on moist land. Remains green the greater part of the year. In the East it is one of the principal sorts, and is used here largely in mixtures for meadows and pastures where land gets wet. Fancy cleaned or solid seed. Per lb. 40c, 3 lbs. \$1.10, postpaid. See red ink list for quantity price.

CLEAN SEEDS

Few persons can detect impurities in grass seeds unless seed is very foul. Often our friends have watched our re-cleaning machines and wondered where the impurities came from, as the seed seemed without dirt or trash before cleaning. Grass seeds as they come from the thresher contain large quantities of impurities. For every pound of dirt in clover seed you pay 20 to 25 cents. Shrinkage usually runs from 3 to 6 lbs. per bushel. This makes quite a difference in real value and our seed is really worth \$1.00 to \$2.00 per bushel more than seed as commonly sold. No one should buy seeds from any source unless they have been thoroughly cleaned. We will be pleased to submit samples for inspection, or you can have seeds from us analyzed by any authority in the country and abide by the report. We know as near as anyone can that our seeds are clean and of superior quality.

OUR IOWA SHIELD BRAND GRASS SEEDS

Now have a national reputation and are shipped to every part of the country where grasses grow. Iowa Shield Brand of Clover, Timothy and other seeds is strictly new crop of exceptional purity and has been thoroughly re-cleaned on the best electric seed cleaning apparatus made. It is a plump, nice seed, carefully tested and proven of strong germinating qualities. These we have thoroughly re-cleaned, tested and carefully inspected under the microscope for foul weeds. To distinguish it from ordinary grasses, we call our best grade "Iowa Shield Brand." It is shipped in sealed and branded bags. It is sure to produce vigorous, healthy plants and an exceptionally good crop if the weather and soil conditions are not unfavorable. It pays to sow the best seeds obtainable and our Iowa Shield Brand is, we are sure, superior to any other.

Our Iowa Standard grade clover, timothy and other seeds is really a choice grade, fully up to requirements of the Iowa Pure Seed Law in purity and vitality, and is, we believe, as good seed as you could obtain from most dealers, but

it is not equal to our Iowa Shield Brand.

Write for prices. They change constantly and we cannot make a price which will be invariable. We issue a price list each week or oftener, as required. If you are in a hurry, order seed and we will send full value of money received on day order arrives. We pay postage at the 1 and 3 lb. rate only. If you want pound lots by express deduct 10c per lb. from price quoted. Large quantities shipped at purchaser's expense. Trial packets 5c each.

KENTUCKY BLUE GRASS

Fancy Cleaned.—Very valuable and popular as a permanent pasture grass. Productive and unusually early in spring, furnishing delicious food for stock. Unexcelled for lawns. Our seed new crop, Kentucky grown. Sow 14 lbs. per acre for pasture, or 60 to 100 lbs. for lawns. Lb. 35c, 3 lbs. \$1.00, postpaid. See red ink price list for quantity values.

"IOWA SHIELD" KENTUCKY BLUE GRASS.—We pride ourselves on this extra choice grade, which is of such unusual purity and high germination that it is of special value for lawns. Lb. 40c, 3 lbs. \$1.10, postpaid. See price list.

ORCHARD GRASS

A valuable grass for pasture or hay land and on account of its earliness very valuable for permanent pastures. It furnishes the first green bite in the spring and the last in the fall, and is quick to recover from close cropping, and even thrives better the more it is cropped. Suited to shady places, orchards and groves. Sow 15 lbs. per acre. Per lb. 40c, 3 lbs. \$1.10, postpaid. See red ink list for quantity price.



TIMOTHY



BLUE GRASS

GRASS SEEDS--CONTINUED

PERENNIAL RYE GRASS, or English Rye Grass.—(Bu. 14 lbs.)—A nutritious permanent grass for meadow or pasture or mixing with other grasses for lawn. Well adapted for permanent meadows, yields large quantities of very nutritive hay. Sow 20 lbs. per acre. Lb. 30c, 3 lbs. 75c, postpaid. See red ink price list for quantity values.

ITALIAN RYE GRASS.—(Bu. 14 lbs.)—Annual variety; will give a large crop first year. Sow 20 lbs. per acre. Lb. 30c, 3 lbs. 75c, postpaid. See red ink price list for quantity prices.

BERMUDA GRASS.—Most valuable grass for the South. Withstands heat and drouth wonderfully. Valuable for hay and pasture and unsurpassed for lawns in the South, as it runs over the ground, forming a dense turf. Sow 8 lbs. per acre. Per lb. 75c, 3 lbs. \$2.10, prepaid; 5 lbs. or more, not prepaid, at 50c per lb.

CREeping BENT GRASS.—(Bu. 14 lbs.)—Of special value for pasture and low ground. Starts early, deep rooted; valued for holding sloping ground or terraces. Sow 15 lbs. per acre. Per lb. \$1.00, 3 lbs. \$2.75, postpaid. Not prepaid, 10 lbs. \$7.00, 50 lbs. \$33.00.

CRESTED DOGSTAIL.—(Bu. 14 lbs.)—For permanent pastures on high land and hard, dry soils and hills; very hardy. Lb. 60c, 3 lbs. \$1.50, postpaid. Not prepaid, 10 lbs. \$4.00, 50 lbs. \$18.50.

RHODE ISLAND BENT.—(Bu. 14 lbs.)—For particularly close, heavy turf. Lb. \$1.00, 3 lbs. \$2.75, postpaid. Not prepaid, 10 lbs. \$7.00, 50 lbs. \$33.00.

MEADOW FOXTAIL.—(Bu. 14 lbs.)—A fine grass for permanent pasture. Its growth resembles timothy. Sow 14 lbs. (1 bu.) per acre. Per lb. 75c, 3 lbs. \$2.00, postpaid. Not prepaid, 10 lbs. \$5.00, 50 lbs. \$23.00.

RED FESCUE.—(Bu. 14 lbs.)—For meadows or pastures on dry, hard or sandy soils. It is very hardy, a true perennial, growing from 1 to 2½ feet high. Per lb. 75c, 3 lbs. \$2.00, postpaid. Not prepaid, 10 lbs. \$5.00, 50 lbs. \$23.00.

HARD FESCUE.—(Bu. 14 lbs.)—Emphatically a grass for dry lands, doing well on sandy and shallow silicious soils. Exceedingly hardy and withstands extremes of heat, cold and drouth. Per lb. 75c, 3 lbs. \$2.00, postpaid. Not prepaid, 10 lbs. \$5.00, 50 lbs. \$23.00.

TALL MEADOW OAT-GRASS.—(Bu. 14 lbs.)—For hay or permanent pasture a most valuable grass. Successfully grown in all parts of the country. Grows tall, therefore desirable for meadow. Does not winter-kill. Per lb. 75c, 3 lbs. \$2.00, postpaid. Not prepaid, 10 lbs. \$5.00, 50 lbs. \$23.00.

MEADOW SOFT GRASS.—(Bu. 14 lbs.)—Although not of high feeding value, is very valuable for low, soft, spongy places, where other grasses don't succeed. Very productive; a hardy perennial; 18 to 20 in. high. Per lb. 55c, 3 lbs. \$1.25, postpaid. Not prepaid, 10 lbs. \$4.00, 50 lbs. \$18.00.

SHEEP'S FESCUE.—(Bu. 14 lbs.)—Suited to light, sandy soil and dry uplands or hillsides. Deep rooted; not affected by drouth. Sheep are fond of it. Sow 14 lbs. per acre. Lb. 40c, 3 lbs. \$1.25, postpaid. Not prepaid, 10 lbs. \$4.00, 50 lbs. \$18.00.

WOOD MEADOW GRASS.—(Bu. 14 lbs.)—Invaluable for wooded pasture or shaded ground; should be in all mixtures for permanent pastures, especially in shady places. Sow 20 lbs. per acre. Per lb. \$1.00, 3 lbs. \$2.80, postpaid. Not prepaid, 10 lbs. \$8.50, 50 lbs. \$40.00.

SWEET VERNAL.—See page 57.



PERMANENT PASTURE AND MEADOW MIXTURES

PERMANENT HOG PASTURE

Ready to use the first year and many years thereafter. Will fatten the hogs quickly and keep them in good health. Much superior to a corn diet for them and helps keep hog cholera and similar diseases away. It contains Perennial Rye Grass, Orchard Grass, Italian Rye Grass, Clover, Timothy, Red Top, etc. This has proven very popular and we believe it is far more valuable to hog raisers than ordinary pastures. Sow 15 lbs. (1 bu.) per acre. Per lb. 35c, 3 lbs. \$1.00, postpaid. Not prepaid, 10 lbs. \$2.25, 50 lbs. \$10.50, 100 lbs. \$20.00.

PERMANENT MEADOW MIXTURES

Will make the best quality hay as the mixture contains such grasses as produce a heavy growth and mature together. We send out the No. 1 mixture when not otherwise ordered as it is adapted to the medium or average soils. Sow about 22 lbs. (1½ bu.) per acre; or for top seeding 10 to 15 lbs.

NO. 1—FOR MEDIUM SOILS.—Contains Meadow Fescue, Perennial Rye Grass, Italian Rye, Orchard Grass, Tall Meadow Oat, Timothy, Red Clover, Alsike, Sweet Vernal, etc.

NO. 2—FOR HIGH, DRY LAND, LIGHT OR GRAVELLY SOILS.—Contains Sheep's Fescue, Alfalfa, Hard Fescue, Perennial Rye Grass, Meadow Fescue, Timothy, Kentucky Blue Grass, Sweet Vernal, etc.

NO. 3—FOR HIGH, DRY LAND, HEAVY OR CLAY SOILS.—Contains much the same as above with the addition of Orchard Grass, Crested Dogstail and Bromus.

NO. 4—FOR MOIST AND RICH SOIL, OR LAND SUBJECT TO OVERFLOW.—Contains Water Meadow Grass, Meadow Foxtail, Perennial Rye Grass, Meadow Fescue, Red Top, Meadow Soft Grass, Alsike, Clover, etc.

NO. 5—FOR TOP SEEDING SWAMPS, MARSHES, ETC.—(Sow 10 lbs. per acre.) Contains much the same as above in different proportions.

PRICES Any of the above Permanent Meadow or Pasture Mixtures (unless otherwise stated), per lb. 35c, 3 lbs. \$1.00, postpaid, 10 lbs. \$2.25, 50 lbs. \$10.50, 100 lbs. \$20.00.

DAIRY FARMERS' GRASS MIXTURES

Dairy farmers particularly desire to take a crop of hay off the meadow and have the aftergrowth for pasture. This can be successfully done with our Dairy Farmers' Grass Mixture, as it covers the ground and furnishes grazing until late in the fall. It consists of Red Clover, Alsike, Orchard Grass, Rye Grass, Tall Meadow Oat, Meadow Foxtail, English Blue Grass, Kentucky Blue Grass, etc. Sow 20 lbs. per acre. Per lb. 35c, 3 lbs. \$1.00, prepaid. Not prepaid, 10 lbs. \$2.25, 50 lbs. \$10.50, 100 lbs. \$20.00.

PERMANENT PASTURE MIXTURES

A succession of grasses coming on constantly from earliest spring through the dry summer until freezing winter; permanent and keeps improving year after year. Sow about 22 lbs. (1½ bu.) per acre; for top seeding, half the amount.

NO. 6—FOR MEDIUM SOILS.—Contains Kentucky Blue Grass, Meadow Fescue, Perennial Rye Grass, Orchard Grass, Tall Meadow Oat Grass, Hard Fescue, Alsike Clover, White Clover, Timothy, Red Clover.

NO. 7—FOR HIGH, DRY, GRAVELLY SOILS.—Contains Sheep Fescue, Hard Fescue, Creeping Bent, Bromus Inermis, Crested Dogstail, Meadow Fescue, Timothy, Kentucky Blue Grass, White Clover, etc.

NO. 8—FOR HIGH, DRY, HEAVY OR CLAY SOILS.—Contains much the same as above, mixed in different proportions, with the addition of Alfalfa and Orchard Grass.

NO. 9—FOR MOIST AND VERY RICH SOILS.—Contains Perennial Rye Grass, Water Meadow Grass, Water Fescue, Meadow Foxtail, Orchard Grass, Meadow Soft Grass, Tall Meadow Oat Grass, Alsike, etc.

NO. 10—FOR ORCHARDS, WOOD PASTURES AND SHADY PLACES.—Contains Wood Meadow Grass, Kentucky Blue Grass, English Blue Grass, Meadow Foxtail, Sweet Vernal, Red Clover, Alsike, etc.

WE MAKE ALL OUR OWN MIXTURES OF GRASS SEED AND THEREFORE KNOW THAT THEY ARE OF CHOICEST QUALITY.

LAWN GRASS SEED

"EVERGREEN"

—AND—

"SHADY PLACE"

Lawn Grass

Prepared by

THE IOWA SEED CO.

DES MOINES, IOWA

Thank God for Grass! No other glory can
With the retreating glory of the grass,
Not in the blue of the a. or the blue of the
Nor in the yellow when the blue has
Gone, and the grass is gone.

A nice velvety lawn adds more to the beauty of a place than any other adornment, and even the humblest home may be made attractive with such surroundings, while without a good lawn even the finest flowering plants and elegantly arranged beds seem insignificant. How important it is then to plan for the best lawn obtainable. Do not spend money in sodding a lawn, for it is expensive and seldom satisfactory. When sod is cut from the roadside or some out-of-the-way pasture, it is poor in quality and full of weeds, and when unevenly laid produces a rough surface which disfigures the lawn. It costs much less to sow the seed and the lawn is far better. Ask for twenty-page circular of information, "How to Make a Lawn."

EVERGREEN MIXED LAWN GRASS SEED.—(Bu. 15 lbs.)—This is our own special mixture of the very best varieties of grass seeds which are suited for growing together in the central and northern states and will make a beautiful, soft, velvety lawn, as handsome green as an emerald, and is formed of grasses which keep green from early spring all through the hot, dry summer weather, until late in the fall. It comes up quickly (in about two weeks after seed is sown), and after once up it soon spreads to cover the ground and is ready for the lawn mower in six or eight weeks. It is permanent, maintaining its beauty for a lifetime, though it is a good plan to give a lawn a top seeding every two or three years. Made by us from new crop, re-cleaned, pure seeds. Per lb. (will sow 400 square feet) 40c, 3 lbs. \$1.10, postpaid. Not prepaid, 10 lbs. \$2.40, 50 lbs. \$11.00, 100 lbs. \$20.00.

TERRACE LAWN MIXTURE.—(Bu. 15 lbs.)—It is very difficult sometimes to grow a good sod on sloping ground, terraces, side hills, or on embankments. This is a mixture of grasses which have strong and spreading roots, making a close turf which heavy rains cannot wash out easily. On new lawns some oats should be sown in order to prevent washing until the grass gets a start. Per lb. 50c, 3 lbs. \$1.35, postpaid. Not prepaid, 10 lbs. \$3.00, 50 lbs. \$14.00, 100 lbs. \$26.00.

GOLF LINKS MIXTURE.—(Bu. 15 lbs.)—A mixture of fine grasses which liberally sown produces a fine green sward. They grow vigorously when cut closely, form a fine mass of interlacing roots, and also differ in their seasons of maturity, so a succession of fresh growths is secured from the early spring to latest fall. Per lb. 50c, 3 lbs. \$1.35, postpaid. Not prepaid, 10 lbs. \$3.00, 50 lbs. \$14.00, 100 lbs. \$26.00.

WHITE CLOVER, "Iowa Shield" Brand.—The well known common white clover is very hardy and its dwarf growth makes it desirable for lawn mixtures. Its close, dense turf and creeping habit makes it fine for terraces and sloping ground. Seed very small and requires but little in mixtures. Lb. 75c, 3 lbs. \$2.25, postpaid.

KENTUCKY BLUE GRASS, "Iowa Shield" Brand.—(Bu. 14 lbs.)—Our stock of this is the best grade of fancy cleaned, new crop, tested seed. The crop is very good, but prices may advance before spring. Lb. 40c, 3 lbs. for \$1.10, prepaid. Not prepaid, 10 lbs. \$2.25, 50 lbs. \$10.00, 100 lbs. \$18.00. See red ink price list.

LAWN FLOWER SEED MIXTURE.—A special mixture of low growing, quick blooming flowers, very desirable for sowing with Lawn Grass Seed in the spring. They come up quickly, afford shelter for grass seed and will bloom by the time the grass requires cutting the first time. Also desirable for sowing on an old lawn very early in the season. Pkt. 10c, oz. 25c.

LAWN FERTILIZERS

PEERLESS LAWN FERTILIZER.—Lawn grass is a voracious feeder and will not thrive and hold its beautiful dark green color and velvety appearance unless it is suitably fed. Our Peerless Lawn Dressing is prepared specially for lawns, is of best quality, dry, finely pulverized, easy to apply. Possesses in the highest degree and concentrated form the constituents best calculated to nourish grass, promote luxuriant growth and the dark green color so admired. Not only the most perfect lawn dressing devised, but the most pleasant to handle, being practically non-odoriferous. In preparing a new lawn, sow 10 to 30 lbs. per 1,000 sq. ft. of surface, according to richness of soil, raking in thoroughly. For top dressing on lawns, use about 40 lbs. per 1,000 sq. ft., or 1,000 lbs. per acre, early in spring. 10 lb. pkg. 60c, 25 lbs. \$1.00, 50 lbs. \$1.60, 100 lbs. \$3.00, 500 lbs. or more at \$2.75.

SHEEP MANURE.—This is a natural manure. Is unadulterated and has far more fertilizing value than the packing house products. If wanted to use in liquid form, dissolve at the rate of 1 lb. to 5 gallons of water. Price, 10 lbs. for 50c, 50 lbs. \$1.25, 100 lbs. for \$2.00, 500 lbs. or more at \$1.75 per 100.

PURE BONE MEAL.—A splendid fertilizer for all purposes; specially nice for use on lawns, as it is clean, free from odor and gives results in added growth of grass. Preferred by many users because it lasts longer than any of the other. One application usually showing results for several seasons. 10 lbs. effect of Peerless Lawn Fertilizer. 50c, 50 lbs. \$1.60, 100 lbs. \$3.00.



Roots of grass showing need of fertilizers, one application usually showing results for several seasons. 10 lbs. effect of Peerless Lawn Fertilizer. 50c, 50 lbs. \$1.60, 100 lbs. \$3.00.



Roots of grass showing effect of Peerless Lawn Fertilizer.

FLOWER SEEDS.

Our floral beauties come in for their full share of attention, and aside from our seed farm we have twelve acres of land right in the city, convenient to the street cars, devoted exclusively to flowers. Here we grow thousands of varieties and have in our employ experienced specialists in this line, who, under our supervision, attend to growing whatever can be grown to advantage in this country, test all novelties offered in this country or Europe, and are constantly trying by selection and hybridization to improve the leading varieties, and make our choice Iowa Flower seeds just what we are striving for—the best in the world. We invite all our customers to call and see this Floral Exhibition whenever they are in the city. Even during the winter the large green-houses on these grounds are a revelation of beauty which surprises everyone. We also have a large acreage on our seed farms east of this city devoted to floriculture. Our flower seeds are all fresh and we know are unsurpassed. Quality is always the first consideration. Our mixtures are mainly made up by ourselves from named varieties, or from growing a large number of the best named varieties together, and will yield a better assortment than is commonly found. This year we classify the climbers, everlastings and grasses separately at the end of the list and this will be found an advantage when seeking something for special uses.

HOME FLORICULTURE

By Chas. N. Page, formerly President Iowa Seed Co.
A book of instructions for growing flowers either from seeds or plants. Price in paper covers 25c, or will be mailed free on orders of \$2.00 or more, if asked for.

DIRECTIONS FOR SOWING, ETC.—The conditions and requirements of the several species as to soil, moisture, heat, etc., should be studied and observed in culture. We give a few general instructions though more complete directions are printed on seed packets. The soil best adapted to most flowers is light, rich loam, containing enough sand to make it porous. If there is some clay with it the colors will be brighter. Make surface smooth and fine as possible; sow seeds in rows, covering each sort of seed in proportion to its size and you should press the soil down firmly over the seeds. Do not plant any seeds when the ground is wet. Many varieties, such as pansy, verbena, daisy, hollyhock and the fine greenhouse plant seeds, should be sown early in shallow boxes in the house, in soil consisting of equal parts of fine sand and rich, mellow loam well mixed together and sifted to remove all gravel and lumps. Sow as before directed. Covering the box with glass helps to retain the moisture and keeps the temperature even. Be careful not to keep too wet, and when large enough to handle, transplant to boxes from one to two inches apart to remain until put in permanent beds.



ABRONIA



AMARANTHUS



ARCTOTIS GRANDIS



ANTIRRHINUM



ALYSSUM

ABRONIA

Trailing habit similar to verbena, bearing clusters of sweet-scented flowers. Effective for bedding in masses, very desirable for rockwork and hanging baskets. In beds sometimes one plant covers a yard square full of bloom. Rose color. Pkt. 5c; ¼ oz. 10c; oz. 20c.

AGROSTEMMA

A hardy plant introduced from Russia; blossoms similar to pinks on long slender stems. Suitable for border plants; fine for bouquets or cemetery. Mixed colors. Pkt. 5c.

AMARANTHUS

Prized for very handsome foliage, whether grown in conservatory or garden. Colors will be more brilliant if in moderately rich soil. Should not be planted in the north before the month of May.

TRICOLOR.—Leaves yellow, red and green; well known as "Joseph's Coat." Hardy annual; 2 feet high. Pkt. 5c.

SALICIFOLIUS.—Known as "Fountain Plant." Pkt. 5c.

CAUDATUS.—(Love Lies Bleeding.)—Produces long, drooping chains of brilliant colored flowers. Pkt. 5c.

MIXED VARIETIES.—Pkt. 5c; ¼ oz. 10c; oz. 30c.

AMBROSIA

(Perfume Plant.)—Long spiral stem with abundant round, greenish-yellow buds and blossoms. Very fragrant. Fine for bouquets or floral work. Pkt. 5c; ¼ oz. 10c; oz. 25c.

ARABIS

ALPINA.—Among the earliest blooming plants; very useful for rockwork, edgings, carpet bedding, etc. Flower pure white; plant 9 inches high, hardy perennial. Pkt. 5c.

ALYSSUM

SWEET.—Has little white flowers, useful for small bouquets. Its fragrance, while sufficiently pronounced, is very delicate. Makes a pretty border and is one of the best plants for a basket or pot. Pkt. 5c; ¼ oz. 10c; oz. 25c.

LITTLE GEM.—The plants are very dwarf and remarkably uniform in growth; only 3 or 4 inches high and each spreads so as to completely cover a circular space fully 12 inches in diameter. The plants bloom while quite young and soon become one mass of white, remaining from spring until fall. Deliciously fragrant. Pkt. 5c; ¼ oz. 20c; oz. 50c.

ASPERULA

AZUREA SETOSA.—Is a hardy, dwarf growing little annual, producing an abundance of small, light blue, sweet-scented flowers. Fine for bouquets. Pkt. 5c; ¼ oz. 10c; oz. 25c.

ANTIRRHINUM

(Snapdragon)

GIANT FLOWERED.—Most beautiful new class, having all the finest colors and markings known in the old varieties, together with several new shades. Flowers are of immense size and produced in long spikes, 1 to 2 feet in height, almost as large and beautiful as gladiolus, blooming continuously. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

DWARF MIXED.—Large flower. Pkt. 5c; ¼ oz. 30c; oz. \$1.

ARCTOTIS GRANDIS

This is a remarkably handsome annual which forms much-branched bushes about 2 feet high. The foliage is soft and downy and of a whitish color; its flowers, borne on long stems, rising well above the foliage, are large and showy; the surface, embellished with a narrow yellow zone at base; reverse of petals lilac-blue; disc is light blue with slightly projecting white stamens. A lovely flower. Pkt. 10c.

YOU WILL BE WELL PLEASSED WITH OUR CHOICE FLOWER SEEDS. THEY ARE THE VERY BEST OBTAINABLE.



ASTERS

Of our long list of flowers grown from seed there is now none more popular and generally satisfactory than the Aster, and during the past few years it has grown greatly in the public esteem owing to the great improvements which have been made. For late summer and fall display it has no equal owing to the rich colors of its perfectly double flowers, its numerous forms and free blooming. The newer varieties specially are of great beauty. Ask for special circular on How to Grow Asters.

MARVEL ASTER COLLECTION

FIVE SUPERB SORTS **FIVE BRILLIANT COLORS**

One packet of each for only 40 cents.

Illustrated in colors on the back cover page of catalogue.

VIOLET KING.—A branching aster of the paeony flowered type, which is the most popular shape of bloom. Large flowers 4 to 5 inches across, of beautiful, rich, violet purple color. Per packet 10c.

SNOWDRIFT.—A paeony flowered type of branching form, with flowers borne on long stems. Everyone appreciates the need of pure white in color harmony. The perfect form and large size of the flower decided us to chose this sort for our special collection. Pkt. 10c.

ENCHANTRESS.—Are unusually large flowers, intensely double, of splendid form and substance, covering plant in profusion. Color a beautiful light pink. Flowers medium early and continuously. Plant of branching type. A dainty color and a general favorite. Pkt. 10c.

ROYAL PURPLE.—A truly royal flower, not only in sturdy character of the plant, but also in the great size and substance of the bloom, and the imperial richness of color in the flower. Of branching type, with splendid blooms on long stems. Very popular because of its unusual color. Pkt. 10c.

CRIMSON KING.—This adds the brilliancy necessary to complete the beauty of our Marvel Aster Collection, one of the best offers we have ever presented to our customers. It would not be complete, however, without the Crimson to give the brightness and shining touch which a pleasing red conveys. Pkt. 15c.

BIG SIX ASTER COLLECTION

One packet each of the six beautiful varieties illustrated above for 45c.

LAVENDER GEM.—(No. 2.)—The daintiness of the lavender color delights the eye, while the perfect form and lovely type of the bloom itself makes the Lavender Gem a cherished aster among all lovers of this flower. It is almost impossible to make a color combination in which lavender is not harmonious. Per pkt. 10c.

CARDINAL.—(No. 1.)—A type of branching aster producing immense large flowers of cardinal red on strong, upright stems. Unexcelled as a show flower, either in beds or as cut flowers. Per packet 10c.

PURITY.—(No. 3.)—A beautiful and distinct variety and the best white; of refined and faultless form and very freely produced. Fine for pot culture. Per pkt. 15c.

DAYBREAK.—(No. 4.)—Truly a magnificent novelty in asters. Of the most beautiful delicate shade of shell pink. Show at their best when mingled with darker shades. Of branching type, producing blossoms of perfect shape on long stems. Per pkt. 10c.

CROWN.—(No. 5.)—Center of each flower white; surrounded by broad margin of color—crimson, rose, violet, etc.; flowers are large, freely produced. Beautiful and showy. Mixed colors. Pkt. 5c.

REGO.—(No. 6.)—A new strain of chrysanthemum flowered asters. Combine the splendid coloring and shading of the Marvel type with the unique form and attractive distinctness of the Harlequin and quilled varieties. Will be appreciated by those who appreciate odd sorts. Mixed colors. Pkt. 15c.

VARIOUS TYPES OF ASTERS IN MIXTURES

IMPROVED BRANCHING.—This is the most popular florists' strain. It is also a popular type for outdoor growing and is sold in greater quantity than any other. We can furnish it in the following colors:

White	Pink	Lavender
Rose	Crimson	Purple
Carmine	Dark Violet	Mixed colors

Each per pkt. 10c; ¼ oz. 40c; oz. \$1.25.

One packet each of eight separate colors of this splendid type for 50c.

SEMPLER'S BRANCHING.—Flowers are large and double, borne on large, stiff stems. A splendid low priced strain of the branching type. Mixed colors. Pkt. 5c.

GIANT COMET MIXED.—Shape differs from all others, resembling the Japanese chrysanthemum. The flowers are from 3 to 4½ inches in diameter, perfectly double. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

MIKADO.—Immense size with curled and twisted petals. A special strain from Giant Comet stock that is very attractive and popular. Mixed rose and white. Pkt. 15c.

BETTERIDGE'S QUILLED.—Perfectly double, tube or quill shaped petals; valuable for bouquets and bedding. A splendid type and one that will appeal because of their distinct form and appearance of the blooms. Mixed colors. Pkt. 5c.

QUEEN OF THE MARKET.—This is generally conceded to be the best early type of aster. They usually bloom two weeks in advance of the ordinary branching types. Rather dwarf and of spreading habit. Mixed colors. Pkt. 5c, ¼ oz. 20c, oz. 60c.

ROYAL MIXED.—This is our choicest mixture of types and colors, made from named varieties and specialties in high grade asters. It will produce the widest range of colors and the strongest and most vigorous plants. Mixed in our own establishment to safeguard its quality. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

PERFECTION MIXED.—(Truffant's Improved Paeony Flowered.)—A favorite; flowers large and almost perfectly round, incurved petals. Really choice strain which we offer as a low priced mixture of this form. Pkt. 5c.

FINE MIXED.—Mixture of varieties and colors from the fields of the growers. Good seed at a low price. Flowers of many forms and sizes, will be produced from this mixture, and this feature makes it very desirable for bouquet work or interior decorations. Pkt. 5c; ¼ oz. 30c; oz. \$1.00.

SINGLE FLOWERING MIXED.—This plant bears a mass of star-shaped flowers. Pkt. 5c.

PERENNIAL MIXED.—Single flowering, hardy, herbaceous plants. If sown early will flower first season. Pkt. 5c.



PEERLESS MIXED BALSAMS

BALSAM

One of the most beautiful of our annuals, and under the old names Lady Slipper and Touch-Me-Not, has always been popular, but by the care and attention given it in the last few years, it has been greatly improved. The flowers are most brilliantly colored, very large and double, rich in colors, ranging from pure white to rich dark crimson. The packets contain about 50 seeds.

CAMELIA-FLOWERED MIXED.—Are very double, resembling the camelia in form, of unusual size, perfect shape, and our mixture contains all the best colors. You will be greatly pleased with it. Pkt. 5c; oz. 40c.

PEERLESS MIXED.—A new mixture made up from the best foreign and American strains and their beauty is truly marvelous. Flowers are double and of all known colors. Plants are loaded with hundreds of flowers. Pkt. 10c; oz. 60c.

ALL VARIETIES MIXED.—A nice mixture of older sorts. Pkt. 5c; oz. 25c.

BLUE BELLS

The popular flower of Scotland. Beautiful bell-shaped, bright blue flowers. Hardy perennial. Pkt. 10c.

BRACHYCOME

Also called "Swan River Daisy." Very pretty low-growing plants, fine for borders, rustic work or pot culture, covered during summer with a profusion of cineraria-like flowers. Half-hardy annual. Mixed blue and white. Pkt. 10c.



BROWALLIA GRANDIFLORA
BROWALLIA

GRANDIFLORA.—A new sort; most beautiful of all Browallias. Grow only about 1 ft. high; form dense little bushes covered with abundance of delightful extra large sky-blue flowers. Hardly another plant with blue flowers that compares with it. Pkt. 10c.

AQUILEGIA

(Columbine.)—Too much praise cannot be given to these elegant, free-flowering and deservedly popular hardy plants; bloom profusely through spring into early summer. Hardy perennial.

LONG SPURRED HYBRIDS.—A much more robust species, both in plant and flower than the ordinary kinds. Colors show wide variations and beauty. Splendid, showy, lasting flowers for interior. Pkt. 15c.

CHRYSANTHA.—The beautiful large flowered variety. Very showy and satisfactory. Pkt. 5c.

COERULEA.—Flowers very large, violet, blue and white. Seed in mixed colors only. Pkt. 10c.

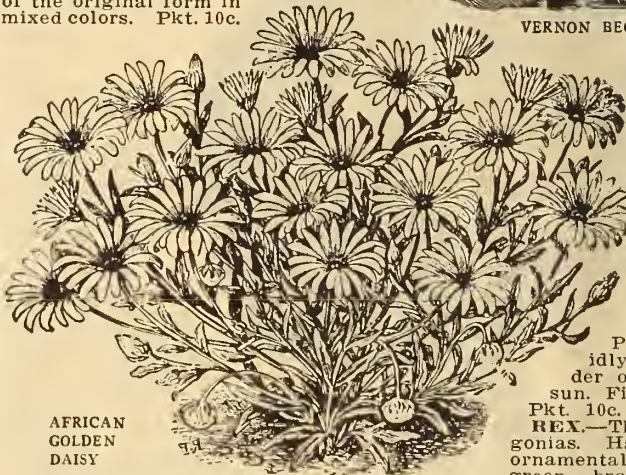
DOUBLE VARIETIES MIXED.—A fine assortment. Per pkt. 5c.

AFRICAN GOLDEN DAISY

(*Dimorpotheca Aurantiaca.*)

This showy annual comes from South Africa. Of recent introduction it is so profuse in bloom, so brilliant in color, so useful for decoration and so easily grown that it is becoming a great favorite everywhere. The blossoms are 2 to 3 inches in diameter, a peculiarly rich, glossy orange gold color, produced quickly on sturdy, hardy plants 12 to 15 inches high. A bed of it in full bloom is truly a splendid show. Pkt. 10c.

HYBRIDS MIXED.—Improved type of the original form in mixed colors. Pkt. 10c.



AFRICAN GOLDEN DAISY

etc. Very rich, lustrous, tropical appearing. Choice mixed. Per pkt. 25c.

TUBEROUS-ROOTED.—Valued for decoration; covered the whole summer with elegant flowers. Blooms first season from seed, if sown in February or March in temperature of 60°. Single and double mixed. Pkt. 15c.

MIXED VARIETIES.—Excellent varieties of flowering sorts. Pkt. 10c.

MEXICAN BURNING BUSH

This we consider one of the very best annual border or hedge plants and is sure to attract attention. Known botanically as *Kochia Scoparia*. It grows quickly from seed sown in the open ground. Plants are always of the rounded or globe-like form shown in our illustration, branch freely, and the stems are clothed with slender light green leaves. Early in the fall the ends of the shoots are thickly set with small, bright scarlet flowers, the bushy plants resembling balls of fire. The plants are equally showy planted singly to show the round, ball-like form on all sides or grown in continuous rows. Per pkt. 5c; ¼ oz. 20c; oz. 50c.



MEXICAN BURNING BUSH

AGERATUM

BLUE PERFECTION.—A great improvement over the common blue ageratum. Flowers larger and of a deeper blue. Blooms profusely; striking for beds or borders. Pkt. 10c; ¼ oz. 25c.

MEXICANUM.—(Blue.)—Suitable for beds; blooms long time; largely used by florists; start seeds early. Pkt. 5c; ¼ oz. 15c; oz. 40c.

ALBIFLORUM.—Like above, only white. Pkt. 5c; ¼ oz. 15c; oz. 45c.



VERNON BEGONIA

BEGONIA

Seeds very small, almost microscopic, and should be sown on top of soil in box, pressing soil evenly. Cover with a glass and give partial shade until up.

VERNON.—Comes true from seed.

Plants grow rapidly and thrive under our hot summer sun. Fine for bedding. Pkt. 10c.

REX.—The king of Begonias. Have very large ornamental leaves of dark green, bronze, gold, red, etc.

BUTTERFLY FLOWER

This large-flowering variety of Schizanthus is one of the handsomest annuals, the shape and colors being so unusual and exquisite that it challenges the rare orchids in beauty. Easily grown and makes a bushy plant fairly loaded with rich and various colored flowers. Pkt. 5c.



CALLIOPSIS

Many of our most showy flowers are slighted because they are common and grow anywhere without trouble or care, almost like weeds. One of these is the calliopsis. Were it a new thing it would be considered a novelty of rare excellence.

LANCEOLATA.—New Golden Coreopsis. —One of the most showy hardy perennials grown, forming tall plants two or three feet high, and bearing in great profusion for a long period during the summer, large flowers of bright golden yellow. Unequaled for cutting. Grows anywhere. Pkt. 10c; ¼ oz. 25c; oz. 75c.

GOLDEN WAVE.—Plant very bushy and compact, reaching 2 ft. in height, covered from July until October with hundreds of beautiful golden blossoms 2 in. in diameter, with small dark centers. It is indeed a wave of gold. Pkt. 5c; ¼ oz. 15c; oz. 40c.

SINGLE MIXED.—Mixture of annual varieties. Many shades of yellow, red and brown. Pkt. 5c; ¼ oz. 10c; oz. 30c.

NEW DOUBLE.—A beautiful and charming new type of the annual Calliopsis. Pkt. 5c; ¼ oz. 25c; oz. 75c.

CAMPANULA

CUP AND SAUCER.—A beautiful variety. Bell nearly 4 inches in diameter, presenting form of a saucer, hence its name. Plant is of strong growth, quite as hardy and floriferous as old blue variety, and is elegant and handsome, when in flower blossoms literally hiding plant. Perennial. Mixed colors. Pkt. 10c.

SINGLE MIXED.—A choice mixture of single sorts. Pkt. 5c.

DOUBLE MIXED.—Choicest seed from selected plants. Pkt. 10c.

CANTERBURY BELLS.—(Campanula Medium.)—See page 62.



CANNA

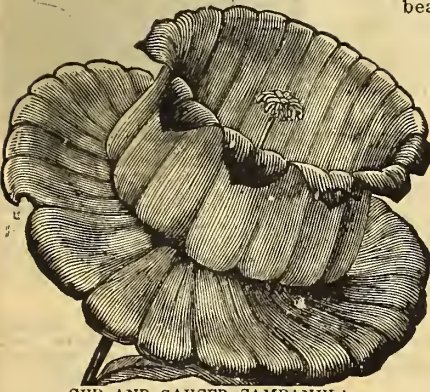
CANNA

Unquestionably one of the best of bedding plants for the American climate. Their handsome leaves combined with their varied and richly colored flowers have an extremely fine effect. Easily raised from seed which should be soaked in hot water for several hours.

FANCY LARGE FLOW-ERED.—Very large flowering dwarf varieties 3½ feet high. Flower first year from seed. Mixture of finest flowering sorts. Pkt. 5c, oz. 25c.



GOLDEN WAVE CALLIOPSIS.



CUP AND SAUCER CAMPANULA.

CINERARIA

As will be seen by the illustration from a single plant, the Cineraria is a wonder for wealth of bloom and symmetry of form.

LARGE FLOWERING MIXED.—The plants grow perfectly circular in shape and are entirely covered with brilliant blossoms. The rich and vivid colors range through all shades of blue, purple and crimson. Most of the varieties have well-defined white eye and are unsurpassed for attractiveness. Pkt. 15c.

CALENDULA

Belongs to the well known marigold family.

FINE MIXED.—Many nice varieties and when planted together they make a showy bed. Pkt. 5c; ¼ oz. 10c; oz. 25c.



CINERARIA.



CALENDULA

CANDYTUFT

Considered indispensable for cutting. All varieties look best in beds or masses; hardy, easy to cultivate, and blooms profusely. Hardy annuals one foot high.

GIANT EMPRESS.—One of the finest varieties. Of very branching habit and when fully grown and covered with its pure white flowers resembles a floral candelabra. Pkt. 10c.

BEST MIXED.—Mixture of all varieties and colors. Pkt. 5c; ¼ oz. 10c; oz. 30c

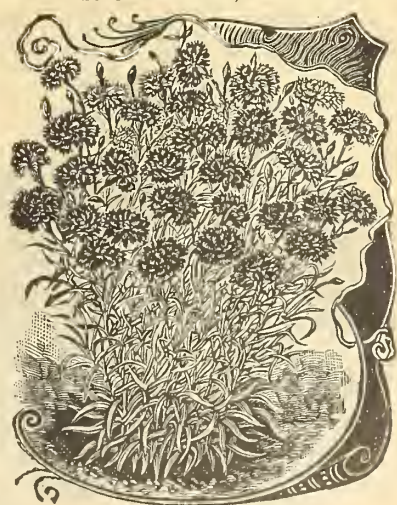
SEMPERVIRENS.—Profuse blooming white perennial. Early. Pkt. 10c.

CARNATION

Finest of the dianthus or pink family. Very fragrant. Our seed unsurpassed.

DOUBLE EXTRA MIXED.—The best greenhouse varieties. Will produce wide variety in markings and colors. Pkt. 10c.

MARGUERITE.—Mixed.—These lovely, fragrant flowers are in full bloom in about four months after sowing. Plants succeed alike in the open garden or in pots, and are of such vigorous, dwarf, erect growth that no supports are required. The range of color, marking, variegations and shading are simply wonderful. Pkt. 10c.



MARGUERITE CARNATIONS



GIANT EMPRESS CANDYTUFT.



GIANT EMPRESS COCKSCOMB

pot plants or specimens in beds, where they excite the curiosity of visitors more than almost any plant that can be grown. The Empress is the finest and most gorgeous variety yet introduced. It is not uncommon for the heads of this variety to measure over twelve inches in breadth; purple combs and dark bronze foliage. Pkt. 10c.

GOLDEN GLOW.—A most attractive novelty. Plants large and produce many handsome flowers 5 to 10 inches in diameter, of a bright, rich golden yellow color. Per pkt. 5c.



COSMOS

A magnificent race of plants growing about 4 to 6 feet high, and in fall literally covered with graceful flowers resembling single dahlias, but better for cutting. As a cut flower for vases or personal wear its grace and beauty is unequalled. Easily raised from seed if sown early.

LADY LENOX.—Beautiful light pink flowers of extra large size. Full, vigorous plants, six to seven feet. Unequaled among annuals for screens and tall borders. Pkt. 10c; ¼ oz. 20c; oz. 50c.

EARLY DAWN MIXED.—Introduced by us and it jumped at once into popularity on account of its extreme earliness, coming in bloom about two months from time of sowing and continuing until destroyed by frost. The plants have fine, feathery, light green foliage and delicate rose, purple, white and lilac flowers. A free blooming plant of easiest culture. Mixed colors. Pkt. 5c; ¼ oz. 15c; oz. 40c.

MAMMOTH PERFECTION.—Flowers double the size of the old flowering cosmos. Seed should be sown early in the house, as they are quite late. Pkt. 5c; ¼ oz. 15c; oz. 45c.

CACALIA

COCCINEA.—A handsome, free-flowering little plant; owing to peculiar form of the flower it is sometimes called Tassel Flower or Flora's Paint Brush. Scarlet. Pkt. 5c.



DOUBLE CENTAUREA

CHRYSANTHEMUM

The Annual Chrysanthemums are different from the large flowered perennial sorts grown by florists; grow easily from seed; flower freely in summer and fall.

CHAMELEON.—A new and distinct annual variety producing very large single flowers with purple, black, crimson, yellow and copper. Pkt. 10c.

NEW DOUBLE ANNUAL.—A valuable and unique novelty. Extremely variable. It is impossible to describe the beautiful forms produced. A great variety of colors, markings and pencillings. It is very double, semi-double or single, all equally charming. Pkt. 5c; ¼ oz. 20c; oz. 50c.

PERENNIAL.—Double Mixed.—This is the popular greenhouse sort. Showy and desirable for fall and early winter blooming. A great variety of colors, markings and pencillings. Very double, semi-double or single, all equally charming. Pkt. 5c; ¼ oz. 20c; oz. 50c.

CANTERBURY BELLS

A very pretty perennial quite popular in some sections of the country. Double and single; mixed colors. Pkt. 10c.

CACTUS

Almost everyone who keeps house plants likes to have a few nice Cacti. The seed we furnish is collected from the choicest varieties in Arizona, New Mexico, Texas, California and Old Mexico, as well as some foreign countries, and mixed together. Easily grown from seed planted in clean sand. Pkt. 10c.

CELOSIA

For summer beds we know of nothing that will produce as showy and brilliant effects.

SPICATA.—A wonderful new variety of Celosia and far different from any ever before seen. It is a handsome annual, forming upright, well branched pyramids, about 2½ feet in height, and producing at the summit of each branch spikes of flowers of a bright rose color when opening, changing to silvery white; fine for garden or growing in pots. Pkt. 10c.

OSTRICH FEATHER.—Beautifully curled crimson plumes. Pkt. 10c.

ALL VARIETIES MIXED.—Pkt. 5c.

COCKSCOMB

GIANT EMPRESS.—Is very handsome either for

CHINESE LANTERN PLANT

Showy annual about 18 inches

high; bears large red cherry-like fruits each enclosed in enormous balloon-like, semi-transparent calyx (about three inches long, at first light green, gradually changing to yellow, then orange, and finally crimson. Effective in autumn garden or pots. Better on rather poor soil. Pkt. 5c.

CLARKIA

A very pretty and desirable hardy annual about 2 feet high. Flowers are white, red, purple, etc., borne in profusion during summer. SINGLE AND DOUBLE MIXED.—Pkt. 5c.

COLEUS

Very decorative border plant. Pkt. of 150 seeds. FINE MIXED COLORS.—Pkt. 10c. RAINBOW.—Finest sort; sure to please. Pkt. 15c.

CENTAUREA

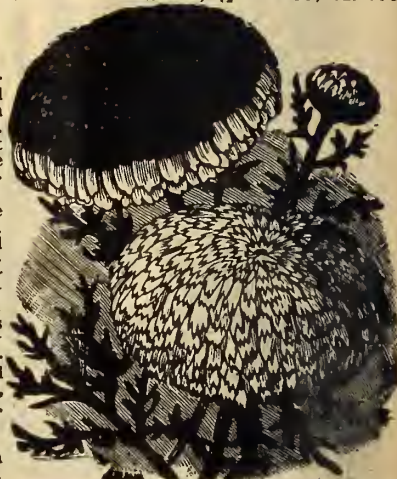
CYANUS.—Called Ragged Sailor, Corn Flower, Blue Bottle, Bachelor's Buttons and Buet. A very old favorite garden annual, flowering freely in almost any situation. Height 2 to 3 feet. Mixed colors. Pkt. 5c; ¼ oz. 10c; oz. 30c.

CYANUS DOUBLE.—A most charming sport from the above, well shown in our illustration. Flowers very large and globular. A continuous bloomer, and becoming quite popular. Our mixture contains a great variety of colors. Pkt. 10c.

MARGUERITE.—One of the handsomest flowers ever produced. Large flowers of purest white, deliciously scented, exquisitely lacinated; freely produced. Pkt. 10c; ¼ oz. 20c; oz. 60c.

GYMNOCARPA.—(Dusty Miller.)—The foliage of this variety is finely cut and silvery. It is perhaps the best white leaved plant for bedding purposes. Pkt. 5c.

IMPERIALIS MIXED.—A grand improvement on the old favorite Sweet Sultan; long stemmed blossoms 3 to 4 inches across, of graceful, airy effect, and deliciously fragrant. Glistening white, red, blue, lilac, royal purple, etc. Fine for bouquets, vases or as corsage flowers. If cut scarcely opened will last for ten days in water. Pkt. 10c; ¼ oz. 25c; oz. 75c.



DOUBLE ANNUAL CHRYSANTHEMUMS



DIANTHUS

The Dianthus, or Chinese Pink, is one of our most useful plants, furnishing abundance of gay and pretty flowers until frozen and covered by drifting snows. Quite as pretty for pot plants in the house as carnations. Plants from seed grow and bloom very quickly.

ORIENTAL OR JAPANESE MIXED.—Markings and colors are rich and brilliant, form of blossoms dainty and beautiful. A few blooms will be solid colors but most of them will show wonderful variations, striped, blotched and banded. Colors range from white to deep crimson and maroon and flowers are produced profusely and continuously. More fragrant than older type of Dianthus. Pkt. 5c; ¼ oz. 20c; oz. 50c.

FIREBALL.—A beautiful, very dwarf and compact-growing pink, only 10 to 15 inches in height. Flowers are perfectly double and color a rich velvety blood red. Plants begin to flower shortly after coming up and continue till severe frose. Effective for garden beds. Pkt. 10c.

SNOWBALL.—Fit companion to above. Flowers large, pure white, double, finely fringed, perfect form. Pkt. 10c.

IMPERIALIS.—*Flora Pleno.*—Best selection of popular type of double sorts. Contains a wonderfully fine diversity of colors. Pkt. 5c; ¼ oz. 15c; oz. 40c.

MOURNING CLOAK.—Magnificent new variety; very double large flowers of very dark mahogany, almost black, petals margined pure white. Pkt. 10c.

HEDDEWIGI.—Finest selected double mixed. One of the most showy. Pkt. 5c; ¼ oz. 15c; oz. 50c.

DOUBLE DIADEM PINK.—A superb large double flower, is hieroglyphically marked, like the original Chinese pinks, in the middle down to the base of each petal; magnificent in color and variety. Pkt. 10c.

CHINENSIS.—(Double Chinese Pink.)—Mixed. Pkt. 5c; ¼ oz. 15c; oz. 50c.

MIXED VARIETIES AND COLORS.—Pkt. 5c; ¼ oz. 15c; oz. 50c.

DAHLIA

The dahlia is well known, but few are aware that if the seed is sown early in the spring they will bloom of the first year.

BEST DOUBLE MIXED.—Our seed is of the finest strain, and produces large, very double flowers of richest shades. Pkt. 10c.

SINGLE MIXED.—Pkt. 5c.

DATURA

A large, strong-growing plant with trumpet-shaped flowers of large size.

CORNUCOPIA.—Plant about 3 feet high; stems dark purplish maroon; the flowers 8 in. long, 5 in. across throat, formed of two or three flowers one within the other. Very fragrant. Per pkt. 10c.

DOUBLE VARIETIES.—Mixed. Pkt. 5c.



FOXGLOVE

A showy perennial; a general favorite and now planted extensively for permanent backgrounds, borders and clump effects. Splendid for harmonizing with plantings of shrubs and thrives in any ordinary garden soil.

MIXED COLORS.—The old-fashioned sort. Pkt. 5c.

GLOXINIAFOLIA.—Is an improved strain growing 4 to 5 feet high, producing large gloxinia-like flowers of many shades and markings. More robust than ordinary sorts. Pkt. 5c.

MONSTROSA MIXED.—A distinct type, the striking feature of which is that a large bell-shaped blossom tops each spike. Pkt. 10c.

DAISY

Popular perennials, blooming the first year from seed; very handsome for borders or pots.

BEST DOUBLE MIXED.—Per pkt. 5c.

NEW GIANT SNOWBALL.—Most charming variety of this handsome little flower. Has unusually large double flowers on long stems, making it valuable for cutting. Color pure snow white. Pkt. 10c.

SHASTA DAISY.—See page 70.

BUSH DOLICHOS

DWARF WHITE.—Bush form of well known Hyacinth Bean, which is popular as a summer climber. This form grows two to three feet high, bears blooms similar in appearance to sweet pea, but borne on long racemes; pure white and very lovely. Followed by ornamental pods. Pkt. 10c; oz. 40c.

ESCHSCHOLTZIA

(California Poppy)

CRIMSON.—This choice novelty is the result of nine years' careful selection from a chance sport in a bed of yellow Eschscholtzia, the state flower of California. Flower bright, handsome crimson. Easily grown, producing a profusion of flowers. Pkt. 10c.

SINGLE MIXED.—The common California poppy. Fine form, deep golden color, and very popular for sowing in masses. Pkt. 5c; ¼ oz. 10c; oz. 35c.

DOUBLE MIXED.—We believe the double form of this flower will prove very satisfactory to all flower lovers. Pkt. 5c; ¼ oz. 15c; oz. 40c.

GOLDEN WEST.—A giant flower of a rich golden yellow color, some specimens having a dark orange blotch in the center. Pkt. 5c; ¼ oz. 15c; oz. 40c.

HUNNEMANNIA.—"Bush Eschscholtzia." Flowers are cup shaped and about 3 in. in diameter. Color clear, bright yellow, having a satiny sheen over the surface. Sow thick as it generally germinates only about 50 per cent. Pkt. 10c.

EUPHORBIA

VARIEGATA.—Are strong growing annuals suitable for beds of tall growing plants or mixed borders; flowers inconspicuous; foliage, however, is ornamental, veined and margined white. Pkt. 5c.

HETEROPHYLLA.—(Annual Poinsettia.)—Bush-like with smooth, glossy-green leaves. In midsummer these are a beautiful orange-scarlet. Pkt. 10c.

FOUR O'CLOCK

(Mirabilis.)—The Marvel of Peru, or Four O'Clock. One of the most brilliant, showy annuals. Planted in beds or masses, their compact growth, rich, glossy leaves and profusion and diversity of bloom, present a gorgeous sight in the afternoon.

MIXED COLORS AND VARIETIES.—Contains a fine assortment of colors and is always satisfactory. Pkt. 5c; oz. 10c.

GLADIOLUS

Well known; is easily grown from seed, and we would like to have all our customers try raising them in this way. This seed is of our own growing, from the best varieties, and will produce a pleasing assortment. It blooms the second year from seed. Pkt. 5c.

GODETIA

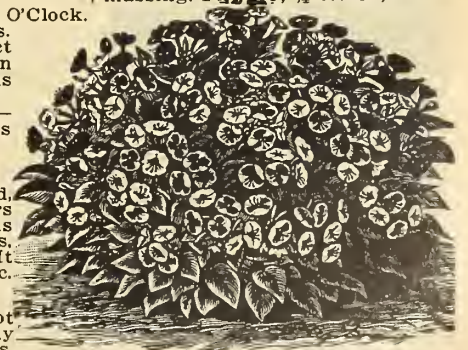
Handsome, showy annual about one foot high, of dwarf, compact growth; bear freely flowers 3 to 4 in. across, of exquisite colors.

MIXED VARIETIES.—All colors. Pkt. 5c.

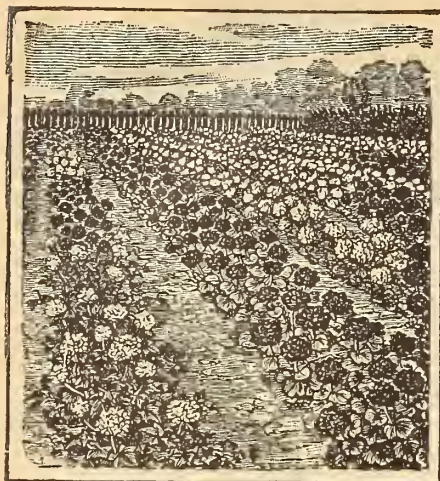


ELECTRIC LIGHT PLANT

A sturdy, bushy plant of about 4 feet, covered constantly with large spikes of flowers 6 to 9 in. long which are pure white at base and range from rose to bright red at apex. Grows readily from seed, which should be planted in open ground early in spring. Showy and ornamental for clumps or massing. Pkt. 10c; ¼ oz. 25c; oz. 75c.



FOUR O'CLOCK



GOOD VENTURE GERANIUM

ennial, fine for borders. Double and single mixed. Pkt. 5c; ¼ oz. 20c.
DOUBLE CLOVE PINKS.—A new type that grows more compact than old fashioned kind and has much wider range of shades and richer coloring. Blooms two weeks earlier than older type. Pkt. 10c; ¼ oz. 35c.

GOLDEN ROD

A well known general favorite that grows wild on our western prairies. It has been adopted by New York as state flower. Is admired by all, and is easily grown from seed. Pkt. 5c.

ICE PLANT

A handsome and curious plant for hanging baskets, rockwork and vases. The leaves and stems appear as though covered with crystals. Peculiarly brilliant in sunshine. Flower white and pink. Pkt. 5c.



EVERBLOOMING ANNUAL HOLLYHOCK

GERANIUM

GOOD VENTURE.—A greatly improved strain of geranium seed grown by a specialist for our trade; easily raised from seed, which will frequently reward the cultivator with charming new varieties. Plants from seed started early in the house bloom the first summer in the garden. Plants grow rapidly, are strong and thrifty. Pkt. (about 40 seeds), 15 cents.

CHOICE MIXED.—This seed saved from nice varieties and mixed. Pkt. 5c.

GRASS PINKS

(*Dianthus Plumarius*.)

The hardy and pretty clove-scented flowers so much loved by our grandmothers. Their fragrance quickly noticed in passing yards where grown. There has been quite a call for these for several years. Colors range from pure white to dark pink, mostly a clear, delicate pink. A hardy perennial.



GRASS PINKS

HOLLYHOCKS

No garden flower is more showy or admired. Start seeds in a box in the house in February or March; about May 1st transfer to a permanent place in the garden. Will produce elegant spikes.

EVERBLOOMING ANNUAL.—A most showy flower for massing, borders and backgrounds. Started in the house in March or April and set out in May it blooms in July. Blooms until killing frosts in fall. Sown in the open ground in May it blooms in August. Of vigorous growth, from 5 to 8 ft. high, and stalks are fairly loaded with large flowers, sometimes 5 inches across. Colors, crimson, canary, yellow, pink, white, maroon, black, scarlet, etc., some beautifully veined and marked; double, semi double, single. Pkt. 10c; ¼ oz. 35c; oz. \$1.

CHAPER'S PRIZE DOUBLE MIXED.—Magnificent double flowers 3 to 4 in. across, of the brightest colors; flowers quite as beautiful and perfect as those of the camellia, massed completely around spikes. A mixture of all colors and shades. Pkt. 10c; ¼ oz. 50c; oz. \$1.50.

DOUBLE MIXED IN SOLID COLORS.—White, yellow, salmon pink, bright red. Either color, pkt. 10c; 1 pkt. of each of the four colors 30c.

ALLEGHENY MAMMOTH FRINGED.—An entirely distinct variety. Flowers are single, double and semi-double, of fine form and rich colors. Splendid for borders or the hardy garden. Pkt. 5c.

FINE MIXED.—Good variety. Pkt. 5c; ¼ oz. 25c; oz. 75c.

GAILARDIA

The Blanket Flower. Exceedingly beautiful annuals, making very showy plants, 1 to 2 feet high. Grown in mass are especially effective.

PERFECTION.—Improved sort, producing a very double flower, round as a perfect ball, in most varied and pleasing colors. Flowers are borne on long, slender stems and when cut keep for over a week. Pkt. 5c; ¼ oz. 15c; oz. 40c.

GRANDIFLORA.—A splendid new perennial variety, with very large flowers, dark crimson centers, marked with rings of many brilliant colors; makes a nice showing in the yard. Pkt. 10c; ¼ oz. 20c; oz. 50c.



GAILLARDIA GRANDIFLORA

GLOXINIA

Charming greenhouse plants, of dwarf habit. It flowers in greatest profusion, and the most exquisite and gorgeous colors; many are magnificently mottled, spotted and blended. Bloom continuously for months. Seed should be started under glass. Choice mixed. Pkt. 15c. See page 78 for Gloxinia bulbs.

GYPSOPHILA

Delicately pretty little flowers, sometimes called "Baby's Breath" or "Angel's Breath." Graceful and easily grown in open ground.

ELEGANS.—Mixed colors. Pkt. 5c.

PANICULATA.—White. Pkt. 5c.

HIBISCUS

Of easiest culture, with large, exceedingly showy blossoms. Hardy annual, 2 feet high.

CRIMSON EYE.—A robust grower; dark red stems and foliage. Flowers often measure 20 inches in circumference, pure white, with large spot of deep velvety crimson in center. It blooms first year from seed and succeeds anywhere. Pkt. 5c.

GOLDEN BOWL.—Enormous flowers 5 to 6 inches across, canary color, with large, black center. Pkt. 5c.

MEHAN'S MALLOW MARVEL.—A magnificent new strain of hardy hibiscus producing wonderful flowers 8 to 10 in. in diameter. Colored from pure white to fiery red. Splendid for permanent planting. Easily grown from seed. Pkt. 10c; ¼ oz. 40c; oz. \$1.



NEW
MAMMOTH
FLOWERING
HELIOTROPE

HELIOTROPE

A great favorite with all lovers of flowers for their beauty and fragrance; are well suited for beds or borders, where they will bloom in summer, and may then be carefully potted and cut back for winter blooming.

CALIFORNIA MAMMOTH.—A grand new variety producing immense flowers. Pkt. 10c.

MIXED VARIETIES.—Common sorts. Pkt. 5c.

LOBELIA

ERINUS.—A handsome trailing annual with blue flowers. Excellent for vases and hanging baskets. Pkt. 5c.

COMPACTA.—A dwarf variety. Flowers darker hue than above and cover plant; fine for carpet bedding or border. Pkt. 10c.

LARKSPUR

Flowers are borne in compact spikes and are showy and desirable for any situation. Sow early in open ground.

AMERICAN BANNER.—Only flower we know which combines the national colors in each flower. About 2 feet high; is fairly loaded with long spikes of double striped and blotched flowers. Pkt. 10c; ¼ oz. 25c; oz. 75c.

DWARF GERMAN ROCKET.—Mixed colors. Pkt. 5c; ¼ oz. 15c; oz. 40c.

TALL GERMAN ROCKET.—Mixed. Pkt. 5c; ¼ oz. 15c; oz. 40c.

PERENNIAL LARKSPUR

GOLD MEDAL HYBRIDS.—A splendid strain. Immense spikes 2 to 3 feet, with large flowers mostly of light blue shades. Pkt. 15c.

ELATUM HYBRIDIUM.—The perennial larkspurs are most showy and useful in permanent plantings, as they produce splendid spikes of flowers all summer. Perfectly hardy, blooms first year if sown early. Mixed colors. Pkt. 10c.

LANTANA

BRAZILIAN BEAUTY.—Specially fine strain consisting of a mixture of choicest flowered sorts. Pkt. 10c.

MIXED COLORS.—Greenhouse perennial. Makes fine bedding or pot plant; easily grown from seed. Pkt. 5c.

MIGNONETTE

SWEET SCENTED.—The fragrance of the Mignonette makes it indispensable for bouquets and cutting. Sow seed early and they will commence blooming the first of June. Pkt. 5c; oz. 15c.

GOLIATH.—Foliage rich green, flowers brighter red color than any other sort. Immense spikes. Splendid variety of sweet fragrance. Pkt. 10c; ¼ oz. 25c; oz. 75c.

ALLEYS DEFIANCE.—Valuable variety with mammoth spikes 12 to 15 inches long, more fragrant than any other. Florets of immense size and the cut flower often keeps three weeks. Pkt. 10c; ¼ oz. 20c; oz. 60c.

MACHET.—Makes a pretty and fragrant pot plant. Distinct variety of great merit. Vigorous dwarf growth with very large spikes of deliciously scented red flowers. Pkt. 5c; ¼ oz. 15c; oz. 50c.

MARIGOLD

A general favorite for planting in mixed beds and informal gardens, as they produce such great numbers of brilliant colored flowers that they are always a bright spot wherever planted.

AFRICAN.—This old favorite has been greatly improved in size and doubleness of its flowers. Double mixed. Pkt. 5c; ¼ oz. 10c; oz. 30c.

DWARF FRENCH.—Double, mixed colors. Pkt. 5c; ¼ oz. 10c; oz. 30c.

LEMON QUEEN.—A charming new variety producing large bell-shaped flowers of clear lemon or canary yellow color, making them closely resemble large double yellow dahlias, only produced more abundantly on longer stems. It blooms early and continuously. Pkt. 5c.

ELDORADO.—Immense flowers, 9 to 14 inches around; double; primrose, lemon, orange and golden shades. Three feet high. Pkt. 5c.

MIMULUS

TIGRINUS.—(Monkey Flower.)—There are a wide range of colors in Mimulus Tigrinus. They are spotted scarlet, crimson and pink on yellow or white grounds and offer striking contrasts that are sure to please. Very showy and free flowering. The hardy kinds well suited for outdoors in any common soil. Mixed sorts. Pkt. 10c.

MOSCHATUS.—Well known musk plant; quite pretty, and has a strong musk fragrance. If better known this we are sure would be more grown as the odor is pleasant and it is nice for pot culture. Pkt. 5c.

NICOTIANA

AFFINIS.—Plant is covered with large, white, star-shaped flowers which, after being cut, remain perfect a week. A few plants perfume the whole garden. Pkt. 5c.

SANDERAE HYBRIDS.—Beautiful rosy carmine color and blooms freely. These new hybrids have also various shades of purple, pink, red, salmon, violet and white. Grows about 2 feet high, branches freely and loaded with flowers open all day. Sow seeds early in the house and transplant in May to open ground. Mixed colors. Pkt. 10c.

NIGELLA (Love in the Mist)

MIXED COLORS.—Hardy annuals about 1 ft. high; fine cut leaves and handsome flowers. Blooms early. A very pretty flower. Double flowers, blue, white and purple, beautifully veiled with feathery, delicate foliage. Pkt. 5c; ¼ oz. 10c; oz. 25c.

MISS JEKYLL.—A large and profusely blooming variety with bright sky-blue flowers and fine fern-like foliage. Taller than most kinds. Pkt. 10c; ¼ oz. 20c; oz. 60c.

OENOTHERA (Evening Primrose)

Blossoms fully expand only toward and during evening. Three to four inches across. A hardy annual. Mixed white and yellow. Pkt. 5c.

HOME FLORICULTURE

A book for amateur flower growers
FREE TO CUSTOMERS

Tells how to care for field and house plants. A paper bound copy given free if you order \$2 worth of goods and ask for book. Price 25c.

LYCHNIS

HAAGEANA MIXED.—Colors range from white through shades of orange, pink and red to deep crimson. Grows 12 to 18 inches. Large heads of showy flowers. Pkt. 10c.

CHALCEDONICA.—Old favorite scarlet sort growing 3 feet high. Pkt. 5c.



AMERICAN BANNER LARKSPUR.

LINUM

GRANDIFLORUM RUBRUM.—(Scarlet Flax.)—A most showy annual for flower beds and masses; brilliant crimson scarlet flowers, 1 inch across, in great profusion. Pkt. 5c; ¼ oz. 15c; oz. 50c.

PERENNIAL.—A beautiful hardy perennial sending up numerous stems, clothed with a small, almost hair-like foliage. At tips of the branches are poised large blossoms of blue, white and yellow flowers. Pkt. 5c; ¼ oz. 15c; oz. 50c.



MIMULUS TIGRINUS

MYOSOTIS, OR FORGET-ME-NOT

The dainty little blue Forget-Me-Not is always appreciated, as it always involuntarily forces to our mind kindly remembrance. Just to see their modest loveliness makes the day brighter and turns our thoughts to pleasant channels.

PALUSTRIS.—True Forget-Me-Not. A perennial. Blooms first year from seed. Pretty plants with neat little star-shaped blue flowers. Pkt. 5c.

VICTORIA.—The best variety for pot culture. Of dwarf, globular habit; beautiful sky-blue flowers with center double. Pkt. 5c.



ELDORADO MARIGOLD

A general favorite for planting in mixed beds and informal gardens, as they produce such great numbers of brilliant colored flowers that they are always a bright spot wherever planted.

AFRICAN.—This old favorite has been greatly improved in size and doubleness of its flowers. Double mixed. Pkt. 5c; ¼ oz. 10c; oz. 30c.

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NIGELLA (Love in the Mist)

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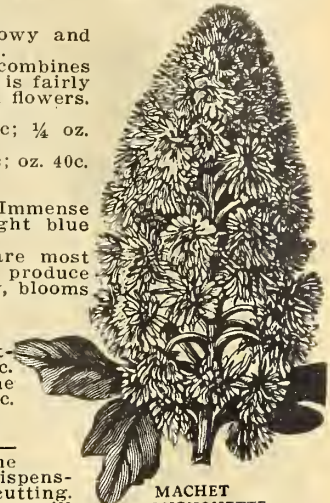
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Blossoms fully expand only toward and during evening. Three to four inches across. A hardy annual. Mixed white and yellow. Pkt. 5c.

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Tells how to care for field and house plants. A paper bound copy given free if you order \$2 worth of goods and ask for book. Price 25c.



MACHET MIGNONETTE



MISS JEKYLL NIGELLA

NASTURTIUMS

These may well be classed among our most showy and handsome annuals. They are of very easy culture, and make a continuous show of bloom. The following are the best varieties:

AURORA.—A magnificent variety. Plant forms a perfect globe literally covered with flowers, hiding the foliage when in full bloom. Deep chrome yellow, lower petals blotched with purplish carmine; finely marked with bright carmine veining. Pkt. 5c, oz. 20c.

BEAUTY.—An extra fine dwarf variety. Handsome scarlet flow-

ers splashed with canary yellow. One of the most attractive. Pkt. 5c, oz. 15c.

CHAMELEON.—The flowers of this new Tom Thumb nasturtium are colored crimson, gold and bronze, bordered and flamed, changing hue almost daily, hence named "Chameleon." Pkt. 5c, oz. 25c.

EMPRESS OF INDIA.—Dwarf, bushy habit, the leaves a dark, purplish blue color, making a suitable background for the brilliant crimson-scarlet flowers. Its profusion of bloom and richness of color are remarkable. Pkt. 5c, oz. 25c.

GOLDEN QUEEN.—Foliage of clear, bright yellow color. It is of dwarf, compact habit; flowers yellow. Pkt. 5c, oz. 20c.

KING THEODORE.—Darkest color in nasturtiums, deep scarlet maroon. Pkt. 5c, oz. 20c.

LADYBIRD.—Dwarf, neat, compact habit of growth. Flowers rich golden yellow, each petal barred with bright ruby crimson. A most lovely blossom. Pkt. 5c, oz. 20c.

PEARL.—Charming dwarf white sort. Pkt. 5c, oz. 10c.

PRINCE HENRY.—A beautiful flower of light yellow, marbled and striped with bright scarlet. Pkt. 5c, oz. 25c.

IMPERIAL MIXED.—Includes about twenty of the best dwarf varieties, both American and foreign. They are so selected that the colors harmonize beautifully and delight flower lovers. Of neat, compact habit of growth, and bloom freely when planted in beds, producing a mass of colors. Pkt. 5c, oz. 25c, ¼ lb. 70c.

DWARF LILIPUT.—Distinct new strain of very dwarf, compact growth that originated from the tall *Trapaeolum Loblanum*. Of smaller size than the well-known Tom Thumb nasturtium, closely compact in form, while the flowers and rounded, light green leaves are smaller in size. Flowers show many new and beautiful colors. Pkt. 5c, oz. 25c.

DWARF VARIEGATED LEAVED.—A splendid new type of dwarf nasturtium offered as presenting the most varied and divergent coloring. Not only are the flowers of the many shades and brilliant hues of the ordinary sorts but the foliage by the mottled and striped markings of green, white and golden yellow, afford an additional range of beauty. Pkt. 10c, oz. 30c.

IVY LEAVED DWARF MIXED.—Charming new type of nasturtium differing in foliage from the ordinary kinds, but retaining the same gorgeous coloring and profusion of bloom. Pkt. 10c, oz. 40c.

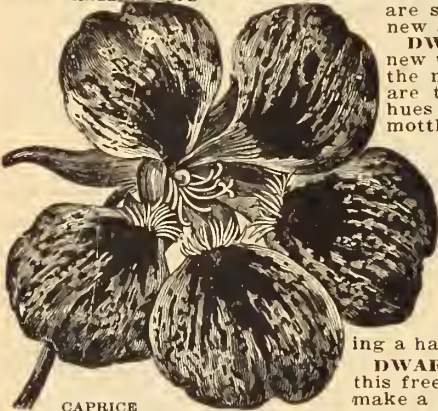
GOLDEN BLOTCHED.—Unique and beautiful foliage being blotched with bright golden yellow in such manner as to present a pleasing and attractive appearance. Pkt. 5c, oz. 20c.

GOLDEN MIXED.—A mixture of many shades and markings of the yellow leaved varieties, offering a harmonious blending of bright colors. Pkt. 5c, oz. 20c.

DWARF VARIETIES MIXED.—A nice mixture of colors of this free blooming class. We grow large quantities and can make a low price. Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. 85c.



KALEIDOSCOPE



CAPRICE



IMPERIAL MIXED

SPECIAL NASTURTIUM OFFER

16 DWARF KINDS

One pkt. of each of dwarf sorts named in above list for 60 cents, postpaid.

10 CLIMBING KINDS

One pkt. of each of climbing sorts named in list below for 40 cents, postpaid.

CLIMBING NASTURTIUMS

MADAM GUNTER'S HYBRIDS.—Climbers and free, continuous bloomers. Color of flowers is most gorgeous, ranging from white through all the shades of pink, red, carmine, crimson, salmon, golden yellow to deepest brown and maroon—nearly black—all striped, shaded and blotched in an indescribable manner. Pkt. 5c, oz. 20c, ¼ lb. 45c.

JUPITER OR SUNLIGHT.—Attracts instant attention. The flowers measure 3¼ to 3½ inches in diameter, the petals 1¼ inches across. Blossoms have a most beautiful crinkled, crepe-like look; color is a splendid, rich, brilliant yellow. Pkt. 5c, oz. 25c.

NAPOLEON III.—Beautiful climbing variety with golden yellow flowers striped with rosy scarlet. Pkt. 5c, oz. 25c.

TALL VARIEGATED LEAVED.—Each leaf variegated in a striking manner and this variegated foliage in contrast with the many different shades and markings of the flowers produces bewildering beauty of mingled colors that will delight the eye. Mixed colors. Pkt. 5c, oz. 25c.

TALL VARIETIES MIXED.—A good mixture of colors and types of the climbing class. Our prices are very low this year as the crop is very short everywhere. Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. 85c.

KALEIDOSCOPE.—Some are of clear yellow, orange, pink and creamy white, others are blotched, striped or bordered with rich contrasting shades. Of strong, vigorous growth; can be grown on the ground or trained upon a trellis. Specially suited for growing over low stumps, fences or rockery. Produces immense number of flowers. Pkt. 10c, oz. 30c.

CAPRICE.—A charming novelty; flowers changeable colors, a single plant often showing a dozen different colors or markings. Pkt. 10c, oz. 35c.

KING OF THE BLACKS.—A very handsome climbing sort with flowers of very rich dark brown, almost black. Pkt. 5c, oz. 20c.

IVY LEAVED PERFECTION.—This unique and most beautiful climbing nasturtium is different from others in foliage and flowers. Plants of running growth, star-like leaves of rich green veined with white. Flowers are of medium size, intense glowing scarlet in color, and of most distinct form. Pkt. 5c, oz. 20c.

SPITFIRE.—A most brilliant new variety of bright cardinal red. Most glowing color. Pkt. 5c, oz. 20c.



MADAM GUNTER'S HYBRIDS

LOVELY PANSIES

Pansies are a specialty with us, and we use the greatest care in growing and importing the best strains. Circular giving full directions for growing pansies sent free if requested. Packets contain 100 to 250 seeds.

PRETIOSO.—(No. 3.)—A new strain of the world's best grower, imported only by us, and offered to our friends under special arrangement. It contains widest range of colors, the most diversified markings, and the most velvety substance of any mixed pansies now offered by the seed trade. They are great, large, fine blooms, of satiny finish and of brightest colors, which really shine with lustre. The plants have been bred up for robust habit and heavy growth. It requires strong plants to produce large blooms and lots of them. Nature alone brings forth the beauty of the flowers, and you must grow the Pretioso pansy to realize its matchless splendor. Pkt. 15c; ¼ oz. \$2.50; oz. \$8.00.

FANCY STRIPED.—(No. 1.)—A beautiful variety from Belgium, with good sized flowers striped and mottled in various tints on contrasting ground. Pkt. 15c.

IMPERIAL GERMAN MIXED.—(No. 2.)—Magnificent flowers of richest hues, one of most popular sorts, of greatest excellence. Pkt. 10c, ¼ oz. \$1, oz. \$3.50.

NEW RAINBOW.—(No. 4.)—We consider the name appropriate owing to its beautiful iridescent colors. In a good-sized bed are a hundred different varieties but not a poor one nor an inferior. Flowers of large size and perfect in form, nearly circular and have a rich, velvety appearance; will delight "pansy fanciers." Pkt. 20c; ¼ oz. \$4.00; oz. \$12.00

AMERICAN GIANT.—(No. 6.)—A prominent pansy specialist in years of careful, painstaking labor in hybridizing and selecting a strain of pansies which would be superior to any in existence, has produced this extraordinarily fine strain which is of such strong, robust, luxuriant growth and produces such magnificent immense flowers, almost a superior race of pansies. Comprise practically all shades, colors and markings known in pansies including the Giant Bugnots, Cassier's and the large-flowered sorts from France, Germany, England, Holland and other countries. Also a strain of curled and ruffled pansies which appear double. Pkt. 15c, ¼ oz. \$2.50, oz. \$8.00.

FINE MIXED.—Consists of many good sorts. Pkt. 5c, ¼ oz. 35c, oz. \$1.00.

ATTRACTIVE OFFER

An opportunity to procure the choicest types of pansies separately, or if you mix them yourself you are assured of the very widest range.

One packet each of the 8 illustrated mixtures, the finest assortment ever offered, 90c.



MAMMOTH BUTTERFLY.—(No. 5.)—A pansy of matchless forms, colors and markings with flowers half as large again as ordinary pansies. Pkt. 10c.

MASTERPIECE.—(No. 7.)—(Also offered under the names Superbissima and Germania.)—This superb new pansy is distinct from all others in form of flowers, the border of every petal being conspicuously undulated and curled, giving flowers appearance of a double pansy. Flowers are very large. Pkt. 10c.

INTERNATIONAL MIXTURE.—(No. 8.)—This is a mixture consisting of a grand assortment from the world's leading specialists in Scotland, France, Belgium, Germany, Switzerland and America. If you like pansies you must have the International Mixture Pkt. 15c, ¼ oz. \$3.00, oz. \$10.

CASSIER'S GIANT ODIER.—Flowers of immense size, and are of the popular Odier type, being all three-spotted or five-spotted on backgrounds of very rich colors. The flowers are of good substance and fine form, of most compact growth. Pkt. 15c.

GIANT TRIMARDEAU.—Flowers of very large size, some have measured 4 inches in diameter. Each flower marked with three large blotches or spots and stands well above foliage. Choice mixed colors. Pkt. 10c.

NAMED VARIETIES OF GIANT PANSIES

The varieties listed below are all of the giant flowered type; will produce fine blooms. They are splendid for pattern beds and borders or for massing.

AZURE BLUE.—A very fine shade of sky-blue. Pkt. 5c.

FIRE KING.—Distinct and striking. Upper petals bright red, of really a fiery shade, warranting the name. Pkt. 10c.

GOLDEN YELLOW.—Best of yellow varieties. Fine as a contrast. Pkt. 5c.

KING OF BLACKS, or Faust.—Flowers very dark, almost black. Pkt. 5c.

LORD BEACONSFIELD.—Fine large flowers of deep purple violet, shading off in the petals to a white hue. Pkt. 5c.

MAHOGANY.—A beautiful, rich, mottled mahogany color. Pkt. 5c.

PEACOCK.—Named Peacock because upper petals of flower resemble in color the peculiar shade seen only in feathers of the peacock, a beautiful ultra-marine blue. Petals edged with a thin white line, within which is purplish crimson passing into a rich central blotch of blue, shading to black. Pkt. 10c.

QUADRICOLOR, or Pheasant's Eye.—Upper petals sky blue edged with violet; lower petals spotted and marbled. Pkt. 15c.

SNOW QUEEN.—Flowers of a delicate, pure satiny white, handsome and attractive. It shows finely in beds or for cut flower work, and is beautiful for cemetery use. Pkt. 10c.

SPLENDID PETUNIAS

No garden is complete without a bed of elegant petunias. They commence flowering early and continue a mass of bloom throughout the whole season, until killed by frost; are easily cultivated, requiring rich soil and a sunny situation. Of late the single striped, mottled and double varieties have been greatly improved, and the cut gives but a faint idea of their great variety and beauty. Double varieties require care and should be started in the house.

EMPEROR.—The largest petunias in the list. Monstrous flowers fully five inches in diameter of the bell, and of unsurpassed colors and markings. Very fine for massing or sowing in wild borders. Pkt. 15c.

GIANT FANCY FLOWERED.—A grand new strain and the finest selection of petunia in existence, of incomparable beauty, size and luxuriance. Most of the flowers are exquisitely ruffled or fringed on edges, and of enormous dimensions (4 to 5 in. across), unlimited varieties of colors, markings, veinings, blotchings and stripings, in the most grotesque and beautiful combinations; with deep throats of carmine yellow, white, black, green or maroon, running off into intricate veins. Some colors are rich and gorgeous, others are of lovely delicate shades. If you like beautiful petunias be sure to include this in your order. Produces very little seed and will always be high in price. Worth double its weight in gold. Pkt. 25c.

DOUBLE INIMITABLE.—Splendid mixture. Our seed is the best German grown, and will produce about 25 per cent of fine double flowering plants. Pkt. 25c.

LITTLE PET.—(Howard's Star)—One of the prettiest little flowers we saw in the thousands of acres of flowers in Germany, France and other countries of Europe were these small flowered, compact growing, free blooming petunias. Round, bushy little plants about 3 in. high, covered for months with beautiful flowers which are widely open and always look fresh, bright and beautiful that the ladies "just love them." Most of the flowers have a distinct five-pointed star in the center and they are of a great variety of colors. Pkt. 10c.

GRANDIFLORA MIXED.—Very large, elegant flowers; a great improvement and fully twice the size of the old sorts, with most beautiful shades of crimson, white, rose, maroon, etc., blotched, striped, veined, marked and fringed. Per pkt. of 200 seeds 15c.

FINE MIXED.—Best of older varieties. Extra fine striped and blotched sorts. Pkt. 5c; ¼ oz. 15c; oz. 50c.



FANCY FLOWERED PETUNIA

PALMS

These for centuries past have been exclusively for the rich, the plants usually selling at \$3.00 to \$100.00 each. It is now known, however, that they are easy to grow from seed. Directions printed on packets.

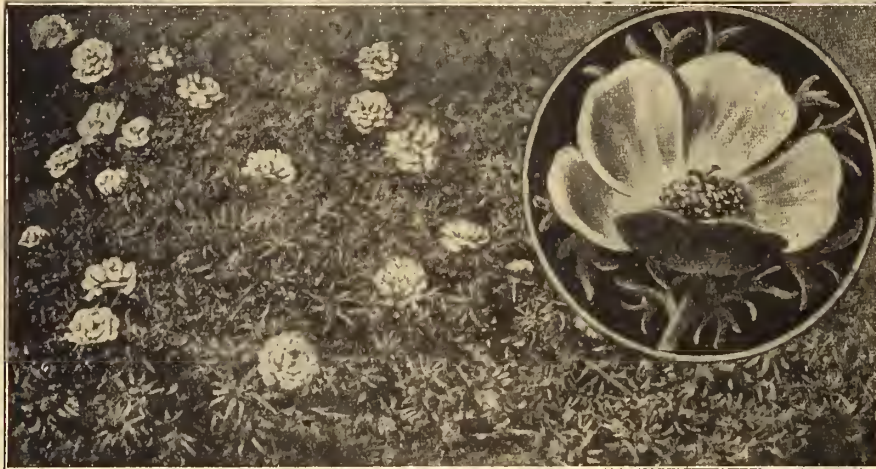
PHOENIX DACTYLIFERA.—Native of northern Africa; beautiful for pot culture, and very hardy. This palm produces the date of commerce. Pkt. of 10 seeds 5c.

WASHINGTONIA, FILIFERA.—It stands dust, dry air, and lack of sunshine. Its fan-shaped leaves fringed with long thread-like filaments. Pkt. of 12 seeds 5c.

UMBRELLA PALM.—(Cyperus)—See description with aquatic plants. Pkt. of 100 seeds 10c.

LATANIA BORBONICA.—This is the typical palm, is more largely used than any other; of strong and healthy habits; very desirable for house culture. Pkt. 6 seeds 10c.

CHAMAEROPS EXCELSA.—One of the very best plants for house culture in cool climates, and standing ill usage remarkably well. Pkt. of 10 seeds 10c.



PLANT OF DOUBLE PORTULACCA

FLOWER OF SINGLE PORTULACCA

BRILLIANT PORTULACA

DOUBLE MIXED.—This old favorite is one of the brightest blossoms in the entire list and makes a lovely little plant to cover up the bare spots in beds of taller growing plants. The flowers are double as a rose, brilliant with many shades of color, white, yellow, crimson, scarlet, pink and all blooming at mid-day and of afternoons. The dainty blossoms are splendid to add the little touch of color among the fruits on the dinner table. Pkt. 10c; ¼ oz. 50c.

GRANDIFLORA SINGLE MIXED.—An old favorite sometimes known as rose moss. It forms a brilliant, striking bed of color on bright sunny days, and blooms brightest in the mid-day hours when other flowers are drooping. Very dwarf, low-growing plants, forming a mat on the ground. We offer a splendid mixture. Pkt. 5c; ¼ oz. 15c; oz. 50c.



PENTSTEMON

PENTSTEMON

FINEST MIXED.—Hardy perennial; sown early will bloom first year. Graceful growth; many spikes of Gloxinia-like flowers 2 ins. across; crimson, white, rose, purple, etc., beautifully edged and marked; blooms June to October. Give rich soil and good culture. Pkt. 10c.

PYRETHRUM

GOLDEN FEATHER.—Beautiful golden-leaved foliage plants of special value for borders and ribbon beds. Pkt. 5c.

ROSEUM HYBRIDUM.—Large flowering perennial, flowers resembling cosmos and varying in colors from light pink to deep red with large yellow center in each. Splendid for long-keeping cut flowers. Pkt. 10c.

SPECIAL GRAND OFFER

One packet of each of the five elegant varieties of Palms mentioned above for only 30c.



LATANIA BORBONICA PALM

IT IS DESIRABLE TO PURCHASE DOUBLE PETUNIA PLANTS IF YOU WANT THEM ALWAYS TRUE TO NAME AND COLOR.



PHLOX DRUMMONDI

If we could have but one flower for our garden that one would be the Phlox. Its brilliant shades of color, ranging from clear white to brilliant scarlet, make an almost dazzling show; continually in bloom.

All varieties which we offer, except the common mixed, are of the large-flowering grandiflora class.

FIREBALL.—(See Cut No. 1)—Splendid for a showy bed. Color is brilliant, dazzling scarlet, making a beautiful show. Growth is dwarf and compact so that it is fine for bed effect when sown thickly. Pkt. 5c; ¼ oz. 35c; oz. \$1.25.

GRANDIFLORA ALBA.—(See Cut No. 4)—Fit companion for Fireball. Flowers are very large, pure white in color and constantly in bloom. A few plants of white always show up well in beds of mixed colors or among darker shades. Pkt. 5c; ¼ oz. 30c; oz. \$1.00.

GOLDEN JUBILEE.—(See Cut No. 8)—Entirely new color in Phlox, bright golden yellow; flowers are nearly the size of a \$20 gold coin. Pkt. 5c.

CUSPIDATA OR STAR.—(See Cut No. 5)—Petals run out in little spines, giving the flowers a beautiful effect. Our seed contains a mixture of many colors. Pkt. 5c.

PRIMROSE

CHINESE.—Desirable plants for growing indoors, being in almost constant bloom all winter, and if transferred to the garden will bloom nearly all summer. Though perennial, new plants will flower more freely, and seed should be sown every year. Start under glass. Mixed colors. Pkt. 15c.

FORBESL.—(Baby Primrose.)—A wonderfully free blooming little plant, covered with a mass of small flowers, especially during winter. Pkt. 10c.

OBCONICA.—(Everblooming Primrose.)—A favorite on account of its great blooming qualities, flowering nearly all the year through. Mixed colors. Pkt. 10c.

FRINGED MIXED.—(Type shown in Cut No. 7)—Very attractive. The flowers are of the most velvety colors and handsomely fringed. Pkt. 5c.

MIXED VARIETIES.—Mixtures of common sorts. Covers a wide range of color and will make a splendid show. One of the most satisfactory items in the catalogue. Pkt. 5c; ¼ oz. 20c; oz. 60c.

PERENNIAL MIXED.—Splendid hardy plants which bloom continuously after the second year. Pkt. 5c.

GRANDIFLORA MIXED.—Large-flowering strains chosen with great care for many years; ideal flower of immense size and beauty unsurpassed. Colors from white to nearly black, including pink, red, violet, crimson, purple, yellow, blue, scarlet and brown, striped and blended in an indescribable manner. Pkt. 5c; ¼ oz. 30c; oz. \$1.00.

POPPIES

This grand old flower has kept pace with the march of improvement and now surprises us with its new forms, new sizes and new colors.

ROSY MORN.—Is really superb. Flowers are extremely double and of good size, forming perfect balls of unique and beautiful shade of rose—a new and distinct color in poppies; of easiest possible culture, belonging to the annual paeony flowered section. Pkt. 10c.

SHIRLEY.—(Lady Poppies)—A new single. In color from the purest white through the most delicate shades of rose, pink and carmine to the deepest crimson. Pkt. 5c; ¼ oz. 10c; oz. 30c.

AMERICAN FLAG.—Flowers extra large, very double, snow white, bordered with scarlet, thus making an extra choice, very showy variety, that should be popular. Pkt. 5c.

DOUBLE CARNATION.—Splendid assortment of best double carnation flowered sorts. The most popular variety and will make attractive bed. Pkt. 5c; ¼ oz. 10c; oz. 20c.

SANTA ROSA MIXED.—Improved from Shirley poppy; unusually large flowers of remarkably clear colors, including new striped salmon and blush shades. Petals beautifully crumpled. Pkt. 5c; ¼ oz. 15c; oz. 50c.

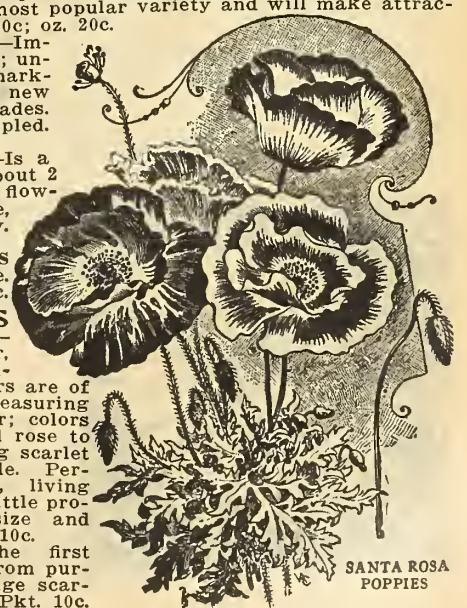
PAEONY FLOWERED.—Is a robust variety growing about 2 ft. high; bears very large flowers, round, smooth, double, and of exceeding brilliancy. Mixed colors. Pkt. 5c.

ANNUAL VARIETIES MIXED.—Single and double. Pkt. 5c; ¼ oz. 10c; oz. 20c.

PERENNIAL POPPIES ORIENTAL HYBRIDS.

For brilliancy of color, nothing equals these Oriental Poppies. The flowers are of enormous size, often measuring over 6 inches in diameter; colors range from soft flesh and rose to the most brilliant dazzling scarlet and richest maroon purple. Perfectly hardy perennials, living through winter with but little protection, increasing in size and beauty every year. Pkt. 10c.

ICELAND.—Flowers the first year from seed. Colors from purest white to deepest orange scarlet; delicious fragrance. Pkt. 10c.



SANTA ROSA POPPIES



ROSY MORN POPPIES

RAINBOW CORN

(Striped Japanese Maize.)—Offered as a novelty by some seedsmen. An ornamental foliage plant of rapid growth, giving immediate effect, and attractive in any garden. Grows 5 to 6 feet high and has alternate foliage, the leaves being very long and 2 to 3 inches wide. Variegation does not begin to show until the fourth or fifth leaf, when leaves become striped with broad bands of white, changing soon to narrow stripes of alternate clear white and brightest green, occasionally showing faint tinges of pink or rose color at the edges. The leaves are waxy and gracefully recurved. Desirable for groups or ribbon beds, or back border to a lawn. Illustration which is shown herewith does not do it justice. Pkt. 5c, oz. 15c.



STRIPED
JAPANESE MAIZE

FAIRY ROSES

These remarkably beautiful little roses are very easily grown from seed. The roses are only about an inch across, usually semi-double, and seldom single; they are borne in large clusters and are of many colors. What is most remarkable, these Fairy Roses grow only 10 to 15 in. high, commence blooming a few weeks after seed is sown and continue from May until frost. Nice for pot plants for winter blooming. Pkt. 10c.



RICINUS CAMBODGIENSIS
RICINUS

Castor oil plant. Stately foliage plants. Make a very handsome appearance on the lawn singly; fine for clumps or ornamental hedges. Said to keep out moles.

CAMBODGIENSIS.—A beautiful plant growing to a height of 8 feet, of most stately, majestic, tropical appearance. Has large palm-like leaves of darkest reddish maroon, covered with a bright bronzy luster, while the main stalk and leaf stems are ebony black. Leaves have large red veins which add to the beauty. Seed pods fiery red. Unexcelled as a decorative plant for lawn. Pkt. 5c; oz. 20c.

ZANZIBARENSIS.—Grows to a height of 12 to 14 feet, with leaves 2 to nearly 4 feet across. A handsome specimen plant for lawns. The different varieties included in our mixture have light and dark green leaves and some coppery bronze, changing to dark green, with reddish ribs. Pkt. 5c; oz. 15c.

SANGUINEUS TRICOLOR.—Blood red stalk; very attractive, especially stately in appearance, giving tropical effect in clumps or screens. Pkt. 5c; oz. 15c.

MIXED VARIETIES.—Mixtures of the above and many other choice sorts. Pkt. 5c, oz. 10c.

COMMON.—The ordinary Castor Bean of commerce. Pkt. 5c; oz. 10c; lb. 50c.

SALPIGLOSSIS

Strong, bushy plants about 18 inches high, bearing throughout the season large flowers 3 to 4 inches across, of many beautiful colors. Sometimes called Painted Tube Tongue.

NEW VARIEVEINED.—The surface is soft and velvety and wealth of color marvelous. The colors range from pure white to dark yellow, dark red and purplish black, including light and dark blue, velvety plum color, maroon, crimson, dark brown, golden and lemon yellow, white, dark purple, black, brilliant scarlet, with all the shades between beautifully veined and mottled. Blooms all summer and till frost. Pkt. 10c.

SALVIA

SPLENDENS.—One of the most brilliant of flowers; it thrives in any light, rich soil; often called flowering sage. Free bloomers. Brilliant scarlet. Is very fine. One of the most satisfactory bedding plants. Pkt. 5c; ¼ oz. 50c.

MRS. C. N. PAGE.—Dwarf, free blooming sort. Much earlier than Splendens and brighter color. Nothing makes such a brilliant show as a bed of Salvia; is especially fine for bordering canna beds. Introduced by us. Pkt. 15c; ¼ oz. \$1.00.

SCABIOSA

LARGE FLOWERED MIXED.—One of our handsomest border plants, producing in great profusion very double flowers in a variety of shades and colors; splendid for table bouquets, etc.; rapidly becoming popular because of its striking beauty in form and color. Pkt. 5c; ¼ oz. 15c; oz. 40c.

SENSITIVE PLANT

Very pretty and curious plant, its leaves closing when touched. Seeds start slow and it is best to start them in boxes; cover shallow and see they do not dry out; it makes a good house plant for the winter and pleases the children. Pkt. 5c.



SCABIOSA

MRS. C. N. PAGE SALVIA

SHASTA DAISY

ALASKA.—Can be grown out of doors where it is not cold enough to kill oak trees. Perennial, blooming better and more abundantly each season. The flowers are extremely large and graceful, averaging about 4 inches in diameter, with three or more rows of petals of the purest glistening whiteness, and borne on single, stiff, wiry stems nearly two feet long. Pkt. 10c.

STOCKS

Sometimes called Gilliflowers. Easily grown, and they deserve a place in every garden. Give good, rich soil. They reward good treatment with remarkable pyramids of bloom.

PERPETUAL WHITE.—(Princess Alice or Cut and Come Again.)—Strong growth, of fine branching habit, and if sown early will bloom from May to November. Flowers large, pure white. Pkt. 10c.

PERPETUAL MIXED.—A mixture of colors of the continuous blooming types of perpetual stocks. Sown in March or April they begin flowering in July and continue until frost. Pkt. 10c.

LARGE FLOWERING DWARF GERMAN.—Very popular. Our mixture contains a great variety of colors. Pkt. 5c; ¼ oz. 35c; oz. \$1.00.



SHASTA DAISY



PERPETUAL WHITE STOCKS

SUNFLOWER

Some varieties of this well known plant are very ornamental, and effective in shrubby borders or as screens.

GLOBE OF GOLD.—Dwarf, well branched plant growing about 3 feet high, each of its numerous branches carrying a medium sized, densely double, globe-shaped flower of rich, deep, golden yellow color, being veritable globes of gold. The most densely double of any sunflower. Easily grown. Handsome, symmetrical, effective on lawns or garden. Pkt. 5c; oz. 15c.

PILLAR OF GOLD.—A novelty which originated on our own farms. It is a beautiful new double sunflower, growing about 4 feet high. Flowers borne on very short branching stems and are held closely to the main stalk, in such profusion that when in full bloom very little of the foliage is noticeable and at a short distance it seems a pillar of bright golden yellow. It is, in our opinion, the best decorative sunflower yet produced, and if planted in masses or rows will draw attention by the flaming glow of color. Pkt. 10c; oz. 25c.

EXCELSIOR BRANCHING.—This new plant, known as *H. Cucumerifolius Grandiflorus*, has a single flower about 5 inches across producing a pyramid of bloom. Pkt. 5c.

SILVER LEAVED.—Few would imagine it a sunflower. Grows 3 or 4 feet high, forming a perfect pyramid. Leaves are long and densely covered with long white hairs which give it a peculiar shining, silvery appearance. Flowers golden yellow, 3 to 4 in. across, small, dark brown centers. Pkt. 5c.

BABY.—(*Helianthus Perkeo*).—Is less than two feet high, loaded at all times with lovely Cosmos-like blossoms, of perfect shape and wide spreading petals. Rich, deep yellow with black center. Pkt. 5c.

PEERLESS MIXED.—A splendid assortment of fifteen of the best varieties grown together on our grounds. Includes some both curious and desirable. Pkt. 5c; oz. 15c.

MAMMOTH RUSSIAN.—Largest of all, showy and most profitable to grow for feeding purposes. Oz. pkt. 5c; lb. 25c.

WHITE BEAUTY.—A sunflower growing as large as the Mammoth Russian; seeds clear paper white. Very productive of seed. Also listed in farm seed department. Pkt. 5c; oz. 10c.



SWEET WILLIAM

SINGLE MIXED.—Hardy plants one foot high, of extreme richness and variety of color, and deliciously sweet-scented; for clumps or borders unsurpassed. Our mixture is the large flowered and contains beautiful colors and markings. Pkt. 5c; ¼ oz. 10c; oz. 25c.

DOUBLE MIXED.—Grows same as preceding, but the florets are densely double and full centered. While beautiful, are not as popular as single-flowered. Pkt. 5c; ¼ oz. 20c; oz. 60c.

VIOLA

ODORATA.—The sweet violet so generally popular. All colors mixed; seeds start slowly. Pkt. 10c.

ZINNIA

Strong growing, hardy and elegant plants, rivaling the dahlia in size and doubleness, while the colors are bright and varied and range from pure white to deep purplish crimson. Fine for hedges, beds or borders.

ROBUSTA GRANDIFLORA.—Given its name because of strong growth and large flowers. Grows 3 ft. high and produces flowers 5 in. across. In separate colors: white, yellow, orange, pink, scarlet crimson; or in mixed colors if preferred. Pkt. 10c; ¼ oz. 25c; oz. 60c.

One pkt. each six separate colors of *Grandiflora Zinnia* for 40c.

SPLENDOR.—This splendid strain of *Zinnia* is grown on our Altoona farms with special care. The finest colors and most splendid blooms and plants we have seen. Pkt. 10c; ¼ oz. 25c; oz. 60c.

NEW ZEBRA.—Beautifully and brilliantly striped with rich colors. There are always some plants which do not produce striped flowers. Very handsome. All colors mixed. Pkt. 5c.

FINEST DOUBLE MIXED.—Pkt. 5c; ¼ oz. 15c; oz. 50c.

CURLED AND CRESTED.—A most unique and charming sort with petals oddly curled and crested in fantastic contortions and graceful forms. Flowers are large, double, and peculiar shape of petal relieves the flower from stiffness. Many colors. Pkt. 5c.

PIGMY OR LILIPUT.—The acme of beauty and perfection in *Zinnias*. Plants are small and of bushy growth, each one bearing scores of beautiful little blossoms of most perfect shape and brilliant colors, from pure white to very dark orange purple, crimson and vermilion. They are indeed gems. Mixed colors. Pkt. 10c.



NEW CENTURY MAMMOTH VERBENA



PIGMY ZINNIA



PILLAR OF GOLD SUNFLOWER

VERBENA

Deservedly a universal favorite. A constant bloomer, and if grown from seed has a sweet fragrance. Plant in boxes, or under glass in March, and transplant when a few inches high. In this way they bloom early.

BANNER VERBENA COLLECTION
One packet each of four colors, White, Pink, Red, and Blue, of the Mammoth type, postpaid for 35c.

NEW CENTURY MAMMOTH.—The most beautiful colors, largest flowers and largest truss, and will please everyone. Well grown flower truss measures over 9 inches in circumference while single florets are as large as a twenty-five cent piece; more vigorous growing than the ordinary sort. Pkt. 10c; ¼ oz. 35c; oz. \$1.00.

CANDIDISSIMA.—Large trusses of pure white flowers; beautiful. Pkt. 5c; ¼ oz. 25c; oz. 60c.

BLUE MIXED.—Desirable. Blue, purple and lavender sorts. Pkt. 5c; ¼ oz. 25c; oz. 60c.

DEFIANCE.—A true scarlet, large and extra fine. Pkt. 10c; ¼ oz. 35c; oz. \$1.00.

CHOICE MIXED.—From the finest German collection of named sorts. Pkt. 5c; ¼ oz. 20c; oz. 60c.

ERINOIDES.—(*Moss Verbena*)—A beautiful variety which produces a mass of moss-like foliage. It is low growing, spreading over the ground. The blossoms are purplish blue and are borne well above the foliage. Free flowering from June until frost. Pkt. 10c.

LEMON.—(*Aloysia Citriodora*).—The popular plant much prized for its sweet-scented leaves which retain their fragrance when dried and are therefore doubly useful. Pkt. 10c.

WAHLENBERGIA

A perennial plant blooming the first year from seed, which should be sown early in the open ground. Flowers are of large size, 2½ to 3 inches in diameter, and of various shades of light blue, lavender and white. Pkt. 5c.

WALLFLOWER

Greatly prized for their exquisite fragrance. Grow in long, brilliant colored spikes of flowers. Plants removed to pots in autumn will produce abundance of delightfully fragrant flowers of many colors.

DOUBLE VARIETIES MIXED.—Pkt. 10c.
SINGLE MIXED.—Best single and semi-double sorts. Pkt. 5c.
EARLY FLOWERING MIXED.—Flowers early the first season. Per pkt. 5c.

GIANT FLOWERED SWEET PEAS

The sweet peas here offered are of the great-flowered or grandiflora class, and are grown for us by the best specialists in America. The stocks from which they are produced are not surpassed by anyone, and we know from the reported experience of our friends that the results from planting our sweet peas are most satisfactory. We ask only to be judged by results and solicit your orders with full confidence that you will be pleased. There is a reason. We have discarded all poor and inferior sorts and offer what we know to be the cream of the list, chosen from personal inspection of more than 200 varieties.

IMPERIAL MIXED.—Sixty of best sorts carefully selected so as to get the proper proportion of each color in assortment. Makes the choicest mixture ever offered. Illustration shows bunch of various colors and we are sure our customers will be pleased with them. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.25.

CALIFORNIA GIANTS.—Tourists from the east are always greatly surprised and delighted with the Sweet Peas which bloom so freely in California. One of the best growers who has been growing Sweet Peas for us during the past twelve years and who devotes about fifty acres annually to their culture, has, during the past few years, been selecting seed from the specially large flowers and we now offer it in a splendid mixture. No-matter what other flowers you grow, give these a trial. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

NEW DOUBLE SWEET PEAS.—By hybridizing and selection, the new double-flowered Sweet Peas have been produced and they are not only beautiful but the flower is quite lasting. About half of the plants from this seed produce flowers which are double and semi-double. Our mixture contains all the best varieties yet brought out, white, rose, crimson, maroon, lavender, striped, etc. Try them. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

PERFECTED MIXED.—Of graceful form and charming color, exquisite fragrance and simple loveliness. This mixture contains many choice new varieties and some old favorites. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.

FINE MIXED.—A nice mixture; very low price. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.



Twenty Choice Named Varieties

AMERICA.—(No. 9.)—Clear scarlet on a white ground. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

AURORA.—(No. 6.)—Extra large flowers, are flaked and striped bright salmon on white ground. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

BLACK KNIGHT.—Rich glossy blackish maroon. Immense bold, attractive flowers borne in greatest profusion. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c.

DOROTHY ECKFORD.—(No. 7.)—The largest flowered white variety. Great bloomer. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

DAINTY.—(No. 3.)—Light blue on white ground, edged with deep violet. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

EARLIEST OF ALL.—Very early; a bright pink with white wings. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

EXTRA EARLY BLANCHE FERRY.—Earliest of all. A beautiful light rose and white. Delicately handsome. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

GOLDEN ROSE.—Pink, suffused light yellow. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

KING EDWARD VII.—(No. 11.)—A true giant-flowered variety; brighter than other dark varieties, in fact, the best dark red in existence. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

LADY GRISEL HAMILTON.—(No. 8.)—Light lavender with azure blue wings. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

LOVELY.—(No. 2.)—The most beautiful shades of soft shell-pink, shading to faint rose at outer edges. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

MRS. WALTER WRIGHT.—Of pinkish cream, changing to reddish purple; large. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

LOTTIE ECKFORD.—(No. 10.)—Standard rose, the wings primrose shaded and splashed rose. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

MONT BLANC.—Large white flowers, free blooming and the earliest of all whites. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

MRS. KENYON.—A decided novelty in Sweet Peas, being a very pretty large-flowered sort, of a handsome primrose or yellow color. An attractive new color. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

NAVY BLUE.—(No. 1.)—A great novelty; the darkest and truest blue of any variety. Free bloomer. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

OTHELLO.—A beautiful dark brown chocolate red self-colored. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

PRINCE OF WALES.—(No. 5.)—A bright, self-colored, deep rose flower of grand size and beautifully hooded form; frequently four on a stem. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

PRIMA DONNA.—A soft shade bright rose-pink, with deeper coloring in center of standard and inner portion of wings. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c.

RAMONA.—(No. 4.)—Flower creamy white and striped and flaked bluish pink. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

ROYAL PURPLE.—Striking dark flower. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

ROYAL ROSE.—Beautiful clear rose. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

Circular how to grow Sweet Peas mailed free on request.

CUPID MIXED.—Dwarf growth. Flowers are pretty and freely produced. Mixed colors. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c.

BUSH VARIETIES MIXED.—Of distinct upright growth, forming a bush instead of climbing; many colors. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

PERENNIAL MIXED.—See page 76. Pkt. 10c, oz. 30c.

ORCHID FLOWERED SWEET PEAS

This is the latest and most lovely type of sweet peas, originating in England a few years ago with the original variety now called Courtess Spencer, and which have developed new colors and markings each succeeding season so that we now have quite a range of color in this type, though not quite so varied or brilliant as the grandiflora or giant-flowered type which we offer on the next page. The distinguishing characteristics of the Spencer type is the wavy, orchid-like appearance of the blossoms. They are stronger, more robust in growth, with extra large flowers of exquisite, delicate beauty. We offer only a few of the many varieties in existence, choosing those which have become fixed in form and color and which will reproduce without deviation. It will be noted, however, that with only a few varieties we offer you a beautiful display of varied colors. We have in our selections of the Spencer varieties followed our rule of accepting only such as will give satisfactory results, believing it to be better to offer a few chosen sorts, than an indiscriminate list for the sake of following a fad, or introducing a "novelty." Crops of sweet peas all over the world are short and because of failure last year there is not any prospect of low values for some time to come. Our prices should really be much higher. We will, however, protect our customers so long as our stock lasts.

KING EDWARD SPENCER.—A bright and most attractive flower. Color of wings and standard carmine scarlet, with reverse of wings a rosy carmine, make a rich and strikingly handsome blossom. The wings are unusually large

and give the flower immense size. When to the bright color and large size are added the grace of frilled, waved and crinkled appearance the combination produced is most beautiful. Easily the brightest and most attractive of the new Spencer class, and a blossom of unequalled beauty. Sturdy and vigorous grower, producing three and four fine flowers on each stem. Pkt. 10c, oz. 35c, ¼ lb. \$1.25.

OTHELLO SPENCER.—In color is similar to the Othello of the large-flowered type, but has the true Spencer form and will appeal to lovers of dark colored blossoms, and cannot fail to attract the eye in any collection of sweet peas. Stems are long, strong, and carry three or four fine blossoms of deep rich maroon. A strong vigorous grower. Pkt. 10c, oz. 35c, ¼ lb. \$1.25.

WHITE SPENCER.—(See illustration on this page.)—One of the finest types of the Spencer class. Flowers deeply waved and curled. Color pure white, form and color producing an effect altogether lovely. Very vigorous and strong, with stiff, upright stems bearing three or four blossoms on each. Of great substance and retain their freshness and purity after being cut. Pkt. 10c, oz. 30c, ¼ lb. \$1.00.

PRIMROSE SPENCER—This is a very fine, large blossom of rich, deep cream or primrose yellow throughout; both standard and wings being of solid color without trace of shading. Is undoubtedly the richest coloring and finest quality of primrose shade. Will please any lover of delicate and dainty flowers. Equally as finely waved as the other Spencers and of strong, robust character. Pkt. 10c, oz. 35c, ¼ lb. \$1.25.

FLORENCE MORSE SPENCER.—This flower is a very delicate rose color, shaded a little darker pink at the edges. It is one of the best of the Spencer type, having large, open, wavy flowers, borne four on the stem, which are quite long. It is very similar to Countess Spencer except in the color, which is of lighter shade. It fully equals the older sort in splendid qualities. Pkt. 10c, oz. 30c, ¼ lb. \$1.00.

CAPTAIN OF THE BLUES SPENCER.—A name strikingly appropriate for this lovely flower. Standard is purple and wings are bright blue, petals finely frilled and waving, and the blossom is very large, even for the Spencer class. A very desirable shade for color effect and a very satisfactory grower as to vigor and profusion of bloom. Is easily a favorite among lovers of sweet peas because of its many good qualities. Pkt. 10c, oz. 40c, ¼ lb. \$1.50.

COUNTESS SPENCER.—This is the original Spencer. It is truly a gigantic variety of finest form and coloring. The standard and wings are broad and well spread, beautifully waved and frilled, and sometimes

fully two inches across. The coloring is a silvery white, suffused with soft rose-pink, which deepens at the outer edges and becomes still richer and more heavily suffused in cool weather. In size, form and coloring Countess Spencer is simply exquisite and beyond the power of words to describe. Pkt. 10c, oz. 35c, ¼ lb. \$1.25.

Spencer Collection

Seven Packets,
Seven Colors,
50 Cents Postpaid.

One packet of each of the choicest Spencers, as named and described on this page:

King Edward
Othello
White Spencer
Primrose
Countess Spencer
Florence Morse
Helen Lewis

One packet of each for 50c.
One ounce of each for \$1.50.



WHITE SPENCER SWEET PEAS

HELEN LEWIS.—(Of Spencer type.)—Standard is crimson orange with orange rose wings. A striking shade and the flower is very large, of open form with wavy edges. Pkt. 10c, oz. 30c, ¼ lb. \$1.00.

SPENCER MIXED.—This is not in any sense an inferior stock but is a choice mixture of the Spencer types and varieties. This mixture has been specially and carefully grown by our expert growers from careful planting to secure a wide range of color, embracing many sorts not named in our list. By growing in this manner we are in position to give our customers a chance to secure the Spencer type in varied colors at a reasonable cost. Pkt. 10c, oz. 25c, ¼ lb. 70c, lb. \$2.50.

GLADYS UNWIN.—The Unwin type differs from the Spencer class

in that the blossoms are not quite so large. The petals are marked and fluted as in the parent type, and the flower is borne on strong upright stems, while in texture and beauty they are unsurpassed. This variety is a light, clear pink in color, very dainty and charming. Pkt. 5c, oz. 20c, ¼ lb. 60c.

NORA UNWIN.—Clear, pure white of the semi-Spencer type. It grows very large open flowers with wavy edges. One of the finest white sweet peas now in cultivation. Flowers are borne generally three on a stem, and are of good substance and a finely effective flower. Comes true from seed. Pkt. 5c, oz. 20c, ¼ lb. 60c.

E. J. CASTLE.—A flower of exceeding delicacy and beauty. The color is a rich, carmine-rose with salmon shading in the standard. This rich color with the bold, wavy standard of the Unwin type makes a most striking effect, especially in artificial light. Pkt. 5c, oz. 20c, ¼ lb. 60c.

GROW YOUR SWEET PEAS ON WIRE TRELLIS OR FOUR-FOOT POULTRY NETTING. IT AFFORDS THE BEST SUPPORT.

ORNAMENTAL CLIMBERS

Nothing adds more to the homelike appearance of a place than to have the pleasant shade of vines over the porches, and climbers on trellises, trees, fences, and outbuildings. We list them together so that our customers can make selection. Notice also the list of hardy permanent vines on pages 110 and 111.

ADLUMIA CIRRHOSA.—Has a striking resemblance to foliage of the Maiden Hair fern. It is a hardy biennial climber, growing readily from seed; foliage is feathery, dainty and picturesque; it blooms the second year; pink and white flowers. Plant in a cool, moist place. Pkt. 10c, $\frac{1}{4}$ oz. 25c, oz. 75c.

AMPELOPSIS VEITCHII, or Boston Ivy.—Described with Hardy Vines. Pkt. 5c.
BALLOON VINE.—A pretty, rapid growing climber, succeeding best in a warm situation. Flowers white, followed by balloon-like seed pods. Pkt. 5c, oz. 20c.

BRYANOPSIS.—Beautiful summer climber; yellow flowers, followed by pretty cherry-like green fruits which change to bright scarlet, marbled with white. Pkt. 5c.

COBOEA SCANDENS.—A magnificent climber of rapid growth and beautiful blue flowers. The seed should be planted edgewise. Pkt. 10c.

CANARY BIRD FLOWER.—One of the most beautiful climbers, with delicate, finely-cut foliage and curious bright yellow flowers, resembling the canary bird in shape and color. Pkt. 5c, oz. 15c.

CYPRESS VINE.—A beautiful rapid climber with delicate dark green foliage, and an abundance of star-shaped scarlet and white blossoms.

Scarlet.—Very bright. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.
White.—Pretty contrast with scarlet. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

Mixed Colors.—Above mixed. Pkt. 5c; oz. 25c.
New Ivy Leaved.—Entirely distinct both in flowers and foliage. The ivy-like leaves make a dense screen from which the pretty orange-scarlet flowers stand out in countless numbers. Pkt. 5c.

DOLICHOS.—(Hyacinth Bean.)—**Mixed Colors.**—A rapid growing annual climber flowering freely in clusters followed by ornamental pods. Fine for arbors or porches. Pkt. 5c; oz. 15c.

Daylight.—Pure white flowers standing out boldly from the rich foliage. Pkt. 5c; oz. 20c.

Darkness.—A good companion for above. Both stems and under side of its leaves purplish red. Pea-like flowers; it blooms early. Pkt. 5c; oz. 20c.

GOURDS.—**Ornamental Mixed.**—A mixture of the odd-shaped and fancy-colored sorts. Contains the most popular and handsome foreign varieties. Pkt. 5c; oz. 25c.

JONAH'S GOURD.—Grows with wonderful rapidity, useful for covering old trees, walls, porches, outbuildings, etc. Leaves quite large, flowers pure white, 2 or 3 inches in diameter. Fruits of great length, resembling well-known Hercules Club. Pkt. 12 seeds 10c; 3 for 25c.

HUMULUS.—(Hop.)—**New Japanese Variegated.**—A handsome and distinct climbing vine, valuable for trellis and high places. Leaves are strikingly marked and blotched silvery white tinged yellow. Pkt. 5c.

KUDZU VINE.—**Jack and the Beanstalk.**—Hardy, very rapid growing vine which dies to the roots after frost, but which grows to forty feet in a season when established. Large foliage and clusters of pea-shaped purple flowers. Grows readily from seed. Pkt. 10c.

MAURANDIA.—Delicate climber for windows or conservatories. Admirable to hang from vases; also desirable for outdoor plantings where slender, graceful vines are wanted. Mixed colors. Pkt. 10c.

MORMORDICA.—**Mixed.**—Commonly known as Balsam apple and Balsam Pear. Foliage ornamental, and fruits are golden yellow, opening when ripe, showing a bright carmine center. Fine for trailing over stumps, etc. Pkt. 5c; oz. 25c.

MAMMOTH PASSION FLOWER.—Sow the seed early and if well cared for and seasons are favorable, vines will put forth magnificent blossoms the first year, of pink, blue and white, very large and showy. A very desirable vine for trailing over porch or trellis; also quite desirable for planting over mounds and in the cemetery. Pkt. 10c.

CLIMBING NASTURTIUM.—Description and prices of different varieties on page 66.

MOONFLOWER.—**White.**—(Ipomoea Grandiflora.)—One of the grandest summer climbers, growing 25 to 40 feet high, and covered nightly and on dull days with beautiful flowers from 5 to 6 in. in diameter. Fragrant. Pkt. of 5 seeds 10c; $\frac{1}{2}$ oz. 25c.

Blue.—Distinct and charming novelty; in striking contrast to the true White Moonflower. Color exquisite, clear, satiny blue; well defined crimson bars. Pkt. 10c; $\frac{1}{2}$ oz. 50c.

RUNNER BEAN.—**Scarlet Runner.**—A valuable climbing bean, having bright scarlet flowers and pods; very showy as a climber, also valuable for table use. Pkt. 5c; $\frac{1}{4}$ lb. 10c; lb. 30c.

Arabian Runner.—A beautiful variety of the above with striped scarlet and white flowers. Pkt. 5c; $\frac{1}{4}$ lb. 10c; lb. 30c.

SMLAX.—Considered the most beautiful of all vines for indoor growing and specially valued by florists for decorating and floral work all times of the year. The seeds start slowly and should be planted in loose, rich soil, and kept moist and warm. Pkt. 5c.

THUNBERGIA.—**Mixed Colors.**—(Black Eyed Susan.)—Beautiful rapid growing climbers for vases, trellises or rustic work. Buff, orange, white, etc. Pkt. 5c.



IMPERIAL JAPANESE MORNING GLORIES

MORNING GLORIES.—**Imperial Japanese.**—Remarkable for the large size and exquisite new colors of the flowers, with magnificent foliage. Vines grow quickly to a height of twelve to twenty feet. Flowers are of gigantic size, sometimes measuring four or five inches across. Colors, shading and markings really wonders of nature. Double and single mixed. Pkt. 5c; oz. 15c.

Fringed Japanese.—Odd yet attractive appearance. Similar in size and coloring to the Imperial strain and delicately beautiful because of waved and curled borders of blossoms. Pkt. 10c; oz. 35c.

New Double Flowering.—Of rapid growth and flowers very freely. They are white with a slight spot of red or blue at base of larger petals. About 8 per cent of seedlings will reproduce themselves true from seed. Pkt. 10c.

Improved Climbing.—A great improvement on the old climbing morning glory. Large size; great variety. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c.

Fine Mixed.—Mixture of odd sorts. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c.

Brazilian.—(Ipomoea Setosa.)—One of the grandest and most luxuriant plants ever grown; very showy and graceful, with rose-colored flowers from 3 to 4 inches in diameter, and a huge leaf 10 to 12 inches across. Pkt. 10c; oz. 25c.

PERENNIAL SWEET PEAS.—(Lathyrus.)—A very popular perennial variety and it should be more generally used. Mixed colors. Blooms second year. Pkt. 10c; oz. 30c.



WILD CUCUMBER.—A well known vine common in many sections, and the quickest climber known for covering verandas, old trees and houses, trellises, etc., never suffering from the heat, but retaining its fresh and lively green color; never infested with insects, very profuse in bloom. It reaches height of 30 feet in one season. It is covered with clusters of white, sweet-scented flowers, followed by an abundance of ornamental prickly seed pods. It will reproduce itself from self-sown seed every year. Pkt. 5c; oz. 15c.

WISTARIA.—One of the most popular hardy vines, climbing to a height of 50 feet or more. It is perennial and easily grown from seed. Of rapid growth, bearing in spring immense panicles of purple flowers in great profusion. Pkt. 10c.



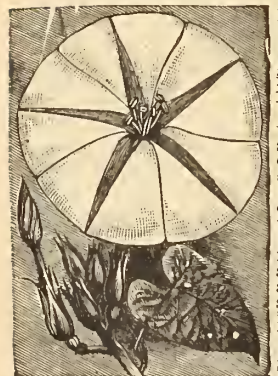
ADLUMIA



CANARY-BIRD FLOWER



GOURDS



MOONFLOWER

EVERLASTINGS AND GRASSES

These are very attractive for winter decoration as they are of rich brilliant colors and are fine for winter bouquets. Cut when in full bloom, tie in small bunches and hang, heads downward, to dry.



MONSTER HELICHRYSUM.

Produces beautiful seeds about 1/4 inch in diameter, which are used like beads in fancy work. Grows 2 to 3 ft. high, with broad, corn-like leaves. Pkt. 5c; oz. 15c.

JOB'S TEARS FOR FANCY WORK.—We also offer in quantity, at a low price, choice seeds of glossy pearl color, which are used for necklaces, basket and raffia work, and in strings for portieres. Not sold for germination. Oz. 10c; 1/4 lb. 35c; lb. 75c; 5 lbs. by express, not prepaid, for \$2.50.

PENNISTEUM.—*Rueppellanum.*—A handsome grass commonly called Purple Fountain Grass. Very popular for borders to beds of cannas and other large bedding plants. Pkt. 10c.

RHODANTHE.—Mixed Colors.—One of the finest and most beautiful of flowers; are of various colors. For winter bouquets the blossoms should be gathered before fully expanded, and if dried in the shade will retain their brilliancy for years. Pkt. 5c.

STATICE.—(Sea Lavender)—Immense panicles of small blue flowers sometimes more than a foot in diameter. Grows 12 to 18 in. high with thick, heavy foliage. Flowers are very lasting if properly dried and are very striking in winter bouquets. Pkt. 10c.

XERANTHEMUM.—Free flowering and easily grown, making a handsome bed. All kinds mixed. Pkt. 10c.



RHODANTHE.



GLOBE AMARANTH.

AMOBIMUM.—*Alatum Grandiflorum.*—A pretty everlasting, double white flower. Pkt. 5c.

ACROCLINIUM.—Mixed Colors.—An everlasting of fine form, growing about two feet high and producing large double flowers which when dried retain their form and beauty for a long time. Shades of pink to white. Pkt. 5c; oz. 20c.

GLOBE AMARANTH.—(*Gomphrena*)—Mixed Colors. Popularly known as "Bachelor Buttons." Handsome, globular heads of flowers; if cut when well matured, retain their beauty during winter. Colors purple, white, flesh, orange and striped. Pkt. 5c; 1/4 oz. 10c; oz. 25c.

HELICHRYSUM.—*Monster Mixed.*—A very pretty and popular hardy annual bearing large double flowers of different shades and colors, ranging from white to yellow, rich red, scarlet. Best everlastings, as they retain their form and color for many months, and are particularly useful in winter decoration. Pkt. 5c; 1/4 oz. 15c; oz. 50c.

JOB'S TEARS.—An ornamental grass known botanically as *Coix Lachryma*.



MIXED GRASSES.

SPECIAL MIXTURES IN FLOWER SEEDS

Carefully Prepared from our own Formulas for Splendid Effects in the Informal Garden

Many persons derive pleasure from watching the growth of a varied bed of flowers, entirely out of the usual trim garden style, while others desire a much more extended collection than their means will permit. To both of these classes the following special mixtures will appeal:

MIXTURE OF FRAGRANT ANNUALS.—Carefully made up from seeds of fragrant flowers only. A bed of these will give rich perfume throughout the day and evening while some are also suitable for cutting. Pkt. 10c; 1/4 oz. 25c; oz. 75c.

MIXTURE OF CLIMBERS.—This is a liberally filled packet of seed of many beautiful annual climbers suitable for growing together. Pkt. 10c; 1/4 oz. 25c; oz. 75c.

WILD GARDEN MIXTURE.—Over 400 kinds of such flower seeds are suitable to be planted together, altogether forming a mass of bright colored flowers and beautiful foliage which is sure to interest and please. Our illustration will give some idea of the possibilities of growing flowers from this mixture. Select a light, rich soil, as free from weeds as possible, plant in this latitude about the first of May. Pkt. 5c; 1/4 oz. 10c; oz. 25c.

MIXED BIENNIALS AND PERENNIALS.—About fifty varieties. Every garden should contain a good assortment and it will be easily obtained in this way. Pkt. 10c; 1/4 oz. 25c; oz. 75c.

MIXED EVERLASTINGS.—Grand assortment of everlasting flowers, suitable for bouquets, etc. Pkt. 10c, 1/4 oz. 25c; oz. 75c.

LOW GROWING ANNUALS.—This mixture contains seed of a great variety of low growing annuals, few of which exceed four to six inches in height, and which, sown in beds or borders, present the appearance of Turkish rugs, carpeting the ground in their wide range of colorings and forms. Pkt. 5c; 1/4 oz. 15c; oz. 40c.

FLOWERS FOR BOUQUETS.—This mixture embraces seeds of annuals producing flowers suitable for cutting and for bouquets, nearly all of them having long stems. Planted in a section of the garden this will furnish a constant supply of cut flowers. Pkt. 10c; 1/4 oz. 25c; oz. 75c.

INTERNATIONAL NOVELTIES MIXED.—Each year we make a grand test of floral novelties, obtaining seed therefor from all parts of the world, and our trial fields exhibit a truly magnificent display of flowers never before grown here. A few of the new varieties did not do well with us, but they may prove valuable in other climates or on different soils; by far the larger number are valuable acquisitions which we would like our customers to try. We have saved seed of most varieties, but instead of listing them in catalogue separately at 10c to 25c per pkt., we have decided to mix them all together and offer our customers this grand assortment at the low price of 10c per pkt.; 3 for 25c.

LAWN FLOWER MIXTURE.—A special mixture of low growing, quick blooming flowers, very desirable for sowing with Lawn Grass Seed in the spring. They come up quickly, afford shelter for grass seed and will bloom by the time the grass requires cutting the first time. Also desirable for sowing on an old lawn very early in the season. Pkt. 10c; oz. 25c.

MIXED GRASSES.—A mixture of the ornamental grasses suitable to grow in masses. Makes a striking as well as useful collection. Valuable for making up into winter bouquets. These should be cut just as they come into bloom and dried in the shade. Very useful for working up with the Everlastings into winter ornaments; they lend a grace and beauty not obtainable without them. Pkt. 5c; 1/4 oz. 10c; oz. 30c.



WE PREPARE ALL OUR MIXED FLOWER SEEDS FROM CHOICE, FRESH SEEDS AND THEY WILL GIVE SATISFACTION.

SUMMER FLOWERING BULBS



Many of the most showy, attractive, inexpensive and easiest grown of all summer and autumn flowers are contained in this important class. Few other flowers can compare with the noble and brilliant spikes of the gladiolus, the grace and elegance of the lily, the purity and sweetness of the tuberose, the majestic foliage of the canna and the wonderful markings of the Tigridia. Bulbs for spring planting require but little care and quickly make a gorgeous display, while the bulbs can be kept over winter and year after year will return a hundred fold in beauty and satisfaction the trifling expense of the original cost. For lilies and other hardy bulbs see pages 79 and 81. Bulbs are large and strong and will be sent well packed, postpaid, on receipt of price, except where noted.

AMARYLLIS

JOHNSONII.—Of strong, vigorous growth, bearing from 3 to 6 brilliant red flowers on each stem. The petals are striped with white; very attractive; fragrant. Each 50c.

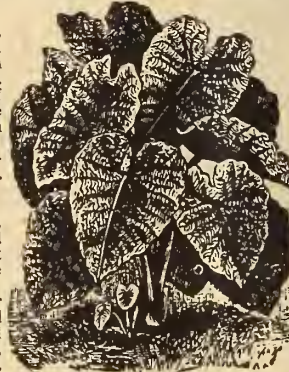
FORMOSISSIMA.—(Jacobean Lily).—Is of extremely rich, deep velvety crimson. Free bloomer and succeeds well in pots or open ground. Each 15c, 3 for 40c; doz. \$1.25.

ATAMASCO.—A fine little bulb for summer blooming; bears pink flowers. Plant closely. Ea. 5c; doz. 50c.

CALADIUM

ESCULENTUM.—(Elephant's Ear).—A splendid tropical plant, growing 4 to 5 feet, with immense leaves, beautifully veined and variegated with different shades of green, often growing 3 feet long. Of easy culture. Medium sized bulbs 15c, 3 for 40c; large bulbs 25c, 3 for 60c; mammoth 40c, 3 for \$1.00.

FANCY-LEAVED.—These have grown very rapidly in popular favor, not only for decoration of conservatory, greenhouse and window boxes, but nearly all varieties succeed admirably planted out of doors, when the ground has become warm, in partly shaded, sheltered borders. Leaves variegated red, yellow, white, brown, green, etc. Many choice varieties, each 25c; dozen \$2.50.



CALADIUM ESCULENTUM.



FANCY LEAVED CALADIUMS

GLORIOUS CANNAS

These are now generally considered the most showy and effective bedding plants. They have tropical appearing foliage and showy flowers, some of which are truly orchid-like.

A. CROZY.—Height 4 feet. Green foliage. Crimson scarlet, with broad gold border. Has always been popular as it is one of the most striking among the long list of cannas. See illustration. Each 15c; dozen \$1.50.

AMERICA.—Height 4 feet. One of the handsomest of the bronzed leaved varieties. Leaves show some tinting of green applied in such a way that they appear as if striped. Flowers extra size, dark yellow, veined with red. Each 20c; doz. \$2.00.

BUTTERCUP.—A medium growing variety with green foliage and bright yellow flower. Very attractive and fine in contrast planting. Each 15c; doz. \$1.50.

CALIFORNIA.—Rare and handsome; color a pure rich orange gold, no other like it. Has nearly all the good qualities combined, good habit of growth, large flowers, erect head, and blooms freely; green foliage. Height 4 feet. Ea. 15c; doz. \$1.50.

CHARLES HENDERSON.—Four feet high. Green foliage; one of the finest bedding plants in existence; compact, vigorous growth; free bloomer; deep, rich crimson. Each 15c, doz. \$1.50.

FLORENCE VAUGHAN.—It is 5 feet high. Dark green foliage; yellow flowers, spotted with bright red. Is fine for bedding. See illustration above. Each 15c; dozen \$1.50.

HIAWATHA.—Pink flower of splendid form. Dwarf habit, strong grower. Bronze foliage. Height 3 ft. Ea. 15c; doz. \$1.50.

INDIANA.—Orange, striped and dashed red; very large, fine flowers. Height 6 feet, foliage green. Each 15c; dozen \$1.50.

KING HUMBERT.—One of the grandest ever offered. Flowers extra large. Bright orange scarlet streaked with crimson. Foliage is bronze with brownish green stripes, large, thick and leathery. Strong grower; height 4 feet. Each 20c; dozen \$2.00.

LOUISIANA.—A very fine specimen of the orchid flowered type. Color vivid scarlet. A strong grower; height 6 feet. Foliage green. Each 15c; dozen \$1.50.

MADAM CROZY.—One of the most popular sorts. A fine grower and the contrasting colors of the flower make it a favorite. Height 3½ feet. Green foliage; flowers vermilion red, gold bordered; a succession of flower trusses. Each 15c; dozen \$1.50.

MARTHA WASHINGTON.—Dwarf variety growing about 3 feet tall. Very profuse bloomer. Flowers large, and beautiful bright pink color. Each 15c; doz. \$1.50.

MONT BLANC.—The nearest pure white of any canna ever offered. The flowers are large and showy. Foliage green. Height 3 feet. Each 20c; dozen \$2.00.

NEW YORK.—Leaves very large and broad, dark purple color. Flower scarlet. A splendid sort. Each 15c; dozen \$1.50.

PENNSYLVANIA.—One of the best orchid flowered sorts. Foliage green, flowers very large, bright scarlet, shaded orange; height 6 feet. Each 15c; doz. \$1.50.

PRES. MEYER.—Height 4½ feet. A dark foliage variety, with very large petaled flowers of cherry red. Choice variety. Each 15c; doz. \$1.50.

ROSEA GIGANTEA.—As its name implies, this is a very large flowered variety. A strong, vigorous grower and desirable. Each 15c; dozen \$1.50.

SECY CHABANNE.—A distinct shade of salmon. Flowers large, plant strong and robust; a free bloomer. Height 3 feet. Each 15c; doz. \$1.50.

UNCLE SAM.—Great, large flower of orange scarlet. A striking variety. Height 6 feet; green foliage. Each 15c; doz. \$1.50.

WEST GROVE.—Height 4½ feet. Flowers extra large, pink. A general favorite because it makes a splendid show in any bed or planting. Each 15c; dozen \$1.50.

WYOMING.—One of the most majestic flowering cannas in orchid flowering class, with a luxuriant growth of rich purple foliage. Above are borne great plumes of massive orange-colored blossoms with large rounded petals. Seven feet. Each 15c; doz. \$1.50.

MIXED BEDDING CANNAS.—Ea. 10c; doz. \$1.00. Our choice of kinds selected for harmony and contrast.



A. CROZY
FLORENCE VAUGHAN
MAD. CROZY CANNAS

KING HUMBERT.—One of the grandest ever offered. Flowers extra large. Bright orange scarlet streaked with crimson. Foliage is bronze with brownish green stripes, large, thick and leathery. Strong grower; height 4 feet. Each 20c; dozen \$2.00.

LOUISIANA.—A very fine specimen of the orchid flowered type. Color vivid scarlet. A strong grower; height 6 feet. Foliage green. Each 15c; dozen \$1.50.

MADAM CROZY.—One of the most popular sorts. A fine grower and the contrasting colors of the flower make it a favorite. Height 3½ feet. Green foliage; flowers vermilion red, gold bordered; a succession of flower trusses. Each 15c; dozen \$1.50.

MARTHA WASHINGTON.—Dwarf variety growing about 3 feet tall. Very profuse bloomer. Flowers large, and beautiful bright pink color. Each 15c; doz. \$1.50.

MONT BLANC.—The nearest pure white of any canna ever offered. The flowers are large and showy. Foliage green. Height 3 feet. Each 20c; dozen \$2.00.

NEW YORK.—Leaves very large and broad, dark purple color. Flower scarlet. A splendid sort. Each 15c; dozen \$1.50.

PENNSYLVANIA.—One of the best orchid flowered sorts. Foliage green, flowers very large, bright scarlet, shaded orange; height 6 feet. Each 15c; doz. \$1.50.

PRES. MEYER.—Height 4½ feet. A dark foliage variety, with very large petaled flowers of cherry red. Choice variety. Each 15c; doz. \$1.50.

ROSEA GIGANTEA.—As its name implies, this is a very large flowered variety. A strong, vigorous grower and desirable. Each 15c; dozen \$1.50.

SECY CHABANNE.—A distinct shade of salmon. Flowers large, plant strong and robust; a free bloomer. Height 3 feet. Each 15c; doz. \$1.50.

UNCLE SAM.—Great, large flower of orange scarlet. A striking variety. Height 6 feet; green foliage. Each 15c; doz. \$1.50.

WEST GROVE.—Height 4½ feet. Flowers extra large, pink. A general favorite because it makes a splendid show in any bed or planting. Each 15c; dozen \$1.50.

WYOMING.—One of the most majestic flowering cannas in orchid flowering class, with a luxuriant growth of rich purple foliage. Above are borne great plumes of massive orange-colored blossoms with large rounded petals. Seven feet. Each 15c; doz. \$1.50.

MIXED BEDDING CANNAS.—Ea. 10c; doz. \$1.00. Our choice of kinds selected for harmony and contrast.



INDIANA CANNA

CONTRAST CANNA BED

A Few of the Best in a Bargain Offer.
2 A. Crozy 2 Chas. Henderson
2 Pres. Meyer 2 Buttercup
2 West Grove 2 King Humbert
Twelve of the choicest sorts, showing a fine contrast in flower and foliage.
POSTPAID FOR \$1.25.

UNCLE SAM CANNA COLLECTION

One each of the following choice varieties, offering a wide range in colors and types:
America Louisiana Uncle Sam
California Martha Washington Wyoming
Hiawatha New York
Indiana Pennsylvania
TEN SUPERIOR SORTS POSTPAID FOR ONLY \$1.25.

CINNAMON VINE

This beautiful climber possesses the rare quality of emitting from its flowers the delightful odor of cinnamon; is appropriately called the Cinnamon Vine. Perfectly hardy, the stem dying down every autumn, but growing again so rapidly as to completely cover any trellis or arbor very early in the season. With its beautiful heart-shaped leaves, clusters of delicate white flowers and delicious cinnamon odor it is most desirable. We furnish the large tubers, postpaid, for 10c; 3 for 25c; doz. 65c. We can supply small bulbets from which the large tubers may be grown in one season at 10c per doz., 100 for 60c.

STATELY DAHLIAS

The Dahlia is one of the showiest of all autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until stopped by frost. Especially fine for cut flowers. They have been greatly improved and we now grow acres of them to supply the demand. Out of the many hundred varieties we have selected the following as of special value. For best results start roots early in the house. Late in the season, when dry roots become exhausted, we then fill orders with strong rooted pot plants.

DECORATIVE DAHLIAS

Type of blooms see Nos. 1 and 2 in group picture.

DELICE.—A new dahlia, greatly prized by specialists because it is a new shade—an exquisite glowing rose pink—a soft yet brilliant shade. Admirable in vigor and habit of growth. Ea. 30c, 3 for 75c.

ELSIE DAVIDSON.—Giant-flowering, deep golden yellow. Ea. 20c.

JACK ROSE.—So named because the color is brilliant crimson red, almost exactly like the General Jacqueminot rose. Popular because of brilliant color which shows to advantage in any collection. Each 15c, 3 for 40c.

PERLE DU PARC DE LA TETE D'OR.—One of the best white decorative dahlias, resembling the paeony. Petals are evenly split or notched at tips, giving the flower a unique appearance. Color white, effectively overlaid lavender. Each 20c.

SYLVIA.—(See cut No. 2.)—A very lovely shade of mauve pink, shading to white in the center. A fine flower on a vigorous plant. One of the best decorative dahlias of lighter shade. Ea. 15c, 3 for 40c.

SOUVENIR DE GUSTAV DOAZON.—Giant flower, strong plant. Ordinarily 6 inches and sometimes fully 9 inches across. Blooms in abundance. Color bright, dazzling red. Each 25c, 3 for 60c.

SHOW DAHLIAS

Type of blooms, Nos. 3, 4 and 5 of group picture.

A. D. LIVONI.—(See cut No. 4.)—Also offered under the name Ethel Vick. A very early blooming variety of delicate shell pink. Very handsome and best of the pink show sorts. Each 15c, 3 for 40c.

GRAND DUKE ALEXIS.—Flowers 18 inches in circumference and of the most beautiful form; petals are rolled up so that they overlap each other. Color is pure snow white slightly tinged with delicate pink at center. Each 25c, 3 for 65c.

MAID OF KENT.—(See cut No. 5.)—Richest crimson velvet. About half the petals are tipped with a large spot of white. Frequently flowers are solid scarlet, but most are variegated. Each 15c, 3 for 40c.

MERLIN.—A beautiful orange-scarlet. One of the very finest dahlias ever offered. Free flowering and good for cut flower purposes. Each 20c.

NORMA.—A dahlia that should be grown by all flower lovers. In our estimation a model of perfection. Flowers are large, perfectly quilled, and of a most exquisite shade live bright orange. Ea. 20c.

QUEEN VICTORIA.—Plant a robust grower and so covered with flowers as to appear almost like a solid mass of golden yellow color. Blooms early. Each 15c, 3 for 40c.

ROBERT BROOMFIELD.—Pure white. Tall grower. Each 15c.

STRADELLA.—Beautiful deep purple-crimson. Exceptionally free flowering. Stems long and wiry. One of the finest to date. Each 20c.

POMPON DAHLIAS

The small flowered type so popular for bouquets and cut flowers. We offer sufficient range of color to afford pleasing effects in vases, etc.

AMBER QUEEN.—An extra free bloomer, clear amber shaded apricot; fine. Each 15c, 3 for 40c.

DARKNESS.—Dark maroon. Furnishes the heavy color for contrast. Strong grower. Each 15c, 3 for 40c.

FAIRY QUEEN.—Sulphur yellow, edged pink. Each 15c.

PRINCE CHARMING.—Cream, very heavily tipped purple. One of the best. Each 15c, 3 for 40c.

SUNBEAM.—A crimson scarlet. Splendid as a solid color decoration any time or place. Ea. 15c, 3 for 40c.



DAHLIAS (REFER TO NUMBER IN DESCRIPTION)
CACTUS DAHLIAS

COUNTESS OF LONSDALE.—A peculiar pleasing shade of salmon pink or apricot, shading to carmine at edge of petals. Blooms freely in nearly all situations. Strong, vigorous grower. Ea. 25c, 3 for 60c.

GENISTA.—A most attractive flower. Color is deep amber, shaded gold; very bright and particularly pleasing in mixed bouquets. It will please dahlia lovers. Habit and growth excellent; blossoms unique. Ea. 20c, 3 for 50c.

J. H. JACKSON.—The finest black cactus dahlia in existence. An exceptionally satisfactory all round dahlia; one of the most prominent for garden decoration, superb as a cut flower variety, and equally good as an exhibition flower. In color a perfectly gorgeous, deep, velvety blackish-maroon. Gigantic in size. Each 20c, 3 for 50c.

KREIMHILDE.—Bright, shining pink, gradually shading to white at the center. Vigorous grower producing the flowers on perfect long stems, making it especially valuable for a cut flower. Each 20c, 3 for 50c.



CACTUS DAHLIAS

TWENTIETH CENTURY DAHLIAS

BLANCHE.—The flowers are large and very attractive, being a pale yellow at the base, faintly tipped pink, with a cast of pure white over the whole flower, making it one of the most delicate varieties to date. Each 20c, 3 for 50c.

MILDRED.—One of the most charming of the single type. The color is a bright, clear yellow and exceptionally heavy. Each 25c.

ROSE PINK CENTURY.—Flowers six inches and over in diameter; of a clear rose pink color; a strong grower with long, stiff stems. Fine as a cut flower and shows extra well under artificial light. Each 20c, 3 for 50c.

20TH CENTURY.—Purest white at both base and tips, and the center of petals is a delicate blush rose. Very large, 5 to 7 inches in diameter. Each 15c, 3 for 40c.

Received the plants in good condition and was very much pleased with them. Have planted them and am sure they will grow.—Mary M. Schwartz, Reading, Pa.



TWENTIETH CENTURY DAHLIAS

THE BEST OF THE DIFFERENT DAHLIA TYPES ARE OFFERED. YOU CAN EASILY FIND YOUR FAVORITE AMONG THEM.



CHOICE GLADIOLUS.

These are a specialty with us and our fields devoted to them make a most magnificent sight each year, appearing at a distance a mass of bright colors. It is the most desirable of all bulbs and it is claimed by many who are well acquainted with their varied beauty, to be the flower of flowers.

NAMED VARIETIES

AMERICA.—A splendid new variety of beautiful soft pink shade. It will delight the gladiolus grower with its large flowers and pleasing beauty. Each 5c, dozen 50c.

AUGUSTA.—White ground color with blue shading. Fine variety as it is very vigorous and spikes are large and fine. A very beautiful flower. Each 5c, dozen 50c.

BERNICE.—A popular light yellow, with buff and pink markings. Very fine. Each 5c, dozen 50c.

BLACK'S 113.—A beautiful large white with scarlet feather in lower petals. Each 5c, dozen 50c.

BRENCHLEYENSIS.—Deep vermilion scarlet. One of the brightest and most showy varieties. A few spikes of the above make a striking bouquet. Each 4c, dozen 40c.

CANARY BIRD.—The best yellow variety. It is a good, vigorous grower and color of the flower is pleasing and attractive. Each 10c, dozen \$1.00.

EARLY PINK.—Pure salmon pink. A very large, open flower, borne on spreading stalks. Each 6c, dozen 60c.

EVALINE.—A large, open flower of violet underlaid terra cotta. Rich and striking. Each 6c, dozen 60c.

GRACE.—A lovely flower of blush white, striped crimson with white throat. Very fine spikes of wide open flowers, often 10 to 15 on a stalk. Each 10c, dozen \$1.00.

INDEPENDENCE.—Introduced by us. Extra large size, wide open flowers and handsome salmon rose color. Strong, vigorous grower, nearly 3 feet high. Its color varies as flower grows older. Ea. 5c, dozen 50c.

MAY.—White flaked with crimson. A dainty flower with just enough color to make it really beautiful. Ea. 6c, doz. 60c.

MAUDE.—Cream yellow with rich maroon spots in lower petals. One of the best of light sorts. Ea. 5c, doz. 50c.

MEADOWVALE.—Pure white ground, crimson throat and stripes of pink in lower petals. A beautiful flower. Each 5c, dozen 50c.

MRS. FRANCES KING.—A hybrid sort of great beauty and attractiveness. The color is very pleasing light scarlet. The spike is strong, flowers large and usually a half dozen open at once. Each 5c, dozen 50c.

NIAGARA.—A distinct variety. Tall stalk, strong stem, vigorous; color canary and cream shadings. A splendid sort. Each 10c, dozen \$1.00.

PRINCEPS.—Rich crimson with deep shadings in throat, and fine large white blotches on the lower petals. The flowers are exceedingly large and fine and they bloom for a long time. This is one of the most magnificent of gladioli. Each 10c, dozen \$1.00.

TACONIC.—A beautiful flower of a lovely pink color, striped and flaked lighter shade, and with throat of light blush. Crimson markings on the lower petals. Each 10c, dozen \$1.00.

VELVET KING.—Almost solid colored flower of deep crimson. A very fine variety for bouquets or decorative effects. Each 10c, dozen \$1.00.

GLADIOLUS COLLECTION

One choice first size bulb each of **Augusta, Bernice, Evaline, Grace, May, Mrs. Frances King and Maude**; 7 choice sorts, only 35c, postpaid.

FANCY FLOWERED GLOXINIA

We know of no bulbous plant that will give such universal satisfaction as the Gloxinia. Their charming trumpet-shaped flowers are exquisitely tinted, blotched or tigered with miniature dots of violet, pink or crimson. They are of the easiest culture in pots and bloom continuously for months. We have a grand strain of Hybrid Gloxinias in mixed colors or in separate colors of crimson, rose, scarlet, violet, white, etc. The Gloxinia may be handled with success anywhere if given good, rich, light soil and a partially shady situation until well started into growth. Each 15c, dozen \$1.25.

HYACINTHUS CANDICANS

This is a large, strong, vigorous bulb, growing a stem 3 to 4 feet high. The stems bear quantities of large, drooping flowers, ivory in color and bell-shaped, per illustration. Flowers are delicately fragrant and by planting closely a clump of these will produce a charming effect, the flowers appearing like giant snowdrops. Ea. 5c, doz. 50c. Extra large bulbs, ea. 10c, doz. \$1.

SPECIAL GLADIOLI MIXTURES

For the benefit of such of our customers as wish a number of given tints for massing we are offering at attractive prices some of the choicest mixtures to be found in this country.

ALTOONA MIXED.—This is put first in our list of Gladioli because we believe it is the best mixture in existence. These bulbs are grown by us on our Altoona farm and the mixture is made mainly from the named varieties on this page and other very choice sorts which we do not list. Large bulbs each 7c, dozen 60c, 100 for \$4.00.

SILVER TROPHY MIXED.—Considered one of the finest of commercial mixtures. Our stock was procured from the originator and has been carefully grown, so that we can without hesitation recommend it to our friends. Each 6c, dozen 50c, 100 for \$3.00.

FINE MIXED.—Our own mixture containing a wide range of color; offered at a very low price and we feel sure they will prove satisfactory. First size each 4c, doz. 35c, 100 \$2.50; second size each 3c, doz. 25c, 100 for \$1.50.



GLOXINIA



HYACINTHUS CANDICANS

BEAUTIFUL LILIES

Nothing can surpass the Lily in beauty, purity, delicacy and stately, magnificent grandeur. A few clumps planted in some place in your yard where they will not be disturbed from year to year, will reward you with abundant flowers. These varieties are, perhaps, the most popular lilies grown, being of easy cultivation, and producing large flowers of delicate beauty on strong stems. Bloom better the second year and thereafter.

AURATUM.—(Japanese Gold-Banded Lily.)—This is justly entitled to the name given it, "The Queen of the Lilies." The immense flowers are produced in great profusion and are deliciously fragrant. The large white petals are thickly spotted with rich chocolate crimson, and have a bright golden yellow band through the center of each. Each 20c; dozen \$2.00; extra large bulbs, each 30c; dozen \$3.00.

SPECIOSUM RUBRUM.—These are perhaps the most popular lilies grown, being easy of cultivation and produce large flowers of delicate beauty on strong stems; height from 2 to 4 feet. Blooms in August. Flowers are white, with a deep rosy crimson band on each petal, with deeper colored spots between. They are 5 or 6 inches in diameter, very fragrant, and have all the hardness of the Speciosum class. Each 20c; 3 for 50c.

SPECIOSUM ALBUM.—The finest of the pure white, hardy perennial garden lilies. Has large white flowers of great substance, beautifully recurved. Each 20c; 3 for 50c.

MELPOMENE.—Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bearded with pinkish crimson. Petals recurved and widely bordered. Each 20c; 3 for 50c.

TENUFOLIUM.—The lovely Coral Lily of Siberia, brightest of all lilies, of shining coral red color. Foliage finely cut. This is indeed a little beauty. Each 15c; doz. \$1.50.



DOUBLE TIGER LILY



LILIUM AURATUM



LILIUM SPECIOSUM RUBRUM

EASTERN SPLENDOR LILY COLLECTION

One nice bulb each of the Auratum, Rubrum, Album, Double Tiger and Melpomene lilies for only 75 cents, postpaid.

TIGER LILIES

The old fashioned tiger lilies were favorites for many years, and are still popular. The improved varieties here offered are far superior to the old kind and are worthy a place in any garden.

DOUBLE TIGER LILY.—A double form of the old Tiger Lily. The flower is densely double, color orange red, spotted with black. Blooms freely; should be more largely grown. As hardy as the old-fashioned tiger lily and much more beautiful. Each 15c; dozen \$1.25.

TIGRINUM SPLENDENS.—An improved Tiger Lily growing sometimes 6 ft. high, and producing large pyramids of orange red flowers spotted with black. Ea. 15c; doz. \$1.50.



CORAL LILY

HARDY EASTER LILY

are listed on page 81 with fall bulbs. The true Easter lily is not hardy, and is grown in the house during the winter. The hardy variety (*Lilium Candidum*) can be grown in same way as other field lilies, but we cannot supply stock in spring. It is one of the most popular sorts and everyone loves it for its purity and fragrance. Orders sent in spring will be filled in the fall. Each 20c.



CANDIDUM LILY

HEMEROCALIS LILIES

These are hardy, herbaceous plants that multiply rapidly, and are very desirable for clumps and mass planting.

LEMON LILY.—One of the handsomest flowers for garden culture. It is not a true lily, as the bulb is of a different shape, but the flower is very much like the *Lilium Speciosum* in form and about 3 inches in diameter. The color is entirely different from all others, being a clear lemon yellow of very bright, pleasing appearance. They have also a most delightful lemon fragrance. There seems to be almost no limit to amount of bloom produced. Ea. 15c; doz. \$1.50.

ORANGE LILY.—(*Hemerocalis Demorteri*.)—Similar to Lemon Lily, but of fine orange color. A bed of these and Lemon Lilies intermingled will give a most pleasing effect in outdoor plantings, and the grower will be more than repaid by the wealth of blossoms available for table decorations or bouquets. We wish we might persuade all our flower loving customers to try the two lilies mentioned and we feel sure they will be delighted with results obtained. Each 15c; dozen \$1.50.

BUTTERCUP LILY.—(*Hemerocalis Thunbergii*.)—Is a splendid variety of *Hemerocalis* which blooms in July after the other varieties are done. Grows four feet high and produces large lily-like flowers of clear buttercup yellow. Each 15c; dozen \$1.50.

SPECIAL OFFER.—We will send 2 Lemon and 2 Orange and 2 Buttercup Lily bulbs for 60c, postpaid.

CALLA LILIES

These are generally sent out as dry bulbs, but the Little Gem variety are always started plants.

MAMMOTH WHITE.—Largest flowering variety and most majestic. It is of perfect flowering form with large tropical appearing leaves of bright green color and yielding throughout the season a profusion of white flowers. Large size each 25c, 3 for 60c; medium size each 15c, 3 for 40c.

ELLIOTTIANA.—This magnificent new yellow calla is of marvelous beauty. The flowers are very large and of the brightest golden yellow. Leaves beautifully spotted with white. Each 35c; 3 for 90c.

LITTLE GEM.—A perfect miniature Calla, growing 8 to 12 inches high, producing beautiful snow-white blossoms. Blooms summer or winter, beginning when a few inches high. Growing plants 15c; 3 for 40c.

SPOTTED LEAF.—Leaves deep green with spots, giving plant a magnificent appearance. Flowers are of pure white with black centers. Fine for planting in the garden in summer. Each 10c; doz. \$1.00.



LITTLE GEM CALLA

THE HARDY FIELD LILIES CAN BE PLANTED IN EITHER THE SPRING OR FALL AND EQUALLY GOOD RESULTS OBTAINED.



LILY OF THE VALLEY

MADEIRA VINE

Also called Mignonette Vine and Mexican Vine. A beautiful tuberous-rooted climber, with rather plain, thick leaves and handsome racemes of fragrant white flowers. The vine makes a very rapid growth and a few plants will cover a trellis or cottage in a single season. It is a very pretty thing to use for shading a porch or veranda, as the leaves are brilliant, glossy green. The bulbs are frequently known as "Madeira Potatoes," and our stock is particularly well grown, carefully sorted, strong and vigorous. Each 5c; dozen 45c.

SUMMER FLOWERING OXALIS

No bulb is so valuable for edging the borders of walks or flower beds as the beautiful flowering Oxalis. When planted three inches apart they produce an unbroken row of elegant foliage and pretty flowers; and they bloom very quickly after planting.

SHAMROCK.—Leaves resemble four-leaf clover; the flowers rose color and borne in profusion on vine-like stems. Pretty for border. Doz. 10c; 100 60c; mammoth bulbs per dozen 15c.

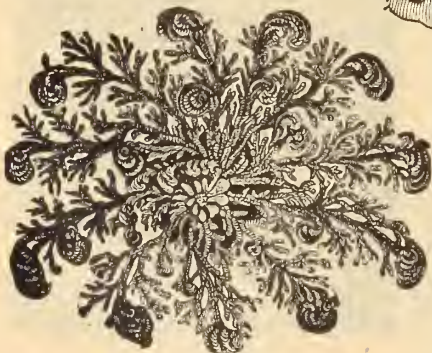
DIEPPI ALBA.—Pretty low-growing variety with light green leaves and clusters of pure white, bell-shaped flowers; blooms profusely. Doz. 10c; 100 for 50c.

LASIANDRA.—Large, dark green, palmate or five-fingered leaves, with clusters of rosy pink flowers. This is taller than above. A most satisfactory bulb for bordering flower beds. Doz. 10c; 100 for 60c; mammoth bulbs per dozen 15c.

I have received the last items on my order for seeds and plants, all in excellent condition and healthy in appearance. I thank you for promptness and liberality.—Frances W. Kelly, New Haven, Connecticut.

RESURRECTION PLANT

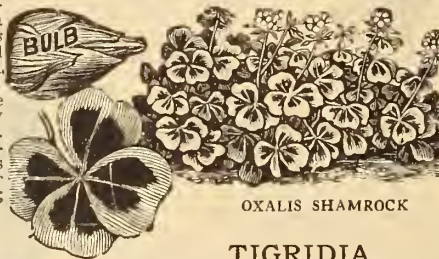
A curiosity which is sure to interest children. It looks like a ball of dried moss, but when it is dropped into a bowl of tepid water it quickly opens out into a beautiful fern-like plant. It is not planted in the earth. Can be taken out of the water at any time and dried to its closed shape. Lasts indefinitely. The illustration below shows the plant in its open form after lying in water for twenty-four hours. Each 15c; 4 for 50c.



RESURRECTION PLANT



MADEIRA VINE



OXALIS SHAMROCK

TIGRIDIA

PEACOCK OR SHELL FLOWER.—A showy summer bulb, blooming freely from midsummer until frost. Large, wide open, triangular blooms. Colors and markings are very brilliant and peculiar, odd and attractive. Clumps of them in a border have a most gorgeous effect. Very easily grown. Each 5c; doz. 50c.

TRITOMA

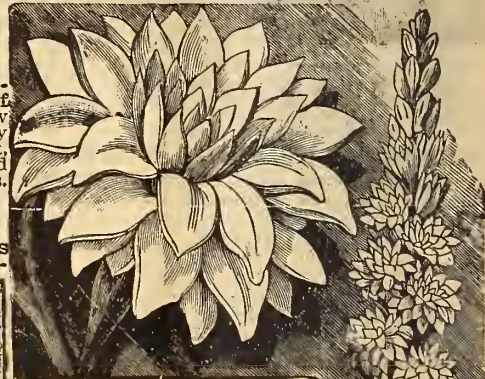
PFITZERI.—(Flaming Torch.)—Flower spikes are produced in great freedom and are gigantic in size, frequently 3 to 4 feet high. The flowers are of rich orange scarlet, shaded to a rich salmon rose at the edge. A bed of these in bloom is a grand sight, or, scattered through the flower garden it adds brightness and is in its glory when nearly all other flowers are seared with frost. Ea. 20c; 3 for 50c.

LILY OF THE VALLEY

A well-known and universally admired spring flowering plant, bearing bell-shaped, freely produced and powerfully fragrant flowers. To grow in the open ground one should select a partly shaded and rather moist situation, and they are very charming when grown in large patches as their handsome green leaves and lovely sprays of flowers make a beautiful effect together. When once planted and established the crowns increase in number and the larger ones flower each year without attention. Now is the time to set out a bed of these delightful flowers. Our price is low for choice stock such as we send out. Four strong roots for 15c; dozen 35c; 100 for \$2.50.

MONTBRETIA

CROCOSMIFLORA.—A new summer-flowering bulb, easier than the gladiolus to grow, and can be planted earlier and left in the ground later, as they are so hardy they continue to bloom after fall frosts. One of the brightest and most winsome flowers we know of. From July to October they are one mass of flowers, spike after spike of the flame-like beauties appearing. Very fine for cutting. Each 5c; dozen 40c.

PEARL TUBEROSE
TUBEROSE**NEW EXCELSIOR**

PEARL.—The tuberose is justly a universal favorite and very easily grown. This variety has short, robust stem and long spikes of large flowers, which are perfectly double and twice the size of the common tuberose, while of equally delicious fragrance. Spikes frequently bear 30 to 50 flowers, remaining in bloom for a long time. They are always wax-like, pure white, and unsurpassed for button-hole bouquets. Monster bulbs each 7c; doz. 60c. First size bulbs each 5c; doz. 40c. 25c; 100 for \$1.50.



Second size, doz.

MEXICAN SINGLE.—Grows 3 feet high, producing two to five flower stems from one bulb. Flowers single, pure white, much pleasanter in fragrance than the Pearl. Ea. 5c; doz. 40c.

VARIEGATED LEAVED.—Leaf bordered a creamy white; flowers single but very large and exquisitely fragrant. Bulbs continue to grow and bloom year after year. Ea. 5c; doz. 50c.



TRITOMA PFITZERI

WINTER BLOOMING BULBS

Some of the most beautiful and fragrant flowers belong to this class, and when potted in the house, they come in bloom just at the time when flowers are most wanted. Bulbs arrive from Holland about Sept. 20th. The best way is to order during spring or summer, then your order will be filled as soon as bulbs are received. Orders filled in rotation upon arrival of stock, and if yours is on file you are sure to receive choice fresh bulbs and get your order in full. Sometimes stock is exhausted later in fall and some items cannot be supplied to late customers. These bulbs are solid and heavy and the postage is expensive but we prepay them at prices named. If any of these items appear on your spring seed or plant orders the seasonable goods will be sent and the winter bulbs will be mailed you at time specified above. Orders should amount to at least 25 cents.



VON SION DOUBLE NARCISSUS

NARCISSUS

VON SION.—The True Double Yellow Daffodil.—Has a rich golden yellow perianth and trumpet. This is the old favorite so highly prized in many old-fashioned gardens. Extra large double nozed bulbs, producing two or three flower spikes. Each 7c, dozen 70c; 100 for \$5.00.

EMPEROR.—Extra large single flowers, both trumpet and petals yellow. Each 7c, doz. 70c; 100 for \$5.00.

EMPRESS.—Like above. Trumpet yellow, petal white. Each 7c, doz. 70c; 100 for \$5.00.

POETICUS.—"The Pheasant's Eye," or "Poet's Narcissus." Pure white flowers with orange cup edged with crimson. Hardy. Each 4c, doz. 40c.

INCOMPARABLE DOUBLE.—(Butter and Eggs)—Full double of rich yellow and orange. Each 5c, doz. 50c.

PAPER WHITE GRANDIFLORA.—Can be made to bloom in December. There is no more satisfactory bulb for house cultivation. Snow-white flowers. Each 5c, dozen 50c.

SINGLE EARLY TULIPS

ARMS OF LEYDEN.—White, striped and slashed red. Each 5c; doz. 50c, 100 for \$4.00.

BELLE ALLIANCE.—Deep scarlet flower. Each 5c, doz. 50c, 100 for \$4.00.

COLEUR PONCEAU.—Rosy crimson, and tipped white. Each 4c, doz. 40c, 100 for \$3.00.

CRAMOISE BRILLIANT.—Bright vermilion red. Each 4c, doz. 40c, 100 for \$3.00.

CRIMSON KING.—Showy, bright crimson flowers. Ea. 4c, doz. 40c, 100 for \$3.00.

DUCHESS OF PARMA.—Orange-yellow, and brown shadings. Each 4c, doz. 40c, 100 for \$3.00.

COTTAGE MAID.—Carmine pink, center of petals feathered with white, base yellow. Each 4c, doz 40c, 100 for \$3.00

PRINCE DE LIGNE.—Bright deep yellow. Each 4c, doz. 40c, 100 for \$3.00.

YELLOW PRINCE.—Bright yellow. Each 4c, doz. 40c, 100 for \$3.00.

LA REINE.—White, sometimes tinged with rose. Each 3c, doz. 30c, 100 for \$2.00.

KEIZERSKROON.—Rich crimson with a broad gold margins. Each 5c, doz. 50c, 100 for \$4.00.

SINGLE EARLY FINE MIXED.—All colors. Each 3c, doz. 30c, 100 for \$2.25.

IOWA SEED CO.'S BEST SINGLE MIXED.—From very best named varieties. Each 4c, doz. 40c, 100 for \$3.00.

PARROT TULIP.—Flowers large and showy; fantastic in form, being so toothed and corrugated as to resemble a parrot's beak. Yellow, crimson or white, feathered with green, gold and scarlet. Mixed colors. Each 3c, doz. 35c, 100 for \$2.50.

FREESIA

One of the daintiest flowers for conservatory or window garden. Color white with yellow blotched throat; quite fragrant; free bloomer and will keep for two weeks in water after cutting. If planted early can be forced to bloom by Christmas. Six or eight bulbs should be planted in 4-inch pot. Not hardy.

Choice bulbs 3c, doz. 25c. Mammoth bulbs 5c, doz. 45c.

CROCUS

White, Mixed Shades of Yellow, Mixed Blue and Purple, Striped and Variegated Mixed, doz. 20c, 100 \$1.50; Cloth of Gold, Cloth of Silver, Mammoth Yellow, doz. 25c, 100 \$1.75; all colors mixed, doz. 15c, 100 \$1.00.



DOUBLE, SINGLE AND PARROT TULIPS

DOUBLE EARLY TULIPS

LA CANDEUR.—Pure white. Beautiful with Rex Rubrorum. Each 4c, doz. 40c, 100 for \$3.00.

REX RUBRORUM.—A brilliant double scarlet. Each 4c, doz. 40c, 100 for \$3.00.

DUKE OF YORK.—Carmine rose, edged broadly with white, suffused rose. Each 4c, dozen 40c, 100 for \$3.00.

LA CITADELLE.—Purplish red, bordered yellow. Each 4c, doz. 40c, 100 for \$3.00.

TOURNESOL.—Orange scarlet with broad yellow tips and yellow base. Each 5c, doz. 50c, 100 for \$4.00.

MURILLO.—(Albino)—Blush white, and shaded rose. Ea. 4c, doz. 40c, 100 for \$3.00.

DOUBLE EARLY FINE MIXED.—An excellent assortment. Each 3c, doz. 30c, 100 for \$2.25.

IOWA SEED CO.'S BEST DOUBLE MIXED.—Made from choicest named varieties. Each 4c, doz. 40c, 100 for \$3.00.

SNOWDROPS

Single, doz. 15c, 100 for \$1.15, postpaid. Double, doz. 25c, 100 for \$1.75, postpaid.

SCILLA SIBERICA

Each 4c, dozen 35c.

JONQUILS

Of Narcissus family. Each 4c, doz. 35c.

ORNITHOGALUM

(The Great Flowered or Arabian Star of Bethlehem.)—Each 10c, dozen \$1.00.

HYACINTHS

Single Varieties.

GERTRUDE.—Bright red. Large truss. Each 15c, dozen \$1.50.

GIGANTEA.—Enormous broad spikes, bluish-pink. Ea. 15c, doz. \$1.50.

QUEEN OF THE BLUES.—Porcelain blue. Each 15c, doz. \$1.50.

L'INNOCENCE.—Pure white; large; blooms early. Each 15c, dozen \$1.50.

IDA.—Beautiful golden yellow; has large spike; best single yellow sort. Each 15c, dozen \$1.50.

Double Varieties.

BOUQUET TENDRE.—A beautiful flower; deep crimson. Ea. 15c, doz. \$1.50.

GOETHE.—Large, fine truss; handsome citron yellow. Ea. 15c, doz. \$1.50.

BOUQUET ROYAL.—Fine light pink or blush. Extra large spike. Each 15c, dozen \$1.50.

BLOKSBERG.—Light blue; large spike. Color very fine. Ea. 15c, doz. \$1.50.

LA TOUR D'AUVERGNE.—Is very early flowering and the best of all double whites. Each 12c, dozen \$1.20.

BEDDING HYACINTHS

SINGLE AND DOUBLE.

Pure white, rose and pink, red, light blue, dark blue, each 8c, dozen 80c. Yellow, each 10c, dozen \$1.00. Mixed, all colors, each 7c, dozen 75c.

ROMAN HYACINTHS

The florists favorite. Much earlier in bloom than the larger Dutch sorts. Easy, quick forcing, fragrant flowers.

	Each	Doz.
Pure White	10c	\$1.00
Light Blue	7c	.75
Delicate Rose	7c	.75
Canary Yellow	10c	1.00

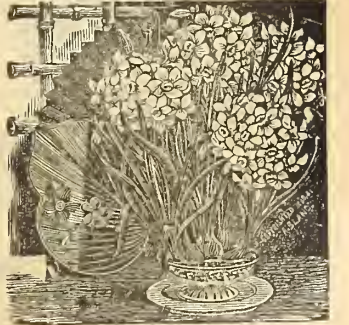
LILIES

EASTER LILY.—Large, pure white trumpet shaped flowers. For winter blooming indoors. Ea. 20c, 3 for 50c.

CANDIDUM LILY.—Pure white, hardy garden lily for early blooming. Each 20c, doz. \$2.00.

CHINESE SACRED LILY

Most popular of all bulbs for winter blooming; of easiest culture. A variety of Polyanthus Narcissus grown by the Chinese. Produce a profusion of bloom in about six weeks from time of planting. Foliage a luxuriant dark green color, surmounted by large, satiny white, fragrant flowers with golden yellow cup. Partly aquatic and must have plenty water. Each 15c, doz. \$1.50.



CHINESE SACRED LILY

GREENHOUSE DEPARTMENT

GREENHOUSES



Iowa Seed Company's Thirty-two Greenhouses

It is now thirty-two years since we purchased a range of greenhouses and during the past few years we have entirely rebuilt them, adding greatly to their size each year, and we now have thirty-two large greenhouses besides a large number of steam-heated hotbeds and cold frames, giving us one of the most extensive plants in the country. We employ experienced florists to look after this branch of our business and all their time and attention is devoted to growing flower plants and bulbs exclusively for the mail order trade, as for this purpose they require special culture in greenhouses kept at a low temperature so that they will be hardy, healthy and vigorous. Plants thus grown are much better prepared for shipment through the mails and for setting out in the open ground than those grown in the ordinary greenhouses which are kept at a high temperature. We are filling orders constantly from every state and also from Mexico and other foreign countries.

Notice.—We ship all Bedding plants we will hold until usual season for setting out. If plants are ordered during winter

Our system of packing is so very complete that plants arrive in almost as perfect condition after traveling many hundreds of miles as they were when packed.

Terms and Discounts.—At prices named we send plants postpaid except where noted. Orders must amount to at least 25 cents, for if of less amount they are filled at a loss.

Special Express Rates.—All express companies now carry plants at second class rates, which are about 25 per cent cheaper than ordinary merchandise. In shipping plants by express at customer's expense for carriage we leave the dirt on the roots unless instructed to the contrary.

We Guarantee plants ordered from this list to reach purchasers in any part of United States in good order by mail or express. Complaint must be made immediately on receipt of goods.

Separate Plant and Seed Orders.—Write plant order on separate sheet so it can go to greenhouse for filling.

Bedding plants as soon after order is received as weather permits. If plants are ordered during winter for immediate shipment they will be sent at buyer's risk.



- ABUTILON**
- SAVITZI.**—A most beautiful new variegated-leaved plant. Its maple-like leaves are almost white, being blotched here and there only with clear, bright green; very large, orange-colored, bell-shaped flowers. Ea. 15c.
- ECLIPSE.**—A splendid variety for baskets and vases; foliage marbled green and yellow; flowers scarlet and orange buff. Each 15c.
- SOUVENIR DE BONN.**—A striking decorative foliage plant with beautiful variegated leaves of good size, regularly and evenly marked with white and green. Very large, graceful, drooping, orange-colored flowers. Ea. 15c.
- ARTHUR BELSHAM.**—Green foliage. Flowers large, dark red without markings. Tall and erect. Strong grower, free bloomer; a satisfactory variety. Each 15c.
- GOLDEN HELLS.**—The best yellow flowering variety; of dwarf habit. Each 15c.
- ERECTA.**—Color pink, changing to orange. Each 10c.

ABUTILON COLLECTION

One each of the six Abutilons named above, postpaid, for only 65c.

ARAUCARIA

EXCELSA.—This beautiful plant resembles the pine somewhat in appearance, though much finer in texture, and is particularly adapted to table decoration. It is most unique in appearance. Its deep green, feathery foliage arranged in whorls—rising one above the other at regular distance—makes it a plant of rare value for decorations. By mail, each \$1.00; large, by express, not prepaid, \$1.50 and \$2.00.

ASPARAGUS

PLUMOSUS NANUS.—One of the handsomest of our foliage plants for pot culture, beautiful the year round, and there is no more decorative plant in the entire list. Easily grown, even in a north window. Leaves bright green, gracefully arched, and as finely woven as the finest silken mesh; their lasting qualities, when cut, are remarkable, retaining their freshness for weeks. Each 10c; large 25c.

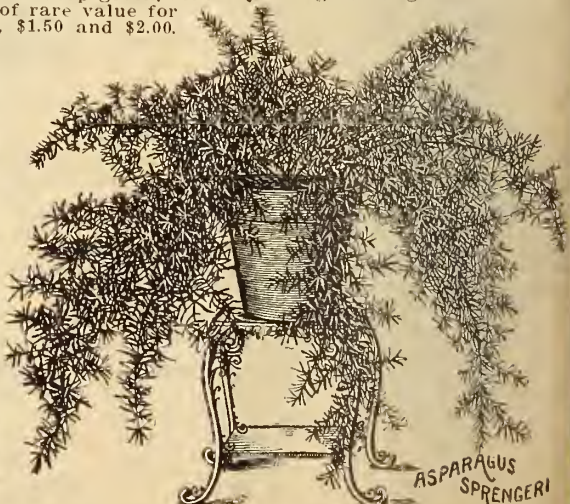
SPRENGERI.—A splendid new plant for hanging baskets or pots. It droops most naturally, sending out numerous feathery fronds which, in a short time, make a growth of 3 to 6 feet, forming an exquisitely handsome and striking picture. It produces small white flowers which are succeeded by red berries. A well established plant is literally a mass of emerald green. Nice young plants each 10c; large size each 25c.



ARAUCARIA



ASPARAGUS PLUMOSUS NANUS



ASPARAGUS SPRENGERI

ACALYPHA

BICOLOR.—Brighter and more attractive for bedding than Coleus. Leaves bright green margined with band of lemon yellow, dotted and splotted with the same color. Highest coloring in sunny situations. Each 15c.

TRICOLOR.—Mottled and blotched with crimson and scarlet on green background. Foliage extra large and maintains its markings best in summer heat. Each 15c.

MARGINATA.—Foliage bronzed green, margined with bright pink on edges of the leaves. Contrast pleasing and attractive. Each 10c.

SANDERI.—(Chenile Plant.)—A most striking ornamental plant of branching habit. The flower spikes, which appear in pairs from the axis of the leaves, grow 2 to 3 feet in length. They are bright crimson and mix among the green foliage with charming effect. Desirable both outdoor and in. Each 15c.

ONE EACH, FOUR VARIETIES ACALYPHA, POSTPAID, FOR 45c.

ANTIRRHINUM

The Antirrhinum is rapidly becoming a general favorite for both outdoor and indoor planting. Desirable for decorations in tall vases as cut flowers. Succeeds without extra care. The giant varieties far surpass the old-fashioned sorts in every way.

GIANT WHITE.—An especially fine variety of the Giant Snapdragon. Perpetual bloomer, producing dozens of long spikes of beautiful pure white flowers. Its blooms will last two weeks. Each 10c, dozen \$1.00.

GIANT YELLOW.—Like white, but color is pure lemon yellow. Each 10c, dozen \$1.00.

GIANT WHITE AND YELLOW.—Flower white with yellow lip. Each 10c, dozen \$1.00.

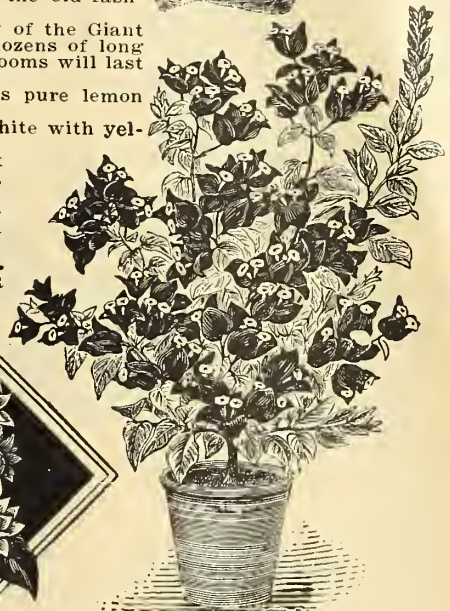
KILLARNEY PINK.—The peculiar pink shade seen in the Killarney rose. Each 15c, dozen \$1.50.

GIANT RED.—Bright, brilliant flower; offered special to complete collection. Each 10c, dozen \$1.00.

ONE PLANT EACH OF THE FIVE COLORS IN ANTIRRHINUM, POSTPAID, FOR 40 CENTS.



GIANT WHITE ANTIRRHINUM



BOUGAINVILLEA.

AGERATUM

PRINCESS PAULINE.—Of dwarf, compact habit, rarely exceeding 5 inches in height. Blue and white colors combined in one flower. Blooms the entire season and very bright and pretty. Each 10c, dozen \$1.00.

STELLA GURNEY.—Color a deep, even blue and literally forms a sheet of bloom all summer. Dwarf, compact growth. Each 10c, dozen \$1.00.

QUEEN ALEXANDRA.—Beautiful shade of dark blue; flowers extra size. Gives delightful effect for border of bright colored beds. Each 10c, dozen \$1.00.

INIMITABLE.—This is a light blue-lavender shade. Handsome. Each 10c.

LITTLE BLUE STAR.—Very dwarf, 6 to 8 in. Blooms all summer. Ea. 10c, doz. 75c.

WHITE SWAN.—Pure white; fine for borders or beds. Each 10c, dozen 75c.

ONE EACH OF SIX AGERATUM ABOVE ONLY 50c.

BOUARDIA

ALFRED NEUNER.—A strong grower, producing clusters of beautiful, waxy, double, pure white flowers. Is of greatest value for winter blooming. Each 15c.

PRESIDENT GARFIELD.—A sport from Alfred Neuner, with the same double flowers but differing in color, which is a clear, rosy pink. Desirable. Each 15c.

HUMBOLDTI.—Similar to above; flower white. Ea. 10c.

BOUARDIA COLLECTION—ONE EACH OF THREE VARIETIES, 30 CENTS.

BOUGAINVILLEA

SANDERIANA.—This beautiful flowering plant is very popular. It is of strong and rapid growth and the brilliant, rosy crimson blossoms are produced from early in March until midsummer, in fact, a plant will frequently cover the greater part of the year. A most desirable plant for conservatory or window garden. Each 15c.

BRYOPHYLLUM

A curious plant. Leaves thick and heavy and when cut and placed in moist soil little plants start from notches in them and make strong plants in short time. Flowers look like long, green, red striped pods, through which breaks a pointed tube of dull red shade. Ea. 10c.



BRYOPHYLLUM.



CHENILE PLANT ALTERNANTHERA

Bright colored, dwarf growing foliage plants, used for carpet bedding, borders, etc. An effective plant for special designs in large beds, for lettering and small figures. Any variety, ea. 10c, doz. 60c, 100 for \$4.00.

ACHYRANTHES

Beautiful foliage plants; useful for carpet beds and masses. Stand heat and sun without losing color and shear without injury. Four kinds. Each 10c, dozen 75c, 100 for \$6.00.

DR. BAILEY.—Red and green, brown leaf.

COLLINSII.—Green and yellow, narrow, pointed leaf.

LINDENI.—Dark purple, narrow, pointed leaf.

EMERSONII.—Purplish crimson, round leaf.

ASTER PLANTS

BEST VARIETIES MIXED.—Price is low and you should have a fine bed of these. Doz. 25c, 100 for \$2.00, prepaid.

SNOWDRIET WHITE.—Doz. 35c, 100 for \$2.25.

ENCHANTRESS PINK.—Per doz. 35c, 100 for \$2.25.

CRIMSON KING.—Per dozen 35c, 100 for \$2.10.

ROYAL PURPLE.—Dozen 35c; 100 for \$2.25.

VIOLET KING.—Doz. 35c, 100 for \$2.10.

EIGHT EACH OF ABOVE FIVE COLORS FOR ONLY ONE DOLLAR.



ALFRED NEUNER BOUARDIA



ENCHANTRESS ASTER

BEGONIAS

Begonias are greatly prized by lovers of house plants generally. The Rex types are perhaps the most magnificent of all foliage plants, while many of the flowering sorts present a wonderful mass of blossoms, and all are beautiful.

COUNTLESS LOUISE ERDODY.—This variety is sometimes called "Snail Begonia," on account of the peculiar formation of the leaves. The form is exceedingly odd and unique. Its striking peculiarity is the fact that the two lobes at the base of the leaf do not grow side by side, but one of them winds in a spiral-like way until in a full-grown leaf there are four of these twists lying on top of the leaf, nearly two inches high. The leaf has a metallic luster, dark silvery in the center, shading to coppery rose toward margin, which is broadly and evenly edged with same hue, but darker and more brilliant. Very curious. Each 25c.



ARGENTEA GUTTATA BEGONIA

ARGENTEA GUTTATA.—Has purple bronze leaves with silvery markings. The flowers are white. A very vigorous, strong growing variety of the easiest culture and always satisfactory. Is an old, well-known variety but still very popular. Each 15c.

REX.—The Rex or King Begonia may well be called the king of foliage plants and they make a magnificent showing with their rich lustrous tints and tropical looking leaves. There are many different varieties, presenting a great range of beautiful markings and splendid color effects. Best results in moist and shaded situations, making it the very finest plant for household decoration. We have a particularly choice stock of these, including many different kinds, and we are sure they will please. Each 20c.

MADAM DE LESSEPS.—Has very large leaves of silky texture beautifully spotted with silver. Flowers pink and white. Each 15c.

PROFUSION.—A new French variety of vigorous growth. Flowers are bright pink, produced evenly all over the plant. Each 10c.

BEEFSTEAK.—(Warsewici.)—Old fashioned sort with thick, round leaf; deep green above, red underneath. Always popular. Each 15c.

ALBA PICTA.—Leaves of a glossy green color, thickly spotted with silvery white. Flowers white. Each 15c.

METALICA.—This elegant variety has very large leaves shaded with green, crimson and olive, with a peculiar metallic luster over all. Flowers a clear pink, shaded with white. Each 15c.

RUBRA.—This fine variety is a constant bloomer. Heavy, waxy green leaves. Flowers rosy scarlet. Each 15c.

VERNON.—Of unusual value for bedding, as it will stand the hot summer sun. Flowers of pink, blush and brilliant red, foliage sometimes margined with bronze purple. Each 15c; dozen \$1.25.



VERNON BEGONIA



THURSTONII BEGONIA

THURSTONII.—A stately growing variety with handsome glossy leaves. Remarkably fine foliage, the under side of the leaves being rich purplish red, with prominent veinings. Upper side bronzy green, shaded crimson and olive and a metallic luster over all. Flowers rosy white, in clusters. Each 15c.

HAAGEANA.—Flowers rosy pink, bright and attractive. Plant tall. Shrubby with hairs on stems and leaves. Each 15c.

MCBETHII.—Foliage fine, fern-like. Panicles of pure white flowers produced in the greatest profusion. It is a most persistent bloomer. Each 15c.

SANDERSONII.—A variety growing in compact, bushy form, with deep, glossy green leaves and scarlet flowers in drooping clusters. Each 15c.

MINIATA.—A beautiful variety of upright bushy style of growth; flower bright scarlet. They are very free flowering. Each 10c.

NITIDA.—White flowers, delicately suffused rose, produced in good sized clusters of large flowers. Each 15c.



REX BEGONIA

Beautiful Begonia Collection

One Rex, one Alba Picta, one Argentea Guttata, one McBethii, one Thurstonii, one Miniata, one Madam DeLesseps; seven fine plants covering nearly all the distinct types of Begonias and offering a wide range of beauty for only 75c, post-paid.

TUBEROUS BEGONIA

SINGLE TUBEROUS ROOTED.—Giant flowering tuberous rooted begonia which has been brought to wonderful perfection. Flowers sometimes grow 6 in. in diameter, borne upright on stiff stems and of richest colors, embracing every shade—white, pink, scarlet, crimson and yellow. Each 10c, doz. 75c.

DOUBLE TUBEROUS ROOTED.—Shows the same shades and markings as the single flowered tuberous sorts. A few doubles and singles intermingled and showing a mixture of colors, will make a beautiful summer bed of bright flowers. Bulbs each 10c, doz. \$1.00.



TUBEROUS ROOTED BEGONIA

CARNATIONS

Fragrant flowers are always sought after, and the rich, spicy odor of the carnation, combined with its various colors, leaves little to be desired. They are easily grown and bloom freely.

BENORA.—A handsome variegated variety, color white with irregular streaks of red. A beautiful composite flower which is very popular. Each 15c.

COMMODORE.—A charming shade of crimson scarlet, differing from any other variety, and to our minds of special beauty. Difficult to describe in ordinary color terms, but will please all lovers of red carnations. Each 20c.

COMFORT.—A new variety with beautiful large flowers of bright red color. One of the best and most popular red carnations. Ea. 20c.

ENCHANTRESS.—A charming variety of immense size and delightful blush pink color. The original of the popular Enchantress type of carnation, which is the favorite with all florists. Each 15c.

HARLOWARDEN.—A bright, dazzling crimson flower; a very free bloomer, bearing flowers on long stems, making it very desirable as a cut flower. Very popular with florists and a splendid variety for the amateur. Each 15c.

J. W. RILEY.—We consider this elegant new variety the best yellow flowered sort ever sent out. It is nearly pure yellow, being faintly striped with red. Flowers large, very double and produced abundantly. Each 15c, dozen \$1.50.

KEOKUK.—A splendid sort propagated at the Iowa Agricultural College at Ames, which seems in many respects to surpass any other bright crimson carnation. We commend it. Each 20c.

MATCHLESS.—A pure white flower of extra large size, perfect in form and of great substance. Plant vigorous, bearing the flowers on long, stiff stems. Petals are beautifully fringed, while blooms are exceedingly fragrant. A comparatively new variety, but is generally given first place among white carnations because of its general excellence. Each 15c, dozen \$1.50.

MRS. C. W. WARD.—This is a beautiful pink shade, somewhat lighter than Mrs. Lawson, but is of better growth, more vigorous and thrifty than that popular sort. Each 15c.

PEERLESS.—A new variety of such excellence that we give it special prominence. Its color is clear, bright pink, a lovely shade. Remarkably free bloomer, strong growing and vigorous. Will please in every detail. Each 15c, dozen \$1.50.

SCARLET GLOW.—A very beautiful carnation, intensely brilliant red, of fine form and substance, fragrant and lasting. Preferred among red carnations for its brightness. No color in carnations is so popular as red, and generally a good red is hard to secure. The Scarlet Glow will be found entirely satisfactory. Each 15c, dozen \$1.50.

WHITE ENCHANTRESS.—One of the finest white carnations. In type and habit like the original Enchantress. Flowers extra large and of purest color. Strong grower and profuse bloomer. Each 15c.

WHITE WONDER.—Large, nicely filled flowers of the purest white. Not only good for large sized blooms when given special care, but they are valuable for garden planting and pot culture. Very sweetly scented with that delightful old-fashioned clove fragrance lacking in many of the newer carnations. Each 15c, dozen \$1.25.



ENCHANTRESS

ENCHANTRESS CARNATION COLLECTION

Five extra large flowering sorts of different colors:

Enchantress.—Pink.
White Enchantress.
Mrs. C. W. Ward.—Pink.
Harlowarden.—Crimson.
Comfort.—Bright red.

ONE EACH OF ABOVE 60c.

PEERLESS CARNATION COLLECTION

Our Peerless Carnation Collection is one of our special floral offers for this season and the varieties in this collection are selected for this offer because of extra quality. The collection is made up of six choice varieties of different colors for contrast.

J. W. RILEY.—Golden yellow, slightly striped crimson.
KEOKUK.—Bright ruby red.
BENORA.—White, striped red. Very attractive.

PEERLESS.—Clear, light pink. A lovely shade.

WHITE WONDER.—Large flowers of pure white.

SCARLET GLOW.—This is perhaps the best scarlet.

ONE EACH OF THESE VARIETIES, POSTPAID FOR 70c.



WHITE ENCHANTRESS AND HARLOWARDEN

BLOOMING CACTUS

The cactus here listed are greatly prized by lovers of house plants. Well grown specimens are very attractive and the blooms are beautiful.

NIGHT BLOOMING CERESUS.—This gorgeous cactus bears abundant pure white blossoms measuring twelve inches across. A plant loaded with these flowers is a sight never to be forgotten. Blooms at night and is very fragrant. Better order one and call your neighbors in to see it bloom. This is the true round stemmed variety and not the common flat leaved sort. Each 20c.

FLAT LEAVED CERESUS.—The common sort, similar to the above, except in form of stem. Each 15c.

CHRISTMAS CACTUS.—(Epiphillum.)—Also known as Lobster Cactus. Stems branching and hanging in bunches. Flowers bright red; blooms freely. A popular and beautiful house plant. Each 15c.



NIGHT BLOOMING CERESUS.

CHRYSANTHEMUMS

These are now, and deservedly, the most fashionable of all autumn flowers. All these varieties are excellent for pot culture, and the best of their class. Attract universal attention at great flower shows on account of large size, exceptionally fine shape, and handsome colors. Their large size is of course especially noticeable when grown as a single stem and only one flower is allowed to develop on each plant.

BLACK HAWK.—A dark, velvety crimson. No reverse is noted as the petals are solid color. Form recurved, solid. The most satisfactory solid red chrysanthemums. This color is not so popular as some of the other shades but a few red blooms stand out in fine contrast in mixed bouquets. Each 15c.

CHRISTMAS PINK.—A splendid large flower of great size, strong growth and of value because it is a late bloomer and carries on the plant without withering for a long time. Each 15c.

DR. ENQUEHARD.—A magnificent new variety of very large size and solid appearance. It is a true bright pink, one of the largest and best ever introduced; is handsomely incurved and very pleasing in appearance. Blooms early in November and makes a splendid pot plant with stiff stem and healthy foliage. Each 15c.

GOLDEN AGE.—One of the best of the solid yellow 'mums. Color, habit and form all that might be desired. Will prove a favorite with all. Each 15c.

IVORY.—This fine old ivory white variety is still popular. Is the equal of the newer sorts and is a very fine sort for the amateur. Each 15c.



ROBERT HALLIDAY

TEKONSHA.—A dwarf, bushy grower, making a fine pot plant. Color a beautiful Indian red on opening, with a bronze reverse. As the flower ages it gradually incurves until it becomes a ball of bronze. Each 15c.

MILLE C. TOUSETT.—A glistening white sometimes with pearl tints. Petals very broad, incurved. A variety sure to give results to the amateur. One of the most popular with florists because of immense size and striking beauty. Blooms frequently nine inches in diameter. Each 15c.

TRI-COLOR CHRYSANTHEMUM COLLECTION

Extra Early Blossoms of Large Size.

EARLY SNOW.—The earliest of the large pure white sorts. Comes into bloom in September and is valued for its splendid form and adapts itself readily to amateur culture. Each 20c, 3 for 50c.

GOLDEN GLOW.—The earliest of the mammoth yellow flowered sorts. Easily grown and very desirable for the amateur. Each 15c.

GLORIA.—A superb extra early clear pink, offered in this collection because it blooms far ahead of most chrysanthemums. It is the earliest pink. Each 15c.

ONE EACH OF THE ABOVE THREE EARLIEST KINDS — BLOOM BEFORE FROST — POSTPAID, 35c.

CHAS. RAGER.—(Improved Eaton.)—Fine, large and pure white; incurving with outer petals reflexed. Sure to give satisfaction. Each 15c.

PERCY PLUMRIDGE.—Buttercup yellow. A Japanese incurved variety with bright, shining color, attracting special attention and winning prizes at leading shows. Each 15c.

ROBERT HALLADAY.—One of the most popular of yellow sorts, because of early bloom and unique flower. A strong, vigorous plant with blooms of large size. Each 15c.



BLACK HAWK



GLORIA

ROMAN GOLD.—As indicated by the name, it is of golden yellow color. Blooms are very large, incurved petals, close and of beautiful form. The plant is vigorous and we recommend it as a desirable yellow sort. Each 15c.

SENSATION.—A mammoth flowered variety, bright shining pink in color, strong and vigorous in growth. Very early and fine for a pot plant. Ea. 15c.

TIMOTHY EATON.—A globular Japanese incurved variety of perfect form and growth. Color pure white when fully developed. A prize winner at all shows last fall. Each 15c.

YELLOW EATON.—Immense flower of a bright golden yellow color. One of the finest varieties of this color. Each 15c.

JAPANESE CHRYSANTHEMUM COLLECTION

Our superb offer of the finest large Chrysanthemums selected from the entire list as the choicest for home blooming.

CHIEFTAIN.—A new pink sort with large blooms, close, compact flowers, strong, sturdy habit and altogether desirable. Will be satisfactory in any collection, or as a single specimen plant. Each 15c, 3 for 40c.

HARVARD.—A new crimson chrysanthemum of splendid form and magnificent full double solid flowers. Offered as the best red sort. Each 20c; 3 for 50c.

WM. TURNER.—Incurved type of bloom, solid and very large. Clear, pure white. It is valued for its splendid form, growing semi-dwarf, very strong and vigorous, and adapts itself readily to amateur culture. Each 20c; 3 for 50c.

CHRYSOLORA.—A splendid yellow-flowered chrysanthemum of perfect form and bright color. Large size and strong grower. Each 15c, 3 for 40c.

One plant each of the above four Japanese Chrysanthemums, only 50c.



LOUIS BOEHMER

OSTRICH PLUME SET

WHITE SWAN.—This is an exquisitely beautiful variety with grand pure white flowers of globular form; petals broad and lasting and thickly covered with fine downy hairs so much admired. Strong and vigorous plant. Each 15c.

BEAUTY OF TRURO.—The best bronze Ostrich Plume. A splendid, deep old gold color and by many named as finest of its class. Ea. 15c.

LOUIS BOEHMER.—Like above, but of a deep pink color; fine. Each 15c.

One each of the three varieties Ostrich Plume for only 35c.

SINGLE CHRYSANTHEMUMS

GOLDEN MENSA, yellow; **KITTY BOURNE,** white; **LADYSMITH,** pink; **BELLE OF WEYBRIDGE,** chestnut; **CECIL DENYER,** milk white. **WYNDHAM,** pure white.

Any of these 10c each; or will mail the entire five for 40c.

POMPOM CHRYSANTHEMUMS

These small 'mums are popular again; give showers of bloom after most other flowers are gone.

MINTA, pink.
HELEN NEWBERRY, white.
KLONDIKE, yellow.
PANAMA, deep red.
MRS. FRANK BEAN, orange.

Any of the above each 10c; per doz. 75c. One each of five named for 40c.

COLEUS

Whoever has been in our large city parks will never forget the ornamental beds, curving and quaint designs and mingling arabesques of all colors—which look like varicolored rugs spread at short intervals on the smooth lawn. These are formed of Coleus. The following include the very best varieties.

PRICES.—All of the varieties of coleus named below each 10c; doz. 75c. Mixed varieties suitable for bedding, unnamed, 60c per dozen; \$1.00 per 100, postpaid.

ADMIRAL BEWEY.—A better bedder and a brighter color than *Verschaffeltii*; color a bright crimson, edged maroon.

ANNA PFISTER.—Pointed leaves with deep scalloped edges. Color bright golden yellow intermingled with green and crimson. Of dwarf and compact but spreading habit.

BECKWITH'S GEM.—A new sort of striking appearance. The large leaves have fine scalloped edges. It shows four shades of color, center maroon, bordered red; edge green with point of yellow.

BIZARRE.—A striking variety, with leaf center of bright crimson and edged green and gold.

CHAMELEON.—Combining numerous shades of color in the leaf in such way as to form a specimen of great beauty.

CRIMSON BEDDER.—Purplish crimson.

DUNEIRA.—Crimson, with maroon center and scalloped light red edge. A fine, showy variety.

FIRE CREST.—Bright crimson, with slight golden yellow edge, blotch of deep bronze in center. Splendid.

GOLDEN BEDDER.—Color yellow. This is the best yellow coleus for bedding; deep gold in the sun.

GRACE ADAMS.—Green leaf with red crested edge. An attractive variety.

JAMES BRADSHAW.—A fine, showy variety with striped leaf showing colors of crimson and yellow.

JOHN PFISTER.—Like Anna Pfister in growth but bright crimson color; edged with gold.

MRS. F. SANDER.—Large, creamy white center, bordered with green; blotched crimson and purple; fine for pots.

PROGRESS.—Beautifully mottled red, green, and bronze. A charming combination of colors.

MRS. JOHN BOEHMER.—Rich maroon bordered with a golden band. Large, pointed leaf.

SUNSET.—Center of leaf brownish purple, shading to crimson; edge yellow.

TRAILING BEAUTY.—Of trailing habit. Serrated leaves of fiery crimson; zoned deep maroon and edged green.

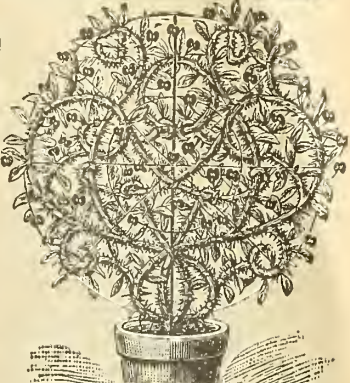
VERSCHAFFELTH.—The oldest, still one of the best; rich, velvety crimson.



NEW VARIETIES OF COLEUS.

CARPET COLEUS BED

Fifty choice plants selected by us in varieties to produce a beautiful bed of colors, prepaid for only \$2.00.



CROWN OF THORNS.

CROWN OF THORNS

EUPHORBIA.—A very curious and remarkable window plant. Strong growing plant that can be trained over any desired form. Bright scarlet flowers. An object of rare and striking beauty. Is easily grown. It grows wild in Judea, and it is said that it was from this plant that the crown of thorns was made which was worn by our Saviour, and it is therefore of special interest. Ea. 20c.

The ferns arrived here O. K. and they are fine, better than I expected. —Mrs. Frank Kasper, Beaver Dam, Wis. I received the plants in fine shape, for which I am very thankful and appreciate your kindness very much. —Mrs. H. A. Remanger, Halley, Oregon.



CHRISTMAS PEPPER

CHRISTMAS PEPPER

Surprisingly pretty house plant. A round, compact bush 12 to 15 inches in height with dark olive green leaves and covered with curious little heart-shaped fruits of bright colors—purple, white, yellow, orange and red on the same bush. Fruits are edible as small garden peppers. Each 15c.

CUPHEA

PLATYCENTRA.—(Cigar Plant.)—The old-fashioned cigar plant with narrow, tubular flowers of scarlet tipped with purple. Popular because always in bloom; bright and attractive. Each 10c.

CYPERUS

UMBRELLA PLANT.—Listed and described by us with aquatic plants illustrated on page 101. It is very successfully grown as a pot plant, but requires plenty of water. Each 10c, large 25c.

DRACENA

INDIVISA.—(Fountain Plant.)—Quite generally listed among palms. It is a decorative plant about two feet high, with slender, drooping, green leaves, long and narrow. Each 15c, large 25c.

ECHEVERIA

A little, succulent plant, commonly called "Old Hen and Chickens." Used in parks and cemeteries for ribbon beds and borders. Each 10c, dozen \$1.00.

ELECTRIC LIGHT PLANT

A very showy plant, belonging to the Cleome family, which blooms constantly from July until killing frosts. Desirable either for specimen plants or for bedding. Is four to six feet high. Each 10c, dozen 75c.



CYCLAMEN.

CYCLAMEN

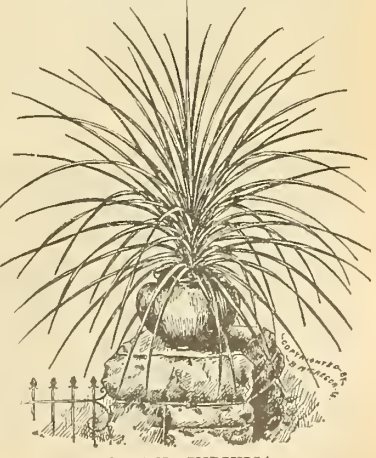
GIANT FLOWERED.—Most beautiful and decorative of pot plants for winter and spring blooming. Foliage broad, massive, graceful, of dark green, beautifully variegated with silver and rose. Immense, fairy-like flowers on long stems and produced in profusion for several months; quite fragrant. In assorted colors. Each 15c, extra large size 25c.

CRAPE MYRTLE

Very pretty shrub; hardy in the South; grown in large pots or tubs in this latitude and taken into cellar in winter. Produces a profusion of delicate, soft pink flowers. Each 15c, large 30c.

CENTAUREA

GYMNOCARPA.—(Dusty Miller.)—Dwarf, silvery foliated plant used largely for ribbon beds or borders. Ea. 10c, doz. 75c.



DRACENA INDIVISA

FERNS

FLUFFY RUFFLES.—(Scholzei.)—A new upright growing variety, darker and richer in color than any other fern in our list. Fronds are as finely cut as the Whitmani or Elegantissima varieties, and exceeds either of these sorts in robust, hardy growth. The vigor, habit and color of this fern are so far superior to ordinary sorts that it will delight every lover of fine ferns. Each 25c.

BOSTON FERN.—(Improved Sword Fern.)—This is a wonderfully healthy, rapid growing and graceful house plant which has been in great demand everywhere, and many people buy it in preference to the finest palms or rubber plants. Thrive in all rooms, gas or furnace heat does not seem to injure it. It is one of the most beautiful and useful of house plants, being of easy culture, and its sword-like fronds, on large specimens, attain the length of 5 to 6 feet, produced in bewildering mass, arching, curving and interlacing in every conceivable direction. Each 15c; large plants 25c and 50c.

ROOSEVELT.—An improved variety of Boston Fern, much more striking and attractive than the parent sort. It produces a greater number of fronds than the Boston, appearing more compact, bushier and handsomer. Fronds have undulating pinnae, giving them a wavy appearance not seen in any other fern. Very highly recommended by experts for its hardiness and beautiful appearance. It is our choicest recommendation of Boston Ferns for individual pot growing as an indoor decoration. Ea. 20c, large 50c.

TEDDY, JR.—A smaller fern than Roosevelt, but of same type and general characteristics. A fine, compact fern that will be popular because a fine specimen can be grown in much less space than any other of the Boston type. Each 20c.

WHITMANI.—Combining all the graceful plumpness and charm of Elegantissima, with additional features of shape, size and growth that give it distinction and added commercial value. Whitmani is of more dwarf growth, but equalizes matters by compactness, and a wider, stockier shape. The fronds, although even more fine-cut, are more erect and less liable to revert to the original Boston type. Each 20c; large 50c; extra fine specimens \$1.00.

ELEGANTISSIMA.—This is a sport from the well known Ostrich Plume fern in which the plummy peculiarity of the original form is even more distinctly developed, the side pinnae being again subdivided, making both sides of the frond equally beautiful, while at the same time the plant is of much more compact habit, growing only one-half as tall, but with fronds nearly twice as wide, making it a much more desirable plant for all purposes. They are quite rare. Each 15c; large plants 50c.

BABY'S BREATH.—(Gooden.)—An elegant small Ostrich Plume fern. Fully equal to the best of this type in plumpness and graceful form, but far more dainty and exquisite. The bright color, feathery fronds and elegant form make it a very notable specimen in any collection. A variety of recent introduction which gives promise of great popularity. Each 15c, large 50c.

ASPARAGUS FERNS.—Both the Asparagus Plumosus Nanus and Sprengeri, commonly known as Asparagus Ferns are illustrated and described on page 82. Price, either variety, each 10c; large plants each 25c.

OSTRICH PLUME FERN COLLECTION

BABY'S BREATH.—Dainty Ostrich Plume fern of finest habit.

ELEGANTISSIMA.—More delicate and finely divided than the above.

ROOSEVELT.—The compact, wavy type of the original Boston or Sword Fern.

WHITMANI.—The compact, wavy type of the Ostrich Plume varieties.

ONE EACH FOUR FINE OSTRICH PLUME FERNS POSTPAID TO YOUR ADDRESS FOR ONLY 50c.

DAINTY SMALL FERNS

JAPANESE FERN.—(Onychium Japonicum.)—A very graceful small variety growing in similar form to the well known Asparagus Fern. Each 15c.

MAIDEN HAIR FERN.—(Adiantum Cuneatum.)—Very popular. The most graceful and useful of all for cut flower work. Each 15c.

HOLLY FERN.—(Cryptogramma Falcatum.)—Rather broad, dark, glossy green foliage. Quite easily grown, very ornamental. Each 15c.

MOSS FERN.—(Selaginella Emilliana.)—Also called Lycopodium. Has delicate lace-like foliage. Fine for fern dishes and always beautiful. Each 15c.

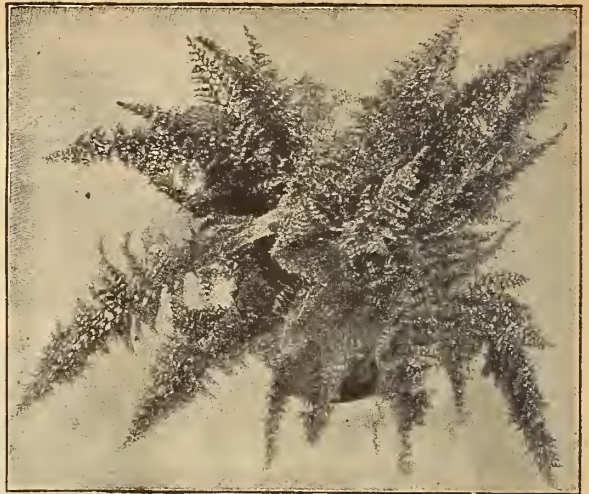
CRESTED FERN.—(Pteris Wimsetti.)—One of the most popular of the small ferns. Striking lanceolated foliage; upright growth. Each 10c.

DAGGER FERN.—(Aspidium Tsussimense.)—A miniature sword fern. Specially adapted to small ferneries or fern dishes. Each 15c.

SILVER FERN.—(Pteris Victoriae.)—One of the newer sorts with lovely foliage, each leaf of which has a silver variegation through the center. Each 20c.

DAINTY FERN COLLECTION

One each of the above seven fine table ferns, a most beautiful collection, only 75c.



FLUFFY RUFFLES FERN



ADIANTUM
CUNEATUM



ASPIDIUM
TSUSSIMENSE



ONYCHIUM
JAPONICUM



FROND OF ELEGANTISSIMA FERN



AIR PLANT

AIR PLANT

An exceedingly beautiful green, feathery, plummy moss, prepared from dried seaweed. Has every appearance of a most delicate fern and retains its beauty and fresh appearance for an indefinite period. Is much used in small baskets and fern dishes, usually containing two to four bunches. Our stock is far superior to the grade commonly sold. Per bunch 20c; 3 bunches for 50c.



NEW FUCHSIAS



These, when in full bloom, are the most graceful of all cultivated plants; nothing surpasses the beauty of well grown specimens. The most important points in the management of the Fuchsia is to keep the plants well watered and nourished. They should be kept away from excessive sunlight and heat. They respond splendidly to strong fertilizing.

PHENOMENAL.—(See Cut No. 1.)—Enormous flowers, a single one measuring 3 inches across; sepals are bright scarlet, rich purple corolla, very double, flaked with red. Grows upright, and with strong, vigorous trunk, making a handsome plant. Each 15c.

ROSAINES PATRIE.—(See Cut No. 2.)—Grand double white variety; should be in every home. Flowers are of enormous size, sepals bright carmine, with large, pure white, double corolla. Each 15c.

TRAILING QUEEN.—(See Cut No. 3.)—Of beautiful trailing habit. A well grown plant is a solid mass of beautiful foliage and flowers. Fine for hanging baskets. Bright, rich scarlet and purple flowers. Each 15c.

F. COPPEE.—(See Cut No. 4.)—Blooms of exceptionally large size with superb coloring. The tube and sepals are of bright, glowing crimson, while the corolla is of very rich violet purple, very double and widely extended. A strong, vigorous grower. Each 15c.

GUSTAV NADAUD.—(See Cut No. 5.)—Sepals very brilliant red, corolla double, purple. A giant flowered sort of unusual beauty. Each 15c.

STORM KING.—(See Cut No. 6.)—The standard contrasting variety with red sepals and double, white corolla. The most popular type. Ea. 15c.

BLACK PRINCE.—Of upright, robust growth and generally most satisfactory for the amateur, as it seldom fails to bloom profusely and grow to good form and symmetry. We once had a plant of this variety in our greenhouse that grew a perfect shaped shrub fully 7 ft. high, loaded with fully 2,000 blossoms at one time. Tube and sepals bright carmine, sepals large and broad with pale green tips; large, violet pink corolla. Ea. 15c.

ELM CITY.—Tube and sepals bright coral red; double, purple corolla; blooms all year. A lovely flower. Each 10c.

MONARCH.—By far the largest of the single varieties. Its immense blooms are a very dark purple. Each 10c.

SPECIOSA.—Greatly prized for its profuse blooming qualities. Sepals are more elongated than other sorts, and of soft, rosy pink color. Ea. 10c.

SUNRAY.—A novelty fuchsia because common varieties are wanting in the variegated foliage which adds so much to the beauty of Sunray. The colors of the sunset, clear yellow, golden bronze, and red, are combined in the most effective way to make a pretty plant. Flower is pink or deep rose sepals with bright carmine corolla. Each 20c.

FEVERFEW

LITTLE GEM.—Is a vigorous, strong growing plant bearing large clusters of unusually large flowers, which are pure snowy white without any yellow shading or center. Fine for bedding, or for cemeteries, producing a succession of bloom. Each 10c, dozen \$1.00.

FORGET-ME-NOT

Everyone loves the charming little Forget-Me-Not and it seems strange that it is not more often seen in our gardens. They are easily grown and will bloom freely and thrive year after year. Each 10c, dozen 75c.

FARFUGIUM

GRANDE.—(Leopard Plant.)—A beautiful ornamental foliage plant for planting in open border, or in shaded position; leaves 4 to 8 in. in diameter, of thick, leathery texture, dark green with bright yellow spots. Each 25c.

GENISTA

SHOWER OF GOLD.—A most desirable plant. The drooping branches are covered with delicate sage-green foliage and every twig is tipped with a long raceme of exquisite pea-shaped blossoms of a pure canary color, almost hiding the foliage. Each 15c.

GREVILLEA

SILK OAK.—One of the quickest growing of ornamental house plants. Easy to manage, grows rapidly and is pretty in all stages of its growth. With its long, drooping, silky foliage, it reminds one of a palm or fern. Young growths are light bronze color, tips covered with soft down resembling raw silk. Each 15c.

PHENOMENAL FUCHSIA BARGAIN

One Choice plant each of Phenomenal, Rosaines Patrie, Sunray, Black Prince and Speciosa, giving a wide range of types and colors which will delight every flower lover.

FIVE PLANTS, POSTPAID, FOR ONLY 50c.



GREVILLEA, OR SILK OAK

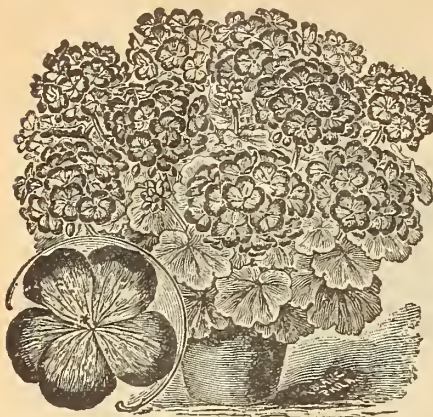


Farfugium Grande.

OUR SPECIAL OFFER ON THIS PAGE IS A GENUINE BARGAIN FOR PLANT LOVERS. YOU SHOULD NOT FAIL TO PROFIT BY IT.

SINGLE GERANIUMS

Geraniums are the most easily grown and satisfactory of all flower plants and only the rose can vie with them in popularity. We have about 200 varieties growing at our place and test a large number of new sorts every year. After careful comparison we have selected the following as the best:



AUREOLE

GEN. LEONARD WOOD.—One of the best of the single geraniums. Plant strong and vigorous. Flower bright carmine crimson, with white center. The general effect is very beautiful. Each 15c.

MRS. E. G. HILL.—A most distinct and pleasing shade of salmon with light shading at the center. Florets are extra large, and the plant is of splendid habit and vigorous growth. It is a standard variety because of excellence. Each 15c; doz. \$1.50.

PAMELA.—An English round-flowered sort of unusual strength and vigor. Handsome and distinct. Flowers have pure white center, shading to a distinct margin of crimson rose. Very large trusses of large round flowers are produced freely. Each 15c.

PHOEBE.—A dwarf, compact growing sort, extremely free flowering, seemingly every joint producing a spike of bloom. Color deep rose. It is its free flowering habit that renders it so popular, although the color is also an attractive feature. Each 15c.

RICHMOND BEAUTY.—A magnificent new single variety. Color crimson scarlet with large white feather in two upper petals. Each 15c.

RADIUM.—Most magnificent, well formed flowers, produced in enormous trusses in the greatest profusion. The color is a brilliant shade of orange scarlet; very effective when massed in beds; foliage large and of fine texture; habit splendid, luxuriant, branching, and robust. Certainly one of the best. Each 15c.



SOUVENIR DE MIRANDE

MAXIME KOVALEVSKI.—A brilliant orange. A fine growing plant and probably the best of the single varieties for pot culture. The flowers are round, of splendid form. A novelty of great beauty. Each 20c.

SOUVENIR DE MIRANDE.—Handsome and most satisfactory. Nicely formed, round florets; upper petals cream white, with distinct salmon rose border; lower petals salmon rose streaked with pure white. Free flowering; splendid blooms. Each 15c.

TELEGRAPH.—A splendid flower. Mammoth dark green foliage with heavy chocolate zone; enormous trusses of beautiful deep orange cerise. The general effect of color is very pleasing. Plant is very desirable in vigor and habit of growth. Each 15c.

YVETTE PROST.—Fine large flowers and strong trusses. Color violet rose shading to white center. A very striking and beautiful blossom. Good habit, vigorous grower. One of our Marvel Geraniums offered on the front cover of this catalogue. Each 15c.

ALICE OF VINCENNES.—A charming novelty which has a border of intense scarlet forming a band around the body color of rosy pink, heavily veined scarlet; center white. Each 15c.

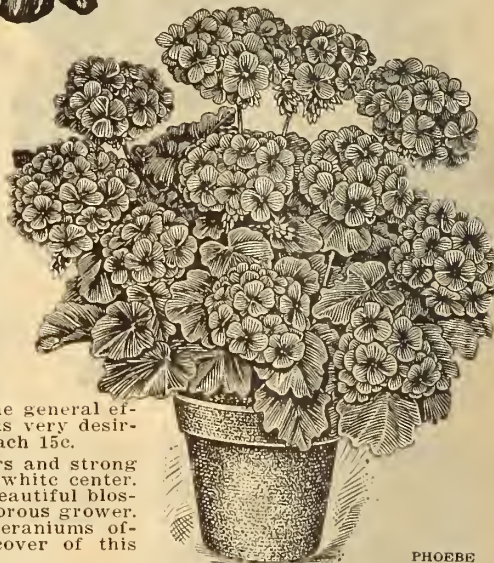
BIRD'S EGG.—(Abel LeFrance.)—Our magnificent geranium novelty, offered in collection on the front cover of this catalogue. Flowers very large, perfect form. Ground color white, with rosy dots on lower petals. Foliage is slightly zoned. Grows finely. Each 20c.

BON TON.—One of the new scarlet sorts of special merit. Dwarf grower and very free flowering. Has beautiful foliage with light shading. Each 20c.

BARIOLEGE.—Dwarf, vigorous growing and free flowering variety. A beautiful composite flower. Color is rose, lower petals blotched crimson, the upper are blotched white. Each 20c.

BLACK PRINCE.—A very dark, rich, velvety crimson. The nearest black known in single geraniums. Each 10c.

SNOW QUEEN.—The grandest single pure white geranium in existence. It is of vigorous and healthy growth; blooms profusely, plant being loaded with immense trusses of bloom; do not turn pink even in sunny weather. Each 15c.



PHOEBE

SEE INSIDE FRONT COVER FOR SPECIAL GERANIUM OFFER.

TRICOLOR GERANIUM BED

One dozen each of three shades of color, consisting of standard sorts that will stand the sun and produce continuous bloom all summer. We will send one dozen double white, one dozen double pink and one dozen double red, we to choose the varieties, but we will give you only such as will prove satisfactory. Planted closely, the pink in the front row, white next, and the red forming the background, you will have a gorgeous bed of flowers.

36 plants as above from 2½-inch pots, \$2.25, postpaid, or \$1.80 by express, not prepaid. The same in larger plants from 4-inch pots, by express, not prepaid, \$4.00.

HOUSEHOLD GERANIUM COLLECTION

A selected list of choice single geraniums. One plant each of Black Prince, scarlet; Mrs. E. G. Hill, salmon; Maxime Kovalevski, brilliant orange; Snow Queen, pure white; Alice of Vincennes, pink; Pamela, rose; a half dozen different shades, only 60c.

FAVORITE DOUBLE GERANIUM COLLECTION

LaFavorite, Beauty Poltevin, Double Dryden, S. A. Nutt, Apple Blossom, Trego and Mrs. F. Perkins.

One each of the above, giving a range of colors in the standard sorts which are universal favorites, for 60c, postpaid. This collection from 4-inch pots, large plants, by express, not prepaid, for only \$1.00.



BARIOLEGE

DOUBLE GERANIUMS

ANNA BROWN.—A new variety of deep cerise pink color, with fine, large truss. Extra free bloomer and fine bedder or pot plant. Ea. 20c.

APPLE BLOSSOM.—(Mrs. Lawrence.)—Shining salmon, tinted white. Free flowering; dwarf, compact habit. Extra fine as pot plant. Ea. 15c.

ALPHONSE RICARD.—Bright vermilion scarlet; trusses strong and upright. Free bloomer and of special merit for both pots and bedding. Each 10c.

ALPINE BEAUTY.—A most beautiful semi-double variety with pure white flowers. One of the finest in the list, both in habit of growth and freedom in blooming. One of our Marvel Geraniums offered in special bargain collection on front cover. Each 15c.

BEAUTY POITEVIN.—A great favorite and conceded one of the best semi-double bedding sorts. Color salmon pink, shading to clear salmon in the center. Each 15c.

BERTHA DE PRESLEY.—A beautiful light pink. Stands the sun without fading. Will be sure to give satisfaction, either for beds or in pots. Each 10c, dozen \$1.00. By express, not prepaid, per 100 \$5.00. Large plants from 4-inch pots, per dozen \$1.50.

BRIGHT SPOT.—A bright, dazzling scarlet. The most flaming color among the solid reds. Fine for bedding. Each 15c, dozen \$1.50.

DAGATA.—One of the finest new pink varieties of Bruanti. The plants are dwarf, robust growers and compact. Magnificent large flowers of mauve pink on immense trusses. Each 15c, dozen \$1.50.

DAYBREAK.—The finest pink geranium offered in our catalogue.

We commend it as a bedder or as a specimen plant for home collection. See special collection offered on front cover. Each 15c, dozen \$1.50.

DOUBLE DRYDEN.—Color combination very attractive. Center coral white, shading lilac to edge of petals, which are soft, glowing crimson. Choice as a pot plant. Ea. 15c.

GLORY DE FRANCE.—A large round flowered double geranium of waxy appearance. Petals white, veined with carmine rose. Each 15c.

EL CID.—This is a particularly choice sort for bedding. The flower is double, of fine form and borne on strong trusses. Color is bright scarlet, a rich, dazzling shade. Each 10c; doz. \$1.00. By express, not prepaid, 100 for \$5.00.



ALPINE BEAUTY

JEAN VIAUD.—Color a bright, rosy pink; distinct white blotch in center. Large, semi-double blooms on strong trusses, above the foliage. Each 15c.

IMPROVED LA FAVORITE.—What S. A. Nutt is among dark crimson, La Favorite is among whites; the best double white geranium. It is a strong grower and a profuse bloomer. Each 10c, doz. \$1.00. By express, not prepaid, 100 for \$5.00. Large plants from 4-inch pots, per dozen \$1.50.

LEOPOLD BOUVILLE.—Composite semi-double form. Color is bright sulfureo red, richly shaded bright carmine and purple; distinct white center. Ea. 15c.

MARVEL.—A bright scarlet; larger than S. A. Nutt, and counted one of the best bright red geraniums. Fine for mass bedding or to add the necessary bright red in mixed beds. Splendid grower; free bloomer. The bright red variety in our Marvel Collection on the front cover of this catalogue. Each 15c.



LA FAVORITE

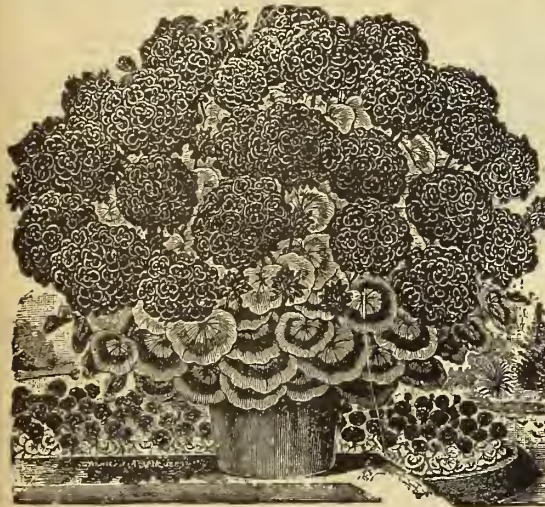
MARQUE DE CASTELLANE.—Flowers are very large, perfect in form and borne in large trusses. The color varies from a brilliant cerise to bright cherry red, with brilliant carmine shadings. Ea. 15c.

MRS. F. PERKINS.—A double pink sort of unusual merit. Sturdy habit, free bloomer, and stands the summer sun without fading. A standard sort and very popular. Each 10c, dozen \$1.00.

SCARLET BEDDER.—Type of S. A. Nutt, but color is brighter and is preferred by some planters. The name indicates its particular value, and we recommend it. Each 15c, dozen \$1.50. By express, not prepaid, 100 for \$5.00.

S. A. NUTT.—The best crimson. Takes the lead as a bedding variety, being used in the largest parks and public grounds of the country in preference to all others. Its dense, compact growth, profuse blooming qualities and sun-proof constitution combined give it the prominence as a bedder it has attained. As a pot plant it cannot be excelled. We sell thousands for borders and large beds. Each 10c, doz. \$1.00. By express, not prepaid, 100 for \$5.00. Large plants from 4-inch pots, by express, per dozen \$1.50.

TREGO.—Strong growing, most free flowering. Robust, compact habit, regular in form. Trusses of immense size, produced in profusion and borne upon stiff stems above the foliage. Florets often measure 2½ inches in diameter, semi-double, brilliant, almost dazzling scarlet color. Each 15c, doz. \$1.50.



SCARLET BEDDER



GLORY DE FRANCE

GERANIUMS BY THE HUNDRED

Customer to pay express charges.

Fifty or More at the One Hundred Rate.

The customers can select from varieties named in this special offer in such numbers of each as wanted. If you cannot use 50 or 100, perhaps you can get a neighbor to take part of order. Descriptions under name as placed in the list. No other varieties are included in this special offer but the five varieties named here.

S. A. NUTT, crimson double; BLACK PRINCE, crimson single; LA FAVORITE, white double; APPLE BLOSSOM, pink double; MADAM SALLEROL, for edging.

Just the varieties for outdoor bedding for single or mixed color effects, and in this offer you have the best possible opportunity to fill your beds at reasonable cost.

From 2½-inch pots, \$5.00 per hundred.

From 4-inch pots, \$10.00 per hundred.

NOTICE THE SPECIAL OFFER OF GERANIUMS ON THE FRONT COVER. A FEW OF OUR CHOICEST KINDS IN A BARGAIN.

FANCY LEAVED GERANIUMS

GRACE PAGE.—A standard bedding variety which is identical with the old standard dark crimson S. A. Nutt geranium except in foliage, which is beautifully variegated. Nothing in geraniums can surpass the beauty of this variety with its large trusses of double crimson flowers against their variegated background. Of vigorous growth and an exceedingly profuse bloomer. Leaves are of dark green, and each bears a border of pure snowy white. Well adapted for pot culture. Each 20c, per dozen \$2.00.

MRS. POLLOCK.—Magnificent. Green leaf disc, overlaid by beautiful bronze red, belted with bright crimson, outwardly margined with golden yellow. Very distinct in its markings, and one of the most satisfactory of fancy geraniums. Each 15c.

WM. LANGGUTH.—This new silver leaved geranium is a beautiful variety. The plant is short, stocky growth, and the beautiful deep green leaves are bordered with a broad, pure snow white band, so that it is handsome even when not in bloom. It is, however, free flowering for a fancy foliage variety, and the flowers are double. Clusters are extra large and a bright red color, showing magnificently against the white foliage. Each 15c.

MAD. SALLEROL.—A very compact variety of silver leaf geranium. Fine for massing or bordering; thrifty; leaves green, edged with white. Has a peculiar manner of growth which renders it of special value for edgings or ribbon work. Each 10c, dozen \$1.00.

CRYSTAL PALACE GEM.—Yellow, with green disc; fine bedder. One of the oldest of the fancy leaved sorts, but popular because of the brightness of the foliage. Each 15c.

MOUNTAIN OF SNOW.—Finest of this class for ribbon lines or massing; center of leaf bright green, margin broadly marked silver white; single scarlet flowers. Each 15c.

DISTINCTION.—Round green leaves with clear black circle. This dark foliaged sort is fine in contrast planting among the silver leaved varieties. Each 15c.



WM. LANGGUTH GERANIUM

SCENTED GERANIUMS

LADY PLYMOUTH.—A beautiful variegated variety of the Rose Geranium. Propagates slowly and the demand usually exceeds the supply. Each 20c.

NUTMEG.—Small leaves with nutmeg perfume.

OAK LEAVED.—Beautiful foliage resembling oak leaves, black center with green border.

ROSE SCENTED.—The broad leaf. This is the most popular of scented geraniums.

SKELETON LEAVED.—Leaves very finely cut, rose fragrance.

BALM.—Delicious balm fragrance.

LEMON.—A nice little plant of bushy growth with delightful lemon fragrance to the leaves.

MRS. TAYLOR.—A scarlet flowered rose geranium. The blooms resemble the pelargonium, but are smaller and of bright scarlet color. Blooms constantly. Each 15c.

PEPPER.—Strong fragrance, moderate size leaf, easily grown.

PEPPERMINT.—A rare variety with thick "hairy" leaves and refreshing peppermint fragrance. It is one of the most popular of the scented geraniums. Each 20c.

Any of the above sweet scented varieties 10 cents each \$1.00 per dozen, except where noted.

IVY LEAVED GERANIUMS

CAESAR FRANCK.—Double as a Crimson Rambler rose. Specialists claim this to be the best Ivy Geranium. Color soft, rich crimson scarlet, shaded rose at base of petals. Foliage clean, waxy green. Vigorous, quick growing and strong. Finest for baskets, vases, etc. Each 15c.

JOS. WARREN.—A very beautiful flower of distinct color. Large flowers of composite lilac tints. Each 15c.

MRS. HAWLEY.—Flowers semi-double, bright pink with dark blotch on upper petal. An excellent growing variety. Each 15c.

ETIOLENT.—Beautiful scarlet; extra large flowers. Very double and will be satisfactory. Each 15c.

EDEN MARCHI.—Handsomest of the ivy leaved sorts. Has enormous sized flowers; color beautiful salmon rose, slightly shaded violet. It is an improvement on the Charles Turner. It is a strong, free grower, producing flowers at almost every joint which are full double and perfect in form. Each 15c.

CHARLES TURNER.—Very double, and is without doubt one of the handsomest ivy geraniums ever introduced; florets two and a half inches across. The color is a deep, bright pink, approaching scarlet in color. Each 15c.

JEAN D'ARC.—Very large and finest white in existence. Perfectly double, white as snow; flowers literally cover the plant when in full bloom. Each 15c.

P. CROZY.—A hybrid between the Zonales and Ivies. Color soft, bright scarlet with veinings of maroon. Each 10c.

CORDEN'S GLORY.—Fine, bright scarlet; large, bold, full flowers; constant bloomers; one of the very best. Each 15c.

ALLIANCE.—A beautiful novelty. A hybrid between an ivy and a zonal geranium. Flowers large, semi-double and produce fine trusses. Exquisite shade of delicate lilac white, upper petals feathered and blotched bright crimson rose. Each 15c.



HAPPY THOUGHT.—A tricolored geranium with dark green foliage; creamy white center with dark band about the light zone; flowers bright scarlet. Each 15c.

GOLDEN CIRCLE.—Green foliage; golden yellow edging; flower scarlet. Each 15c.

MRS. PARKER.—A grand new silver leaved variety with double pink flowers. A unique novelty. It is a good bloomer and foliage is fine combination in the markings of green, bronze and white. Each 15c.

HAPPY THOUGHT COLLECTION.—Happy Thought, Golden Circle, Mad. Sallerol, Crystal Palace Gem, Mountain of Snow, Mrs. Pollock. Six of the finest fancy leaved sorts in splendid contrast for only 60c, postpaid.

FRAGRANT COLLECTION.—Nutmeg, Rose, Balm, Pepper, Lemon and Skeleton. A half dozen of the sweetest of the scented varieties for only 50c, postpaid.

IVY LEAF COLLECTION.—Caesar Franck, Jean DeArc, Chas. Turner, Eden Marchi. One each of the four choicest ivy leaf varieties for only 50c, postpaid.



IVY GERANIUM—EDEN MARCHI. (One-half natural size.)

HELIOTROPE

These are universal favorites on account of their delightful fragrance. They bloom equally well as bedding plants in summer, or as pot plants in the house during the winter.

BUISSON FLEURI.—Semi-dwarf. Very large trusses of large flowers. Color violet; star-shaped eye. Each 15c.

PRINCE CHARMANT.—Beautiful foliage and large trusses of mauve blue flowers. A novelty of merit. Each 15c.

LORD ROBERTS.—Very large trusses of blue flowers. Each 15c.

JERSEY BEAUTY.—Very large trusses of blue flowers. Each 10c.

SNOW WREATH.—Superb large clusters deliciously fragrant flowers, nearly white. Ea. 15c.

HELIOTROPE COLLECTION

The fragrance of these lovely blossoms will perfume the whole house. One each of the five varieties named above for 50c.

HIBISCUS

GRANDIFLORA.—A large, shrub-like, woody plant bearing immense single red flowers. Each 15c.



PEACHBLOW HYBISCUS



NEW MAMMOTH FLOWERING HELIOTROPE

HARDY HYDRANGEAS

(Described as shrubs on page 113.)

ARBORESCENS.—The new Snowball Hydrangea. Each 15c, large plants 35c.

PANICULATA GRANDIFLORA.—The well known hardy sort. Each 10c, large plants 30c.

POT HYDRANGEAS

OTAKSA.—A Japanese variety used extensively for Easter decorations. It produces enormous trusses of intense pink flowers. Make excellent specimen plants for the porch or lawn. Blooms the entire season. Each 15c, large plants 50c and 75c each.

THOMAS HOGG.—Its immense trusses of flowers are at first slightly tinged with green, and change to the purest white. Each 15c.

FRENCH HYDRANGEAS

AVALANCHE.—Splendid large white flower. Easy to grow; remarkably free flowering. Each 15c.

LA LORRAINE.—At first pale rose, turning to bright pink. Large blooms. Each 15c.

MME. E. MOCILLERE.—White; extra size. Awarded medal at National Flower Show at Boston. Each 20c.

MOUSSELINE.—Light amber pink turning brighter as the flower ages. Of extra size. Each 20c.

E. G. HILL.—One of the finest of pot hydrangeas. Superb in every way. Color white. Each 20c.

FIVE FRENCH HYDRANGEAS 75c, POSTPAID.

LEMON VERBENA

A universal favorite, invaluable for its fragrant leaves. They will retain their fragrance for years when dried. Very popular with the ladies for storing with handkerchiefs or other apparel to which it imparts in some measure its delicate fragrance. A splendid plant for hedges and as a plant for the garden or for pots it is equally valuable, its fine sprays of foliage and delicious fragrance making it desirable for bouquets, etc. In good rich soil each plant will cover a space of three to four feet in diameter. Each 10c; doz. \$1.00.



NIGHT BLOOMING JASMINE



WEEPING LANTANA

IMPATIENS

SULTANA.—Beautiful plant producing waxy, bright flowers of rosy scarlet almost continuously, winter and summer; suitable for pot or garden culture. Compact growth; almost a perpetual bloomer. Each 10c.

HOLSTIL.—Strong, robust growing sort with brilliant vermilion colored blossoms. One of the best. Each 15c.

PINK BEAUTY.—Well named, the color being a most beautiful shade of clear pink. Each 15c.

WHITE LADY.—Fine pure white; completes list and adds necessary shade in desirable contrast. Ea. 15c.

IMPATIENS COLLECTION.—One plant of each of the above four fine only 40c, postpaid.

JASMINE

MAID OF ORLEANS.—A beautiful plant of easy culture, fine grower, good bloomer, very fragrant and of elegant waxy white appearance. Each 15c.

NIGHT BLOOMING.—(Cestrum Parquii).—World famous variety, producing greenish white flowers incessantly. Strongly fragrant after dark. Ea. 15c.

CAPE JASMINE.—(Gardenia Florida).—Pretty low growing evergreen shrub. Thick, glossy green leaves, waxy white double flowers of delicious sweetness; valued for winter flowering in house or conservatory. Each 20c.

GRANDIFLORUM.—An old favorite variety and most satisfactory. Valuable for winter blooming. Flowers white, star-shape. Fragrant. Each 15c.

REVOLUTUM.—A climbing variety with deep yellow single flowers and glossy foliage. A beautiful plant and readily grown. Each 15c.

One each of the five Jasmines named above, only 50c.

JERUSALEM CHERRY

An old-fashioned plant grown for its showy, berry-like fruits which remain on plant for a long time. Used generally in window gardening but will grow quite large if given room. Each 15c.

LANTANA

We consider this a most satisfactory plant for outdoor bedding and blooming all winter in the house. Flower resembles the Verbena, borne on a woody, bush-shaped plant. The flowers embrace all shades of orange, sulphur, lilac, red, pink, white, etc., changing from one distinct color to another as they increase in age and development.

JAVOL.—The best, largest and freest blooming white variety. Everyone will be pleased with it. Each 15c.

PERFECTION.—The only Lantana having variegated foliage. Is unusually handsome. Outside row of florets are pink with rose center; inside florets very light sulphur yellow; orange center. Blooms freely. Each 10c, dozen \$1.00.

GOLD CUP.—A dwarf, compact grower. Bears very pretty lemon yellow flowers with golden yellow center. Recommended for fine form and masses of bloom. Ea. 10c.

WEEPING.—A beautiful trailing variety; is very desirable for planting in hanging baskets, vases, pots or open ground. Bears an immense profusion of lovely clear pink flowers from early summer until late fall. Everyone delighted with it. Ea. 15c.

RADIATION.—Semi-dwarf. Color brilliant red with orange yellow center. Distinct and beautiful blending of color. Each 15c.

AMIEL.—Semi-dwarf, very compact; fine bloomer; umbel and floret fine size. In color reddish orange, yellow center. Of fine form and a mass of bloom. Each 10c.

VERSICOLOR.—When first open flower is cream yellow with red center. Cream gradually changes to pink, but the flower is fine at all times. Each 10c.

Radiant Lantana Collection

RADIATION, GOLD CUP, AMIEL, PERFECTION and WEEPING LANTANA, one each of the fives for only 50c, postpaid.



PANSY GERANIUM

Beautiful flower belonging to the Pelargonium class. Flowers are of medium size and have white throat. Each petal is shaded toward the center with a rich lavender pink and a dark maroon blotch in the center. Of easiest growth, dwarf in habit and literally covered with flowers, and as it requires little or no attention it is invaluable as a window plant. Colors and markings most extraordinary. Ea. 15c.

PELARGONIUMS

Commonly known as Lady Washington geraniums, and the improved large flowering sorts are undoubtedly the most beautiful of all geraniums.

EASTER GREETING.—New everblooming Pelargonium. This variety is remarkable for its early and free flowering habit, and it is the first variety introduced which continues to bloom throughout the summer and fall months. Its flowers are of large size, a bright amaranth red, each petal marked with a large black blotch. Each 20c, dozen \$2.00.

MAD. VIBERT.—Very beautiful, large flower with black-maroon blotches, bordering fiery red, and the entire flower being edged with rose. A very vigorous grower and free bloomer. Each 20c.

CAPTAIN RAIKES.—A grand ruffled or fringed variety with very large flowers borne in large, finely shaped trusses. In color bright red with light center, heavy maroon blotches in upper petals. Each 20c.

MME. THIBAUD.—White, richly blotched rose. The upper petals marked crimson with large white center. Petals are heavily ruffled. Each 20c.

LADY WASHINGTON COLLECTION

One each of the above fine Pelargoniums, postpaid, for 60c.



FANTASIA
DOUBLE PETUNIA

pink in this flower, the general effect is a bright, pleasing pink. Each 15c.
SNOW QUEEN.—Elegance and purity are most strongly conveyed by this lovely flower. A never-ending succession of pure white flowers. Each 15c.

PALMS

The most elegant and highly decorative of all plants and the low prices at which they are now offered place them within reach of all. Following are most desirable for ordinary indoor culture.

LATANIA BORBONICA, or Fan Palm.—One of the most popular varieties grown, prized especially for its beautiful large fan-shaped leaves of deep glossy green. The character leaves appear the second year. Each 25c.

KENTIA BALMOREANA.—This is considered one of the hardiest and best in cultivation. A rapid grower. Ea. 25c.

ARECA LUTESCENS.—A truly graceful and beautiful palm. Strong, upright grower with long, finely cut leaves. Easy to grow and very satisfactory. Each 25c.

PHOENIX CANARIENSIS.—A popular sort and will be found a desirable member of the palm collection. The leaves are feather-like. Each 25c.

KENTIA FOSTERIANA.—A fine variety of the Kentia class. Vigorous and will prosper with ordinary care. Ea. 25c.



LATANIA BORBONICA PALM PALM COLLECTION

One each of the first five stately palms for \$1.00, postpaid. We can furnish fine, large specimen plants of the Kentia class by express, not prepaid, at \$1, \$2 or \$3 each, according to size.

PLUMBAGO

CAPEENSIS.—There is no plant in our greenhouse that has caused more exclamations of delight than these beautiful, heavenly blue Plumbagos. They are most excellent pot plants, flowering freely at all times of the year. Flowers are borne in large clusters and are exceedingly beautiful in color. Of very easy culture, growing in any situation freely as geraniums. Ea. 15c.

CAPEENSIS ALBA.—The white variety of the above, with which it is identical except color. Each 15c.

PRIMROSE

MEXICAN.—Perpetual bloomer. It has blossoms 2 to 3 inches across, of beautiful colors. Each blossom keeps perfect many days before fading and when it droops others are out to take its place. Each 10c.

OBCONICA.—A lovely perpetual blooming primrose. Flowers are of rose lilac shading white. Each 15c.

CHINESE.—Most popular flower for winter blooming. Our cut gives an idea of its wondrous beauty. Flowers are all shades of color; distinct and beautiful markings. Each 15c.

THE BABY.—(Prinula Forbesi).—Forms a dense rosette of fleshy leaves from which spring flowering stems, 12, 15 and even 20 inches tall, supporting whorls of dainty flowers of a delicate rosy lilac with eye of pale gold; not more than a half inch in diameter, but produced abundantly. Each 10c.

ONE EACH, 4 PRIMROSES, 40c.



EASTER GREETING
PELARGONIUM



Peperomia.

PEPEROMIA

SILVER STRIPED.—A beautiful ornamental basket or pot plant for the home. Grows vigorous and thickly massed. The leaves are wax-like, thick and fleshy, and distinctly variegated white and green. Easily grown and thrive in living rooms. Each 15c.

DOUBLE PETUNIAS

Extremely popular because of striking contrasts in the colors of each flower and because they are always in bloom. Difficult to grow from seed as they produce only a percentage of double blossoms, while if plants are purchased they will invariably prove satisfactory.

CLIO.—A splendid shade of purple. Flowers extra size, of nearly solid color and extremely striking appearance. Each 15c.

FANTASIA.—Handsome double white and purple petunia. Striking variegation. It is really beautiful. Each 15c.

PINK BEAUTY.—Although many shades of pink in this flower, the general effect is a bright, pleasing pink. Each 15c.

SNOW QUEEN.—Elegance and purity are most strongly conveyed by this lovely flower. A never-ending succession of pure white flowers. Each 15c.



CHINESE PRIMROSE

MARGUERITE DAISY

WHITE.—A French improvement on the old White Marguerite which has for years been so popular. Is much larger and will produce ten times as many flowers. Each 10c, dozen \$1.00.
BLUE.—(Agatha.)—A strikingly beautiful flowering plant, producing abundance of clear, sky-blue flowers. Plants are fairly loaded with flowers, which are very desirable for cutting. Each 10c.
MRS. F. SANDER.—A superb new variety of double white Marguerite, so lovely as to be a firm favorite wherever known. Owing to continuous, free blooming habit and beautiful lasting blooms on long stems, is peculiarly adapted for beds or for use as cut flowers. Ea. 15c.
SOLIEL D'OR.—A very popular sort with flowers of a very pretty canary yellow color. It blooms freely and continuously. Each 10c.
QUEEN ALEXANDRA.—A great improvement on the White Marguerite, having larger flowers, which are produced in greater abundance, many flowers coming perfectly double. Each 15c, doz. \$1.25.

PANSY PLANTS

Pansy plants are quite a specialty with us and we sell immense numbers of them every year. Our plants are grown from the very best quality of seed and are strong and vigorous and have beautiful, large, velvety flowers of all shades and colors known in pansies. Extra large, strong plants of **American Giant** and **International Mixed** at 50c per dozen, 4 dozen for \$1.50, postpaid. **Choice Bedding Mixed**, dozen 30c, 4 dozen \$1.00, postpaid.



INTERNATIONAL MIXED PANSIES

PONDEROSA LEMON

Nothing has ever caused half the commotion that this wonderful lemon has. It is a true ever-bearing variety. On a plant six feet high no less than eighty-nine of the ponderosa lemons were growing at one time. It was a beautiful sight to see. The tree was blooming and at the same time had fruit in all stages of development, from the size of a pea to the ripe fruit, showing it to be a true ever-bearer. Blossoms waxy white and as fragrant as orange blossoms. Fruit has been taken from the tree weighing over four pounds. The lemons have a very thin rind for such large fruit. It is the juiciest of all lemons, makes delicious lemonade, and for culinary purposes unexcelled. It is not uncommon to make twelve pies from one lemon. It fruits when quite small and makes a lovely house plant. It fruits freely the second year. Strong plants ea. 15c, postpaid. Large two-year-old plants 50c each, by express, not prepaid.



SURINAM DWARF CHERRY



PONDEROSA LEMON

TROPICAL FRUIT BARGAIN.

Everyone is interested in the manner of growth of the tropical plants, and we offer above some of these which are suited for house culture, believing they will be popular.

Ponderosa Lemon, Otaheite Orange, Surinam Cherry and Strawberry Guava.

ONE STRONG, THIRTY PLANT OF EACH OF ABOVE FOR ONLY 55c, POSTPAID.

SURINAM CHERRY

A very ornamental plant at all times, as both flowers and fruits are attractive in color shades. Fruits are cherry red color and are useful and desirable for culinary purposes. Growth of plant is shrub, like orange and lemon listed on this page, and readily grown in pots. Each 20c.

STRAWBERRY GUAVA

A useful and ornamental pot plant; wonderfully productive and will prove equally popular with the lemon and orange listed on this page. Has dark, shining green foliage, with fruits of striking claret shade, about the size of a hulled walnut. Fruit is used for dessert and makes a most attractive jelly. It will have buds, blossoms and fruit in various stages of development on the plant at one time. Each 20c.

We will please you with the strong, thrifty plants we send to customers.



STRAWBERRY GUAVA

OTAHEITE ORANGE

An extra fine plant, with glossy green leaves, the true fragrant orange bloom, and abundant little bright oranges that will hang on the little bush like balls of gold for six months after they are ripe. With good culture they are never out of fruit from one year's end to another, and at least two-thirds of the time are in flower also. In beauty, grace and fragrance there is nothing like its delicate, leafy sprays of bloom. Each 15c. Large size, by express, not prepaid, 50c.

OLEANDER

These old-fashioned shrubs are becoming popular again. No plant makes more handsome specimens in tubs for verandas or in the yard. Flowers are usually double when mature.

ROSEA.—Large pink flowers, borne profusely. A popular sort. Each 25c.

LILLIAN HENDERSON.—Flower pure white; fine, sturdy plant. Each 25c.

LUTEA.—The comparatively rare yellow flowered variety. Each 25c.

One plant each of the three colors, 60c.



OTAHEITE ORANGE

RUBBER TREE

(Ficus Elastic.)—This is the true rubber tree from which is secured the rubber of commerce. Grows slowly in temperate climate, and under artificial conditions, and is adapted for house or conservatory. Highly valued everywhere for their tropical appearance. Leaves very large, thick and leathery and of a beautiful shining green color. It endures the dry air of living rooms remarkably well. Everybody likes it. They are difficult to propagate and will remain high in price. Each 50c, postpaid. Larger sizes \$1 and \$1.50, by exp., not prepaid.

SALVIA

MRS. CHAS. N. PAGE.—One of the finest bedding plants; completely covered during summer and autumn with long spikes of dazzling scarlet flowers; blooms until frost. Each 15c, doz. \$1.50. Large size from 4-in. pots, each 20c, doz. \$2.00.
IMPROVED SPLENDENS.—Large, tall and fine, bright crimson flower and dark, rich green foliage. Each 10c, doz. \$1.00.
SNOWSTORM.—A white flowered, tall growing sort. A few among a bed of scarlet salvias are unique. Ea. 10c, doz. \$1.00.
PURPLE PRINCE.—A beautiful purple shade of this popular flower. Fine for mixed bed. Each 10c, dozen \$1.00.
SILVER SPOT.—Foliage green, spotted clear white; flowers bright scarlet. An attractive bedding plant. Ea. 15c, doz. \$1.25.
ALFRED RAGANEAU.—An improved splendens type somewhat more dwarf in growth, surpassing the old type in vigor and beauty. Each 15c, dozen \$1.50.

ONE PLANT EACH, SIX VARIETIES OF SALVIA, 60c.

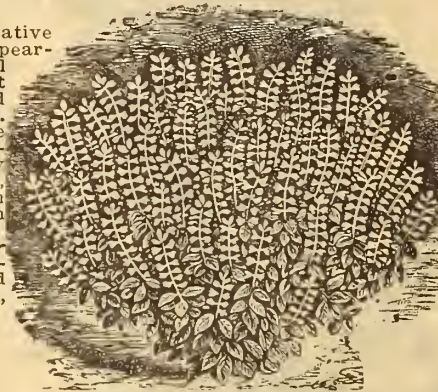


SANSEVERIA

SANSEVERIA

ZELANICA.—There is scarcely a decorative plant listed that is more striking in appearance, and certainly none other that will stand as much downright neglect. It will grow in a dark, cool room or stand on the mantel in a heated sitting room. Will stand gas or dust and requires little water yet remains thrifty as ever. Singularly beautiful, as well as easily grown. Erect, rigid, sword-like leaves, which are thick and leathery, dark green color, beautifully striped crosswise with white. Each 15c, large plants 40c.

The plants arrived last week and those received today are just as ordered and reached here in fine condition.—Mrs. Alex Robinson, Lencia, Colorado.



MRS. C. N. PAGE SALVIA

STEVIA

SERRATA.—A pretty flowering plant. Is largely grown by florists in pots for blooming in the fall and winter. Plants are of upright growth, 18 inches in height, producing numerous sprays of small white florets of delightful fragrance. Not hardy and therefore should be potted in the fall for winter blooming. Each 15c.

VARIEGATED.—A beautifully variegated green and white leaved variety of Stevia of great value for ribbon beds and borders. Ea. 15c, doz. \$1.25.

THE TWO STEVIAS FOR 25c.

SWAINSONIA

WHITE.—Beautiful new climbing plant. The habit of growth is extremely graceful, and a plant trained up at the side of a window or on a trellis presents a lovely sight of light green, feathery foliage, and a splendid profusion of pure white sprays of flowers resembling Sweet Peas in form. Easily grown. Each 10c.

PINK.—A beautiful new sort, similar to above, except that the flowers are a clear pink. Each 15c.

STROBILANTHE

ROYAL PURPLE.—An excellent bedding plant and a beautiful foliage plant for pot culture. Forms a compact bush 18 inches high, with leaves 6 to 9 in. long, of beautiful metallic purple, shading into light rose with a light green margin, a combination unapproached by any other plant. Flowers violet blue, borne in immense racemes. Each 15c.

VERBENAS

Everybody likes Verbenas, as no one can help enjoying the sight of a nice bed covered with dark green leaves and brilliant blossoms. We have a large stock of the finest flowered varieties which bloom freely and are of the finest colors. We can furnish separate colors such as red, pink, white, blue, purple, striped, etc., or nicely assorted, just as you prefer, at 10c each, 60c per dozen.



RUBBER TREE

In shipping plants by express at customer's expense, we leave the dirt on the roots unless you instruct us to the contrary. We can ship anywhere.

OUR PLANTS PLEASE

My lemon tree that I got of you has one lemon on it that measures 13 inches one way and 11 inches the other. It was a picture, everyone praising it.—Mrs. Charles Ebel, Madison, Minn.

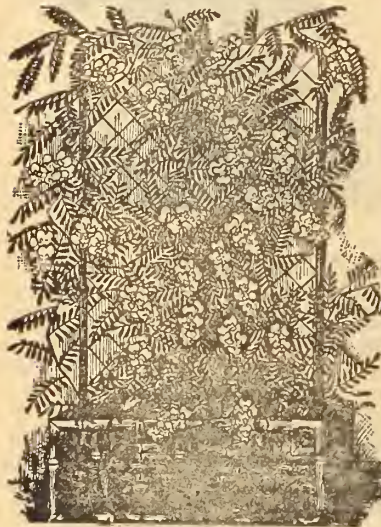
Received the plants in good condition and was very much pleased with them. Have planted them and am sure they will grow.—Mary M. Schwartz, Reading, Pa.

I have received the flowers. They were in good condition. Have set them out now.—Mrs. Jennie Pohler, Solon, Iowa.

The plants arrived this morning and I found them in good condition.—E. S. Rogers, Indianapolis, Ind.

I am much pleased with the plants you sent. They arrived in excellent condition and if they do not live it will be my own fault. Rose Dinsmore, which I got from you, is blooming beautifully. Yours truly—Mrs. Alick Booth, Austin, Man., Canada.

I received the package of plants you so kindly sent me. Please accept my sincere thanks for them. They all look nice and fresh and I think they will grow. Yours respectfully—Mrs. H. H. Reinken, Watrous, New Mexico.



WHITE SWAINSONIA



MAMMOTH
VERBENAS



STROBILANTHE

EVERBLOOMING ROSES

We consider these not only the most popular, but also the most satisfactory of all flowers, and therefore we make roses a leading specialty and are now devoting to them more space in our greenhouses and more land in our fields than ever before. Our plants of the several varieties are mostly grown on their own roots and are strong healthy and vigorous. We have taken great pains in preparing this list, which represents the choicest selections from nearly a thousand varieties, and we are sure every one will prove satisfactory. The two-year-old plants offered in this class of roses are mostly pot growing plants. Roses sent by mail or express prepaid in perfect condition, to the most distant parts of the United States, and we guarantee safe arrival. Directions for culture sent with every package. **One dozen of any variety at price of ten.**

BESSIE BROWN.—Blooms are very large in size, full double and of perfect shape; color creamy white flushed and tinged with pink. Blooms freely. Illustration on page 98. Each 15c; two-year-old plants 25c.

BRIDE.—A fine pure white cut flower rose. Very double. Buds are of very large size, carried high and erect; are unsurpassed for purity and whiteness. Each 15c; two-year-old plants 25c.

BRIDESMAID.—Like the Bride, but of a lovely shade of clear pink. Thousands of this sort are grown every year for cut flowers, and it is also very desirable for summer bedding out of doors. Each 10c; two-year-old plants 25c.

COQUETTE DE LYON.—A most desirable bedding variety of light canary yellow color. Flowers extra large, finely formed, deep and double. Each 15c; two-year-old plants 35c.

CHATENAY.—A most wonderfully beautiful rose. Flowers are of elegant shape with slightly recurved petals. Color creamy rose shaded with rose carmine. An extra choice garden variety. Each 15c; two-year-old 35c.

CHAMPION OF THE WORLD.—The champion bloomer. It is claimed that one plant will produce more flowers during the year than ten plants of any tea rose. A color which few roses can equal; rich, deep, rosy pink. Ea. 15c; two-year-old 30c.

ETOILE DE FRANCE.—Clear red or crimson velvet shade. It is without doubt the finest red hybrid tea rose in our long list of varieties. Each 20c; two-year-old plants 40c.

FRANCISCA KRUGER.—A strikingly beautiful rose of deep coppery yellow; quite unique, and distinct from all others. Of large size and very symmetrical. Each 15c; two-year-old plants 35c.

FRIEHEER VON MARSHALL.—Dark carmine, buds long and pointed, flowers large, full and of perfect imbricated form. Each 15c; two-year 30c.

GOLDEN GATE.—A beautiful free blooming and healthy flower; has long stems and continuous bloom. Flowers creamy white, delicately tinged with golden yellow and bright rose color. Ea. 10c; two-year-old plants 25c.

GOLDEN BEDDER.—The finest golden yellow tea rose. A strong, vigorous and healthy plant and a profuse bloomer. By some it is called Star of Lyons. Each 15c; two-year-old plants 30c.

GRUS AN TEPLITZ.—One of the brightest colored roses known. When first opened it is dark, rich crimson, quickly changing to a bright scarlet. Blooms continually. Each 15c; two-year-old plants 30c.

JONKHEER J. L. MOCK.—A novelty rose of great merit. Large carmine flowers on strong, stiff stems, growing upright and vigorous. Each 15c; two-year-old 35c.

KAISERIN.—Decidedly the finest white ever-blooming hardy garden rose. Soft, pearly white, lightly tinted with lemon at center. Free, continuous bloomer. Buds of faultless shape, developing into large, very double flowers of exquisite fragrance. A general favorite with rose growers. Each 15c; doz. \$1.50; two-year-old each 30c.

KILLARNEY.—Killarney is fast pushing out the other sorts with the city florists and the cut flowers sell at about fifty per cent higher prices, owing to the fact that the buds are especially long and the color of the rose is a peculiarly bright, living pink, more beautiful than any other pink rose that has ever been on the market.

A free bloomer, easily grown, of strong, healthy constitution. Each 15c; dozen \$1.50. Large two-year-old plants each 30c; dozen \$3.00.

METEOR.—One of the standard varieties of hybrid tea or ever blooming roses. It is remarkable for the strong growth, constant and abundant blooming. The color is bright, rich, velvety crimson, a delightful shade and the most popular of colors. The flowers are large, double, and it is popular because it combines all desirable qualities of a choice rose. Each 15c; two-year old plants 30c.

MILADY.—A rich crimson rose, by florists now given preference to Richmond, which has long held first place as a popular cut rose. A most lovely flower. Each 15c; two year old plants each 35c.

PRINCESS BONNIE.—An ever blooming crimson, deep, solid and vivid. Very fragrant; one of the most prolific roses. Each 15c; two-year old 35c.

RADIANCE.—A brilliant rosy carmine flower which is fine in form, large and full, with cupped petals. Free in growth and a profuse bloomer. Each 15c; two-year-old plants each 35c.

RICHMOND.—A strong rival of the American Beauty. It is a beautiful scarlet crimson, as free blooming as any tea rose, and flowers are extraordinarily fragrant. A standard variety because of merit. Each 15c; two-year 30c.

RHEA REID.—A magnificent rose described by an enthusiastic rose lover as being "as large as American Beauty, as double as La France and as red as Richmond." Color is vivid scarlet-crimson, and the flowers are marvels of beauty, large, bold and splendid substance. Very hardy and of thrifty growth. Each 20c; two-year-old plants each 40c.

SOUVENIR DE WOOTEN.—We consider this one of the most beautiful and satisfactory roses grown. A rich shade of velvety crimson; deliciously fragrant; a constant, prolific bloomer; flowers frequently six inches across. Each 15c; two-year 25c.

SUNBURST.—A splendid large rose, ranking with American Beauty and Killarney in size and form. Color a beautiful coppery yellow, shaded lighter; a brilliant flower. Each 15c; two-year-old plants each 35c.

WHITE KILLARNEY.—Exactly like Killarney, except in color. It is one of the best garden roses, hardy in this climate with slight protection. The color is pure, snowy white; blooms are large and buds long and pointed. Each 15c; two-year-old plants 35c.



CHATENAY

stems and continuous bloom. Flowers creamy white, delicately tinged with golden yellow and bright rose color. Ea. 10c; two-year-old plants 25c.

GOLDEN BEDDER.—The finest golden yellow tea rose. A strong, vigorous and healthy plant and a profuse bloomer. By some it is called Star of Lyons. Each 15c; two-year-old plants 30c.

GRUS AN TEPLITZ.—One of the brightest colored roses known. When first opened it is dark, rich crimson, quickly changing to a bright scarlet. Blooms continually. Each 15c; two-year-old plants 30c.

JONKHEER J. L. MOCK.—A novelty rose of great merit. Large carmine flowers on strong, stiff stems, growing upright and vigorous. Each 15c; two-year-old 35c.

KAISERIN.—Decidedly the finest white ever-blooming hardy garden rose. Soft, pearly white, lightly tinted with lemon at center. Free, continuous bloomer. Buds of faultless shape, developing into large, very double flowers of exquisite fragrance. A general favorite with rose growers. Each 15c; doz. \$1.50; two-year-old each 30c.

KILLARNEY.—Killarney is fast pushing out the other sorts with the city florists and the cut flowers sell at about fifty per cent higher prices, owing to the fact that the buds are especially long and the color of the rose is a peculiarly bright, living pink, more beautiful than any other pink rose that has ever been on the market.

A free bloomer, easily grown, of strong, healthy constitution. Each 15c; dozen \$1.50. Large two-year-old plants each 30c; dozen \$3.00.

METEOR.—One of the standard varieties of hybrid tea or ever blooming roses. It is remarkable for the strong growth, constant and abundant blooming. The color is bright, rich, velvety crimson, a delightful shade and the most popular of colors. The flowers are large, double, and it is popular because it combines all desirable qualities of a choice rose. Each 15c; two-year old plants 30c.

MILADY.—A rich crimson rose, by florists now given preference to Richmond, which has long held first place as a popular cut rose. A most lovely flower. Each 15c; two year old plants each 35c.

PRINCESS BONNIE.—An ever blooming crimson, deep, solid and vivid. Very fragrant; one of the most prolific roses. Each 15c; two-year old 35c.

RADIANCE.—A brilliant rosy carmine flower which is fine in form, large and full, with cupped petals. Free in growth and a profuse bloomer. Each 15c; two-year-old plants each 35c.

RICHMOND.—A strong rival of the American Beauty. It is a beautiful scarlet crimson, as free blooming as any tea rose, and flowers are extraordinarily fragrant. A standard variety because of merit. Each 15c; two-year 30c.

RHEA REID.—A magnificent rose described by an enthusiastic rose lover as being "as large as American Beauty, as double as La France and as red as Richmond." Color is vivid scarlet-crimson, and the flowers are marvels of beauty, large, bold and splendid substance. Very hardy and of thrifty growth. Each 20c; two-year-old plants each 40c.

SOUVENIR DE WOOTEN.—We consider this one of the most beautiful and satisfactory roses grown. A rich shade of velvety crimson; deliciously fragrant; a constant, prolific bloomer; flowers frequently six inches across. Each 15c; two-year 25c.

SUNBURST.—A splendid large rose, ranking with American Beauty and Killarney in size and form. Color a beautiful coppery yellow, shaded lighter; a brilliant flower. Each 15c; two-year-old plants each 35c.

WHITE KILLARNEY.—Exactly like Killarney, except in color. It is one of the best garden roses, hardy in this climate with slight protection. The color is pure, snowy white; blooms are large and buds long and pointed. Each 15c; two-year-old plants 35c.

DUCHESS DE BRABANT.

FRANCES E. WILLARD

FRANCES E. WILLARD

FRANCES E. WILLARD



FRANCES E. WILLARD



DUCHESS DE BRABANT



MRS. ROBERT PEARY

Full Value Rose Collection

Ten Choice Roses at a Remarkably Low Price

We grow hundreds of varieties of roses, but not a poor one. The demand for the different varieties fluctuates considerably and because we cannot gauge exactly the number of each kind that will be ordered we always have a surplus of some sorts, and if you will permit us to select the varieties we will send you

TEN CHOICE ROSE PLANTS POSTPAID FOR 50 CENTS



BESSIE BROWN See page 97

SUMMER CLIMBING ROSES

CLIMBING MALMAISON.—There is no finer pink than the old, well-known Malmaison, or "Souvenir" of the South, and we are sure that our patrons, one and all, will be glad to hear that we have a climbing variety that is identical with the parent. This variety will prove of inestimable value to all lovers of fine climbing roses. Each 15c; two-year-old plants 30c.

MRS. ROBERT PEARY.—(Climbing Kaiserin Augusta Victoria.)—Praised not only by professional but also by amateur growers. It is ever-blooming and while not classed as a hardy variety will live over winter with slight protection. The flowers are extra large, full, deep and double. The buds are long and pointed. Color pure ivory white, of delicious fragrance. Grows 10 to 15 feet in a single season. Each 20c. Two-year-old plants each 35c.

MARECHAL NEIL.—Grand old French variety, ever beautiful and of surpassing fragrance. It is a climbing rose which, when well cultivated, will produce an immense number of flowers. Hardy in the south but will not stand severe winters, and must be taken in and kept dormant during the winter, or may be kept in the house or conservatory. Excellent winter bloomer. Each 15c, doz. \$1.50. Large two-year-old plants each 35c, doz. \$3.25.

CLIMBING WOOTEN.—Deep velvety crimson flowers. Strong grower and will winter in the north if well protected. Each 15c, dozen \$1.50. Two-year-old plants each 35c, doz. \$3.25.

ONE EACH OF THE FOUR BEAUTIFUL SUMMER CLIMBERS FOR 50c. LARGE TWO-YEAR-OLD-PLANTS \$1.00.

THE FOUR COCHETS



The Cochet roses are exploited by many specialists as the best roses for outdoor planting. They are everblooming and distinctly beautiful, and we offer you in our collection the choicest varieties of this popular type.

MAMAN COCHET.—Buds large and pointed, while the open flowers are extra large, double and bloom all the time. Color is a rich, clear pink, changing to silvery rose. Each 15c. Two-year-old plants 30c.

RED COCHET.—Helen Gould.—Buds are long and pointed; flowers are full and perfectly double; color rich, rosy crimson, bright and glowing; a good winter bloomer. Each 15c. Two-year-old plants 30c.

WHITE COCHET.—An exact counterpart of the beautiful Maman Cochet except that it is of purest white. Very desirable. Each 15c. Two-year-old plants 35c.

YELLOW COCHET.—Deep sulphur yellow. True Cochet type; most desirable of yellow roses for outdoor planting. Each 20c. Two-year-old 35c.

ONE PLANT EACH OF THE FOUR COCHET ROSES FOR 50c. TWO-YEAR-OLD PLANTS ONE OF EACH FOR \$1.00.

FOUR LA FRANCE ROSES

La France roses are certainly the nearest perfection of flowers. Distinctive characteristics of the set are the true La France fragrance and beautiful form. Prized for their profusion of bloom.

RED LA FRANCE.—(Duchess of Albany.)—Deep rose pink hue. Very large, double and of superb form. Each 10c; two-year-old 35c.

LA FRANCE.—Beautiful form in bud and full bloom; very large, full and globular; a constant bloomer; in color pink or silvery rose—a satiny sheen, as it has been termed. Each 10c; two-year-old plants 30c.

WHITE LA FRANCE.—Identical with La France, except color. It is pearly white, sometimes tinted fawn. Each 10c; two-year-old plants 30c.

STRIPED LA FRANCE.—Is a rich creamy pink with silvery gloss, beautifully streaked and etched with carmine. Each 15c; two-year-old plants 30c.

SET OF FOUR LA FRANCE ROSES ONLY 40c. TWO-YEAR-OLD PLANTS \$1.00.



LA FRANCE

BEAUTIFUL HARDY ROSES

The most satisfactory of all flowering plants, making a permanent improvement which is constantly growing in value. The lower priced roses below named are growing plants in from 2 to 2½-inch pots, while the larger sizes are strong, hardy, mostly outdoor grown, two-year-old plants which have been kept dormant. These can be planted outside early in the spring before it is safe to set out plants that are growing in pots, and are ready to begin blooming almost as soon as set out. Should our stock of dormants be exhausted we will send strong two-year-old plants which have been kept growing in pots. Following are the most satisfactory varieties. Remember, we prepay postage or express charges on plants at prices named.

AMERICAN BEAUTY.—One of the best and most valuable roses, both for garden and house culture. Color rosy crimson, exquisitely shaded and very handsome. Extra large, full flowers, fine buds. A good bloomer. See our American Beauty Collection. Each 15c, two-year-old plants 40c.

ANNA DE DIESBACH.—(Glory of Paris.)—Most lovely brilliant carmine, long, pointed buds; large, finely formed, compact flowers; full and double; delightfully sweet. Vigorous grower, fine bloomer. Ea. 20c, two-year-old 35c.

BARON DE BONSTETTEN.—Rich, dark red, passing to a deep, velvety maroon, nearly black. A large flower, very highly scented. Included in our Favorite Collection on page 100. Each 15c, two-year-old plants 35c.

CAPTAIN CHRISTY.—Is very double; fresh, delicate pink. A splendid sort offered as part of our Favorite Collection. Each 15c, two-year-old 30c.

CLIO.—Color flesh pink, shaded rose in center. Large flower of fine form. We think so highly of it we include it in the Favorite Collection. Each 15c, two-year-old plants each 30c.

COQUETTE DES ALPS.—Flowers are large and full, finely formed and pure white. Profuse bloomer. Each 15c, two-year-old plants each 30c.

DINSMORE.—We cannot praise this enough. Always in bloom, with large, imbricated, and very double flowers of dazzling crimson scarlet color; rich, spicy fragrance. Of compact, bushy growth. Fine for beds and very hardy. Each 15c, two-year-old plants each 30c.

FRAU KARL DRUSCHKI.—Beautiful white variety often called White American Beauty, because its habit and growth resemble that popular sort. Offered in Iron Clad Collection. Each 20c, two-year-old plants 35c.

FRANCOIS LEVET.—Exquisite cherry pink, delicately shaded carmine and blush. Free bloomer; perfectly hardy. Each 20c, two-year-old each 40c.

GENERAL WASHINGTON.—A brilliant crimson, very rich and perfectly double; is a free bloomer. Each 15c, two-year-old plants each 30c.

GLORIE DE MARGOTTIN.—Flowers very large, symmetrical, very full and deliciously sweet scented. Color is clear dazzling red. One of the most brilliant roses. Free bloomer; vigorous grower. Ea. 15c, two-year 40c.

GENERAL JACQUEMINOT.—One of the grandest of roses; nothing can surpass them in beauty. Color a rich, dazzling scarlet, shaded with deep, velvety crimson; a superb, glowing color. See Favorite Collection on page 100. Each 15c, two-year-old plants each 30c.

J. B. CLARKE.—Awarded gold medal of National Rose Society. A hybrid perpetual of unique color, being an intense scarlet shaded dark, rich, crimson-maroon. Flowers very large and fine. One of our Iron Clad Collection. Each 20c, two-year-old plants each 40c.

JOHN HOPPER.—Flowers are large, regular and full; color brilliant rose, shaded a rich crimson. Very sweet. Each 15c, two-year-old each 35c.

JUBILEE.—A grand, hardy, perpetual blooming variety. In color dark crimson, shaded velvety maroon; flowers sometimes 6 inches in diameter. Each 15c, two-year-old plants 30c.

LA REINE.—A beautiful rose often listed as The Queen. Color is clear, bright rose; strong and vigorous. Blooms large, full, fragrant. A fine sort. Each 15c, two-year 30c.

MRS. JOHN LAING.—For outdoor planting undoubtedly is the finest. A beautiful soft pink; delicious fragrance; very double and of large size. A constant bloomer. See Iron Clad Collection. Each 15c, dormant plants each 30c.

MRS. R. G. SHARMAN-CRAWFORD.—Very full and double flowers of deep, rosy pink. Beautiful. Each 15c, two-year-old plants each 30c.

MAGNA CHARTA.—A splendid rose with extra large, rosy red flowers, beautifully flushed violet crimson. See Favorite Collection. Each 15c, two-year-old 30c.

MADAME PLANTIER.—Flowers borne in great profusion; are pure white; hardy as an oak, and certain to grow. Blooms in June. See Favorite Collection, page 100. Each 15c, two-year-old plants each 25c.

MAD. MASSON.—It is entirely hardy, blooms nearly all the time, bearing large numbers of large, full, double flowers of unusual beauty and wonderful fragrance; clear, bright rose, distinct and charming. Each 15c, two-year-old 35c.

PAUL NEYRON.—Double flowers of shining carmine pink. Largest rose known, and one of the most prolific. An exceptional grower, making shoots 4 to 5 feet high. Offered in our Iron Clad Collection. Each 15c, two-year-old 30c.

PRINCE CAMILLE DE ROHAN.—A fine rose of rich, velvety crimson, passing to maroon, shaded black. Each 15c, two-year-old plants each 35c.

TRIUMPH.—Superb new variety from England, where it is sometimes known as "Hugh Dickson." Color crimson flamed scarlet. Blossom extra large, highly perfumed. Each 20c, two-year-old plants each 35c.

ULRICH BRUNNER.—A rich, glowing crimson scarlet; flowers of exquisite shape. The deep red in our Iron Clad Collection. Each 15c, two-year-old 30c.

VICK'S CAPRICE.—Perfectly hardy. Flowers large, soft, satiny pink, distinctively striped and dashed with white and carmine. See Favorite Collection, page 100. Each 15c, two-year-old plants each 30c.

GIANT IRON CLAD ROSE COLLECTION

PAUL NEYRON.—Beautiful shade of deep pink.

FRAU KARL DRUSCHKI.—One of the very largest blooms among white roses.

ULRICH BRUNNER.—Glowing scarlet. Form and size equal to the best.

THE IRON CLAD ROSE COLLECTION OF FIVE CHOICE, HARDY PLANTS, POSTPAID, 60c. TWO-YEAR-OLD PLANTS, \$1.25.

MRS. JOHN LAING.—A fit companion for Paul Neyron in size, hardiness and form. Color soft, blush pink; fragrant.

J. B. CLARKE.—Intense scarlet shaded dark, rich, crimson maroon. Flowers very large and fine.

AMERICAN BEAUTY ROSE COLLECTION

Who has not heard of the American Beauty, the rose famed in poetry, story and song? The cut flowers are frequently sold during the winter at \$10 to \$25 per dozen. What flower lover has not hoped some day to have a "garden of roses" with American Beauties galore? This collection has proven very popular and we are growing vast numbers of plants for the immense demand.

AMERICAN BEAUTY, WHITE AMERICAN BEAUTY, BLACK BEAUTY, STRIPED BEAUTY, PINK BEAUTY and MOSS BEAUTY. By mail, prepaid.

SPECIAL PRICES ONE STRONG PLANT EACH OF ABOVE FOR 75c. ONE LARGE TWO-YEAR-OLD PLANT OF EACH FOR \$1.50.



AMERICAN BEAUTY ROSE.

FAVORITE HARDY ROSE COLLECTION

SEVEN CHOICE VARIETIES, SEVEN DIFFERENT COLORS

Described among our list of hardy roses on page 99. They are truly magnificent and will be satisfactory for permanent planting.

Includes the following sorts: CLIO, flesh pink, shaded rose; GEN. JACQUEMINOT, deep scarlet; BARON DE BONSTETTEN, rich, velvety maroon red; VICK'S CAPRICE, soft, satiny pink, dashed white and carmine; CAPTAIN CHRISTY, a bright pink; MAGNA CHARTA, large, rosy red; MADAM PLANTIER, profuse blooming white.

ONE STRONG PLANT OF EACH, POSTPAID, ONLY 70c. LARGE TWO-YEAR-OLD PLANTS \$1.60.



CRIMSON BABY RAMBLER

Fairy Roses

These small roses are marvels of grace and beauty; the blooms are borne in clusters.

YELLOW SOUPERT.—(Mosella.)—A choice novelty. The flowers are double; tinted white on a beautiful yellow ground. Each 15c; two-year-old plants each 25c.

LITTLE WHITE PET.—A pure white of perfect shape. Hardy. Ea. 10c; two-year-old 25c.

CLOTHILDE SOUPERT.—One of the most popular and satisfactory roses grown. Wonderfully free bloomer. White, shaded pink. Each 10c; two-year-old plants each 25c.

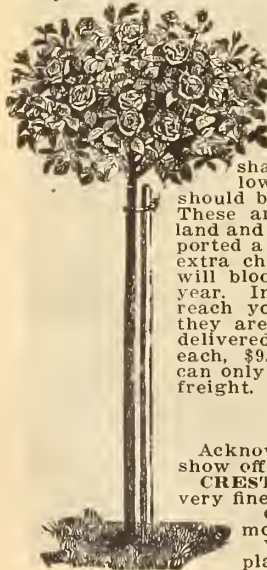
CECIL BRUNNER.—Is similar to Clothilde Soupert, except it is salmon rose on yellow ground color. Like all others of this class it is extremely free flowering. Each 15c; two-year-old plants 25c.

THE FOUR FAIRIES FOR 35c. TWO-YEAR-OLD PLANTS 80c.

Rose Trees

These elegant Rose Trees are grafted on hardy rose stalks about 4 feet high, are tree-shaped and when in full bloom are objects of beauty, making handsome plants for the lawn or rose border.

In this shape we offer only the hybrid perpetual or hardy class. We have them in white, the different shades of red, pink, yellow and crimson. They should be protected in winter. These are all grown in Holland and this year we have imported a very large number of extra choice specimens which will bloom profusely the first year. In order to have these reach you in good condition, they are carefully packed and delivered on cars here at \$1.00 each, \$9.00 per dozen. They can only be sent by express or freight.



TREE ROSE

Moss Roses

Acknowledged queen of all roses; moss-covered stems and buds show off delicate loveliness of blossoms; hardy but needs protection.

CRESTED MOSS.—Deep pink buds surrounded by mossy fringe; very fine. Each 20c; dormant plants each 30c.

CRIMSON GLOBE.—Large flower; deep, rich crimson; very mossy; fragrant. One of the best. Each 15c; dormant 35c.

WHITE MOSS.—Everyone should have one of these lovely plants. Each 15c; dormant plants 35c.

ONE EACH OF MOSS ROSES FOR 35c; DORMANT 75c.



CAPTAIN CHRISTY

Baby Rambler Rose

This type of roses has created a furore among rose planters in America and we list below four varieties in collection that our customers may have contrast of color necessary for best effects. Hardy. They are very fine for permanent beds and are well adapted for decorative landscape effects.

CRIMSON BABY RAMBLER.—The very best bedding rose in existence. It originated in Orleans, France, from a cross of the Crimson Rambler and a Polyanthus variety, and it may be called a perpetual blooming dwarf Crimson Rambler. The bush is vigorous, absolutely hardy, about 12 inches in height, and on our place every plant was in bloom every day of the summer and fall. Sometimes as high as 120 flowers have been counted on a single panicle. Nice, well-grown plants each 15c; dozen \$1.50. Large two-year-old plants each 35c.

BABY TAUSENDSCHON.—Dwarf form of the "Thousand Beauties" rose. Like the climbing variety, it shows many shades of color, from carmine to shell pink, in the clusters at the same time. It produces blooms in wonderful profusion and a few plants will give the effect of many varieties in a single bed. Each 15c; large two-year-old plants each 35c.

WHITE BABY RAMBLER.—(Catherine Zeimet.)—The true Baby Rambler type, with pure white flowers. Deliciously fragrant and perfectly hardy. Each 15c; two-year-old plants each 35c.

PINK BABY RAMBLER.—(Phyllis.)—A counterpart of the Crimson Baby Rambler except that color is a bright, shining pink. Splendid in combination with the above. Each 15c; two-year-old plants each 35c.

SET OF FOUR BABY RAMBLERS FOR 50c, OR IN TWO-YEAR-OLD PLANTS, \$1.10.

Rugosa Roses

SIR THOMAS LIPTON.—A hardy hybrid rugosa rose. Grows 4 feet high, strong and vigorous. Flowers double, pure white. Fine for hedging, cemeteries or massing. Each 15c; two-year-old plants 35c.

CONRAD F. MEYER.—Elegantly formed buds and flowers 3½ to 4 inches across and perfectly double. Color rich, peachy yellow, tinged gilt. Very fragrant, and entirely hardy. Each 15c; two-year-old 35c.

RED RUGOSA.—A single-flowered rose. Makes a handsome large bush; bright green leaves; clusters of deep rose colored flowers continuously, followed by large, apple-shaped, bright red fruits. Strong plants 25c.

WHITE RUGOSA.—Similar to the above; white flowers. Each 30c.

ONE EACH FOUR RUGOSA ROSES IN LARGE PLANTS, ONLY \$1.00.



LITTLE WHITE PET

Memorial Roses

These hardy little roses creep, over the ground like ivy. The leaves are a glossy dark green color; profuse flowering.

WHITE MEMORIAL.—(Wichuriana.)—Fine for cemetery planting. The flowers are single and pure white; hardy. Each 15c; two-year-old plants each 30c.

MANDA'S TRIUMPH.—Is a rapid, sturdy grower; bears a profusion of double, pure white, imbricated flowers; elegant for cemetery planting. Each 10c; two-year-old plants 25c.



CRESTED MOSS

HARDY CLIMBING ROSES

For porches and trellises nothing surpasses the climbing roses, especially the ever-blooming varieties. We recommend the two-year-old plant for immediate effect. Following recommended as permanent plants:

CLIMBING AMERICAN BEAUTY.—A real American Beauty in flower, foliage and fragrance, but grows as a climber, often making fifteen feet in a single season. Flowers are very large, from three to four inches in diameter, of fine form and are borne in great profusion. A continuous bloomer, and hardy. A new rose of exceptional merit. Each 75c; two-year-old plants, each 50c.

BIRDIE BLYE ROSE—This new ever-blooming variety is one of the choicest. Hardy, living over winter with slight protection. It is a pillar rose, growing about 6 feet high, but can be trimmed to bush form; glossy foliage and blooms constantly, producing at the end of every shoot clusters of bright, satiny-rose blossoms, quite double, intensely fragrant and over three inches in diameter. The buds are long and pointed and a bright carmine color. Each 20c, two-year-old plants 50c.

THOUSAND BEAUTIES.—(Tausendschon.)—A hybrid from crossing Crimson Rambler with Tea and Polyantha varieties. Blooms profusely from the beginning of June until the last of July. Color a lovely shade of soft pink when first open, changing to carmine on reverse of petals. The blooms are produced in clusters and show different shades at the same time. The older blooms will be deep pink and grading to light shell pink of the newest buds. It is this feature that gave the rose its name of "Thousand Beauties." Not so thorny as most sorts and is a strong, vigorous grower. Each 20c; two-year 40c.

RUSSELL'S COTTAGE.—Dark crimson, very double and full; extra strong, rampant grower of iron-clad hardness. This is the most satisfactory dark red climbing variety. Ea. 15c; two-year-old 30c.

SEVEN SISTERS.—One of the old standard climbing roses. Crimson, changing all shades to white. Blooms in clusters. Each 15c; two-year old 25c.

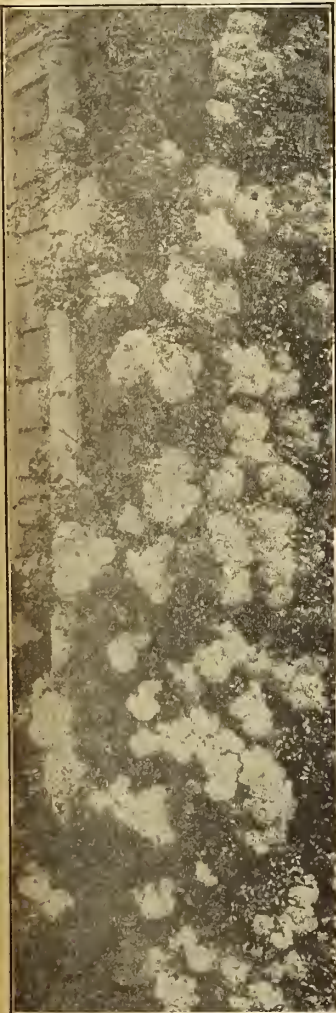
MARY WASHINGTON.—Hardy, perpetual blooming climber, producing double snow white blossoms from June until frost. In this lovely rose our first president took special delight and named it after his mother, Mary Washington. Ea. 15c; two-year-old 30c.

PRAIRIE QUEEN.—An old standard always popular. Grows successfully everywhere and under any conditions. Bright pink, full and double; a large flower. Each 10c; two-year-old plants 25c.

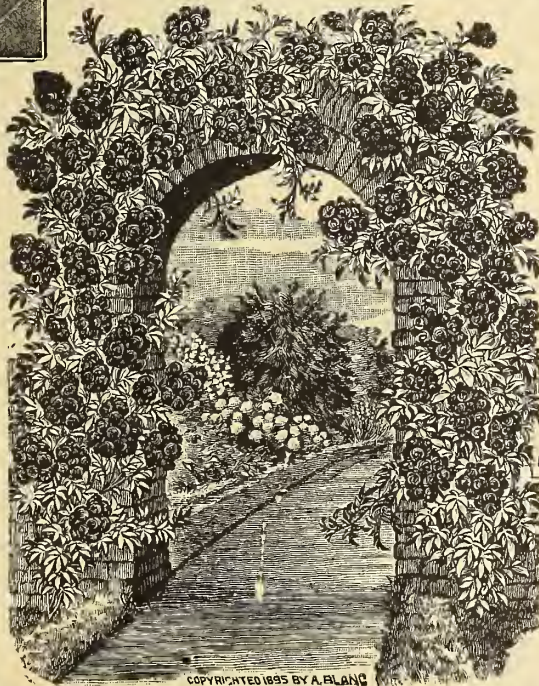
BALTIMORE BELLE.—Double blush white; large clusters covering plant with bloom. An old time favorite still popular because of its hardness and general excellence. Each 10c; two-year-old plants 25c.



BIRDIE BLYE ROSE



DOROTHY PERKINS



COPYRIGHTED 1895 BY A. BLANG
CRIMSON RAMBLER

RAMBLER ROSES

BLUE RAMBLER.—(Veilchenblau.)—The wonderful new rose which resembles the well-known Crimson Rambler in its climbing habit and manner of growth, having glossy green foliage and bearing large clusters of medium sized flowers. When first opened its color is an attractive shade of violet crimson, later changing to a more distinctive and the unique shade of violet-blue. Is markedly distinct in color from any other rose and is a novelty deserving attention. Strong plants each 15c; large two-year-old plants 35c.

PHILADELPHIA RAMBLER.—A greatly improved Crimson Rambler. Begins blooming two weeks earlier and its color is brighter, more intense crimson; almost entirely free from mildew. Each 15c; two-year-old plants 30c.

CRIMSON RAMBLER.—The most popular rose in existence, as it is always satisfactory. Many instances reported of 3,000 to as high as 19,721 flowers by actual count on one bush. Exceedingly hardy. Flowers are produced in large trusses of pyramidal form and of brightest crimson color. The blooms remain on the plant for a great length of time without losing their brightness. Each 10c; strong two-year-old plants 25c.

CLIMBING ROSE COLLECTION

We make a special offer of one each *Thousand Beauties*, *Russell's Cottage*, *Mary Washington*, *Climbing American Beauty*, *Seven Sisters*, *Baltimore Belle* and *Prairie Queen* for 75c, postpaid; large two-year-old \$1.75.

Rainbow Rambler Collection

5 1 BLUE RAMBLER **50**
1 WHITE RAMBLER
1 CRIMSON RAMBLER
for 1 YELLOW RAMBLER **Cts**
1 DOROTHY PERKINS
TWO-YEAR-OLD PLANTS ONLY \$1.00
Postpaid to your address.



MARY WASHINGTON

VINES AND BASKET PLANTS

(Listed separately for the convenience of our patrons who desire them for special uses.)

CLERODENDRON

BALFOURII.—Unique and beautiful. It presents a splendid combination of colors, having bright scarlet flowers with creamy white calyx; a profuse bloomer, young plants a foot high bearing several clusters. A strong and rapid grower. Each 15c.

HOYA

CARNOSA.—(Wax Plant.)—A well known house climber, with thick, fleshy leaves and curious waxy flowers, bluish white in color. Quite scarce and not always obtainable, but we think we have enough to supply our friends this season. Each 25c.

IVIES

ENGLISH.—Old favorite, showy the year round. Hardy in South, but will not stand our Iowa winters. Each 10c, large plants 25c.

VARIEGATED ENGLISH.—Foliage is prettily marked pure white on dark green ground. A handsome pot plant or for trailing from sides of boxes or baskets. Each 15c.

KENILWORTH.—Old familiar trailing ivy. Perhaps the best for shaded places or rooms where light is not very strong. Each 10c, dozen 75c.

GERMAN.—Well known; popular as a plant for hanging baskets and vases. Grown with very little trouble. Each 10c, dozen 85c.

ONE PLANT EACH OF THE FOUR IVIES ABOVE NAMED FOR ONLY 35c.

MOONFLOWER

WHITE.—Very handsome climber, growing to a height of 25 to 40 feet, and covered nightly and on dull days with its white, moon-like flowers. Each 15c, dozen \$1.25.

BLUE.—(Ipomea Leari.)—The flowers are a clear, satiny blue, with well defined crimson bars, very distinct. Each 15c, dozen \$1.25.

1 WHITE AND 1 BLUE MOONFLOWER 25c.

PASSION FLOWER

MAMMOTH.—Flowers 2 to 4 inches in diameter, and the colors a remarkable combination of red, white and blue flowers. Each 15c.

CONSTANCE ELLIOTT.—A white-flowered mammoth variety. Each 15c.

VINCA MAJOR

ELEGANTISSIMA.—The handsomest vine to grow in window boxes, hanging baskets, trailing from pots, rockeries, etc. The long, trailing stems of glossy green leaves are broadly margined and variegated with white. Of easiest culture and does well either in sun or in shade. Blue flowers. Each 15c, dozen \$1.25. Large size plants each 25c.

HARRISONI.—Similar to above but with darker variegation. Very popular because of its strong growth. A well grown plant will completely fill a large hanging basket. Each 10c, dozen \$1.00. Large size plants each 25c.

WANDERING JEW (Tradescantia)

An old, well known trailing plant nice for growing in hanging baskets, vases, pots or window boxes. Two sorts with variegated foliage, and also the plain green leaf variety. Each 10c, 3 for 25c.

HANGING BASKET COLLECTION

This illustration of our popular collection but poorly depicts the beauty of a hanging basket filled with appropriate plants, well grown and healthy. We have in this collection chosen a half dozen plants which will give splendid results with little care and may be grown in any home window garden. Surely an opportunity at the price.

BOSTON FERN.—The most popular decorative plant in the entire list. Each 15c.

REX BEGONIA.—Most beautiful foliage plant; a source of much satisfaction. Ea. 25c.

WEEPING LANTANA.—Trailing variety of Flowering Lantana. Each 15c.

VARIEGATED VINCA.—The most popular vining basket plant on the list. A favorite with all. Each 10c.

TRAILING FUCHSIA.—Adding attractiveness with its beautiful flowers and foliage. Each 15c.

WANDERING JEW.—The old-fashioned favorite basket plant. Each 10c.



MANETTA

BICOLOR.—One of the handsomest little vines in existence. Easily and quickly grown; blooms continuously. Well adapted for hanging baskets, pot culture, vases or beds. Flower of size and shape shown in our cut, brilliant scarlet, tipped with clear golden yellow, making it most wonderfully attractive. Manetta Bicolor blooms constantly and profusely in winter when taken into the house. We heartily recommend this vine to all customers and feel assured of no complaint when tried. Each 15c.

PARLOR VINE COLLECTION

We offer on the next page a beautiful hanging basket collection at a low price, but many will prefer a few parlor vines for separate growing, and we offer you these beautiful little vines to meet this demand: 1 Vinca Major, 1 Saxafraga, 1 Manetta Vine, 1 German Ivy, 1 Kenilworth Ivy. Five fine vines, postpaid, for 40c.



HANGING BASKET COLLECTION.

One each of the above by mail, postpaid, 75c. Or the six plants and one 8-inch wire hanging basket and moss for lining, all postpaid, for 95c.



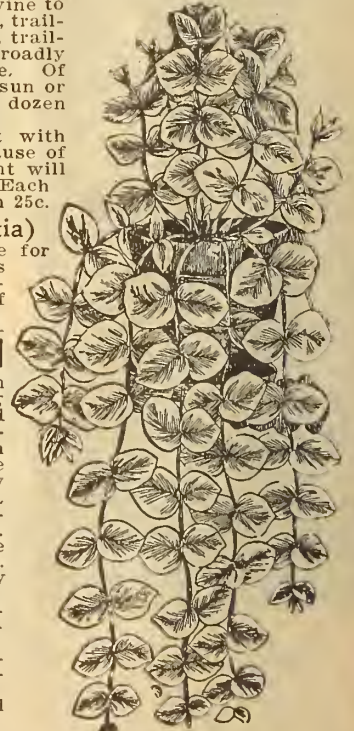
SAXAFRAGA

SAXAFRAGA

STRAWBERRY GERANIUM.—Well known, much used old plant for hanging baskets or vases. Long, strawberry-like runners. An old-fashioned plant but still popular and prized for its hardiness and thrifty habit. Will grow vigorously and give satisfaction under hardest conditions. Each 15c; 3 for 50c.

SMILAX

A well known and handsome climber. Most popular of all vines with florists. Grows compact and upright, and from the manner of growth does not require any great amount of space. Can be trained on string. Ea. 10c.



VINCA ELEGANTISSIMA

IF YOU WANT TO PURCHASE A HANGING BASKET FILLED WITH ANY PARTICULAR PLANTS, WRITE FOR PRICE COMPLETE.

HARDY VINES

In making a home, plan for future beauty, comfort and happiness by planting a variety of hardy clematis, ornamental vines, shrubs and roses which will constantly grow in beauty and size. Such permanent improvements add greatly to the value of any property, and the value grows from year to year, so that instead of an expense they should be considered a paying investment. We prepay postage or express charges at these prices.

AMPELOPSIS

VEITCHII.—(Boston Ivy.)—Is a very beautiful hardy climbing plant. This is one of the finest climbers we have for covering walls, as it clings firmly to the smoothest surface, covering it smoothly with overlapping foliage, giving it the appearance of being shingled with green leaves. Should be slightly protected the first winter, but after that it will be found entirely hardy in the most exposed places, attaining a height of 20 to 30 feet in two or three years, clinging to stones, brick or woodwork with the greatest tenacity. It is a great protection to houses, as the leaves, lapping over each other like shingles on a roof, effectually prevent the rain from penetrating the walls. For covering dead trees, gate posts, boundary walls, etc., it has no equal. In the summer the foliage is a rich shade of green, but in the fall it assumes the most gorgeous tints of crimson, scarlet and orange, so dazzling as to be seen at a great distance. Each 15c; doz. \$1.25. Large plants 25c; doz. \$2.50.

ENGELMANNI.—This is an improved Woodbine which bears very large, dense and abundant foliage. The leaves are glossy light green in summer, changing to brilliant crimson in autumn. Clings to rough stone or brick without support and has the upright manner of growth of the Veitchii and is preferred because of its much heavier growth of leaves. Each 15c; large 25c.

ARISTOLOCHIA

DUTCHMAN'S PIPE VINE.—The well known, vigorous and rapid growing climber used so extensively for archways or verandas. It takes its name from the singular brownish colored flowers, resembling in shape a pipe. The leaves are heart-shaped and retain their color from early spring to late fall. Each 25c; large 40c.

AKEBIA QUINATA

A perfectly hardy, fast-growing Japan vine, producing flowers in large clusters, of chocolate purple color, possessing a most delicious perfume; unsurpassed for covering trellises and verandas; the foliage is never attacked by insects. Each 15c; large 30c.

APIOS

TUBEROSA.—Valuable, hardy, tuberous-rooted climber, resembling in miniature the Wistaria vine, and having clusters of deep purple flowers which have a strong violet fragrance. They grow to a great height, and bloom profusely. Plant several bulbs close together to produce a mass of vines and flowers. Each 5c; doz. 50c.

BITTER SWEET

A native climbing or twining plant; large leaves, yellow flowers, orange capsuled scarlet fruit. One of the most popular of native plants, as its beautiful seed pods are prized for winter decoration. Each 10c; large 25c.

CHINESE KUDZU VINE

JACK-AND-THE-BEANSTALK VINE.—The phenomenal growth of this new Chinese hardy vine can hardly be imagined—sometimes 12 inches a day. The large leaves of bright green afford a dense shade. Is valuable for rapidly covering arbors, fences, dead or old trees, rockeries, etc. Grows 50 to 75 feet when well established. Each 15c, dozen \$1.50; medium size 25c; large size 50c.

CINNAMON VINE

A tuberous-rooted, hardy vine which is also listed among the summer bulbs. With its beautiful heart-shaped leaves and clusters of delicate white flowers and cinnamon fragrance, it is a very desirable vine. Large tubers each 10c; 3 for 25c; doz. 75c. Bulblets from which the large tubers can be grown in one season, doz. 10c; 100 for 60c.

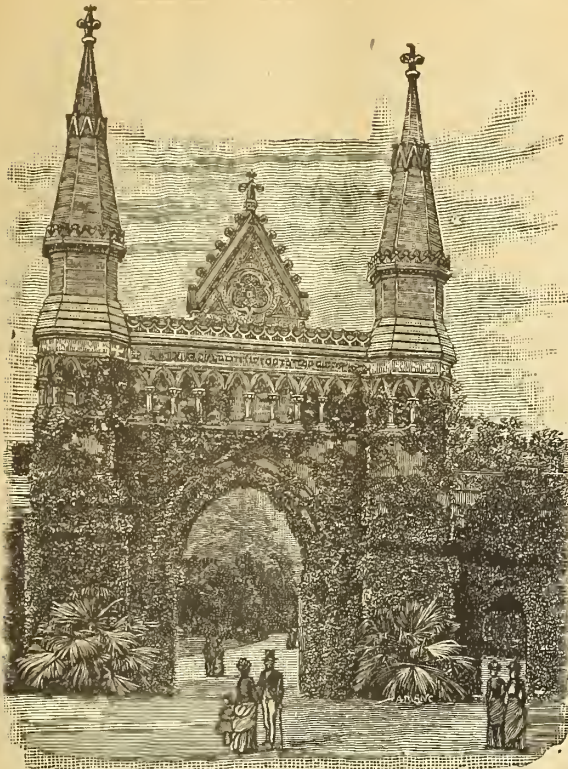
CHINESE MATRIMONY VINE

LYCIUM.—This vine is a very vigorous growing, shrubby climber which is perfectly hardy and desirable for training on trellis, wall or fence. Every new shoot becomes filled with small purple flowers, which are followed by brilliant scarlet berries which remain on the vine until late in the winter. Although the flowers are not showy, the long stems droop gracefully and make an admirable covering for the porch. Each 10c; large 25c.

CAMELIA VINE

In the Camelia Vine (*Calystegia Pubescens*) we have a flower of true Camelia shape and size, perfectly double and of most beautiful rose color. Of easiest culture, growing well in any soil or location. Vine is of rapid growth, quickly covering trellis or porch and growing to a height of five to ten feet. For best results set 12 to 18 inches apart. Leaves are lance shape, dark green, and lap like shingles. Roots live in ground over winter. Blooms continuously from May to October and pleases everyone. Each 15c; doz. \$1.25.

CAMELIA VINE



AMPELOPSIS VEITCHII OR BOSTON IVY

BIGNONIA

RADICANS.—(Trumpet Creeper.)

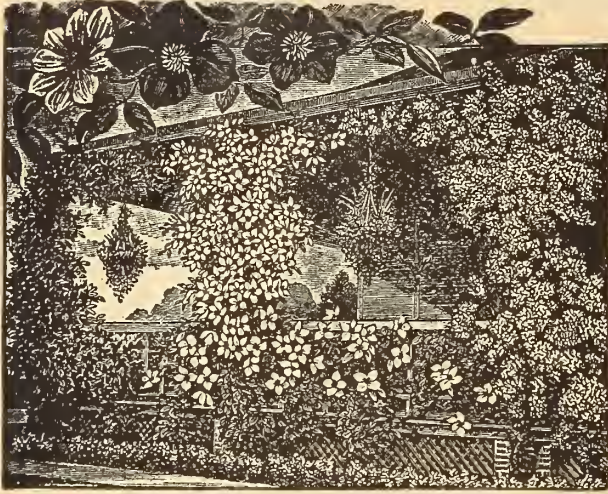
An old-fashioned hardy climber. Very desirable for covering unsightly places, stumps, old fences, and also fine for any spot when showy flowers are desired. It has clusters of large, trumpet-shaped crimson flowers with orange throat. Grows in almost any soil under trying conditions; hardy. It is one of the most popular of the hardy vines, and is useful and beautiful for any situation where a permanent vine is desired. Each 15c; large plants 25c.



ARISTOLOCHIA



BIGNONIA RADICANS



CLEMATIS JACKMANII CLEMATIS HENRYII CLEMATIS PANICULATA

HARDY CLEMATIS

The most popular climbing plant of the day, and is constantly gaining in popularity—and why should it not?—as it is hardy, standing our most severe winters with but slight protection; grows rapidly and blooms freely during the entire season.

JACKMANII.—Most magnificent and showy vine in existence; of strong, healthy growth, perfectly hardy and sure to succeed anywhere. Flowers four to six inches in diameter, of a rich, deep velvety purple, distinctly veined. It is a prince among all hardy flowering vines. It is especially adapted to open lawns or house fronts in the city or country; blooms the entire season, from July to October, bearing beautiful and lasting flowers. Strong plants, each 50c.

HENRYII.—This may be briefly described as a white-flowered Jackmanii. It is the finest of all white sorts; the same size as Jackmanii. Each 50c.

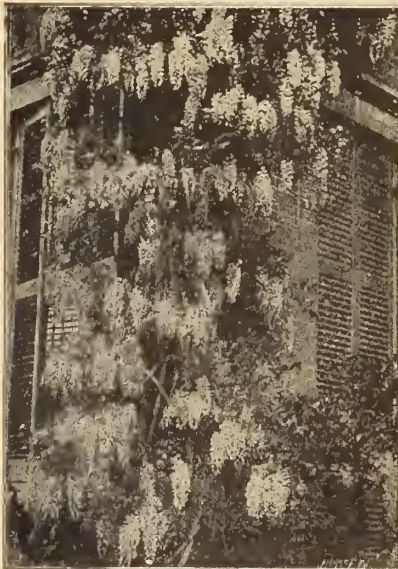
MAD. EDOUARD ANDRE.—An entirely distinct and beautiful new variety, being the nearest approach to a bright red ever sent out. Has the same vigorous growth, hardiness and freedom of bloom as the above, while the color is a pleasing carmine red. Each 50c.

PANICULATA.—This small-flowered variety of Clematis is one of our most beautiful, hardy, fall-blooming vines. The flowers, which are pure snow-white, are produced in immense clusters, fairly covering the plant with a mass of fleecy-white; deliciously fragrant. Of extreme rapidity of growth. Each 20c; large, extra strong plants 35c.

COCCINEA.—A charming variety of Clematis. Flowers are bell-shaped, and of brilliant coral red color. A rapid grower and free bloomer, flowering from June until frost. An herbaceous perennial, about 12 ft. high. Ea. 25c.

VIRGIN'S BOWER.—(Clematis Flammula.)—An old-fashioned popular climber, growing to a height of 20 feet, and covered with fragrant flowers. The vine is perfectly hardy, rapid growing, graceful, and will succeed anywhere. Each 15c; large 25c.

COLLECTION.—A large plant of each of above kinds of Clematis for only \$1.75, postpaid. A great bargain.



WISTARIA

HONEYSUCKLE

RED CORAL.—A shrubby climber and one of the most satisfactory of all plants. Has been a favorite for many years. The odd-shaped foliage is showy, and attractive and it produces its bright red, fragrant, trumpet-shaped flowers almost continuously. Nice for a hedge or for training over a residence. Each 15c; doz. \$1.50. Large plants 25c.

HALLIANA.—(Hall's Japan.)—For real home vines to climb over your windows and doorways there is nothing prettier than the Honeysuckles, and the Halliana is considered by many the sweetest and most beautiful of all. It is now planted in many places on terraces and allowed to run naturally, and it makes a lovely show treated in this way. It is a strong, rapid grower, perfectly hardy and almost an evergreen even in this severe climate. Blooms constantly and profusely from June to November. Flowers pure white changing to yellow, and of peculiarly delicious fragrance. Fine for trellises or pillars. Foliage bright, glossy green; makes dense shade. Each 10c; doz. \$1.00. Large, two-year-old plants 25c; doz. \$2.50.

GOLDEN LEAVED.—Slender, moderate grower; leaves are beautifully veined and netted with bright yellow; flowers yellow and sweet-scented; fine for pillars and trellises. Each 15c; large 25c.

I am sending you another order for plants. The plants you sent me last year came all right, and are growing fine.—Mrs. R. F. Welch, Fruitvale, California.



RED CORAL HONEYSUCKLE

Plants were received here in fine condition and took well. With care and good soil I hope to give you a splendid report in the fall.—Charles O. Prince, Canton, Ohio.

HOP VINE

A vigorous, hardy, ornamental vine, for covering old trees, outbuildings, fences, etc. Produces the hops of commerce. Grows 50 feet high in a single season. Is both ornamental and useful. Each 10c; dozen \$1.00.

SILK VINE

PERIPLUCA GRECA.—Beautiful rapid-growing climber, 30 to 40 feet high; hardy. Leaves glitter like silk, hence name. Flowers purplish brown and borne in clusters. Each 15c; large 40c.

WOODBINE

VIRGINIA CREEPER.—A strong, rapid grower; foliage large, dark green; in autumn bronze and crimson. This is an old favorite and quite common in most localities. Valuable for covering back porches, out-buildings, arbors, etc. Each 10c; doz. \$1.00. Large size 20c; doz. \$2.00.

WISTARIA

BLUE CHINESE.—A very rapid grower, and one of the most beautiful of all climbers. It is perfectly hardy, climbing to a height of fifty feet; when covered with bloom it is magnificent. Each 15c; large 35c.

WHITE.—Similar to above; flowers white. Each 20c; large 40c.

HARDY VINE COLLECTION

One *Ampelopsis*, for the buildings; one *Clematis Paniculata*, for the front porch; one *Honeysuckle*, for the trellis in the front yard or on the lawn; one *Bignonia* (Trumpet Creeper), for the fence or screen. These are specially selected for the purposes mentioned but can be used to advantage in many different ways. We send one each of the beautiful vines postpaid for 50c, or will send extra large, strong plants suitable for immediate effects, by express, not prepaid, for 75c.

LARGE-FLOWERED CLEMATIS AND CLIMBING ROSES IN PINK OR RED ARE A FINE COMBINATION FOR PORCH ADORNMENT.

HARDY SHRUBS

Shrubs are permanent improvements which increase in size, value and beauty year after year. Our price is for strong, healthy plants sent by mail, postpaid, except if they are quoted "by express" it means that customers are to pay cost of transportation. Those marked large or dormant are strong two-year-old plants.

ALTHEA (Rose of Sharon)

DOUBLE WHITE.—You will find this one of the most beautiful shrubs. Bushes of neat shape, have nice foliage and would be valuable as ornamental hedge plants even if they produced no flowers. The plants, however, are loaded with large, double, white flowers during August, September and October. Each 15c; large size 25c.

DOUBLE RED.—Similar to above but flowers are bright red color. Each 15c; large plants 25c.

DOUBLE PURPLE.—Like above, except flowers are beautiful purple. Each 15c; large size 25c.

DOUBLE BICOLOR.—White, blotched pink. Very beautiful. Each 15c; large size 25c.

VARIEGATED LEAVED.—The beautiful foliage of this variety attracts attention everywhere. Deep green, bordered with a band of creamy white. Flowers red. Each 20c, large 35c.

CALYCANTHUS

Generally known as "Sweet Shrub." Flowers purplish brown, quite double, exquisitely fragrant. Each 15c, large size 25c.

CORCORUS

JAPONICA.—(Kerria.)—A beautiful and graceful shrub from 2 to 3 ft. high; in bloom from June to October. Produces hundreds of large, double, yellow flowers. Each 15c, large 35c.

VARIEGATA.—Nicely variegated foliage adds greatly to its beauty. Each 15c, large plants 35c.

CORNUS

FLORIDA.—(White Flowering Dogwood.)—Produces large white flowers in spring, rich crimson foliage in the fall. Each 15c, large 25c.

STOLONIFERA.—(Red Twigg'd Dogwood.)—Fine white flowers; stem and branches turn blood-red in winter. Each 15c, large 25c.

CRATAEGUS

DOUBLE RED FLOWERED.—(True English Hawthorn.)—One of the finest large flowering shrubs. Covered in spring with double bright red blossoms, deliciously fragrant. Each 50c; by express, large plants, 75c.

DWARF HONEYSUCKLE

RED TARTARIAN.—Bloom in June with beautiful pink and white flowers, followed by red berries. Each 15c, large 30c.

FLOWERING ALMOND

DOUBLE PINK.—One of the earliest and finest of shrubs. Loaded with double pink flowers. Mail size 40c, large size 60c.

DOUBLE WHITE.—Like above, with snowy white flowers. Mail size 40c, large size 60c.

SNOWBALL

COMMON.—A well known and popular shrub covered with dense white flowers, which gives it its name. Each 15c, large plants each 25c.

JAPAN.—A valuable improvement on the common Snowball; flowers are smaller and more numerous, often as many as twenty on a stem 18 in. high. Ea. 15c, large 35c.

SYRINGA

GRANDIFLORA.—One of the strongest growing varieties, with lovely, large, very fragrant flowers. Ea. 15c, large 30c.

LE MOINEI.—A charmingly fragrant variety. Flowers are yellowish white. Each 15c, large plants each 30c.

TAMARIX

Foliage light, feathery and graceful; sage blue in color and very striking. It blooms through summer and autumn; flower pink. Each 10c, extra large plants each 35c.

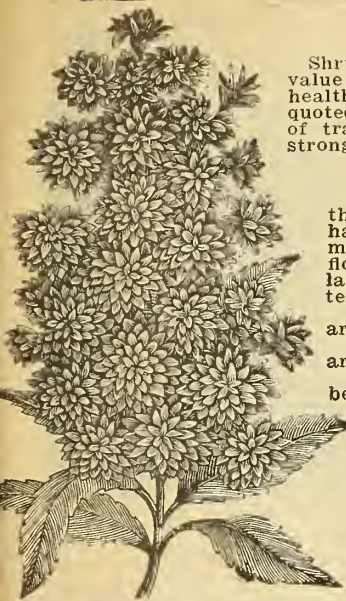
WEIGELIA

ROSEA.—Of robust but graceful growth, 5 to 6 feet high; it produces immense numbers of superb large trumpet-shaped flowers in June and July, also some in the fall. The plants frequently have more flowers than leaves. Each 15c, dozen \$1.50. Large 25c, dozen \$2.50.

EVA RATHKA.—A splendid new variety. Has large purplish red flowers with rich, creamy white markings. Each 20c, large plants 40c.

VARIEGATED.—A neat, dwarf shrub, valuable for the clearly defined variegation of green, yellow and pink in its leaves; flowers delicate pink. Each 15c, large plants 35c.

GRANDIFLORA WHITE.—Like the Eva Rathka and equally as desirable. The flowers are pure white, without shade or markings. Each 15c, large plants 35c.



PRIDE OF ROCHESTER DEUTZIA

DEUTZIA

PRIDE OF ROCHESTER.

Very desirable shrub of strong, hardy growth, with nice, luxuriant foliage and bearing an abundance of beautiful racemes of double, pure white flowers. Each 15c; large 30c.

GRACILIS.—Pretty, round, bush-shaped Deutzia, bearing pure white flowers in great numbers during May. Each 15c; large size 25c.

CRENATA.—Flowers are double white, and tinged with pink. Small 15c; large 25c.

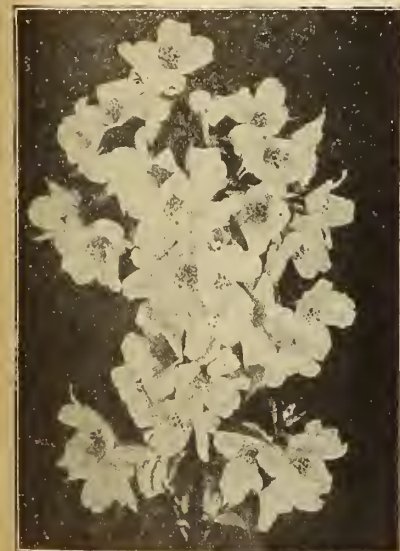
CANDIDISSIMA.—Grows about 3 feet high; bears pure white flowers. Each 15c; large plants 30c.

ELEAGNUS

LONGIPES.—(Japan Oleaster.)—Very desirable silvered foliage and bright orange berries of large size and agreeable flavor. Ea. 15c, large 35c.

FLOWERING CURRANT

The old-fashioned Missouri Flowering Currant; grows 6 to 8 feet high. Yellow flowers, foliage finely cut and attractive. Each 10c, large 25c.



ALTHEA BICOLOR

FORSYTHIA

SUSPENS.—(Golden Bell.)—Weeping or pendulous habit; has deep green leaves and bright yellow flowers. It blooms early. Each 15c, large 25c.

FORTUNIS.—A more upright growing variety; yellow. Ea. 15c, large 25c.

VIRESISSIMA.—Blooms among the first shrubs. Flowers yellow, drooping and borne in great numbers. Variety originally from China. Each 15c, large 25c.

EXOCHORDIA

GRANDIFLORA.—(Pearl Bush.)—A neat, compact bush, 10 to 12 feet; trims any shape; pure white flowers borne in slender racemes of 8 to 12 florets each. Each 15c, large 30c.

PURPLE FRINGE

Commonly called Smoke Tree. Long, feathery flower stalks. Ea. 15c, large 40c.

ROBINIA

HISPIDA.—Known as "Sweet Pea Shrub," "Flowering Locust," "Moss Locust," and "Rose Acacia." When in bloom it is really a big bouquet, full of dainty sprays of large, lovely, rose-pink blossoms of size and shape of sweet peas. Each 25c.

SAMBUCUS

GOLDEN LEAF ELDER.—The most showy of all shrubs for the lawn. It grows about 6 feet high and has wide spreading branches. Its leaves are of dark, dazzling yellow color. Each 15c, dozen \$1.50. Large plants 30c.

VARIEGATED.—A variegated green and white sort. Each 15c, large 35c.

CUT LEAVED.

Has elegantly divided leaves. Each 15c, large plants 30c.



JAPAN SNOWBALL

HYDRANGEA

NEW SNOWBALL.—(*Arborescens Grandiflora Alba.*)—A magnificent new variety of the hardy hydrangea. Flowers are borne much more profusely than on the *Paniculata* and though the blooms are not so large they are pure white and more like the Snowball. Blooms in July and August when flowers of this type are scarce and is especially valued for this reason. Each 15c, large 35c. Two-year-old plants, by express, per dozen \$2.50, per 100 \$18.00.

PANICULATA GRANDIFLORA HYDRANGEA.—The grandest and most popular of all shrubs, and hundreds of thousands of them are sold every year, and the demand is constantly increasing. It is unsurpassed for the lawn, a hedge, or cemetery planting. It readily attains a height of 5 to 7 feet; is hardy in all localities and in July and for two or three months the flowers are massive, cone shaped, sometimes 10 inches in length, and changing from the original pure white to pink, and finally to a beautiful, rich, coppery red. Each 10c, doz. \$1.00. Per 100, by express, \$7.00. Large dormant plants each 30c, doz. \$2.50. **Special.**—Two-year-old plants grown specially for hedges, by express, per 100 \$12.75, 25 for \$3.50.

TREE HYDRANGEA.—Large, specially grown plants of *Paniculata Grandiflora* in symmetrical tree form. Each, by express, 75c.

LILAC

PERSIAN.—A well known and strong growing shrub, bearing large, fragrant clusters of purple flowers very early in the spring. Each 20c, large plants 35c.

FIERY PLUME.—A novelty in lilacs. The brightest and nearest red flower of all the lilacs. Very showy and desirable. Ea. 25c, large 50c.

NEW DOUBLE WHITE.—This is a recent novelty of great merit and the finest flowering shrub introduced for many years. The truss is of large size, and produced in profusion. The individual flowers resemble miniature tuberoses. Each 25c, large plants 50c.

COMMON.—The old standard variety with bluish purple flowers. Each 15c, large plants 25c.

SINGLE WHITE.—Like above, but has white flowers, making it more desired by some. Each 15c, large plants 35c.

SPIREA VAN HOUTTEI (*Bridal Wreath*)**SPIREA**

BILLARDI.—A strong growing variety; pink flowers. Each 15c, large plants 35c.

PRUNIFOLIA.—Plant of symmetrical growth; bears, long, graceful sprays of pure white flowers in great profusion. Blooms in May. Perfectly hardy; always satisfactory. Ea. 10c, large 25c.

DOUGLASSI.—Somewhat larger flowered than *Billardii*. Spikes of deep rose-colored flowers. Each 15c, large plants 25c.

ANTHONY WATERER.—Grows 18 to 36 in. high, and is covered from spring until fall with large heads of crimson flowers. Fine for borders. Each 10c, doz. 85c; large 25c, doz. \$2.00.

VAN HOUTTEI.—(*Bridal Wreath.*)—Fine, compact clumps with pure white flowers borne in such masses that they form great plumes, drooping gracefully. Each 15c, doz. \$1.25, 100 for \$8.50. Large, each 25c, doz. \$2.00, 100 by express \$14.00.

THUNBERGIA.—Slender, gracefully drooping branches. Has single white flower. Blooms early. Each 15c, large plants each 30c.

CYDONIA JAPONICA

JAPAN QUINCE.—A thorny shrub used for fences or division hedges where protection is desired. Larger than *Barberry*. Bear training to form without damage. In the spring it is completely covered with dazzling scarlet flowers. Ordinary size, by express, per doz. \$1.25, 100 for \$8.00. Large, each 35c, doz. \$3.00, 100 for \$18.00.

SYMPHORICARPUS

RACEMOSUS.—(*Snowberry.*)—Bear small pink flowers, followed by large white berries, which hang on most of the winter. Very showy and desirable. Small plants 10c, large 25c.

VULGARIS.—(*Coral Berry.*)—This is a nice hedge plant, growing naturally graceful, 2 to 3 feet high, and thrives throughout the country. It is frequently seen growing wild in meadows and in woodlands. Large plants, by express, per dozen \$2.00, 100 for \$12.00.



HEDGE OF HYDRANGEA PANICULATA GRANDIFLORA

HEDGE PLANTS

Ornamental hedges are very popular, especially among dwellers in towns and cities; used for boundaries and screens. Most desirable for landscaping and add an effect not secured in any other way.

PRIVET

CALIFORNIA.—A most vigorous grower of compact and regular form; foliage is a beautiful shade of glossy, wax-like green which it retains well into the winter, being almost an evergreen. Sometimes winter kill in this latitude but is hardy throughout the east and south. For hedges plant 8 to 10 inches apart. Strong one-year-old plants per doz. 75c; per 100 \$6.00, prepaid. By express, per 100 \$5.00; 500 for \$17.50.

ARMURENSE.—Makes a splendid formal hedge about a home in city or suburbs. Is a very handsome plant with glossy leaves and almost an evergreen. Stands the severest winters. Hardest of all privets and the

most popular among northern planters. South of Iowa line the California variety is generally more popular. Ea. 15c, doz. \$1.50, 100 \$11.50, prepaid. By exp., 100 \$9.00.

BARBERRY

PURPLE LEAVED.—Well formed spiny shrub growing 2 to 3 ft. high. Handsome hedge plant; foliage always clean; deep, rich plum color; does not fade out in summer. Each 15c, doz. \$1.50, postpaid. Extra large and strong specimen plants 35c, \$3.00 per dozen. By express, 100 for \$12.00.

THUNBERGII.—A very pretty variety from Japan; dwarf, graceful habit; foliage is small, changing to beautiful bright red early in fall; showy. One of the prettiest hedge plants ever grown. Ea. 15c, doz. \$1.50. Large plants 25c; doz. \$2.50.



HEDGE OF AMURENSIS PRIVET



HEDGE OF BARBERRY

HARDY PERENNIAL PLANTS

It is really wonderful the immense demand which there has been for these hardy plants during the past few years, our trade in this line multiplying fourfold every year. Our customers are learning that they require less care and are more satisfactory with ordinary culture than most other classes of plants. When once set out they bloom year after year, the flowers really becoming better as the plants grow older. These varieties are all hardy, the tops dying down every winter, but coming up again in the spring. We prepay the postage on all of these.

ANEMONE

WHIRLWIND.—Beautiful Japanese Anemone; has proved one of the finest hardy fall-blooming plants cultivated; grows to a height of 3 feet, holding up on stiff stems double flowers from two to three inches across, of pure white, and heavy, waxy texture. A large bed of this is worth going miles to see, and the large, graceful flowers are fine for cutting. Each 15c, doz. \$1.50.

QUEEN CHARLOTTE.—Similar to above but earlier and of beautiful shell pink color. An early flowering pink Anemone. Each 15c, doz. \$1.50.

ACHILLEA

THE PEARL.—Beyond question the finest of all plants for cemetery planting. The flowers are good sized, forming a beautiful plant 18 inches high, completely covered with pure white flowers from July until frost. We cannot too highly recommend this for general planting. Cut shows the heads of bloom which cover the plant. Each 10c, dozen 75c.

MILIFOLIUM ROSEUM.—Finely cut, deep green foliage. Bears a mass of handsome, bright pink flowers in heads or umbels. Well worth growing, both as a border plant and for cutting. Each 10c, doz. \$1.00.

AQUILEGIA

These beautiful flowers, often called Columbines, are always beautiful and attractive, reminding one of the woods. Many handsome colors. Each 15c, doz. \$1.25. Large clumps 25c.



CANTERBURY BELLS



AQUILEGIA



PEARL ACHILLEA

BABY'S BREATH

(*Gypsophila Paniculata*.)—This possesses a grace not found in any other perennial, and when in bloom it forms a symmetrical mass 2 to 3 feet high, of minute white flowers, giving it a beautiful mist-like appearance. For cutting purposes it is exquisite, especially in combination with high-colored flowers. Each 10c, doz. \$1.00.

CANTERBURY BELLS

We can furnish assorted colors. These are wonderfully fine perennials, which if well grown will often reach 3 feet in height. Color of flowers blue, rose or white. Each 10c, dozen \$1.00. Large clumps, each 25c.

DOUBLE BUTTERCUP

This is a dainty little novelty. The flower is from one-half to three-fourths inch in diameter, perfectly double and of a peculiarly shining bright yellow color, as if varnished; blossoms produced in greatest profusion. Ladies and children go into ecstasies over them. Each 15c, dozen \$1.50.

DICENTRA (Bleeding Heart)

SPECTABILIS.—The old Bleeding Heart, as lovely as ever. In early spring it bears its long chain of pendulous bloom of exquisite beauty. One of the most satisfactory of permanent plants, and a general favorite. To secure satisfactory results, keep soil loose and rich. Each 15c, dozen \$1.40.

DAY LILY

WHITE.—(*Funkia*.)—Very beautiful plant for partly shady places. Large, round, heart-shaped leaves, clusters of fragrant, lily-shaped white flowers. Each 15c, dozen \$1.50.

BLUE.—Like above. Lovely blue, borne on tall spikes. Ea. 10c, doz. \$1.00.

VARIEGATED.—Beautifully mottled dark green and pure white leaves, lilac flowers. Each 15c, dozen \$1.50.

ONE EACH OF THE 3 VARIETIES OF DAY LILY POSTPAID FOR 30c.

DELPHINIUM

FORMOSUM.—(Hardy Larkspur.)—Its long spikes of bright blue flowers are produced continually from June till frost. Handsome in clumps. Ea. 15c, doz. \$1.50.



BLEEDING HEART



WHITE DAY LILY



GAILLARDIA GRANDIFLORA

doz. \$1.50. Large clumps 25c.

MEHAN'S MARVEL MALLOW

Magnificent hardy Mallow; in size, profusion of bloom and rich coloring among the most beautiful and striking perennials. Blossoms 8 to 10 inches across. Colors from fiery crimson to pure white. All shades of pinks and reds, rich in coloring. Ea. 20c, doz. \$2.00.

HIBISCUS

CRIMSON EYE.—Robust grower, with red stems and green foliage. Flowers are immense, often measuring 20 inches in circumference. Color is white with large spot of deep, velvety crimson in the center of each flower. Is perfectly hardy. Each 15c, doz. \$1.25. Extra large 20c.

MOSCHETUS.—Also called Swamp Rose Mallow. A splendid Hibiscus with eye of darker shade, free flowering and beautiful. Each 10c, doz. \$1.00.



JAPANESE IRIS

JAPANESE IRIS

Among the most beautiful summer flowering plants. They send up to a height of 3 feet a dozen flowering spikes, each bearing two to four blossoms 8 or 10 in. across, and of most beautiful markings and color combinations—white, indigo, purple, bluish, yellow, etc. Except the orchid no other can compare with it; easily grown as a potato, in any good soil. Give full exposure to sun. A joy for a lifetime, blooming freely in June and July. Can supply all colors. Double mixed each 15c, dozen \$1.50. Single mixed each 15c, dozen \$1.25.

IRIS SIBERICA

A favorite variety with blue flowers. Foliage is smaller and much finer than the German Iris and more nearly resembling the Japanese. Each 15c, dozen 60c.

SUCCESSION IRIS BED

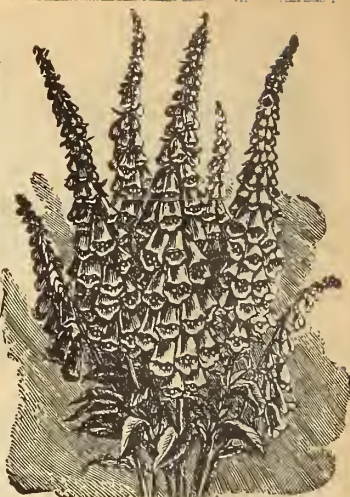
One plant each of the twelve named sorts of German Iris, giving a contrast of color from first early spring to the middle of June, postpaid, for only \$1.00. This collection in field-grown clumps for immediate effect at \$3.00.

FOXGLOVE

(Digitalis.)—These are most satisfactory summer flowering hardy perennials, succeeding under almost all conditions, and with but trifling attention will give wealth of flowers during June and July. They are used extensively with good effect in shrubberies and in other shady situations. Each 10c, dozen \$1.00.

GAILLARDIA

GRANDIFLORA.—Begin to flower in June and continue one mass of bloom the entire season. Will thrive in almost any position or in any soil, but respond freely to liberal feeding. Being perfectly hardy, they require absolutely no protection. The flowers are large, from 2½ to 3½ inches in diameter. They are produced on long stems, excellent for cutting and of gorgeous coloring. Center is dark reddish brown. Petals brilliant scarlet, crimson, orange and vermilion. Each 15c, doz. \$1.50. Large clumps 25c.



FOXGLOVE

GERMAN IRIS

The true "Fleur-de-Lis," the national flower of France. Perfectly hardy, thrive anywhere, grow and bloom luxuriantly. Unless otherwise noted, price of any variety is 10c each, doz. \$1.00. Large clumps each 30c, dozen \$3.00.

ALEXANDER HUMBOLDT.—Has standards of violet, falls purple, veined white. Bears large, bold flowers in clusters of five on strong stems.

CELESTE.—Large, open flower of pure celestial blue, changing to porcelain blue as it ages.

FLAVESCENS.—Standards cream white, falls primrose veined bronze. Tall growing and late blooming.

FLORENTINA.—Rich indigo blue throughout. Flowers large, first in bloom and quite lasting.

FLORENTINA ALBA.—The best white iris. A lovely soft shade of color, very early and fine. Plant with Florentina for contrast.

HONORABLE.—Standards bright yellow, falls chestnut brown, veined white. Free bloomer. Striking in contrast planting.

LA TENDRE.—Standards lavender, falls light blue, thickly veined violet. Very pleasing, clean, bright color.

MADAME CHEREAU.—Pearly white, edged with a broad margin of violet. The flowers are crumpled beautifully. A satisfactory late sort.

GYPSY QUEEN.—Standards a rich cream yellow. Falls deep purple, shaded with bronze. Medium height. Very free bloomer.

PLUMER.—Clear wine red throughout. A distinct color in iris. Plant throws tall stalk and is free bloomer. Each 15c, dozen \$1.50.

SAN SOUCI.—Unique color combination, violet and yellow, flushed apricot. Blooms freely.

SHAKESPEARE.—Standards of light yellow, veined seal brown, falls deep carmine violet. Striking in beauty.



GERMAN IRIS

HOLLYHOCK

These old favorites are again becoming popular. Both showy and desirable for massing and backgrounds. Mixed colors, including black, white, pink, yellow and red. Each 15c, doz. \$1.50.

HELIANTHUS

MULTIFLORUS PLENUS.—Has flowers from 2 to 4 inches across, double as any double dahlia, and cover the plant. Color is a bright golden yellow. Give it a sunny position and rich soil. Each 15c, dozen \$1.75.

IBERIS

SEMPERVIRENS.—(Perennial Candytuft.)—A dwarf plant producing clusters of handsome flowers. A fine perennial for mass bedding. A mat of bloom in spring. Each 10c, dozen 90c.



IBERIS [PERENNIAL CANDYTUFT]

NO HARDY PLANT BETTER FOR PERMANENT BEDS THAN IRIS. THEY INCREASE IN NUMBERS AND BEAUTY EACH YEAR.

SUPERB PÆONIES

The Paeony is truly a most noble flower and rivals the rose in brilliancy of color and perfection of bloom, while greatly surpassing it in size and stately grandeur. One writer has well said that the "Paeony fully equals the rose except in poetry, perfume, thorns, bugs and disease." They are of the easiest culture, most

vigorous habit, and free from disease and insects. The foliage is rich, glossy and ornamental, even when plants are not in bloom. Many of the newer varieties are quite fragrant and no other flower is so well adapted for large and showy bouquets. Plant the paeonies this year, plant lots of them in rows, beds or as specimen plants on the lawn. They make a grand show. May be transplanted either in spring or fall. Set out early in spring as possible. Fall planting should be done in September or October, and they should be protected the first winter slightly. They may be left undisturbed for twenty years or more. In planting set the crowns two inches below surface. We pay postage.

WHITE PÆONIES

FESTIVA MAXIMA.—(See Cut No. 1.)—By far the finest double white paeony grown. The flower is of immense size, perfectly globular, the guard petals being large, while the inner petals are crimped, thus making it appear extremely double. The color is of the purest snow white with sometimes slight carmine marks in the center. Our price only 50c, doz. \$5.00.

COURONNE D'OR.—This is a peculiar variety in form, as the blooms are rather flat, but in the center is a tuft of white, with a few crimson splashes like Festiva Maxima. It grows medium height and blooms rather later than other white sorts. Strong and vigorous. Each 50c.

QUEEN VICTORIA.—(See Cut No. 2.)—Very double and compact; color flesh white, white center, petals lightly spotted with red. A half dozen of these make a magnificent bed. Each 25c, doz. \$2.50.

GOLDEN HARVEST.—This is probably the nearest approach to a yellow paeony. Outer petals light blush, light yellow center. Very prolific, bearing flowers in clusters of three. Each 60c, dozen \$5.50.

MARIE LEMOINE.—A rare and magnificent variety; flowers are enormous, opening a light blush pink, changing to white when flower is mature. Very late bloomer. Scarce. Ea. 50c, doz. \$5.00.

PINK AND ROSE PÆONIES

EDULIS SUPERBA.—This is a very large, full flower of light pink. It is an old variety but is still popular because of its strong growth and immense clumps. Each 25c, dozen \$2.50.

FRAGRANS.—A very double flower of deep, bright rose. Blooms late in the season. Strong, robust grower. Each 25c, dozen \$2.50.

HUMEL.—(See Cut No. 3.)—Very large and full and one of the finest paeonies; color is bright pink and it is delightfully fragrant. Elegant foliage. A fine specimen for lawns. Blooms late. Each 25c, dozen \$2.50.

FLORAL TREASURE.—(See Cut No. 4.)—One of the finest in the entire list. The flowers are extra large and very double; exceedingly prolific; color soft, delicate blush pink. Each 40c, dozen \$4.00.

LA ESPERANCE.—Is an exceedingly fine, vivid rose-colored flower, growing compact and highly perfumed. Early and free flowering. Each 30c, dozen \$3.00.

DUKE OF CLARENCE.—The most prolific bloomer in the list. Wonderful large blooms somewhat coneshaped. Color is deep pink, overlaid white, showing a composite appearance. Each 35c, dozen \$3.50.

BRIGHT AND DARK RED PÆONIES

FELIX CROUSSE.—This is a most beautiful solid flower of bright red color, differing from most sorts in the solid flower having practically no division of outer petals and center. Very double; late flowering. Each 35c, dozen \$3.50.

GRANDIFLORA RUBRA.—(See Cut No. 5.)—Has extra large balls of blood red, magnificent flowers. Probably the largest red variety in existence, often 8 or 9 inches across. Give it rich soil and you will be surprised. Each 50c, dozen \$4.75.

RUBRA TRIUMPHANS.—An early blooming and very sweet-scented flower of rich, brilliant, glowing, satiny crimson color. Each 35c, dozen \$3.00.

FULGIDA.—The color is a deep, dense, bright crimson and it is an early and free bloomer. A beautiful and very desirable variety. Each 25c, per dozen \$2.50.

PRINCE IMPERIAL.—Deep, purplish crimson, shining and satiny. The flower is very double, rich and striking and blooms early. A splendid sort for contrast with the lighter shades. Each 50c, dozen \$4.50.

OUR PÆONY BARGAIN

One white, one pink, and one red, our choice of varieties, but good plants and will produce good flowers. A real bargain this season.

THREE DIFFERENT COLORS, POSTPAID, FOR 60 CENTS.



FIVE FAVORITES PÆONY COLLECTION

REMARKABLY FINE FOR A PERMANENT BED

One strong root of each of five choice varieties, five beautiful colors, postpaid, for only \$1.50.

All are free bloomers, with flowers of largest size, and the contrast in colors will afford the grower the greatest opportunity for mixed bouquets of these wondrous blossoms. In our opinion, these are the most gorgeous flowers, and this the greatest opportunity in all our hardy plant department.

Festiva Maxima.—White, blotch of red in center.

Queen Victoria.—Like above, somewhat smaller.

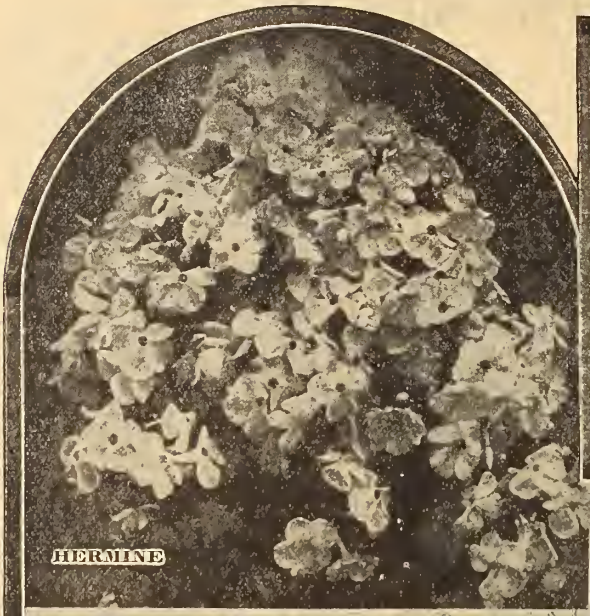
Floral Treasure.—Light rose pink; very fine.

Humel.—Bright pink, brighter than above.

Grandiflora Rubra.—Deep blood red.

Five Favorite Paeonies, \$1.50, Postpaid

THE FIVE FAVORITE PÆONY OFFER IS ONE OF THE BEST BARGAINS IN ENTIRE CATALOGUE FOR PERMANENT PLANTING.



HERMINE



HARDY PHLOX

No hardy perennials are more showy or effective than a fine collection of hardy phloxes, and the new and improved varieties will add much to their popularity. Flowers are very large and have exceedingly brilliant shades of color. They bloom from spring until very late fall. If massed in good soil, kept loose, the result will be a splendid show of immense flowers intermingled red and white.

CHAMPS ELYSEE.—A light purple or magenta blossom which is quite attractive. It is rather a dwarf sort, but a good grower and produces large blooms. Each 15c.

COLUMBI.—A very late bloomer of good size and form. Color white with crimson center. General appearance is bright with decided contrast in color. Each 15c.

EUROPA.—A splendid new sort of bright, attractive appearance. Florets are white with rose pink eye. The plants grow tall and strong and bear large heads of bloom in abundance. Each 15c.

ECLAIREUR.—Light purplish crimson with an outer shading of lighter pink. An attractive flower and plant of good habit. Each 15c.

HERMINE.—Most dwarf sort, growing only about 10 inches high. Pure white flowers. Suitable for outer edging of phlox bed. Each 10c.

HENRY MURGER.—Flowers extra large, florets white with very large crimson center. A fine variety. Ea. 15c.

LE PROPHET.—Large flower of dark bluish violet. One of the best of this shade. Each 20c.

MISS LINGARD.—A tall growing sort with large blooms. Florets white with rather small red eye. Early and free bloomer. Each 15c.

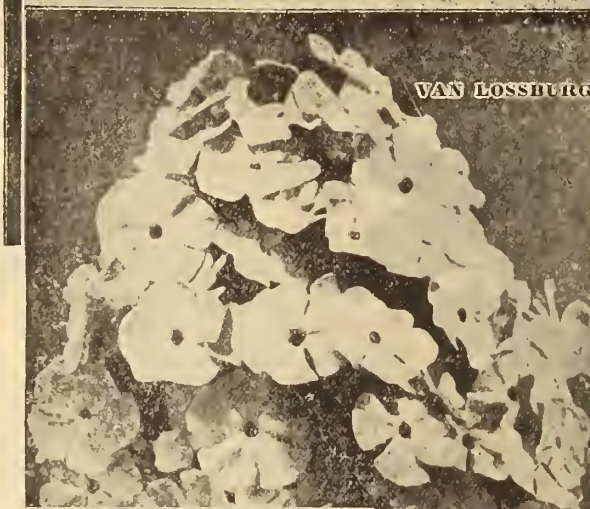
OBERTARTNER WITIG.—This is one of the finest of phloxes. Strong growth, large truss and flower of bright purplish red with bright carmine eye. Each 15c.

PANTHEON.—Bright carmine rose blossom of great beauty. One of the most popular. Each 15c.

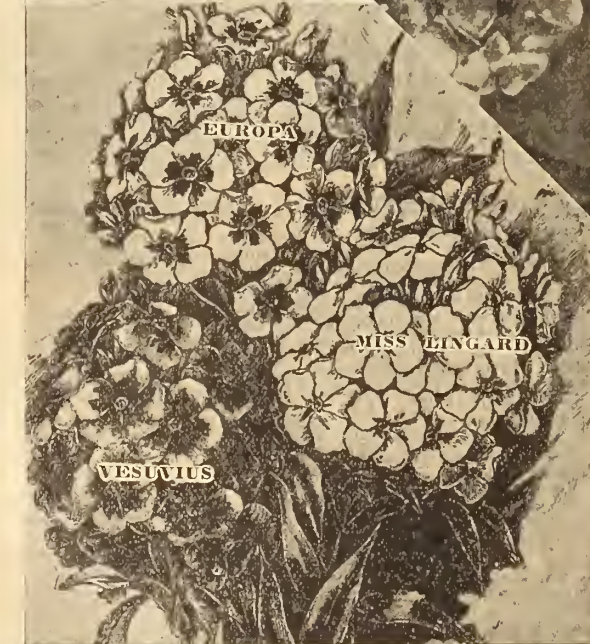
VAN LOSSBURG.—A magnificent pure white variety. Not only the flower heads are extra large, but the individual florets are larger than ordinary kinds. Each 10c.

VESUVIUS.—This is a very bright, attractive sort. In color bright red with purple eye. A combination quite distinctive. Good bloomer on strong plants. Each 15c.

MIXED VARIETIES.—A fine assortment. Each 10c; dozen 85c. Large field-grown clumps, each 25c.



VAN LOSSBURG



EUROPA

MISS LINGARD

VESUVIUS

CREeping PHLOX

(Phlox Sublata.)—The Creeping Phloxes have a charming beauty and, for general usefulness, are not surpassed by any flower that grows. They will thrive in any situation, except a very shady one; and in any soil, no matter how poor, unless it is very wet. They are absolutely hardy without protection. They have neat, evergreen foliage, and when in bloom, during the months of April and May, their multitude of lovely pink, white or blue flowers cover

everything beneath as completely as carpets cover the floor. Bloom again in September, but not so freely. They do well on good soil, but are also desirable for covering rocky hill-sides, sandy slopes, bare ground too poor to grow anything else, and for edging borders of hardy plants or shrubbery they are not to be surpassed. Botanically known as Phlox Sublata. We can furnish three colors: Pure white, deep pink, and light blue. Each 10c, dozen 75c, per 100 \$5.00.



PHLOX SUBLATA, OR CREeping PHLOX

A FEW PLANTS OF PHLOX WILL MULTIPLY EACH YEAR IF DIVIDED, AND SOON FORM A LARGE BED OF SPLENDID BLOOM

GARDEN PINKS

Dwarf hardy garden plants that will grow anywhere and increase in beauty every year. A universal favorite because of its delightful clove-like fragrance.

LAURA WILMER.—A choice variegated sort of great beauty. Each 10c, dozen \$1.00.

ABBOTSFORD.—Deep carmine, marbled with white; has clove fragrance. Each 15c, dozen \$1.25.

ELSIE.—Bright rose with maroon center. A general effect pleasing and attractive. Each 15c, dozen \$1.50.

WHITE RESERVE.—A clear white. Each 15c, dozen \$1.50.

HER MAJESTY.—A grand variety; plants grow to an immense size, spreading and producing great numbers of pure white, double flowers. Ea. 10c, doz. \$1.00.

HOMER.—Flower contains a dark center in bright red ground color. Each 15c, dozen \$1.50.

MIXED VARIETIES.—Desirable for large beds or borders. Doz. 65c, 100 for \$4.00.

Large clumps named varieties of Garden Pinks 25c each, per dozen \$2.00.

PERENNIAL ASTER

Very showy, strong growing and free flowering, presenting a mass of small, bright flowers in large clusters during late summer and autumn. Many shades of color. Each 10c, dozen \$1.00.

POPPY

ICELAND.—Has fern-like foliage; bears an immense number of elegant flowers. Ea. 15c, doz. \$1.25.

ORIENTAL.—Mammoth flowers of gorgeous colors. Each 15c, dozen \$1.25.



GOLDEN GLOW

RUDBECKIA

GOLDEN GLOW.—A glorious, well known and very popular hardy plant that should find a place in every garden. It is of extra fine habit; vigorous growth, with early, continuous and immense blooming qualities. The stems are long and gracefully poised. It attains a height of 6 to 8 feet, and a small plant set out in the spring will produce hundreds of blossoms during August and September, each as large as a good sized chrysanthemum. It is of easiest culture and is sure to please all. Nice for screen row at back of lawn. Price 10c, doz. \$1.00.

PLATYCODON

(Wahlenbergia)

A bushy, herbaceous plant 2 to 3 feet, with handsome, deep green foliage and bearing grand clusters of beautiful white, lavender and blue, large, bell-shaped flowers; blooms very profusely and continuously all summer. Each 15c.

BLUE SPIREA

(Caryopteris.)—This is a handsome shrubby plant for pots or open ground. Bloom from midsummer until heavy frosts. Each 10c, doz. \$1.00. Field grown, each 25c.

SWEET WILLIAM

Well known, free blooming, hardy perennial plants which produce masses of lovely, brilliant, sweet-scented flowers through a long period, making a splendid effect in beds. One foot high. Flowers are borne on heads or umbels with individual flowers nearly an inch across. Color white, pink, crimson, purple, etc., with rich markings. Each 15c; dozen \$1.00.

**VIOLETS**

Of all perfumes that of violets is no doubt the most delicate and pleasant. Grow and bloom freely if given a cool situation, but will not succeed in a warm place. Cover well to insure protection in winter.

SWANLEY WHITE.—Finest double variety. Of vigorous growth, producing a great many pure white, double flowers. Has such delightful odor it is called "Queen of Fragrance." Each 15c, dozen \$1.50.

MARIE LOUISE.—To contrast with white. Color deep violet blue; very fragrant; continual bloomer. Is of easy growth. Each 15c, dozen \$1.50.

CALIFORNIA.—Grand single variety. Is a sturdy grower with dense, heavy foliage and free from disease. Flowers fragrant a clear, unfading violet blue. Hardest of all. Each 10c, dozen \$1.00.

PRINCESS OF WALES.—Broad, pansy-like flowers of a beautiful violet purple shade, with lighter center. A vigorous growing plant with clean, healthy foliage and stiff, long stems. Each 10c, dozen \$1.00.

YUCCA

FILAMENTOSA.—(Adam's Needle.)—Tropical looking plant with long, narrow leaves, remains green entire year. Grows in clumps and throws up flower stalks from 3 to 4 ft. high, from which hang 100 to 300 creamy white, bell-shaped flowers. It blooms a long time. Ea. 15c, doz. \$1.50. Strong two-year-old 30c.



YUCCA FILAMENTOSA.

SHASTA DAISY

SHASTA DAISY

This is one of the most marvelous productions in the flower line. It can be grown out of doors by anybody where it is not cold enough to kill oak trees. It is perennial and blooms better and more abundantly each season. The flowers are extremely large and graceful, averaging about 4 inches in diameter, with three or more rows of petals of the purest glistening whiteness, and are borne on single, stiff, wiry stems, nearly 2 feet long. Strong plants 15c each, dozen \$1.25. Field grown clumps 25c.

SEA PINK

ARMERIA, OR THRIFT.—Foliage narrow and grass-like; bears compact heads of flowers of handsome pink. Entirely hardy. Ea. 10c, doz. \$1.

TRITOMA

PFITZERI.—Sometimes called Flaming Torch or Red Hot Poker Plant. At floral exhibitions and when sent out as cut flowers to market, it attracts great attention. Grows from 3 to 4 feet high, the flower measuring 12 to 15 inches long; dazzling scarlet tinged rich orange. Each 15c,



TRITOMA PFITZERI



HARDY WATER LILIES

The constantly increasing demand proves the coming popularity of aquatics. Their requirement is very simple, only sunshine, shallow water, and rich soil being necessary. Artificial ponds can easily be made or you can grow them in tubs or tanks. Most of the varieties are also adapted for growing in aquariums.

WHITE POND LILY.—The ordinary water lily which sometimes grows wild in western lakes and ponds. Its beauty, fragrance and delicacy make it much sought after and very popular. The flowers are pure white with yellow stamens, and too much cannot be said of its exquisite loveliness. It is not difficult to grow as it is indigenous to this section and perfectly hardy. Strong roots each 30c, dozen \$3.00.

YELLOW POND LILY.—(Nymphaea Flava.)—Has flowers of golden yellow color. Each 60c.

PINK POND LILY.—(Nymphaea Odorata Rosea.)—This is the well known pink pond lily of Cape Cod. While not so hardy or productive as our western pond lily, the beauty of the flower, with its delicate coloring, make it a desirable variety, and even one blossom will repay the grower with its loveliness for the care and labor bestowed upon it. It is hardy and not difficult to grow. Strong roots each 65c.

POND LILY COLLECTION

One each of the following beautiful pond lilies by mail, postpaid, only \$1.40:

- White Pond Lily
- Yellow Pond Lily
- Pink Pond Lily

AQUATIC PLANTS FOR INDOOR USES



WATER HYACINTH

WATER HYACINTH.—Is one of the most remarkable, curious and beautiful of plants. Floats in the water, forming a lovely rosette of its curious shining green leaves; throws up spikes of most exquisite flowers. In color a beautiful, soft, lilac rose, sparkling as if covered with diamond dust.

The upper petal has large metallic blue blotches and in the center of that a small golden yellow spot. Each 15c.

PARROT'S FEATHER.—A dainty little jewel; its trailing stems are covered with whorls of most exquisite foliage, as finely cut as leaves of cypress vine, but still more delicate. Each 15c.

UMBRELLA PALM.—(Cyperus.)

—A very ornamental plant which throws up slender, round stems about two feet high, surmounted at the top by a whorl of flat, ribbon-like leaves, diverging horizontally, thus giving plant a very curious and fantastic appearance. It is a splendid decorative plant, being as ornamental as a palm or fern, and above all it is as easily grown as the commonest weed, and will thrive in the shade as well as in the sun. It is an excellent plant for the dining-room table or as a water plant in the very moist spots, or for aquariums or fountains. It should have an abundance of water, although it will do fairly well in dry soil. We sell thousands of these plants and they are always satisfactory to our customers.



CYPERUS OR UMBRELLA PALM
Each 10c, larger 25c and 50c each.

AQUARIUM COLLECTION

FOR THE FANCY FISHES

Ten Stems Cabomba

- 1 Ludwigia
- 1 Bunch Salvinia
- 1 Water Hyacinth
- 1 Parrot's Feather

Postpaid for only 65 cents



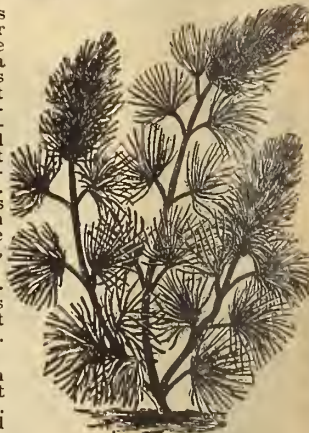
PLANTS FOR AQUARIUMS

CABOMBA, or Aquaria Moss.—Is the prettiest plant in existence for growing in aquariums, and also the most valuable. The foliage is of a beautiful light green, and the leaves spread out like a fan, which gives it the name of Fanwort. Leaves beautifully and regularly cut and resemble a delicate lace fern. It grows all the year round, but it looks a great deal better during the fall and winter months than during the spring. May be broken any length and roots readily. Should be weighted down in the water so the base of stems are in the sand. Bunch of ten stems 25c, postpaid.

SALVINIA.—This is a small floating aquatic plant, nice for fish globes or small aquariums. Leaves are soft green, with delicate, hairy surface. Per bunch 15c, dozen \$1.50.

LUDWIGIA.—A pretty plant with smooth green leaves, variegated at certain seasons with yellow and red. It grows nicely in pots, vases and hanging baskets. Ea. 10c, 6 for 50c.

SAGITARIA.—A grass-like plant quite desirable for aquariums. Grows rapidly. Leaves are long and ribbon-like and present a pleasing appearance and add much to the beauty of aquarium when submerged in the water. Each 15c.



NURSERY STOCK

All fruit trees on this page are two and three years old, five to seven feet high, carefully packed, and are sure to please.

Orders cannot be executed after May 1st, as stock does not transplant well after the growth begins.

Fifty or more of any sort sold at the hundred rate; purchaser to pay transportation charges by express or freight on all nursery stock unless otherwise quoted. Orders must amount to at least one dollar. These are shipped direct from the nursery and cannot be sent with other goods. Ask for special prices on large orders.

CHERRIES

Price 40c each, dozen \$4.50, 100 for \$35.00

EARLY RICHMOND.—Medium size, dark red, juicy, acid flavor. Unsurpassed for cooking. Standard early variety in Middle West

MONTMORENCY.—Large red acid cherry, is larger than Early Richmond and about ten days later. A superior sort for home use

ENGLISH MORELLO.—Deep, dark red. Late.
WRAGG.—Large, late acid variety, dark purple; very productive.

CRAB APPLES

Price 25c each, \$2.50 per dozen.

HYSLOP.—Small, dark red, splendid variety.

TRANSCENDENT.—Small, yellow, popular variety.

WHITNEY.—Large, bright red, vigorous and productive.

PEACHES

Each 25c, dozen \$2.50, 100 for \$15.00.

CROSBY.—Medium size, bright orange yellow, streaked with carmine. One of the best standard sorts and claimed to be the hardest of all. Ripens in September.

CHAMPION.—Fruit large, beautiful in appearance, excellent flavor, skin creamy white with red cheeks, extremely hardy with free stones. Ripens in late August.

ELBERTA.—The most popular early market sort. Large, bright lemon yellow, with blush cheeks. Ripens in early August.

BOKHARA.—Originally from Russia. Grown successfully in Iowa. Freestone. Fruit medium size, handsome yellow with blush cheek; flesh white, juicy, fine flavored. Medium early.

PLUMS

By exp., each 40c, doz. \$4.50, 100 for \$35.00.

ABUNDANCE.—Hardest of Japanese varieties. Large, showy and fine quality.

BURBANK.—Considered by some to be the best of all the European sorts. Color clear cherry red with thin lilac bloom. Flesh deep yellow, very sweet and agreeable.

DESOTO.—Bright red. Very prolific, of good quality. A standard native variety.

FOREST GARDEN.—Large, mottled red and yellow, very sweet and rich.

WEAVER.—Flesh firm, red, juicy, with flavor resembling apricot, freestone, early bearer and very productive, hardy and said to be curculio proof.

WILD GOOSE.—Large, rich and melting; delicious. Strong grower and prolific.



DUCHESS AND JONATHAN APPLE.

APPLES

Price 25c each, \$2.50 per doz., 100 for \$15.00.

Summer Varieties.

YELLOW TRANSPARENT.—Very early; light yellow; medium size; juicy, sub-acid.
RED JUNE.—Choice quality, very early, bright dark red, small to medium size.

BENONI.—Medium size, bright red; rich flavor, tender and juicy. Very productive.

DUCHESS.—Yellow, striped red; medium to large; extremely hardy and productive.

EARLY HARVEST.—Large, golden yellow; splendid quality. Very popular in Iowa for many years.

Autumn Varieties.

MAIDEN'S BUSH.—Yellow with beautiful blush cheek. Good quality. Medium large.

FAMEUSE.—(Snow Apple.)—Deep dark red, flesh very white, juicy and rich. Splendid sort.

RAMBO.—Small to medium, striped yellow and red. Quality extra choice.

AUTUMN STRAWBERRY.—Beautiful striped fruit of yellow and red. Medium size, fine quality.

RANSDELL SWEET.—Large. Rather oblong shape. Dark red. Best fall sweet apple.

Winter Varieties.

BALDWIN.—Famous eastern market apple. Large, bright red, crisp, juicy and rich.

BANANA.—Large, golden yellow, blush cheek. Of splendid quality. Popular with western orchardists.

BEN DAVIS.—Large, red, striped yellow, good quality, good keeper. Profitable market sort.

DELICIOUS.—Large, brilliant red, shading to a golden yellow at blossom end. Extra quality.

GRIMES GOLDEN.—Large, golden yellow. Favorite sort because of extra choice quality.

GENETIN.—(Rawley's Janet.)—Small to medium, red and yellow striped. Very productive, long keeper.

JONATHAN.—Most popular of all. Large, deep red. Rich flavor, juicy and sweet.

NORTHWESTERN GREENING.—Large, light green. The fruit has been kept for a year.

TALMAN'S SWEET.—Medium size. Pale whitish yellow. Good quality. Standard sweet apple.

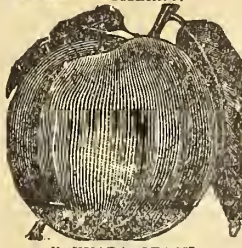
WEALTHY.—Large, red, showy, sub-acid and productive. Most popular of all.

WINESAP.—Medium. Deep red. Quality very fine. Rich, crisp flesh, sub-acid flavor. Very popular.

WOLF RIVER.—Largest of all; grow to weigh 4 lbs. Quality fair. Yellow, striped light red. Productive.



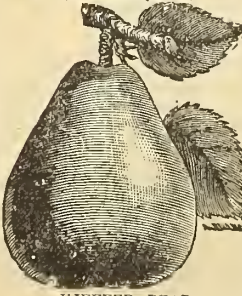
MONTMORENCY CHERRY.



BOXHARA PEACH



ABUNDANCE PLUM



KIEFFER PEAR

PEARS

Any of following by exp. 40c each, doz. \$4.00.

CLAPP'S FAVORITE.—Very large, yellow and dull red with russet specks. Rich and melting. Ripens in August.

KIEFFER.—Large, rich colored and good quality. Excellent for canning; will keep until winter. Hardy. Ripens in October.

BARTLETT.—Large size, excellent quality. A leading variety. Ripens in August.

SECKEL.—Small, but of excellent quality; very hardy. Ripens in September.

WORDEN SECKEL.—Seedling of Seckel but larger. Best quality. Ripens September.

SHADE TREES

We shall be pleased to supply our customers with any of the following Shade or Ornamental Trees at prices given. Please remember in ordering them that they come direct from the nursery and cannot be shipped in the same package with any other goods except nursery stock.

ASH—American White.—Fine, hardy trees of symmetrical, rapid growth. 5 to 6 ft., 30c each; \$2.50 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

BOX ELDER.—Well known, quick-growing, hardy tree. Succeeds everywhere. 5 to 6 ft., each 30c; \$2.50 per 10. 6 to 8 ft. 50c each; \$4.50 per 10.

CAROLINA POPLAR.—Takes first rank among rapid growing trees. It thrives everywhere. Resembles Cottonwood but does not bear seed. 5 to 6 ft., 30c each; \$2.50 per 10; 6 ft. to 8 ft., 40c each; \$3.50 per 10.

CATALPA SPECIOSA.—Fine, rapid grower. Valuable also for timber, posts and cross-ties. Popular in semi-arid regions. 5 to 6 ft., 30c each; \$2.50 per 10; 6 to 8 ft., 40c each; \$3.50 per 10.

ELM.—American White.—Well known, beautiful shade and park tree. 5 to 6 ft., 30c each; \$3.00 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

LINDEN.—American.—Known also as Basswood or Whitewood. A fine spreading native tree with large leaves and fragrant flowers. 5 to 6 ft., 60c each; \$5.00 per 10; 6 to 8 ft., 75c each; \$6.50 per 10.

LOCUST—Black.—Make rapid growth; valuable post timber. 5 to 6 ft., 30c each; \$2.50 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

LOCUST—Honey.—A new variety, entirely thornless. Handsome, well known native tree. 5 to 6 ft. 60c each; \$5.00 per 10; 6 to 8 ft., 80c each; \$7.00 per 10.

MAPLE—Soft or Silver.—Valuable for producing quick shade. 5 to 6 ft., 30c each; \$2.50 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

MAPLE—Hard or Sugar.—Slow grower but very hardy, valuable and beautiful. 5 to 6 ft., 75c each; \$7.00 per 10. 6 to 8 ft., \$1.00 each; \$8.00 per 10.

SYCAMORE.—American.—Lofty, spreading tree with handsome broad leaves. 5 to 6 ft., 50c each; \$4.50 per 10. 6 to 8 ft., 75c each; \$7.00 per 10.

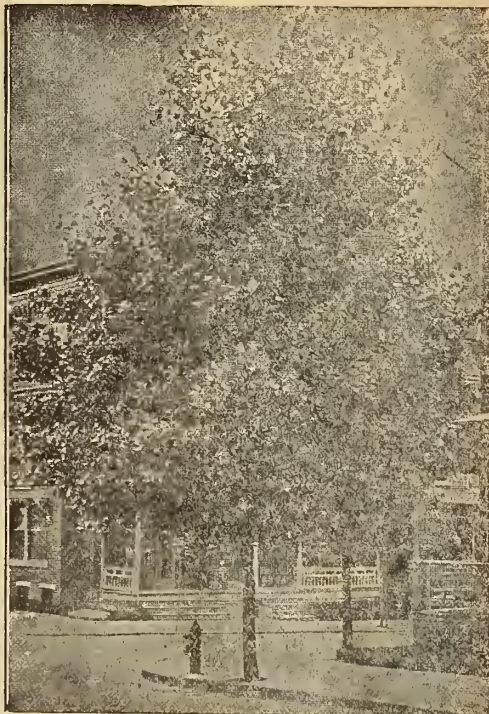
Five trees of a kind will be sold at the ten rate. Can furnish stock in any size larger than given above. Write for prices.

LAWN TREES

BECHTEL'S FLOWERING CRAB.—Medium size tree and large, very double, fragrant flowers. 2 to 3 feet, 75c each. 3 to 4 ft., \$1.00 each.

CHESTNUT — The American Sweet.—Well known; valuable for nuts and lumber. 5 to 6 ft., 60c each; \$5.00 per 10. 6 to 8 ft., 75c each; \$6.50 per 10.

MOUNTAIN ASH.—A fine, hardy, small tree. Bears red berries. 5 to 6 ft., 50c each; \$4.50 per 10. 6 to 8 ft., 75c each; \$7 per 10.



HARD OR SUGAR MAPLE.

MULBERRY—Russian.—A good shade tree and valuable for the fruit. 5 to 6 ft., 40c each; \$3.00 per 10. 6 to 8 ft., 50c each; \$4.50 per 10.

NORWAY MAPLE.—Hard wood, fine foliage, with beautiful spreading top. 5 to 6 ft., 75c each; \$6.00 per 10. 6 to 8 ft., \$1.00 each; \$8.00 per 10.

SCHWEDLER'S MAPLE.—Red foliage in spring changing to green in summer and red again in the fall. A beautiful tree for parking. 5 to 6 ft. \$1.25 each; \$10.00 per 10. 6 to 8 ft., \$1.50 each; \$12.50 per 10.

WEeping TREES

WEIR'S CUT LEAF MAPLE.—Cut leaved, very hardy and graceful. 5 to 6 ft., 50c each; \$4.00 per 10. 6 to 8 ft., 85c each; \$7.00 per 10.

WEeping CUT LEAF BIRCH.—Perhaps the most elegant of all lawn trees. Delicate foliage, silvery white bark. Tall and slender but a vigorous grower. Every householder should have one or two specimens. 4 to 5 ft., \$1.00 each; 5 to 6 ft., \$1.25 each; 6 to 8 ft., \$1.50 each.

WISCONSIN WILLOW.—An upright grower but with drooping twigs. 5 to 6 ft., 50c each; 6 to 8 ft., 75c each.

TEA'S WEeping MULBERRY.—Very distinct and beautiful. Quite hardy. 1-year, each \$1.50.

EVERGREENS

Our evergreens are all nice shapes and packed to reach you in good condition.

Variety	Size	Each	Doz.
American Arbor Vitae	12 to 18 in.	.30	\$ 2.50
American Arbor Vitae	18 to 24 in.	.50	4.00
American Arbor Vitae	24 to 36 in.	.75	6.00
Scotch Pine	12 to 18 in.	.40	3.50
Scotch Pine	18 to 24 in.	.50	4.50
Scotch Pine	24 to 36 in.	.75	6.00
Norway Spruce	12 to 18 in.	.40	3.50
Norway Spruce	18 to 24 in.	.60	5.50
Norway Spruce	24 to 48 in.	.85	9.00

Certificate No. 126.

State of Iowa.

CERTIFICATE OF NURSERY INSPECTION

Office of State Entomologist, Ames, Iowa.

This is to certify that in accordance with Chapter 53 of the Acts of the Twenty-seventh General Assembly, as amended by the Thirty-first General Assembly, the nursery stock for sale by the Iowa Seed Company, of Des Moines, Iowa, has been inspected by a duly authorized inspector and has been found apparently free from dangerously injurious insect and plant diseases. This Certificate is invalid after July 1, 1917.

NORWAY SPRUCE.

FOREST TREE SEEDLINGS

Five hundred will be sold at thousand rates.

Variety	Size	100	1000
Catalpa Speciosa	12 to 18 in.	\$1.00	\$9.00
"	18 to 24 in.	1.40	12.00
Black Locust	12 to 18 in.	1.00	7.00
"	18 to 24 in.	1.20	9.00
Soft Maple	12 to 18 in.	1.00	6.00
"	18 to 24 in.	1.40	8.00
Russian Mulberry	12 to 18 in.	1.25	7.00
"	18 to 24 in.	1.60	10.00
Osage Orange, No. 1		.60	4.00
" No. 2		.60	4.00



AMERICAN WHITE ELM.

GRAPES

Our grape vines are No. 1 one-year vines, which experience has shown to be the very best size for transplanting. The best and most robust vines are marketed by nurserymen generally at one year old, while the culls are grown another season and sold as two-year-olds. Write for prices on large lots.

AGAWAM.—Berries are very large, bright red, with thick skin; very vigorous grower. Fruit of good quality. Each 15c, doz. \$1.00, per 100 \$5.00.

BRIGHTON.—Of the best quality. Bunch and berry large, of bright red color, and it is quite productive. Each 15c, doz. \$1.00, per 100 \$6.00.

CAMPBELL'S EARLY.—Strong grower, large, healthy foliage. Very productive; keeping and shipping qualities unequalled by any early grape. Ripens with Moore's Early. Bunch and berry large, glossy black with blue bloom. Sweet and juicy; clusters are usually shouldered. Each 25c, per doz. \$2.50; per 100 \$15.00.

CONCORD.—The well known standard black variety. Succeeds well everywhere. Each 10c, doz. \$1.00, per 100 \$4.00.

MOORE'S EARLY.—Bunch large, berry very large and round, vines exceedingly hardy. A very desirable early market black variety. Very popular with Des Moines growers. Each 15c, doz. \$1.50, 100 \$7.00.

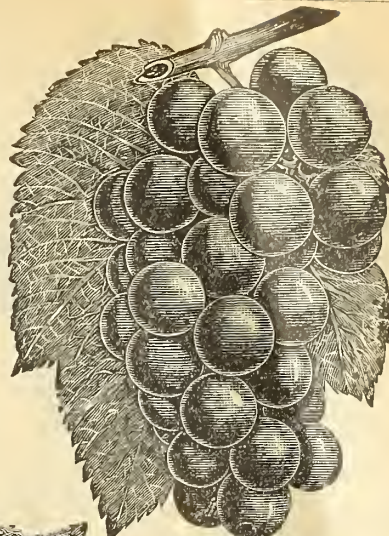
NIAGARA.—This is a leading white variety, very productive and hardy. Bunch and berries large green or white, changing to pale yellow when fully ripe; the skin thin and tough. Quality extra fine. Each 15c, doz. \$1.20, per 100 \$6.00.

WORDEN.—A large grape of the Concord type, much earlier, larger and of better quality; hardy and more productive. Each 15c, doz. \$1.20, per 100 \$5.00.

WOGDRUFF.—Of ironclad hardness, a rank grower and very healthy. Fruit large and very attractive.

Usually shouldered. Sweet and of fair quality. Ripens soon after the Concord and stands at head of the list of red sorts for a market variety. Each 20c, doz. \$2.00, per 100 \$8.00.

WYOMING RED.—Claimed to be as choice in quality as the Delaware. Fruit is larger and brighter red than that sort. A fine variety. Each 15c, dozen \$1.50, per 100 \$6.00.



MOORE'S EARLY



N. NIAGARA.

very healthy. Fruit large and very attractive. Usually shouldered. Sweet and of fair quality. Ripens soon after the Concord and stands at head of the list of red sorts for a market variety. Each 20c, doz. \$2.00, per 100 \$8.00.

Claimed to be as choice in quality as the Delaware. Fruit is larger and brighter red than that sort. A fine variety. Each 15c, dozen \$1.50, per 100 \$6.00.

GOOSEBERRIES

CHAMPION.—A new variety originating in Minnesota. Hardy, free from mildew, very productive, large size, and recommended by our growers as the best variety listed. Each 20, doz. \$2.00.

JOSSELYN.—Of superior merit. Very large, hardy, productive and free from mildew. Regarded as the best of recent introduction. Each 20c, per doz. \$2.00.

PEARL.—One of the most prolific; very hardy, entirely free from mildew. Superior in size and productiveness to Downing. Each 20c, doz. \$2.00.

INDUSTRY.—The best English sort yet introduced in this country. Berries of immense size, 1 to 2 inches long. Each 25c, doz. \$2.50.

HOUGHTON.—Pale red, good quality, productive. Each 15c, doz. \$1.50.

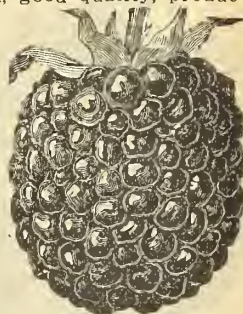
DOWNING.—Large, pale green. Ea. 20c, doz. \$2.00.

BLACKBERRIES

SNYDER.—Extremely hardy and very productive. The standard sort for the west. No other variety is so prolific or so dependable in the corn belt, or so desirable for shipping. Dozen 40c, 100 for \$3.00.

ANCIENT BRITON.—This is regarded as one of the hardest blackberries and especially adapted to Iowa, Wisconsin and Minnesota. Doz. 40c, 100 for \$2.50.

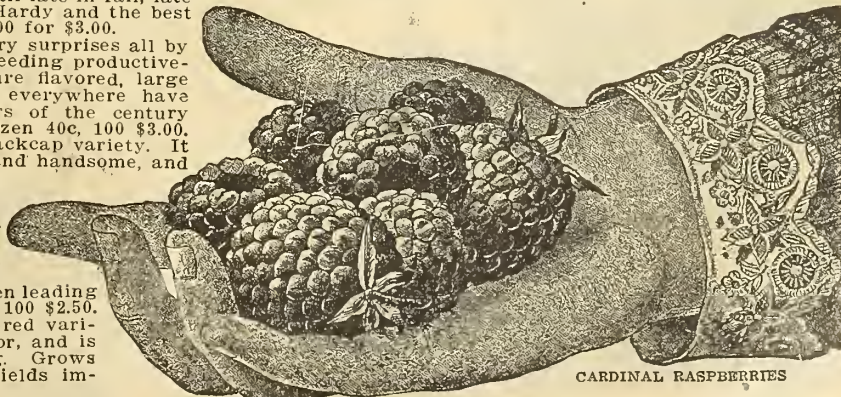
BLOWERS.—A sturdy grower and quite hardy. Fruits large, melting and splendid quality. Dozen 50c, 100 for \$3.50.



SNYDER BLACKBERRY

DEWBERRIES

LUCRETIA.—The best dewberry for this section. Berries much larger and better quality than blackberries. Each 15c, dozen 40c, per 100 \$3.00.



CARDINAL RASPBERRIES

GRAPE VINE BARGAIN

Eight Strong No. 1 Grape Vines, Postpaid, 64c

We do not offer in this bargain any variety that has not proven suitable for planting here, and none but what will produce good crops every year.

4 Concord, black; 2 Niagara, white; 2 Agawam, red.

Just enough for the ordinary family needs, and variety sufficient to satisfy the different tastes. Can be planted in the back yard on a city lot and furnish all the grapes a family can use.

CURRANTS

POMONA.—The most productive and vigorous red currants ever introduced; ripens early, but remains on the bush longer than any other; remarkably fine quality. Each 15c, doz. \$1.25.

FAY'S PROLIFIC.—One of the most prolific, of excellent quality. We heartily recommend it. Each 15c, doz. \$1.25.

WHITE GRAPE.—A standard variety. The fruits are light colored, mild and fine flavored. Each 15c, doz. \$1.25.

POMONA CURRANT



RASPBERRIES

Our varieties are all tip grown plants. We do not sell sucker plants, nor varieties which propagate from suckers.

ST. REGIS.—Everbearing red variety. Spring set plants bear the first year, continuing to fruit until late in fall, late crop coming on the tips of new canes. Hardy and the best everbearing red raspberry. Dozen 50c, 100 for \$3.00.

NEW 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. Leading horticulturists everywhere have pronounced it one of the fruit wonders of the century and the most profitable of all sorts. Dozen 40c, 100 \$3.00.

CUMBERLAND.—One of the best of blackcap variety. It is of very large size, good quality, firm and handsome, and an excellent shipper. Plants vigorous and hardy, productive and free from disease. Dozen 40c, 100 for \$2.50.

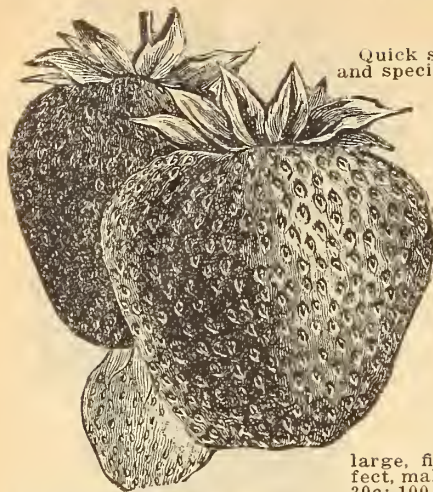
KANSAS.—Ripens about one week earlier than Gregg. Fruit large and firm. Valuable as a home or market variety. Dozen 40c, per 100 \$2.50.

GREGG.—Hardy and excellent. Has been leading blackcap sort for many years. Doz. 40c, 100 \$2.50.

COLUMBIA.—This is a leading purple-red variety. Fruit is rich and sprightly in flavor, and is superior for canning, jam or preserving. Grows very large, strong and vigorous and yields immensely. Doz. 50c, per 100 \$3.00.

STRAWBERRIES

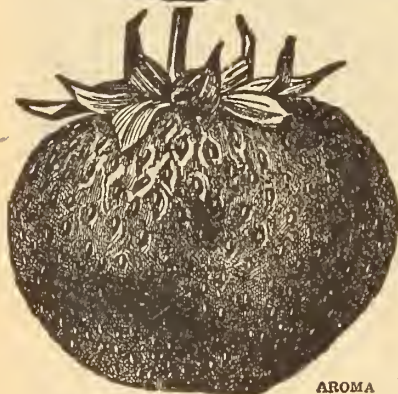
Quick service is necessary in handling strawberry plants, and special packing is required. For these reasons we ship all strawberry plants entirely by themselves. Perfect flowered varieties are marked (s); the imperfect marked (p), must have perfect flowered sorts planted with them or they will not fruit. Ask for price in large lots.



KLONDYKE



CLYDE



AROMA

AROMA (s).—The best and most profitable late berry. It is very prolific and of most excellent color and quality. Plants strong, vigorous and free from disease. Fruits very large, roundish, conical, and glossy bright red. Per 100 \$1.25, postpaid. By express, per 100, 75c; 500, \$4.00.

BEDERWOOD (s).—This is one of the best known varieties for planting with the Warfield or Crescent, as it produces a large amount of pollen. It is of excellent color and a good shipper. Ripens early. Per dozen 30c; per 100, \$1.00, postpaid. By express, per 100, 75c; 500, \$3.00.

BRANDYWINE (s).—Large berry, vigorous, strong grower, and makes a large, firm, and handsome red color. Blooms perfect, making it a good fertilizer for other sorts. Doz., 30c; 100, \$1.25, postpaid. By exp., 100, \$1.00; 500, \$4.00.

HUBACH (p).—Its large, uniform size, fine form and color, unsurpassed productiveness and great vigor combine to make it a leading sort. Rather late in maturing. Per doz., 30c; 100, \$1.25. By express, 100 for \$1.00; 500, \$4.00.

CLYDE (s).—One of the most popular varieties in the West. It is of vigorous growth and very productive. Berries deep scarlet and moderately firm. Decidedly the best early sort. Per doz., 30c; 100, \$1.25, postpaid. By express, 100, \$1.00; 500 for \$4.00.

CRESCENT (p).—One of the old standard varieties, will produce a large crop where other sorts would fail, as it will stand an unusual amount of neglect. The berry is of medium size and good quality. Per doz., 25c; per 100, \$1.00, postpaid. By express, per 100, 75c; 500 for \$3.00.

KLONDYKE.—If you want a good berry that will bring top price, and ship anywhere, plant this sort. Plants strong, vigorous and productive. Fruits are large, firm and well flavored. Per doz., 20c per 100 \$1.00, postpaid. By express, 100, 75c; 500 for \$3.00.

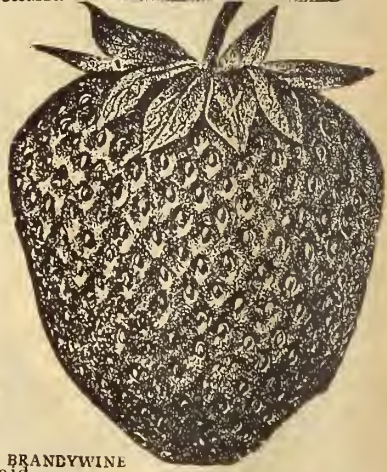
NICK OHMER (s).—Very large in size, uniform in shape; dark, glossy red; firm and excellent flavor. Season rather late. Doz., 40c; 100, \$1.50, postpaid. By express, per 100, \$1.25; 500 for \$5.00.

SENATOR DUNLAP (s).—Medium sized sort; is very hardy, productive, a vigorous grower. Bears until quite late. Unsurpassed in quality; claimed best all around variety. Doz. 40c; 100, \$1.25, postpaid. By express, 100, \$1.00; 500 for \$4.00.

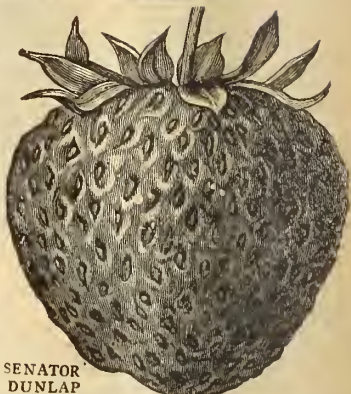
WARFIELD (p).—One of the best known market berries, medium size, excellent quality, and a good shipper. One of the best early sorts and maintains its size well throughout the season. Doz. 25c; 100 \$1.00, postpaid. By express, 100, 75c; 500 for \$3.00.



NICK OHMER



BRANDYWINE



OUR FAMOUS STRAWBERRY BARGAIN

For several years we have featured this bargain collection with wonderful satisfaction to our customers, thousands of whom have taken advantage of our knowledge of varieties and special facilities to supply choice plants.

25 Each Sen. Dunlap, Bederwood, Warfield, Aroma,

Four varieties, furnishing both male and female blossoms suitable to grow together and give a succession of fruit all season. 100 plants in all (just enough for a home SENATOR bed), well rooted, vigorous and young plants that have never fruited. Postpaid for \$1.00.

FALL BEARING STRAWBERRIES

These are a new race of strawberries that produce ripe fruit in October and November, generally lasting until hard, killing frosts. They have a tendency to fruit in June, but if permitted to bear at this time the fall crop is curtailed. Pinch off the blooms that set up to July 1st and you will have fine fruit for fall use. Fruit the first year from spring set plants, and if you want strawberries next fall plant the everbearing sorts now and get a crop up to Thanksgiving. Produced remarkably well in 1915 because of the favorable season. When first introduced, fruits were small, production was limited and they were not favorably received. After several years' breeding, however, they have been greatly improved and we are now ready to recommend the varieties which we list. Constant improvement is being made in the fall bearing varieties. No doubt they will soon be as general as the spring sorts.

SUPERB.—This variety is most widely known and one of the best. Shape is somewhat uneven, like the Nick Ohmer shown above. Berry is large, deep crimson in color, firm and solid, and of excellent quality. Very prolific and a strong grower.

PROGRESSIVE.—A cross of Senator Dunlap on the Pan American, which was the first of the fall bearing varieties. It retains the habit of fall fruiting, while the berries resemble in form and color the Dunlap. The plant is very vigorous and productive, and it holds first place among fall bearing sorts as the Dunlap does among the common kinds.

PRICES: Either Superb, Progressive, or both: Per dozen, 50c; per 100, \$2.00; 200, \$4.00, postpaid. By express, not prepaid, 300 for \$5.00; 1,000 for \$15.00.



FRUIT PACKAGES

We are prepared to furnish you the best stock made, at low prices. We handle a great many carloads each year, and from our long experience of more than a quarter of a century we are enabled to select superior stock. It pays to have bright stock which will make the fruit look nicer and sell better. Prices named here are subject to change during season. All goods in this department go by freight or express at customer's expense for carriage. If wanted by mail figure from Parcel Post Table on page 2, from weights given for each item, and send postage necessary.



BERRY BOXES.—Made of the best white wood (poplar), heart stock, cut smoothly, and perfect shape, size $4\frac{3}{4} \times 4\frac{3}{4} \times 3\frac{3}{4}$, to hold a dry measure quart. The bottom is set up for ventilation. Usually put up in bundles, of 500 boxes complete for shipment and all ready for putting together, which can be done very rapidly. 500 at the 1,000 rate; broken bundles at the 100 rate. Price per 100 50c; 1,000 \$3.50; 10,000 or more at \$3.25. Weight, 10 lbs. per 100.

PINT BOXES.—Same as regular quart size except they are only two inches high. For red raspberries and other soft fruits. Price same as quarts.

ANNEALED TACKS.—Made of the very best Swedes iron and of proper length so that they go through either two or three thicknesses of the material and clinch to hold securely. A pound will make 1,000 boxes. Lb. 35c; 3 lbs. \$1.00.

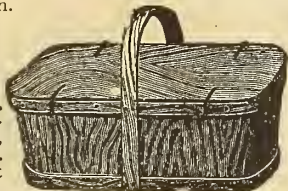
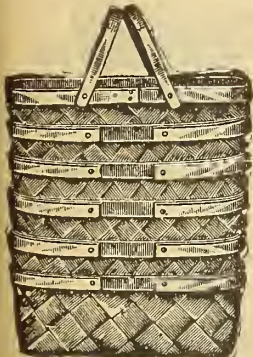
CRATES.—Made of thoroughly seasoned stock, well ventilated at sides and bottom, but with a tight cover to protect from dust. We always ship in the flat or "knock down." They make a neat, strong and cheap package holding 16 to 24 quart boxes. Price: 16-qt. crates per 10 \$1.20, per 100 \$10.00; 24-qt. crates per 10 \$1.25, per 100 \$12.00. Weight, 16-qt., each 4 lbs.; 24-qt., each 5 lbs.

CRATES FOR PINT BOXES.—24-pt. size, per 10, \$1.20; 100 for \$10.00. Weight $3\frac{1}{2}$ lbs. each.

CRATE NAILS.—Far superior to common nails, as they hold much better. Twelve pounds (makes 100 crates) \$1.00.

DIAMOND MARKET BASKET.

—As will be noticed, we are now having these baskets made with two handles which close down over the edge of the basket. The baskets nested in this way can be shipped at about half the cost of the old-style, over-handle baskets, and they are also quite convenient for shipping the fruit in. They are used quite largely for marketing grapes, plums, cherries, etc., as well as for some kinds of vegetables. Per doz. 55c; 10 doz. \$5.00. Weight 10 lbs. per dozen.



CLIMAX GRAPE BASKET.—The best package for shipping grapes, cherries, plums, etc. It is the standard 7-lb. size, making a strong but light package. Wt. 1 lb. each.

Made of the best material. They are nested for shipment with the covers and bent handles in separate packages. Price for 10, 50c; 25 \$1.00; 100 for \$3.50; 1,000 for \$32.50.

SMALL CLIMAX GRAPE BASKET.—For fancy grapes, etc. Holds about 4 lbs. 50c for 10; \$1.00 for 25; \$3.50 per 100.

HALF BUSHEL BASKET.—The best all-around basket for farmers, fruit growers and grocers that we know of. Strong and well made, smooth inside, so that it does not bruise or scratch the fruit, particularly adapted to picking fruit and vegetables. The swinging bale makes it easily handled. Price 20c each; \$2.00 per doz. Wt. 2 lbs. each.

NO. 1—ONE-BUSHEL BASKET.—The ideal basket for general use. Standard elm staves with elm hoops and handles; also inside and outside bottom hoops. Each 25c; doz. \$2.75.

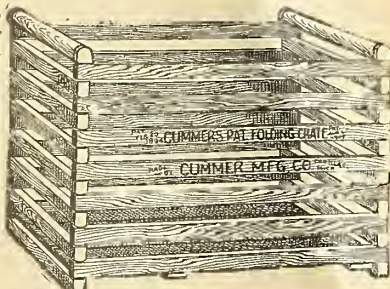
IRON MEASURES.—Made of heavy galvanized iron with wire bail and side handle. $\frac{1}{2}$ bu. each 75c; bu. each \$1.00. Weight, $\frac{1}{2}$ bu. size, $3\frac{3}{4}$ lbs.; bu. size, $5\frac{1}{2}$ lbs. each.



SELF-FOLDING PAPER BERRY BOXES (Quart Size).—These are in size and shape like the whitewood boxes in general use, but are made of wax coated, heavy paper, cut in shape to fold and lock for use. The picker can make them ready in the field. We have exclusive sale of these boxes and believe they will prove very popular. They fit in the ordinary wooden crate. Price, 100 for 75c; 500 for \$3.00; 1,000 for \$5.50.

FOLDING ONE-BUSHEL CRATE.

—Light, strong and durable. Slats are all run with round corners so that contents are not bruised or cut. Size $11\frac{1}{2}$ in. in width, $20\frac{1}{2}$ in. long, $13\frac{1}{2}$ in. high outside. No. 1 each 30c; per dozen \$3.00.



FOLDING ONE-BUSHEL CRATE

WIRE STAPLING MACHINE—Standard

—For making berry boxes. The latest improved, operated by foot power, and can be easily operated by anyone. Makes boxes very rapidly. Made in two sizes and can be shipped direct from the factory in Michigan at the following low prices: No. 1 (standard size) each \$27.00; No. 2 (somewhat smaller) each \$25.00.

STAPLING WIRE.—To use with the above machine for making boxes. Per coil of 12 lbs. \$1.50, 5 coils or more at \$1.40 per coil.

MAGNETIC TACK HAMMER.—Picks up the tacks and saves much of the labor. Each 15c. Mailing weight 1 lb.

NURSERYMEN'S SUPPLIES

GRAFTING WAX.—A special preparation for application where trees have been pruned; for preventing the loss of sap where wounds are made in the bark or from broken limbs, and to hold grafts together while parts are growing together. Price, $\frac{1}{2}$ lb. pkg. 15c; mailing weight 1 lb.

TREE PRUNER.—Strong wooden handles 24 inches long; $1\frac{3}{4}$ -inch cut; powerful and effective. The best pruner where branches are within reach. Each \$1.25. Mailing wt. 4 lbs.

WATER'S TREE PRUNER.—The standard make; with 6-ft. pole 85c; 8-ft. pole \$1.00; 10-ft. pole \$1.20. Can't mail.

IMPROVED HAND PRUNING SHEARS.—The best hand shears on the market. Made specially for pruning berry or rose bushes, grape vines, etc. Made of best steel, 8 inches long, straight spring (can't lose out). Price \$1.25. Mailing weight 1 lb. each.

CONNECTICUT PRUNING SHEARS.—A good tool for most work. Steel blades, spring, and malleable handles. Price 50c. Mailing weight 1 lb.

TREE PROTECTORS.—Made of veneer like berry boxes, dipped in creosote to drive away vermin and make them impervious to weather. Used by simply bending around the tree. Effective against rabbits, ground squirrels, mice and vermin. Per 100 \$1.00; 1,000 for \$8.00. Wt. 25 lbs. per 100.

TREE LABELS.— $3\frac{1}{2}$ -inch, plain, copper wire. Per 100 25c; per 1,000 \$1.40. Not wired, per 100 20c; per 1,000 \$1.00. Mailing weight 4 lbs. per 1,000.

POT LABELS.—Smooth wood labels, 4-in. per 100 20c, per 1,000 \$1.00; 6-in. per 100 25c, 1,000 \$1.50; 10-in. per 100 50c, per 1,000 \$3.00. Mailing wt., 4 in. 4 lbs.; 6-in. 6 lbs.; 10-in. 10 lbs. per 1,000.

SPHAGNUM MOSS.—For packing plants and soft nursery stock. Write for price in quantity. Large wired bale \$1.25; burlap covered bale \$2.00.

CANE PLANT STAKES.—Straight bamboo canes 6 to 10 feet long. Per 100 \$1.25. Not mailable.

RAFFIA FOR BASKET WORK

Making Indian Baskets is now attracting a great deal of attention, and the work is taught in public schools, art classes, etc. It is a very interesting and fascinating pastime, is easily learned and many ornamental pieces are made. We furnish the materials in large quantities to schools, as well as to private parties. Our stock is unsurpassed.

NATURAL RAFFIA.—Bunch (about 3 oz.) 15c; lb. 60c; 5 lbs. \$2.50.

COLORS RAFFIA.—In many handsome colors, such as light and dark red, three shades of green, white, navy blue, light and dark brown, orange, yellow, black, violet, etc. Bunch (about 2 oz.) 20c; lb. \$1.40. Mixed colors same price. Bleached white, bunch 20c; lb. \$1.40.

PATENT REEDS.—Made from paper, sample free on request.—No. 1—16 to the inch; No. 2—12 to the inch; No. 4—8 to the inch; No. 5—7 to the inch; No. 6—5 to the inch. Any size per lb. \$1.00.

Postage.—If to be sent by mail, 3c per bunch, and for lbs. at rates shown by table on page 2 for postage on the above Raffia and Reeds.

RAFFIA NEEDLES.—15c per package, postpaid.

HOW TO DO IT.—Book on Raffia weaving and basket making; 35c.

WINDOW GARDEN SUPPLIES

All goods in this department are sent by express or freight, customer paying charges, unless otherwise noted. Note mailing weight and postage required on items that may go by parcel post.

WIRE PLANT STANDS.—We carry a larger stock than any firm in the west, and in place of common iron frames we have them manufactured with steel frames, and they are far stronger, handsomer and lighter than any yet offered. They are well braced in every direction, with good strong casters, and will easily support all the plants that can be placed on the shelves. Nicely finished with green paint and gold bronze. Will last twenty years with proper usage. Weigh only 15 to 40 pounds each. Notice reduced prices.

NO. 3.—Similar in style to No. 10, but much larger. Height of stand and arch about 6 feet, width 4 feet, depth 31 inches. Has four legs. List price \$8.00. Our net price only \$6.50.

NO. 4.—Like above, but without arch or hanging basket. List \$6.00; net, \$5.00.

NO. 6.—One of our most popular styles, quite ornamental, and for a few plants one of the most desirable. A vining plant at each end of shelf and trained over arch adds to its beauty. Height 6 ft., shelves 36 in. long. List \$5.50; our price \$4.50.

NO. 7.—Exactly like No. 6, except that it has no arch or basket. List price \$4.00; our price \$3.40.

NO. 8.—Holds a large number of plants and all get equal light. Size 42 inches high, 26 inches deep; has three shelves each 36 inches long; will hold about 30 pots. List price \$6.00; our price only \$5.00.

NO. 9.—Same as No. 8, arch and basket added. List \$8.00; our price \$6.50.

NO. 10.—A very popular stand, well shown by the engraving, but the arch is Gothic pattern, same shape as No. 3. Holds 20 to 30 plants. Height 5 ft. 10 in.; width 40 in., and 26 in. deep. We sell more of these than any other pattern and are thus enabled to make a specially low price. List price \$6.00; our price, including arch and hanging basket, only \$5.00.

NO. 11.—Same as above, without arch or basket. List \$4.75; our price \$4.25.

WIRE WINDOW SHELF.—These can be fastened to window frames, either inside or outside. They are strong and attractive, 36 in. long, about 7 in. wide. The border is not as high as shown in the engraving. Each, by express, \$1.00. If to go by mail add postage for mailing, weight 4 lbs.

IDEAL VACUUM FLOWER BOX.—A metal self-watering box 6 1/2 inches deep, 8 1/2 inches wide, in lengths of 24, 30, 36 and 48 inches. Splendid for window boxes, either indoors or out, and are also for summer porch boxes. Price: 24-inch \$1.50; 30-inch \$1.75; 36-inch, \$2.00; 48-inch \$2.50. Cannot go by mail. Brackets for mounting on window sill, per pair, 52c; for hanging below the sill, per pair, 65c; for mounting on porch rail, per pair, 26c.

WIRE BRACKET.—This new pattern is a very cheap, handsome bracket, made of tinned wire. Is easily put up, adjustable, can be instantly removed; is simple, practical and durable. Price by express, 4 1/2-inch each 15c, doz. \$1.25; 5 1/2-inch each 20c, doz. \$1.50; 6 1/2-inch each 20c, doz. \$1.75. If to go by mail, add postage for mailing; weight each 1 lb., dozen 4 lbs.

SULPHO-TOBACCO SOAP.—For a cheap, effective, clean and harmless insecticide this is unexcelled. Quickly exterminates all insect life on plants and flowers. Unsurpassed for rose bushes. It rids the house of cockroaches and is a superior wash for dogs and all animals. Prevents poultry lice. Three-ounce cake, sufficient for 1 1/2 gals. solution, by mail, postpaid, 13c; by express 10c. Eight-ounce cake, sufficient for 4 gals. solution, by mail, postpaid, 28c; by exp. 20c. Six eight-ounce cakes, by exp., \$1.00. If to go by mail add postage for mailing, weight of six cakes 4 lbs.

FISH OIL SOAP.—(Usually called Whale Oil Soap.)—An excellent preparation for plants infested by vermin. Also used against fungus diseases and will keep trunks of trees free from borers and other bark destroyers. Lb., by express, 25c. If to go by mail, add postage for mailing; weight 2 lbs.

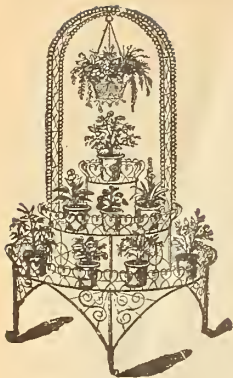
FLOWER POTS.—The following prices per dozen are for pots and saucers: 4-in. 60c; 5-in. 55c; 6 in. \$1.20; 7-in. \$2.00; 8-in. \$3.00; 9-in. \$4.00. We make no charge for packing or delivering at depot here. Orders for these must amount to at least \$1.00. Cannot go by mail.

PAPER FLOWER POTS.—Made of heavy waterproof paper. Fine for growing vegetable plants, pansies, asters, etc. By using these you do not have to disturb the roots of the plants when setting them out in the open. 2 1/4-in., by expr., doz. 10c. 100 for 40c; 3-in., by expr., doz. 15c. 100 for 60c; 4-in., by expr., doz. 20c. 100 for 90c. If to go by mail add postage for mailing, weight per dozen 1 lb., per 100 3 lbs. Write for quantity prices.

TYRIAN PLANT SPRINKLER.—Fine for house plants. You can, without injuring the plants or soaking the earth, quickly and very effectively sprinkle them. Will keep foliage fresh and healthy and free from insects of all kinds. The bent neck enables you to spray from the under sides of the leaves, which are hiding places for insects. It holds about one-half pint. Each 65c, postpaid.

SCOLLAY SPRINKLERS.—Made of pliable rubber with hard rubber cap. Large size holds about one pt., small size about one-third pt. Indispensable for floral work. Excellent for washing the foliage of house plants, and sprinkling clothes. Large, each \$1.10, small 75c, postpaid.

BOWKER'S FOOD FOR FLOWERS.—A fertilizer made especially for plants; clean, free from offensive odor and soluble in water, producing healthy plants and abundant blossoms to which it imparts a brilliant color. Box sufficient for twenty plants one year.



No. 10



No. 6



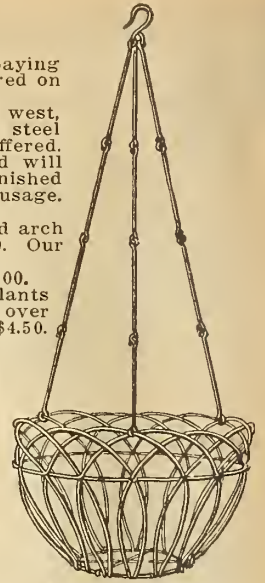
No. 3



No. 8

By express, large pkg. 25c; small 15c. If to go by mail add postage for mailing; weight, large package, 2 lbs., small package, 1 lb.

HANGING BASKET CHAINS.—Plain three-strand steel chains suitable for any kind or size hanging basket. By mail, each 10c.



WIRE HANGING BASKET



WIRE BRACKET



WIRE WINDOW SHELF



SCOLLAY SPRINKLER



TYRIAN SPRINKLER



STERLINGWORTH PLANT TABLETS.—A highly concentrated food for plants, put up in small tablets to be dissolved in water and used as needed. No. 1 pkg. (30 tablets) each 10c; No. 2 pkg. (100 tablets) each 25c; No. 3 pkg. (250 tablets) each 50c; all postpaid at prices named.

WIRE HANGING BASKETS.—Are made of wire; lined with moss and filled with dirt they are very attractive. Light, strong and durable, and have chain attached as shown in illustration above. By express, 8-in., with enough moss to line it, each 30c; 10-in., each 35c; 12-in., each 40c. If to go by mail, add postage for mailing weight 2 lbs.



SPRAYERS



DAISY SPRAYING PUMP

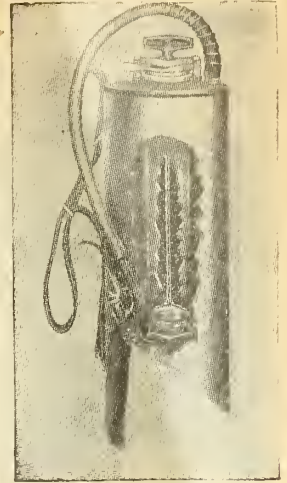
standard Faultless, but the spray nozzle protrudes through the tank, making it stronger. Mailing weight 2 pounds. By express, brass \$1.00; galvanized iron 75c; tin 50c.

Each year proves the importance of spraying fruit trees and plants in order to destroy the insects and secure a good crop of fruit. The largest and most successful fruit growers are the most enthusiastic on spraying. It will pay you to invest in spraying apparatus if you have only one fruit tree. The spraying of apple and plum trees is especially recommended. A circular giving full information mailed free on request. All spray pumps are sent by freight or express, not prepaid, except where noted.

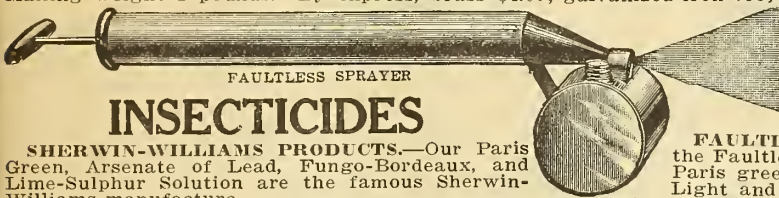
DAISY SPRAYING PUMP.—This popular little sprayer is shown by our illustration. We sell hundreds of these which are used for spraying insecticides and whitewash in the poultry house, also for spraying fruit trees and plants. Can be changed to throw a solid stream 20 to 30 feet high and used for washing windows, buggies, etc. By express, not prepaid, \$1.00. If to go by mail add postage for mailing, weight 3 lbs.

THE AUTO-SPRAY NO. 1.—Compressed Air Sprayer.—Our choice of compressed air pumps because of strength and simplicity. Will not get out of repair and is kept absolutely clean without difficulty. Diameter 7 inches; height 2 feet; capacity 3½ gallons; weight empty 7 lbs.; weight loaded 39 lbs.; weight shipping 15 lbs. Illustration shows mechanism. If additional information is wanted, send for circular of the Auto-Spray. Prices: Auto-Spray No. 1B, brass tank with "Auto-Pop," \$8.50. Auto-Spray No. 1D, galvanized tank with "Auto-Pop," \$6.50. Two-foot brass extension rod, postpaid, 50c.

IMPROVED FAULTLESS, or "Misty" Sprayer.—Shaped like the



AUTO SPRAYER



FAULTLESS SPRAYER

INSECTICIDES

SHERWIN-WILLIAMS PRODUCTS.—Our Paris Green, Arsenate of Lead, Fungo-Bordeaux, and Lime-Sulphur Solution are the famous Sherwin-Williams manufacture.

NOT MAILABLE.—We cannot send liquids or poisons through the mails, so that all insecticides go by express or freight, not prepaid.

PARIS GREEN.—For liquid spraying. Use one pound of paris green to 100 or 200 gallons of water, generally strong enough if one-half pound in a barrel (50-gallon) of water, and allowed to stand twenty-four hours before using. Care must be taken in using all poisonous liquids that animals are not allowed to get at them. In powder form use one pound of Paris green and 20 to 50 lbs. of flour; mix thoroughly, apply evenly, preferably when dew is on plants. ¼ lb. 20c, lb. 75c, 5 lbs. for \$3.00.

ARSENATE OF LEAD.—Our stock of this is strictly fresh, and will be found the best spraying preparation in the list for destruction of insect pests. Use 2 lbs. to 50 gallons of water, or, if preferred, use 50 gallons of Bordeaux Mixture instead of water for dilution. In dry powder form, per lb. 60c, 5 lbs. for \$2.50.

FUNGO-BORDEAUX.—Powdered form of Bordeaux Mixture. Can be used either in powder form or diluted in water for spraying. Per lb. 40c, 5 lbs. for \$1.75.

LIME-SULPHUR SOLUTION.—A liquid for general spraying, both an insecticide and a remedy for disease. Use with Bordeaux for winter spraying; with Arsenate of Lead for first spring application, and alone for summer spray. (Two pounds of Bordeaux or Arsenate and one gallon of Lime-Sulphur to 50 gallons of water.) Per qt. 25c, half gallon 45c, gallon 65c.

POWDERED LIME-SULPHUR.—Powder form of Lime-Sulphur Solution. Handy and does not lose its strength. Dilute with water for spraying. 1 lb. 25c, 5 lbs. \$1.00, 10 lbs. \$1.75, 25 lbs. \$3.25.

NICO-PUME.—A condensed preparation of tobacco almost pure nicotine. Best spraying and fumigating preparation for greenhouse use, since it does not injure plants or blooms and kills aphid, red spider and mealy bugs. Use one ounce in 10 to 15 gallons of water, and it will be even better if a pound of whale oil soap is added. Price, 4-oz. can 75c, 1 lb. \$2.00, 4 lbs. \$7.00.

BLACK LEAF 40.—Condensed nicotine, recommended for outdoor uses, as well as for house plants. 1-oz. can 25c.

CROW BRAND INSECT POWDER.—Best grade. Fresh and nice. It does not pay to use cheap, ordinary grades. Splendid for home use to kill cockroaches ants and flies. By express, ¼ lb. 25c, lb. \$1.00.

FUMIGATING AND DUSTING POWDER.—Formerly sold under the name of Tobacco Dust. Destroys rose bugs, lice, cut worms, vine bugs, tomato worms, cabbage lice and parasites of all descriptions. Apply when foliage is wet. Also a fertilizer and will not burn or injure plants. By express, lb. 10c, 5 lbs. for 25c, 10 lbs. \$3.50.

HAMMOND'S SLUG SHOT.—A combination of potent insecticides and soluble plant food. It destroys all insects injurious to shrubs, trees, vines, potatoes, melons, cabbage, currants, vegetables and fruits. Though poisonous to insects, it does not injure foliage. 1 lb. 15c, 5 lbs. 40c, 10 lbs. 75c, 100 lbs. for \$6.50.



CONTINUOUS FAULTLESS SPRAYER.—Is made like the old standard Faultless Sprayer which is the most popular of this type. Made in such a way that the action of the plunger forces a continuous fine mist spray and drawing back plunger does not stop the flow as in the old style sprayer. Add postage for mailing, weight 2 lbs. By exp. brass \$1.25, tin 75c.

FAULTLESS POWDER SPRAYER.—Made of tin after the Faultless pattern, for use in applying Slug Shot, lime, Paris green mixture or any powder form of insecticides. Light and easily handled. Does the work perfectly and it is the most economical method in quantity of powder applied. It is cheap and effective. If to go by mail, add postage for mailing. By express, not prepaid, 75c.



LOWELL BUCKET PUMP.—A low priced, serviceable bucket pump, made similar in pattern to the Little Giant; not quite so large. It has only one tube with plunger. Is

useful for garden spraying, washing autos or windows, and for light work generally. Well constructed and will last many seasons. The best of the small brass bucket pumps. Price each \$3.25. Mailing weight 5 lbs.



LITTLE GIANT PUMP

THE LITTLE GIANT BUCKET SPRAY PUMP.—Constructed entirely of brass and is provided with a large air chamber and has ball valves, and the pressure is held uniformly so the nozzle throws a continuous spray. Will throw a solid stream 50 to 60 feet; fitted with hose and imperial combination and fine and coarse spray and solid stream nozzle and malleable foot rest. Price by express \$4.00. 8-foot pipe extension, by express, 50c. If to go by mail, mailing weight of pump 7 lbs; of extension pipe 2 lbs.

LEVER BUCKET OR BARREL SPRAY PUMP.—Similar to the Little Giant but is larger, has lever handle and can be attached to bucket or barrel. Action of the plunger keeps liquid thoroughly mixed by agitation. Made entirely of brass, will not rust. Price by express \$6.00. 8-foot extension pipe (for use among large trees), by express, 50c. Mailing weight of pump 9 lbs.; of pipe 2 lbs.

DUSTERS.—Buckets with perforated bottom, used for applying Slug Shot or other powdered forms of insecticides. Each, by express, 50c. Mailing weight 1 lb.

SHAKERS.—Tube form to apply insecticide powders. Easily carried and used. A simple tap of the shaker applies the powder where needed. Each, by express, 40c. Mailing weight, 1 lb.

STAR INSECT POWDER GUN.—Handy size for home use to blow powder in cracks and crevices. Largely used for killing houseflies. Each, postpaid, 18c.



DUSTER

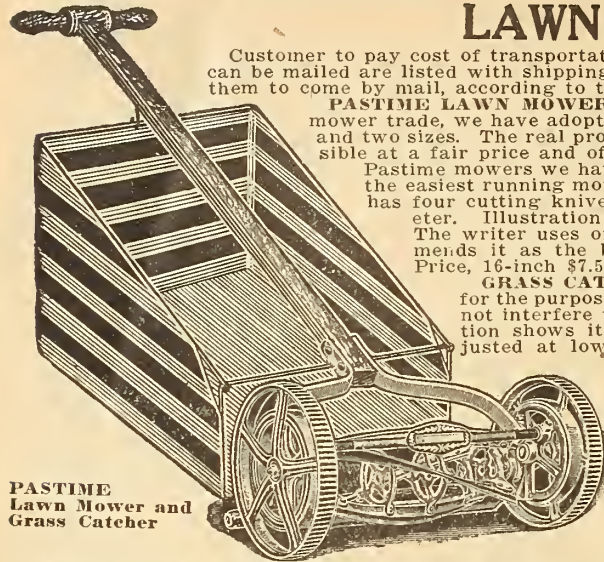
LAWN SUPPLIES

Customer to pay cost of transportation on goods in this department. Items which can be mailed are listed with shipping weight and you can add postage, if you want them to come by mail, according to table on page 2.

PASTIME LAWN MOWER.—After many years' experience in the lawn mower trade, we have adopted the policy of confining our line to one style and two sizes. The real problem is to get the very best mower possible at a fair price and offer it in sizes most convenient. In our Pastime mowers we have a new style which we are offering as the easiest running mower yet produced. It is ball bearing and has four cutting knives. The wheels are $9\frac{1}{4}$ inches in diameter. Illustration shows general style of the machine. The writer uses one at his own home and recommends it as the best mower we have ever had. Price, 16-inch \$7.50; 18-inch \$8.00.

GRASS CATCHERS.—Most successful device for the purpose. Attached to handle only. Does not interfere with action of mower. Illustration shows it adjusted. Can be quickly adjusted at lower end to dump grass. No. 1, for 12 to 16-inch ordinary mowers, each 75c. No. 2, for large mowers, size 16 to 20-inch, each \$1.00. Mailing weight 2 lbs. each.

IMPROVED GRASS SHEARS.—Improvement on the ordinary grass or sheep shears. Has long blades and handle is curved to prevent rubbing knuckles on ground when using. Each, by exp., 50c. Mailing wt., 1 lb. each.



PASTIME
Lawn Mower and
Grass Catcher

GRASS HOOKS AND SICKLES.—Useful for trimming edges of lawns, etc. Mailing weight by parcel post 2 lbs. each. By express, good quality, 40c; best quality 60c.

RUBBER HOSE.—There is a heavy advance in values of rubber and our prices are based on contracts made before the raise. Prices quoted are only good so long as present stock lasts. Order early. Few realize the great difference there is in the quality of rubber hose. The low grades will not stand ordinary water pressure and are gone in a few days. The grades which we offer are, we believe, superior to any. We warn everyone not to leave their hose in the sun when not in use, as the water left in it gets very warm and will rot the best grade of hose. **The Goodyear.**—The very highest grade of moulded hose. Made to last. 50-ft. coil, including nozzle, \$10.50; without nozzle, \$10.00. **Onk Brand.**—A splendid quality of 7-ply wrapped hose. Per 50-ft. coil, including nozzle, \$8.00; without nozzle, \$7.50.

Elm Brand.—A good, serviceable hose. Five-ply wrapped. Best of the cheap grades. 50-ft. coil, including nozzle, \$6.50; without nozzle, \$6.00.

DUDE HOSE REEL.—It pays to use a reel, as it keeps the hose in better shape and saves labor and annoyance. Price by express, \$1.25.

BOSTON HOSE NOZZLE.—The handiest nozzle. By simply turning the front portion you can throw a spray or a solid stream or turn off the water. Brass, by express, 50c. Mailing weight 1 lb.

PLUVIUS WATER SPRINKLER.—Has three whirling arms that throw the streams to cover a radius of 50 feet. Each, by express, \$1.35. Mailing weight 2 lbs.

DANDELION DIGGER.—A small, chisel-like tool, with cutting edge notched in the center to cut the crown and tap root of the plant. By parcel post, each 20c. By express, each 15c, doz. \$1.50.

LITTLE GIANT MOLE TRAP.—Not so large as the Reddick but principle is similar. Strong, durable and will do the work. Is easily set. Has a strong spring with great force. Each, by express, 85c. Weight 2 lbs.

REDDICK MOLE TRAP.—If you are bothered with moles you should purchase one of these traps. It is undoubtedly the best trap made and no mole can pass under it and live. Each, by express, 85c. Weight 2 lbs.

LAWN FERTILIZERS

PEERLESS LAWN DRESSING.—(See p. 57.)—Our own preparation from mineral and animal fertilizer, specially made for lawn use. Price, 10 lbs. 60c; 25 lbs. \$1.00; 100 lbs. \$3.00; 500 lbs. \$13.75.

PURE BONE MEAL.—(See p. 59.)—Unadulterated, practically odorless and clean. A splendid fertilizer for general purposes. Use 50 lbs. per 1,000 sq. ft. of surface for top dressing or plowing under. Per 10 lb. pkg. 50c; 25 lbs. \$1.00; 100 lbs. \$3.00; 500 lbs. \$13.75.

PULVERIZED SHEEP MANURE.—(See p. 59.)—A natural manure prepared in least offensive form and the best animal produce for lawn or garden work. Use 50 lbs. per 1,000 sq. ft. of surface for top dressing or plowing under. Price, 10 lb. pkg. 50c; 50 lbs. \$1.25; 100 lbs. \$2.00; 500 lbs. \$8.75.

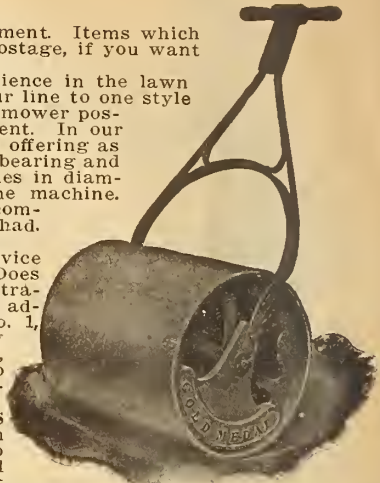
COMMERCIAL FERTILIZERS

Owing to the European war the price of potash is uncertain, hence we ask you to write for prices on large lots. **NITRATE OF SODA.**—Imported from the great nitre beds in Chile. It is the most popular fertilizer for stimulating vegetable growth. Use sparingly. Generally applied direct to the hills of growing plants. Write for prices.

ACID PHOSPHATE.—A ground mineral containing about 14 per cent phosphoric acid, a constituent highly important in balanced fertilizer farm crops. Use 200 lbs. per acre broadcast at spring plowing. Per 100 lbs. \$1.60; 500 lbs. \$7.50.

SULPHATE OF POTASH.—A concentrated mineral fertilizer with 52% available potash. So very strong that it is only used in small quantity (about 50 lbs. per acre) or as a part of fertilizer mixtures. Best for garden and lawn uses. Write for prices.

PEERLESS GRAIN FERTILIZER.—A mixture of commercial fertilizers in such proportion as will furnish nitrogen, phosphorus, humus and potash for the growing corn or small grain, and has the additional advantage of destroying root and wire worms in the soil. Price per 100 lbs. \$3.00; 500 lbs. \$14.00; 2,000 lbs. \$44.00.



DUNHAM LAWN ROLLER

Easy to handle as a lawn mower. Firms the sod and keeps lawn in fine condition. Will give a perfect lawn if used often and makes mowing a pleasure.

No. 402.—Diam. 15 in., length 24 in.; made in 3 sections; wt. 200 lbs. List each \$12.50; our net price \$10.

No. 404.—Diam. 20 in., length 20 in.; made in 2 sections; wt. 250 lbs. List each \$15.00; our net price \$12.

No. 407.—Diam. 20 in., length 24 in.; made in 2 sections; wt. 300 lbs. List each \$18.50; our net price \$15.

No. 421.—Same as No. 407, but has tray on top where bricks or other articles may be placed to add weight. List each \$24.75; our net price \$20.00.

No. 2424.—The Dunham Water Roller. A steel drum 24 in. in diameter, 24 in. long. Hollow; can be filled with water or sand to add weight. Ball bearing and easy running. Splendid for lawn use. List ca. \$17.00; our net price \$13.50.

IRON RESERVOIR VASES

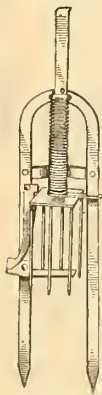
(Home Pattern.)—Splendidly useful and ornamental for lawn or cemetery adornment. The reservoir holds water and the plants secure moisture by capillary attraction as needed.

No. 7.—Similar to illustration. Diameter of vase 22 inches; height to top of handles 30 $\frac{1}{2}$ inches; reservoir capacity 7 $\frac{1}{2}$ gallons. Price each (painted white) \$12.00.

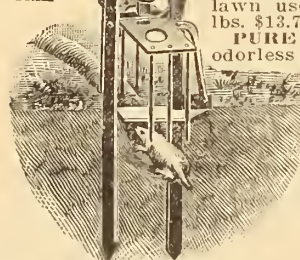
No. 1.—Same as No. 7 but higher. Pedestal 15 inches high between base and reservoir, making total height of 45 in. to top of handles; other dimensions same as No. 7. Price each (painted white) \$19.00.



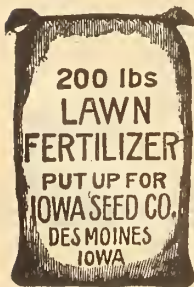
IRON RESERVOIR VASE
Price per 100 lbs. \$3.00; 500 lbs.



LITTLE
GIANT
MOLE
TRAP



REDDICK MOLE TRAP



TOOLS AND IMPLEMENTS

To reduce the cost of gardening it is necessary to have the best tools. A good wheel hoe is as much superior to a common hoe for cultivating a garden as a mowing machine is to the sickle in the hay field. All of the following tools have been thoroughly tested and for their own particular class of work have given splendid satisfaction. Notice reduced prices. If you desire it, we will send illustrated circular describing any of the tools.

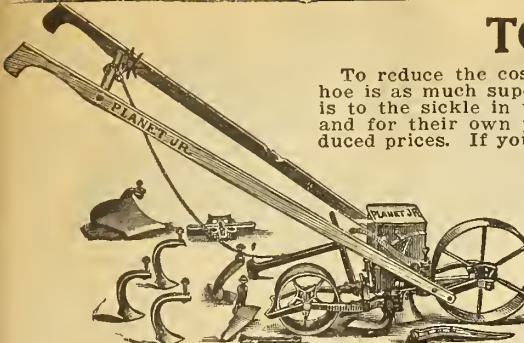
PLANET JR. GARDEN TOOLS

PLANET JR. NO. 4 COMBINED SEEDER AND CULTIVATOR.—This latest improved tool is giving good satisfaction. It combines in a single convenient implement, a first-class hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and as a seeder it sows in continuous rows, or drops in hills 6, 9, 12, 18 or 36 inches apart. It is thrown out of gear by simply raising the handles. The Index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe, garden plow or cultivator. With this the ordinary farmer can do practically all the work in his small crops. Price \$13.25. Set three rakes, if desired, \$1.00 extra.

PLANET JR. NO. 4 PLAIN DRILL.—The drill part only of the above machine. Price \$10.50.

PLANET JR. NO. 17 SINGLE-WHEEL HOE.—Has one pair of hoes, three cultivator teeth and a plow. Is just the right assortment of tools for a family garden and should be very popular. Rakes and other attachments may be added later to make a complete tool. Price, \$6.25.

PLANET JR. NO. 16 SINGLE - WHEEL HOE.—Has an 11-in. wheel, with broad face; is very light, strong and easy running. It has an adjustable handle and quick - change frame. The tools are a well-shaped plow, a pair of 6-inch shield hoes, and 3 all-steel patent cultivator teeth; set of 2 rakes and a practical leaf guard. Price \$7.25.



PLANET JR. NO. 4 SEEDER AND CULTIVATOR

PLANET JR. NO. 1 COMBINED DRILL AND CULTIVATOR.—A most popular sort. As a hoe it works to and from both sides of the row at once, or between rows. As a cultivator it is admirably adapted to deep mellowing of the soil. Each machine sent out with the tools shown in cut. Price \$9.00. Pair of rakes 50c extra.

PLANET JR. NO. 25 COMBINED SEEDER AND CULTIVATOR.—A large drill and double wheel hoe, intended especially for market gardeners. Sows all kinds of garden seeds in hills or drills, and combines with it a double wheel hoe, cultivator and plow. Illustration below. Price \$16.00.

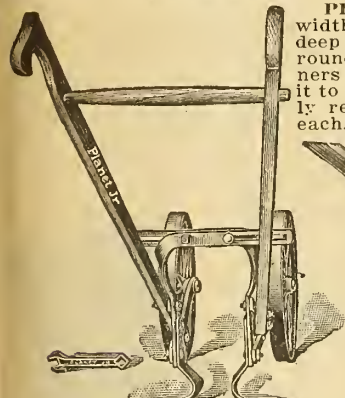
PLANET JR. NO. 12 DOUBLE-WHEEL HOE.—Arch is high enough to enable operator to work both sides of the row at once until plants are 18 inches high, then the wheels can be set close together to work between rows. Does the work of six men with ordinary hand hoes. Attachments, one pair 6-in. hoes, two pair hollow steel cultivator teeth, pair plows, pair leaf lifters. Price \$8.75.

PLANET JR. NO. 13 DOUBLE-WHEEL HOE.—Identical with No. 12, described above, but has only one pair hoes, no other attachments. Price \$6.00.



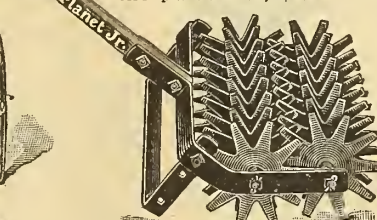
PLANET JR. NO. 12 DOUBLE-WHEEL HOE

PLANET JR. NO. 60 DOUBLE-WHEEL ONION HOE.—A new style hoe of exceptional value. Not only can the handles be raised and lowered to suit the user, but the distance between the knives can be lessened or increased as desired. A bolt, as shown in the cut, holds the knives in position and makes the machine entirely rigid at the distance needed. You can work both sides of a row or you can set the wheels inside the arms and use it between rows that are narrow. Has one pair of six-inch hoes only, but these are the most consistent soil mulchers and weed killers of all attachments now in use. Price each \$5.25.



NO. 60 DOUBLE WHEEL HOE

PLANET JR. TWELVE-TOOTH HARROW.—Depth and width regulated by hand levers while in motion. Cultivates deep without throwing earth upon plants, and its smooth, round-throated teeth turn strawberry runners without injuring them. We guarantee it to prevent clogging, and teeth are quickly reversed by changing a single bolt in each. Is provided with a pulverizer which leaves the ground in fine condition. Price \$11.25; or, without the pulverizer, \$9.50.



PULVERIZER AND WEEDER

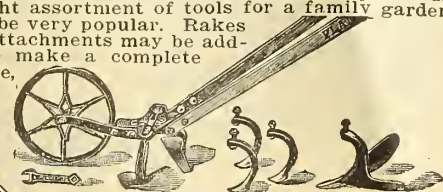
PLANET JR. NO. 8 HORSE HOE.—Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and Cultivator. In use all over the world and so well built as to stand incredible strain, yet light and easy to handle. The depth is under perfect control by a new lever wheel, making exact plow work, steadying the machine and relieving the operator. The reversible side hoes act as plows or hillers. This machine works shallow and close, without injury to roots, and it saves a great deal of the hard labor in cultivating. Price each \$11.50.



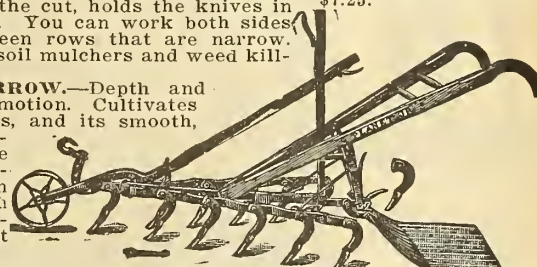
PLANET JR. N. 8 HORSE HOE



PLANET JR. NO. 25 HILL AND DRILL SEEDER



NO. 17 SINGLE-WHEEL HOE



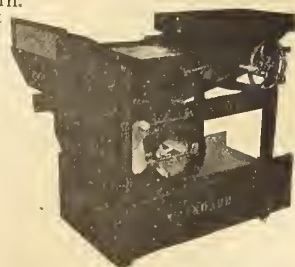
PLANET JR. TWELVE-TOOTH HARROW

PLANET JR. STAR PULVERIZER, LEVELER AND WEEDER.—Especially adapted for preparing the seed bed. After the ground has been plowed or spaded, will be of great value in smoothing and fining the surface in the best possible condition for planting seeds. It is much more thorough and rapid in its work than an ordinary garden rake, thoroughly pulverizing lumpy soil. The rear blade cuts 13½ inches and levels the ground perfectly. After the crops are started use between the rows as a weeder or as a crust breaker. Works equally well forward or backward. Each \$3.50.

STANDARD SEED CLEANER—Does the best work in cleaning all kinds of seed and grain. Will pay for itself in one year by the increase in yield resulting from carefully cleaned seed grain.

No. 102—Has assortment of 2 wire) and galvanized spreading boards that lap over the ends of the screens, preventing grain or seeds from working underneath. Height, 41 in., length 58 in., width 31 in. Has automatic vibrators that keep screens from clogging. Price \$30.00 f. o. b. Des Moines, or \$27.00 if shipped from the factory in Ohio.

No. 101—Same as above but does not have vibrator attachments. Price each \$27.00 f. o. b. Des Moines, or \$25.00 if shipped from the factory.



STANDARD SEED CLEANER

COLUMBIAN GARDEN DRILL

The Columbia Garden Drill we consider one of the most perfect machines in the market for planting all kinds of seeds. It is not only adaptable to all kinds of vegetable seeds, but can also be used for planting seed grain or forage crops. It is popular with gardeners and around Des Moines is given preference. It is not a cultivator, but is a first-class seeder. With each machine we send a little booklet, "Seeds and Sowing," containing full directions for operating the tool and much valuable information about farm and vegetable seeds.



No. 10.—Like illustration. Strong, durable, simple, and performs the work splendidly. Price \$13.50.

No. 11.—Is exactly like No. 10, but has the fertilizer attachments. One who has not used fertilizer in the drill when planting cannot realize the tremendous advantage gained in earliness and strong growth. Price, each \$16.50.

IMPROVED LITTLE GIANT SEED SOWER.—Farmers should have a small hand seed sower for emergency use. This is an improved style, strong, well made and durable. Very easy to understand and operate. Directions with each machine. By express \$1.25. Mailing weight 4 lbs.



EUREKA POTATO PLANTER
EUREKA POTATO PLANTER.

—The best hand potato planter that we know of as it does the work perfectly. It also plants beans and corn equal to any corn planter. See illustration.



By express \$1.25. Mailing weight 4 lbs.
EXCELSIOR WEEDING HOOK.—Can be used to great advantage among small and tender plants. Price by parcel post each 15c, doz. \$1.26; by express each 10c, doz. \$1.00.



BLUE GRASS STRIPPERS.—For gathering seeds. Each, by express, \$2.00. Mailing weight 4 lbs.

GARDEN TROWELS.—By parcel post 5-in. 15c; 6-in. 20c. By exp. 5-in. 10c, 6-in. 15c.

FLORIST TROWELS.—Extra heavy and durable. Best made. By parcel post, each 35c; by express, each 25c.

DANDELION DIGGER.—Straight, chisel-like bladed tool with notched cutting knife. Each 15c, dozen \$1.50.

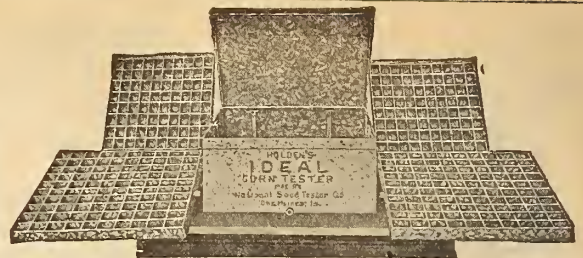
DIBBER.—Steel pointed, for transplanting vegetable plants. Each, by parcel post, 42c; by express, 35c.

EUREKA SEED DRILL.—A small hand drill for vegetable seeds in beds. Gardeners will like it for sowing seeds in hotbeds. By express \$1.25. Weight, 3 lbs.

CHILDREN'S GARDEN TOOLS

STYLE F.—Three pieces, hoe, rake and spade. Just the right size for little folks. Price per set 25c.

STYLE FF.—Four pieces, hoe, rake, spade and fork. A really serviceable and desirable set for growing children. Also used by ladies in making flower beds. Cheap and good. Price per set 50c.



HOLDEN'S IDEAL CORN TESTER.—NO. 1.—Made of galvanized iron as per pattern shown in the illustration. It is for testing ears of seed corn before shelling for seed. Capacity of this size 400 ears (one to each compartment) and each compartment is removable at will. It is quite simple in operation and full directions for use will be sent with each tester. By express or freight, not prepaid, \$10.00.

HOLDEN'S IDEAL CORN TESTER.—NO. 2.—A cabinet tester, with capacity for 1,000 tests at one time. By express or freight, each \$15.00.

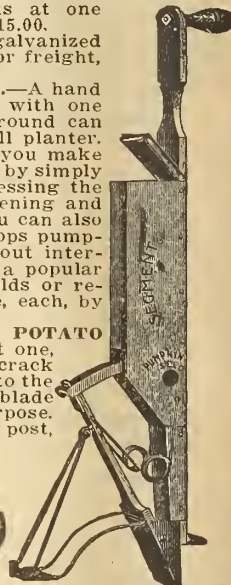
No. 4.—A single box tester of galvanized iron; capacity 200 tests. By express or freight, each \$5.00.

SEGMENT HAND CORN PLANTER.—A hand corn planter which can be operated with one hand, and an immense amount of ground can be planted in one day with this small planter. Drops as fast as you can walk, and you make it drop where you want it. Open drop by simply bending the planter forward thus pressing the spring which controls the hopper opening and permits the corn to fall through. You can also plant beans or peas with it and it drops pumpkin seed by a simple operation without interfering with the corn planting. It is a popular and successful tool and for small fields or replanting is specially desirable. Price, each, by express, \$1.25. Mailing weight 4 lbs.

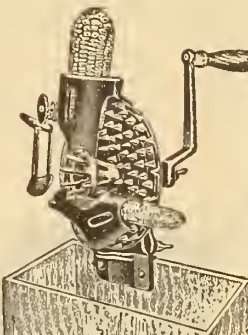
CONCAVED AND CURVED SEED POTATO KNIFE.—Thin and right shape to cut one, two or three eye pieces fast and not crack tuber nor injure germ. Far superior to the ordinary straight blade knives for this purpose. Each, by parcel post, 30 cents.



CONCAVED AND CURVED POTATO KNIFE.



SEGMENT CORN PLANTER



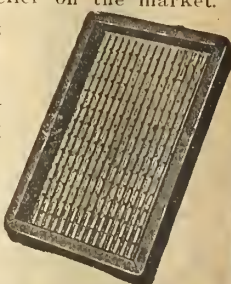
STAR CORN SHELLER.—A fine sheller for hand use. Has attachment for shelling tips and butts separately, making it desirable in saving seed corn. We also sell an extra attachment for shelling pop corn. Can be fastened on a box and has reversible chute which throws cobs out at the rear away from the shelled corn. Strong, well made, and will last a lifetime. At our very low price, we consider it the best hand sheller on the market.

Each, by express, \$1.25; dozen, \$14.00. wt. 12 lbs.

PLANTER PATENT SEED CORN GRADER.—Single Sieve.—A sieve grader 12x18 in. in size with screen of heavy galvanized iron and mesh especially suited to grading seed corn before planting. A cheap, quick and effective method of eliminating tip and butt grains and preparing seed for edge dropping. Each by express, 65c. Mailing weight 3 lbs.

Double Sieve.—Like above, with two sieves attached. Each, by express, \$1.00. Mailing weight 5 lbs.

LANG'S HAND WEEDER.—Is in our opinion the best; its special feature a band which passes over the fingers, which, when the tool is not in use, gives full use of the hand for pulling weeds and thinning out plants without laying down the tool. Price 25c each, postpaid. By express, each 20c, dozen \$2.00.



SEED CORN GRADER

LANG'S HAND WEEDER

HANDIEST TOOL ON EARTH. 25c By Mail PrePaid

BUY THE CHILDREN A SMALL SET OF TOOLS AND ENCOURAGE THEM TO STUDY THE GREAT MIRACLE OF PLANT LIFE.

POULTRY SUPPLIES



PLYMOUTH ROCK CHICK FOOD.—This food has been prepared with the idea of supplying a perfectly balanced ration for young chicks. It has been demonstrated that young chicks do much better on our especially prepared feed than on any moist or soft food that can be obtained. The food is composed of various kinds of grains, bone and other nutritive foods, making it the most complete and cleanest chick food on the market. Price per 25-lb. bag 75c, 50 lbs. \$1.35, 100 lbs. \$3.00.

PLYMOUTH ROCK HEN FOOD.—In the preparation of this food we have had in mind the production of the best food that could be made for laying hens and the keeping of all fowls healthy. Price, 25 lbs. 65c, 100 lbs. \$2.90.

PLYMOUTH ROCK POULTRY MASH.—A mash food containing much the same ingredients as Plymouth Rock Hen Food. 25 lbs. 65c, 100 lbs. \$2.90.



HAWKEYE CHICK FOOD.—We do not add grit or shell to our Plymouth Rock brands of poultry foods but this brand contains both in the proper amounts. The grits used are small sizes suitable for the growing chicks. 25 lbs. 65c, 100 lbs. \$2.25.

HAWKEYE HEN FOOD.—Is like the Plymouth Rock Hen Food but has grit and shell added to the formula. Price, 25 lbs. 60c, 100 lbs. for \$2.10.

ALFALFA CLOVER MEAL.—An excellent preparation of alfalfa containing a large amount of digestible protein, especially adapted to be fed with a mash food. Valuable as a winter food. Price, 10 lbs. 25c, 25 lbs. 50c, 100 lbs. \$1.80.

GROUND MEAT SCRAPS.—Fresh beef thoroughly cooked and dried; excellent food for young chicks or laying hens. 10 lbs. 50c, 25 lbs. \$1.00, 100 lbs. \$4.00.



CRUSHED RAW BONE.—Really better than clam shell, but will pay to use both. Best quality, made from fresh bones. 10 lbs. 50c, 25 lbs. \$1.00, 100 lbs. for \$3.50.

RAW BONE MEAL.—Ground fine for feeding small chickens; also used as a lawn fertilizer. Price, 10 lbs. 45c, 25 lbs. for 85c, 100 lbs. \$3.50.

CRUSHED CLAM SHELL.—Harder than oyster shell, and not dissolving so readily, will serve as grit; contains a large amount of available lime necessary in egg production. Price, 25 lbs. 35c, 100 lbs. 75c, 500 lbs. at 70c per 100.

CRUSHED OYSTER SHELL.—A most important article for the poultry yard and should be supplied liberally. Superior quality. Hens will keep healthier, lay better, and eggs will be more fertile if supplied with it. 10 lbs. 25c, 25 lbs. 35c, 100 lbs. \$1.00, 500 lbs. \$4.50.

MICA CRYSTAL GRIT.—Well known grit from the East. Harder, sharper and superior in every way to ordinary kinds. It goes further. Both fine and coarse sizes for fowls and chicks. Per 25 lbs. 35c; 100 lbs. \$1.00; 500 lbs. \$4.50.

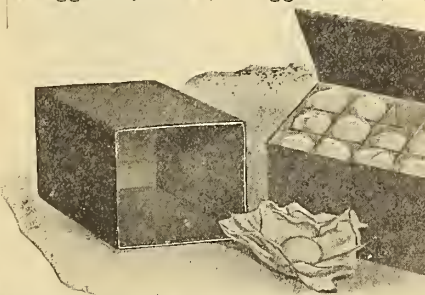
PEARL GRIT.—No better grit can be found for poultry. Sharp and wears sharp. Per 25 lbs. 35c, 100 lbs. 75c, 500 lbs. or more at 70c per 100 lbs.

PEARL CHICK GRIT.—A small grit which is a necessity when raising young chickens. Per 25 lbs. 35c, 100 lbs. 75c, 500 lbs. or more at 70c per 100 lbs.

CHARCOAL.—Granulated to right size. The large poultry size is also suitable for hogs. Two sizes, 5 lbs. 30c, 10 lbs. 50c, 25 lbs. 75c, 50 lb. bag \$1.50, 5 bags at \$1.40 per bag.

CLIMAX BASKETS.—Are desirable for shipping eggs for setting; will hold two settings of Leghorns, etc., or one of Asiatic. Price per 10, 50c; 50 for \$1.75; 100 for \$3.50. Weight 1 lb. each.

SHIPS SAFE EGG CASES.—Like picture below but shipped in flat, saving freight or express charges. We recommend them. Price, 15-egg size \$1.50 per doz., 30-egg \$2.50 per doz., 50-egg \$3.00 per doz. Mailing weight, 15-egg size, 1 lb.; 30-egg size, 2 lbs.; 50-egg 3 lbs. each.



LIVE CHICK BOX.—Made from corrugated paper with ventilating holes in top and sides; for shipping small, live chicks. 25-chick size \$2.00 per doz., 50-chick size \$2.50 per doz., 100-chick size \$4.00 per doz. Mailing weight, 25 size, 2 lbs.; 50 size, 4 lbs.; 100 size, 6 lbs.

WIRE HEN'S NESTS.—These nests are strongly made from heavy wire and will last a lifetime. There is no room on them for lice to find a lodging place, and they are easily kept clean. Each 15c, 1/2 doz. 80c, doz. \$1.50, not prepaid.

LAMBERT'S DEATH TO LICE.—A remedy for poultry vermin, moths, lice on horses, cattle or plants, fleas on dogs, etc. By express, 1 lb. pkg. 25c, 3 lb. pkg. 50c.

CONKEY'S LICE POWDER.—One of the most perfect lice killers. Also good for fleas on dogs and other animals. By express, 1 lb. pkg. 25c, 3 lb. pkg. 50c, 7 lb. pkg. \$1.00.

LEE'S INSECT POWDER.—Use on fowls, in nests, and among the litter. Has sprinkler top to the can. By express, 20 oz. pkg. 25c, 3 lb. pkg. 50c.

ANTISEPTIC NEST EGGS.—Keeps vermin from the nests and causes them to leave fowls. By express, per doz. 75c.

GLASS NEST EGGS.—By mail in regular Shipsafe egg case, which may be used to ship eggs for hatching, 15 for 50c; 50 for \$1.50, postpaid.

PRATT'S POULTRY REGULATOR.—(Formerly called Pratt's Poultry Food.)—Will keep hens in good health and cure chicken cholera and other diseases of chickens and turkeys. By express, 26 oz. pkg. 25c, 4 lb. pkg. 50c, 9 lb. pkg. \$1.00.

CONKEY'S FLY KNOCKER.—A liquid that kills all flies and insects it strikes, and drives others away. A great relief to cows and horses. Especially valuable to dairymen. Stock sprayed with Fly Knocker will not be troubled with insects while feeding. By express, qt. 35c, 1/2 gal. 60c, gal. \$1.00. Mailing weights, qt., 3 lbs.; 1/2 gal., 5 lbs.; gal., 10 lbs. We will quote special prices on large orders of supplies or feeds.

CONKEY'S NOXICIDE.—A liquid disinfectant and deodorizer for use in spraying poultry houses. Destroys the germs and can be used in diluted form as a dip. By express, pint 35c; qt. 60c.

Prices are subject to important market changes. Transportation to be paid by purchaser except where marked postpaid. In sending postage for items which you want to come by parcel post, be sure to add 1 pound to stated weight of package goods.

CONKEY'S ROUP CURE.—An excellent remedy that has been thoroughly tried and has given excellent satisfaction. Trial size 25c, regular size 50c, large size \$1.00, postpaid.

CONKEY'S CHOLERA CURE.—We consider this the most dependable cholera cure known. Used for cholera, indigestion, bowel trouble, diarrhoea and kindred diseases. Trial size 25c, regular size 50c, postpaid.

CONKEY'S LAYING TONIC.—A splendid item for laying hens, and beneficial to all poultry. By express, 24 oz. pkg. 25c, 3 1/4 lb. pkg. 50c, 7 1/2 lb. pkg. \$1.00.

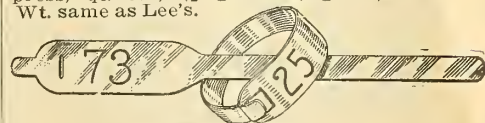
LEE'S EGG MAKER.—Sold under a manufacturer's guarantee to make hens lay. Foundation is granulated blood, deodorized. By expr., 2 1/2 lb. pkg. 25c, 5 lbs. 50c. Add postage if by parcel post.

LEE'S GERMOZONE.—A liquid to be given in the drinking water of fowls. It will cure cholera, roup and nearly all poultry diseases. By express 50c. Mailing weight 2 lbs.

GERMOZONE TABLETS.—Lee's Germozone in the form of small tablets to be dissolved in drinking water of the fowls. Per box of 60 tablets, making 1 tablet to a quart of water, postpaid, 50c.

LEE'S LICE KILLER.—A liquid that will eradicate lice, mites and chiggers, by applying to roost and nest boxes. It is now considered the standard liquid lice killer. By exp., qt. 35c, 1/2 gal. 60c, gal. \$1.00. Mailing wt., qt., 3 lbs.; 1/2 gal., 5 lbs.; gal., 10 lbs.

CONKEY'S LICE LIQUID.—For painting roosts, nest boxes, coops and houses. Kills lice and mites. By express, qt. 35c, 1/2 gal. 60c, gal. \$1.00. Wt. same as Lee's.



LEADER LEG BAND

LEADER LEG BAND—No. 2.—An adjustable band which can be used for any sized fowl from a bantam to a turkey. Made of aluminum, light and smooth. Doz. 15c, 100 65c, postpaid. 500, not prepaid, \$2.75.

LEADER LEG BAND—No. 1.—For bantams and smaller breeds. Doz. 15c, 100 65c, postpaid; 500, not prepaid, \$2.75.

DOUBLE CLINCH LEG BANDS.—

The fastening consists of two clinches which close down over the end of band in such a way as to make it practically impossible to lose them off. Prices, postpaid, doz. 15c, 100 65c; not prepaid, 500 for \$2.75.

KEY RING LEG BANDS.—Made of celluloid in six sizes and ten colors. Spread easily to put on leg of fowl. Have no sharp edges and are easy on the fowl's legs. Sizes: Asiatic, American, Mediterranean, Bantam, Pigeon and Baby Chick. Colors: Black, White, Dark Blue, Light Blue, Pink, Red, Garnet, Green, Yellow, Purple. Prices, three largest sizes, per doz. 15c, 100 75c, postpaid; three small sizes, per doz. 10c, 100 for 50c, postpaid.

PHILADELPHIA POULTRY MARKER.—A convenient little spring punch for marking chickens. Marks small hole in web of the foot. 25c each, postpaid.

PILING LANSOWNE POULTRY MARKER.—A handy poultry marker. Look at the illustration and see how easy it is to use. Large or small size sent postpaid for 25c.





LUTHE BROOD COOP.—Round metal coop, made of galvanized iron, with sliding door which can be fastened open at desired size. Adjustable top for ventilation. Rat, mink, weasel, mite and rain proof. Owing to present high values of galvanized iron, price is higher than in former seasons, but the coop is so handy and such perfect protection for young chicks that it is recommended a bargain at present values. Size 22 in. diameter, 20 in. high. Each \$2.00; dozen \$22.50.

BURLINGTON BROOD COOP.—Similar to Luthe coop in shape and size. Price each \$1.75; dozen \$18.00.

SUCCESSFUL SANITARY BROOD COOP.—Made of galvanized iron. Rat, mink, weasel, mite and rain proof. Weights, No. 1, 13 lbs.; Nos. 2, 3, 20 lbs.

No. 1—17x23 in.; height, front 16 in., rear 12 in. Each \$2.00; doz. \$21.00.

No. 2—23x29 in.; height, front 24 in., rear 18 in. Each \$3.50; doz. \$36.00.

No. 3—23x29 in.; height, front 16 in., rear 12 in. (for young chicks). Each \$3.00; doz. \$30.00.

EMPIRE EXHIBITION COOP.—The standard make, used by nearly all first-class shows:

Style AA—Length 2 ft., width 2 ft., height 27 in., with solid ends and wire back \$5.00. We also carry the **Style AA** fronts 2 ft. long at 90c each. **Style C** fronts 4 ft. long at \$1.75 each. Larger sizes ordered when wanted.

Style C—Is 4 ft. long with two compartments each of which is 22x24x26 in. Price with solid veneer ends, wire back and front, \$4.60; with solid ends and back \$3.00. With solid veneer back \$3.20.

IOWA SHIPPING COOPS.—All wood. Sides and end pieces nailed together with cleats so that coops are readily made in using form. As shown by cut coops are ventilated front and back and top is covered with slats, giving thorough ventilation. Cleats around upper and lower end make it easy to handle.

No.	Dimensions	Weight	1/2 doz.	1 doz.
No. 1	18x12x20 in.	6 lbs.	\$1.50	\$5.40
No. 3	18x20x20 in.	10 lbs.	2.00	6.75
No. 5	30x20x20 in.	14 lbs.	3.00	10.50



IOWA SHIPPING COOP.

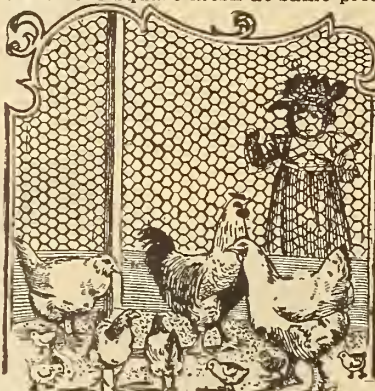
BANNER POULTRY FENCE.—Made of heavy No. 17 galvanized wire with small square mesh at bottom, ranging larger at top. Strong and durable. Small chicks cannot get through and it will turn dogs and small animals. Put up in rolls of ten rods length.

Width	Cut Rolls Per 10 Ft.	Full Roll	Five Rolls
18-inch	..... \$ .16	\$3.25	\$15.75
24-inch	..... .20	4.00	19.00
36-inch	..... .25	5.00	23.50
48-inch	..... .30	6.00	28.50
60-inch	..... .35	7.00	33.00
72-inch	..... .40	8.00	38.00

GALVANIZED STAPLES.—For fastening wire poultry netting, 10c per lb.

POULTRY NETTING

We can supply both the hexagon mesh of the pattern shown in the illustration and also the square mesh at same price.



The best make; thoroughly galvanized before weaving, to prevent rusting, and properly twisted. Prices are subject to important market changes: Made of No. 19 wire and 2-inch mesh; put up in rolls 150 feet in length.

Width Inches	Per Roll	Width Inches	Per Roll
12	..... \$1.50	36	..... \$3.50
18	..... 1.75	48	..... 4.75
24	..... 2.50	60	..... 6.00
30	..... 3.00	72	..... 7.00

One-inch mesh, No. 20 wire, for young chicks and Belgian hares.

12	..... \$2.75	30	..... \$6.50
18	..... 4.00	36	..... 7.50
24	..... 5.00		

Other widths if desired. Will allow 5 per cent discount on lots of 5 rolls or more. Cut rolls, any width, 2-inch mesh, 1c per sq. ft.; 1-inch mesh, any width, 2c per sq. ft.

BLATCHFORD PRODUCTS

Prices Subject to Change



CALF MEAL.—Takes the place of milk as a feed for young calves. One pound makes a gallon of feed. Price, 25-lb. bag \$1.10; 50-lb. bag \$2.00; 100-lb. bag \$4.00; 500 lbs. \$19.00.

PIG MEAL AND LAMB FOOD.—For little pigs or lambs at same quantity prices as Calf Meal.

EGG MASH.—A feeding mash for laying hens. Superior to others. 25-lb. bag \$1.00; 100 lbs. \$3.50; 500 lbs. \$17.00.

MILK MASH.—For growing chicks and finishing fowls for market. Produces a wonderful growth in young chicks. Price, 4-lb. carton 25c; 25-lb. bag \$1.10; 100-lb. bag \$4.00.



BUFF PLYMOUTH ROCK

EGGS FOR HATCHING

If 15 chicken eggs are wanted for a setting, add 20c to price quoted. Order now and state time of delivery wanted.

We are prepared this season to supply eggs for hatching from choice farm-raised, high-grade, thoroughbred stock of the leading varieties. They are superior egg-laying strains and have won many prizes at leading poultry shows.

BARRED PLYMOUTH ROCKS.—The farmer's favorite. From large, well-marked stock. Setting of 13 eggs \$1.55.

WHITE PLYMOUTH ROCKS.—Great egg producers and very early to mature. Our stock is pure white. Price per setting of 13 eggs \$1.55.

BUFF PLYMOUTH ROCKS.—Becoming very popular as a general purpose fowl. Per setting of 13 eggs \$1.80.

WHITE WYANDOTTES.—Rapidly becoming favorites. They are great layers, mature early and are pure white. Price per setting of 13 eggs \$1.80.

SILVER-LACED WYANDOTTES.—Most popular of Wyandotte class. Per setting of 13 eggs \$1.80.

BLACK LANGSHIANS.—Very satisfactory for general purposes. Per setting of 13 eggs \$1.80.

BROWN LEGHORNS.—The greatest of all layers. Our stock is from one of the best laying strains in the country. Price per setting of 13 eggs \$1.55.

SINGLE COMB WHITE LEGHORNS.—Beautiful and profitable variety. Per setting of 13 eggs \$1.55.

LIGHT BRAHMAS.—High scoring stock. Per setting of 13 eggs \$1.80.

RHODE ISLAND REDS.—Single or Rose Comb as preferred. Per setting of 13 eggs \$1.55.

BUFF ORPINGTONS.—Large, handsome fowls. Per setting of 13 eggs \$1.80.

WHITE ORPINGTONS.—Most popular breed among fanciers. Our stock is a fancy strain. Setting of 13 eggs \$1.80.

BUFF COCHIN BANTAMS.—Similar in shape and color to the standard Buff Cochin fowl, except in size. Price per setting of 15 eggs \$2.00.

SILVER SEBRIGHT BANTAMS.—Beautiful little fowls of black and white markings. Best strain of pure and high scoring stock. Setting of 15 eggs \$2.00.

BRONZE TURKEYS.—Usually scarce, but we hope to have a good supply this season. Setting of nine eggs, \$3.50.

WHITE HOLLAND TURKEYS.—Preferred by some over the Bronze variety. Per setting of nine eggs, \$3.50.

MAMMOTH WHITE PEKIN DUCKS.—Per setting of nine eggs \$1.50.

INDIAN RUNNER DUCK.—Considered the best layers of any breed of ducks. Quick growing. Setting of 9 eggs \$1.80.

EGGS FOR INCUBATORS.—Write us for prices, stating the number of eggs you will want and breed. Will quote you very lowest prices.

BREEDING STOCK.—A few choice cockerels and pullets at reasonable prices. Order early as our stock is limited. We send out only choice stock which will please our customers. Write for a price list.

SUCCESSFUL GRAIN SPROUTER

For sprouting oats or other grain for poultry. Made entirely of galvanized steel in sections as shown in illustration. Each section holds two trays for grain. Sections are interchangeable and sprouter may be enlarged by additional sections as needed. Five sizes.

No. 1—Base and 1 Section, wt. 50 lbs.—2 trays, Price holds 8-10 qts. dry grain (30 to 60 hens)..... \$ 7.00

No. 2—Base and 2 Sections, wt. 70 lbs.—4 trays, holds 16-20 qts. dry grain (75 to 100 hens).... 9.00

No. 3—Base and 3 Sections, wt. 85 lbs.—6 trays, holds 24-30 qts. dry grain (130 to 200 hens).... 10.75

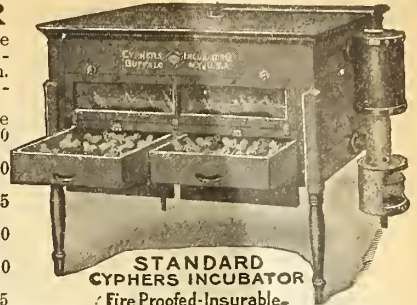
No. 4—Base and 4 Sections, wt. 100 lbs.—8 trays, holds 32-36 qts. dry grain (250 to 300 hens).... 13.50

No. 5—Base and 5 Sections, wt. 115 lbs.—10 trays, holds 40-50 qts. dry grain (400 to 600 hens).... 16.00

Each additional Section and 2 galvanized all-steel trays, wt. 20 lbs..... 2.75



SUCCESSFUL GRAIN SPROUTER



STANDARD CYPHERS INCUBATOR

Fire Proofed—Insurable

CYPHERS STANDARD INCUBATOR

After experimenting with a number of incubators, we have chosen the Cypher's Standard for our offering. It always gives the best of satisfaction, is the easiest to operate, requires the least amount of oil, capacity considered, and will hatch a larger per cent than any other machine we have ever tried, including more than twenty of the leading machines. Nos. 0 and 1 do not have nursery shown in illustration.

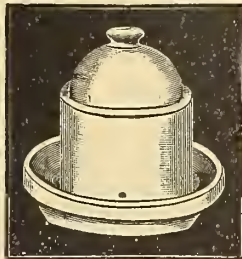
No. 0, 70 egg...\$16.00 No. 1, 144 egg...\$22.00

No. 2, 244 egg...\$32.00

Ask for price on larger sizes.

INCUBATOR THERMOMETERS.—We have the best manufactured. All tested and accurate.

SANITARY DETACHABLE FOUNTAIN.—Made of stoneware; the chicks can drink all around. Is easily cleaned. Can ship by frt. or exp. only. One-quart 30c, doz. \$3.00; 2-qt. 40c, doz. \$4.00; gal. 50c, doz. \$5.00; 2-gal. 75c, doz. \$7.50.



SANITARY FOUNTAIN

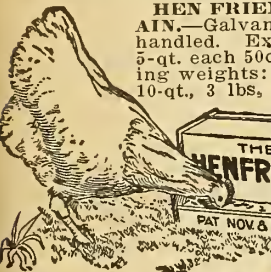
No. 751.—Straight; upright; reads upward. Ea. 55c, postpaid.

No. 756.—Reads almost horizontally, but is liked by many as it lies in the machine without danger of breakage from agitation. Each 65c, postpaid.

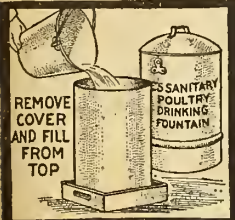
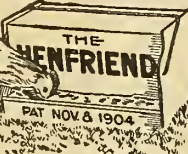
CYPHER'S PORTABLE HOVER.—You can set the portable hover any place—colony house, laying house, barn or dwelling. Self regulating with zinc and steel thermostat. Moved at will without disturbing lamp. Make a pen of boards or wire netting around it and you have a perfect brooder. Capacity, 75 to 100 newly hatched chicks. Complete with thermometer, price each \$10.00.



PORTABLE HOVER



HEN FRIEND DRINKING FOUNTAIN.—Galvanized iron. Is easily handled. Exp., 2-qt. size each 30c; 5-qt. each 50c; 10-qt. each 75c. Mailing weights: 2-qt., 1 lb.; 5-qt., 2 lbs.; 10-qt., 3 lbs.



TGP FILL FOUNTAIN

MOE'S TOP FILL FOUNTAIN.—Won't stop over. Dead air space keeps water cool in summer, warm in winter. Simple in construction. Remove cover and fill from top. Water ceases to flow when cover is removed. By express, 1-gal. \$1.00; 2-gal. \$1.50; 4-gal. \$2.00. Mailing weights: 1-gal. 3 lbs.; 2-gal. 5 lbs.; 4-gal. 10 lbs.



GRIT AND SHELL BOX

MOE'S GRIT AND SHELL BOX.—Has three compartments for grit, shell and charcoal; galvanized iron. Can be used as feed hopper for small chicks; 1/2 pk. By exp. 50c. Wt. 4 lbs.



SANITARY FEED TROUGH

TO SNAP ON A MASON JAR.

STAR FOUNTAIN

galvanized iron. By express, No. 21, 12 in. long, each 30c; No. 22, 18 in., 50c; No. 23, 24 in., 75c. Mailing weights: No. 21, 1 lb.; No. 22, 2 lbs.; No. 23, 4 lbs.

STAR FOUNTAIN.—Made for Mason jar, like Northwestern, but instead of being round it is star-shaped. This is an advantage, as not so much water is exposed, and the chicks or fowls can not pollute it while drinking. Each 20c, postpaid. By exp., per dozen \$1.20.

NORWICH EXERCISER - FEEDER

No. 1—8-qt. hopper; wt. 12 lbs. \$1.00

No. 2—14-qt. hopper; wt. 15 lbs. 1.50

No. 3—20-qt. hopper; wt. 20 lbs. 2.00

No. 4—32-qt. hopper; wt. 30 lbs. 3.00

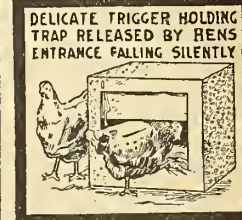
NORTHWESTERN AUTOMATIC FEEDER AND FOUNTAIN.—Metal pan in the center of which can be fastened a Mason fruit jar. Fill the jar with feed or water as desired, screw on pan and turn jar upside down, and the contents flow automatically into the pan as needed. We sell pans only, as everyone has Mason jars. Pans 5-in. diam., ea. 20c, postpaid; 6-in., 20c, postpaid.



DRY FEED HOPPER

MOE'S DRY FOOD HOPPER.—As shown by illustration, this hopper is devised to permit fowls access to the feed without scattering or wasting. Two sizes, No. 35 85c; No. 36, \$1.25. Mailing weights: No. 35, 3 lbs.; No. 36, 5 lbs.

MOE'S TRAP NEST.—Made of galvanized iron in two sizes. Principle shown in cut. Price, No. 33, for Mediterranean breeds, size 12x12x12, each \$1.00; No. 34, for larger breeds, size 12x12x14, each \$1.25. Mailing wts.: No. 33, 5 lbs.; No. 34, 6 lbs. Fronts only, for fastening to ordinary nest boxes, ea. 35c.

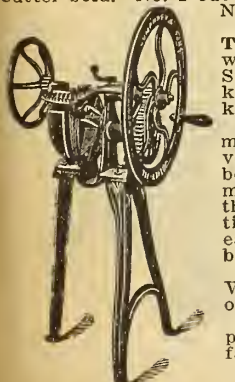


TRAP NESTS

MOE'S SANITARY FEED TROUGH.—Can be used for feed, mash or water. Barred top prevents waste. Made of

BONE CUTTERS AND MILLS

HUMPHREY'S GREEN BONE AND VEGETABLE CUTTER.—One of the leading bone cutters. Be sure and investigate this before you purchase. Manufacturer's guarantee with each cutter sold. No. 1 cutter, \$13.50; No. 2 1/2, semi-power, \$16.50; No. 2, all-power cutters, each \$15.00.



HUMPHREY'S BONE CUTTER

HUMPHREY'S RAPID CLOVER CUTTER.—For cutting clover, alfalfa, etc., which are essential foods for poultry. Strong and durable, with five cutting knives and double-edge stationary knife which is reversible. Each \$12.00.

WANN BONE CUTTERS.—A standard machine which we are able to offer at a very low price owing to contracts made before metal prices advanced. Automatic feed and when bones are put in they are kept constantly against cutting knives. No. 1 cutter with stand, each \$12.00; No. 2, without stand (for bench or table), each \$8.00.

CROWN BONE CUTTERS.—No. 1.—Weighs 50 lbs.; is to be bolted to bench or table for operation. Each \$7.00.

No. 2.—Same as above, but has a tripod metal stand upon which cutter is fastened. Weighs 80 lbs. Each \$8.50.

MODEL GRINDING MILL.—To grind shell, grit, bone, and grains. Easily adjusted to grind coarse or fine as desired. No. 1, each \$2.50. No. 2, each \$5.00.

Our Talking Pet



PARROTS

GUARANTEED TALKERS

A bird that talks has a wonderful charm. Below we offer young, tame, hand raised parrots guaranteed to learn to talk within six months. Living arrival guaranteed to any express office in U. S. located on a railroad. Birds ready to ship in early summer. Order early.

CUBAN PARROTS.—Medium size, and make nice talkers. Usually in stock from June to September. \$5.50 each.

ROYAL AZTEC DOUBLE YELLOW HEADS.—Our very finest talking strain, unsurpassed as imitators of the human voice. They are superior to all other American parrots and make most fluent talkers. Price \$15.00 during summer but usually higher after Aug. 15.

MEXICAN DOUBLE YELLOW HEADS.—Good birds guaranteed as above and second only to the Royal Aztecs. Price \$9.75 during the summer.

MEXICAN RED HEAD PARROTS.—Medium size, make nice talkers and great pets. Young birds ready in June. Price \$5.00 each during June and July.

PANAMA PARROTS.—Large, green parrots, very fluent talking species. Usually in stock entire year. Price, \$15.00 each.

CARTHAGENA.—Guaranteed as above. Each \$12.50.

TRAINED PARROTS.—We buy and sell educated parrots. Ask about them.

BIRDS

"Little Dewdrops of Celestial Melody."

The companionship of a bird has brightened the life of many a tired, over-worked mother on whom the daily cares and burdens rested heavily. The music of a good singer makes the whole house more cheerful and every member of the family enjoys the pure, clear notes of a happy little song bird. The superior quality of our imported canaries will please the most critical. We handle thousands of birds annually and have the largest mail order business in America. Ask for complete illustrated catalogue. We ship to all parts of the United States and guarantee live arrival to any express office which is a railroad station. Express charges are to be paid by purchaser on all goods on this page except where stated. Descriptive catalog free.

HARTZ MOUNTAIN CANARIES.—These birds are bred in Germany, high up among the Hartz mountains, and are famous for their clear, pure, beautiful song, which is a restful melody. Because their voice is just as nature gave it—unchanged by any training—we call them Nature's Solo Singer, to distinguish them from the trained bird below. These are the finest singers ever offered at this price. Male birds, guaranteed good singers, each \$4.50.



HARTZ MOUNTAIN CANARY. These are the finest singers ever offered at this price. Each \$4.50.

ST. ANDREASBERG JUBILEE ROLLERS.—These birds are trained singers imported from Germany. Their tones are sweet, round and full, consisting of delightful bell notes, low water bubble, charming flute notes and long, silvery trills. Their most restful music continually surprises by its many changes. Male birds, guaranteed good singers. Each \$8.00. In stock November to April.

FEMALE CANARIES.—Hartz females Each \$8.00. In stock November to April. \$1.50 and \$2.00 each. Roller females \$3.00 each. Order between September 1st and April 15th.

OTHER BIRDS.—Following usually in stock from October to April.

Goldfinches, males \$4.50 each
Linnets, males 3.50 each
Bullfinch, males 5.00 each

Following usually in stock at all times:

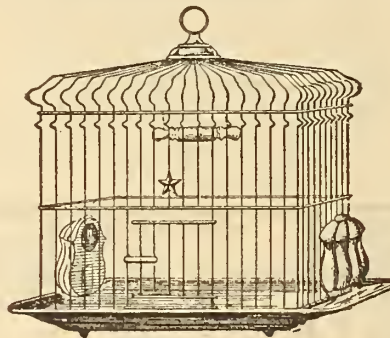
Brazilian Cardinal, males... \$5.00 each
Java Sparrows, white..... 7.50 pair
Java Sparrows, gray..... 4.50 pair
Australian Shell Paroquets... 7.50 pair
Royal Scarlet Macaws..... 25.00 each
Sulphur Crest Cockatoos.... 15.00 each
Rose Breasted Cockatoos.... 10.00 each

Any bird not in stock will be obtained for you when possible. Write for what you want. Ask for Bird Catalogue free.

ROUND PARROT CAGES.—Tinned wire, durable, and very satisfactory. 13 inches in diameter, \$2.75; 14-inch \$3.50; 16-inch \$4.20; 18-inch \$6.25.

WIRE NESTS.—10c each. Postage on one to three nests 4c extra.

TOY BELLS.—For birds, 7c, postpaid.
PARROT BELLS.—Each 12c, postpaid.



IMPROVED BRASS CAGE

IMPROVED BRASS CAGES.—(Like cut.)—6x9 \$1.90; 7 3/4 x 10 1/4 \$3.25; 8 3/4 x 11 1/4 \$4.00.

IDEAL BRASS CAGE.—Like cut but has brass screen around lower part. Size 6x9 \$3.25; 7 1/2 x 10 1/2 \$4.25.

BREEDING CAGES.—Wood frame. Single compartment: 17 in. long \$1.75; 19 in. \$2.25. Double: 19 in. \$2.75; 21 in. \$3.25.

PARROT BOOK.—Paper cover, 25c. "Canary Breeding and Training," 25c. "Feathered Pets," 25c.

BIRD SEED

But few persons are aware how much a bird's health, and consequently its song, depends upon feeding strictly fresh seed properly mixed and of good quality. As you value the life of your bird, feed only our fresh seed.

SUPERIOR MIXED BIRD SEED.—Per lb. 15c; 2 lbs. 25c.

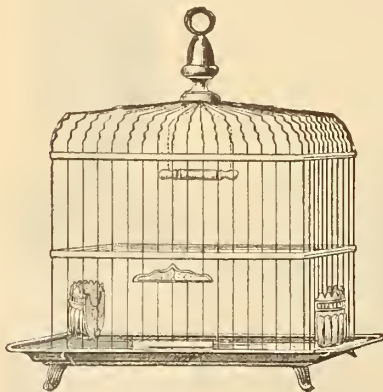
GERMAN SUMMER RAPE.—Fed very largely to trained canaries. Price 15c per lb.; 8 lbs. \$1.00.

SICILY CANARY.—Price 20c per lb.
MAMMOTH RUSSIAN SUNFLOWER.—Price 15c per lb., 2 lbs. for 25c, 9 lbs. for \$1.00.

MIXED PARROT SEED.—Same price.
PARROT Dainties.—Per pkg. 25c.

BIRD HEALTH.—A preparation of our own which will keep birds in good condition at all times. It relieves colds and cures obscure ailments after other remedies fail. Restores the voice and invigorates the system. Price per 2 oz. box 15c, postpaid. Four boxes for 50c.

CUTTLE BONE.—8c each, postpaid.
PREPARED MOCKING BIRD FOOD.—Best food on the market for all soft billed birds. Can 35c., wt. about 2 lbs.



JAPANED OR PAINTED CAGE.—Best cage on the market for the money. It is neat, durable and convenient.

Table with 4 columns: No., Size, Wt., Price. Rows include 165H, 167H, and 168H with dimensions and prices.



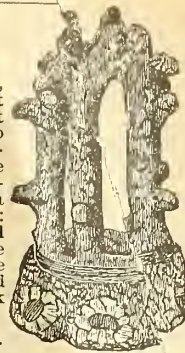
CLIMAX CANARY CAGE

Very popular style. Neatly japanned, has screen to prevent scattering of the seed. Diameter 11 inches, total height 17 1/2 inches. Shipping weight 6 lbs. Price, by express, each \$2.50.

GOLDFISH

BEAUTIFUL; EASY TO KEEP; WE TELL YOU HOW.

Did you ever own a globe of Goldfish? You admire them, no doubt, for their pretty form, exquisite coloring and graceful movements, but if you have never kept fish, you cannot realize how your interest grows as you become more familiar with them. They are not hard to keep; just follow our plain printed directions sent free with each Goldfish order and you can hardly fail to succeed. Goldfish are kept quite generally in city and town and there seems no reason why our customers in the country should not share just as fully in the pleasure a nice aquarium affords. Be the first in your locality to get an outfit; you will find all the neighbors interested and their admiration will add to your enjoyment of the fish. We ship Goldfish any time of the year, but buy early in the season while it is still cool weather because this is favorable for the fish. All items in this department are shipped at customer's expense for transportation unless otherwise stated. Ask for free Aquaria Catalogue.



AQUARIA CASTLE



GLASS FISH GLOBE

GOLD FISH.—While there are many varieties of gold fish as named and described in this list, we refer only to the plain variety by this name. These are more popular than the fancy sorts, being low priced and generally satisfactory. They are a species of carp, originally inhabiting ponds and sluggish streams in China, and they are better adapted to life in fish globes than any other breed of fish. They are universal favorites, of golden red color. Those bred in this state seem to have a peculiar brilliancy of coloring which is especially noticeable when in the fish globes. Prices, 10c, 15c, 25c, 35c, 50c and \$1.00 each, according to size. The 25c size (5 for \$1.00) is the most popular. The largest size is only suitable for ponds or fountains.

SILVER FISH.—This is simply an uncolored gold fish of dark silvery color. Nice for variety. Medium size 10c each; 6 for 50c.

PEARL FISH.—These elegant fish are either of a clear pearly white color or white is variegated with gold markings. Medium size 25c; 6 for \$1.00.

AMERICAN FANTAIL FISH.—Are bred from the imported Japanese fish and are very handsome. Price, according to size, shape and color, 25c, 35c, 50c and 75c each.

ORIOLE FISH.—Are beautifully variegated golden red and clear black. Medium size 30c each.

AQUARIUM CASTLES.—Very pretty castle like cut in upper right corner. No. 12, 3 in. high, ea. 20c; parcel post 1 lb. No. 13, 4 in. high, ea. 30c; parcel post 2 lbs. No. 14, 6 in. high, ea. 45c; parcel post 3 lbs. No. 15, 8 in. high, ea. 75c; parcel post 3 lbs.

PREPARED FISH FOOD.—Good for all kinds of gold fish. This we import from Germany where they make the best quality and of the purest materials. Price 10c per box, postpaid.

GLASS FISH GLOBES.—These are neat, cheap and consequently more popular than the large aquariums. Like cut in upper left corner of page. Measurements are approximate.

1-qt.—5 in...\$.25 4-qt.—8 in...\$.70
2-qt.—6 in... .45 8-qt.—10 in... 1.15
12-qt.—11 in...\$1.70

COMET FISH.—Also called "Long-Tailed Beauties," and "Fancy Gold Fish." They are without doubt the most graceful in their movements of all aquaria fish. Medium size, 25c each; large 50c each. Extra choice colors and markings 75c to \$1.25.

JAPANESE FANTAIL FISH.—By far the most popular of all fancy fish and the most satisfactory of the imported varieties. The fins and tails are of delicate lace-like appearance. The tail is V-shape and frequently divided. They are beautifully variegated usually with golden red and pearly white or black. Choice specimens 50c each. Fancy 75c each. Extra fancy \$1.00 to \$3.00 each.

JAPANESE FRINGETAILED FISH.—These aristocratic fish are undoubtedly the most beautiful of all aquaria fish, having extremely long, drooping tail and fins. Choice specimens sell at \$10.00 to \$50.00 each. We can furnish select specimens at \$3.00 to \$5.00.

TELESCOPE FISH.—A very curious appearing fish which always attracts attention from its "extreme ugliness." Its eyes are abnormally large and bulging. Price \$1.00 to \$1.50. Black Telescopes, which are quite rare, \$3.00 each.

SHIPPING BUCKETS.—Unless you order fish globe with fish it will be necessary to ship them in a can or bucket. For this purpose we offer 3-quart tin buckets suitable for holding 6 medium sized fishes or less at 20c each, 4-quart at 25c, 6-quart, will hold 12 medium sized fishes, at 35c each.

STANDING FISH GLOBES.—These are raised up on a glass base and are handsomer than the ordinary fish globe. Holds About Ea. Holds About Ea.
1/2 gallon.....\$1.00 2 gallons....\$2.25
1 gallon..... 1.25 3 gallons.... 3.00

AQUARIA BOOK.—Illustrates and describes all best kinds of fancy fish. How to breed and care for gold fish, etc.; 64 pages; 15c; cloth bound, 50c, postpaid.

AQUARIUM PLANTS.—See page 112.

WHITE SAND.—Absolutely clean. Is very beautiful for aquariums. Price per pkg. (about 2 lbs.) 10c.

DIP NETS.—For handling fish without danger of injuring them. Medium size, 25c, postpaid.



THE PARLOR AQUARIUM.

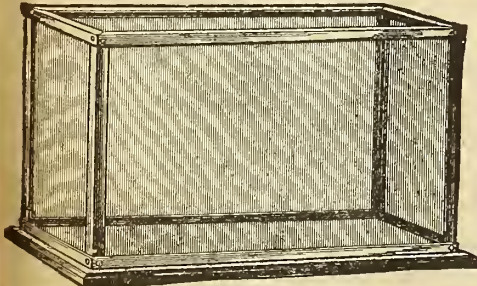
This is such a pretty and unusual design that it is very popular and a great seller. Its entire height is about 10 3/4 inches. Bowl is 5 inches deep and 12 inches in diameter. The wide open top allows freest access of air for the fish and gives best opportunity for arranging plants or ornaments, all of which are visible to best advantage. Globe with aluminum stand \$3.50, or with plants and four fish to stock it, all for \$5.00. Same aquarium with neat black iron stand, 50c less.

HOME COLLECTION

Consists of one 4-quart Globe, three pretty Fish, Plant, Shells, and Food. Weight, packed for shipment, about 13 pounds. Price \$1.35.

PARLOR COLLECTION

Consists of one 8-quart Globe, five Fancy Fish, Food, Plant, Shells. Shipping weight about 20 pounds. Price of Collection, \$2.00.



STANDARD AQUARIUM.—Very strong iron frame, thick slate bottom. Our best line. No. 1, size 18x10x11, holds 5 gal.....\$ 7.00
No. 3, size 22x14x13, holds 12 gal..... 10.00
Dimensions are outside measure. Larger sizes quoted on request.

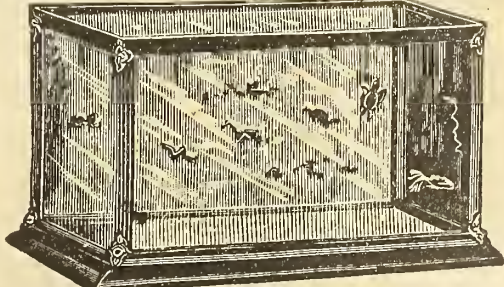
BOOKS ON FISH

THE AQUARIA.—Listed above. Best popular low-priced treatise on Goldfish. By C. N. Page. Price, paper cover, 15c; cloth bound, 50c.

GOLDFISH.—A large work by Hugo Mullert. Very comprehensive and interesting. Price, \$2.00, postpaid.

GOLDFISH BREEDS.—An up-to-date work endorsed by scientists and specialists in this line. It contains 280 illustrations, has 390 pages and is well bound. Price, \$3.00, postpaid.

CEMENT.—Invincible waterproof cement, to set glass in aquarium. Lb. 25c.



BOSS AQUARIUM.—Best low-priced aquarium on the market. No. 10, size 15x 9x10, holds 3 gallons.....\$3.00
No. 11, size 18x11x12, holds 6 gallons..... 4.00
No. 12, size 21x13x14, holds 9 gallons..... 5.00
Dimensions outside measure.

A GLOBE OF GOLDFISH AMONG THE HOUSE PLANTS ADDS CHEERFULNESS TO THE HOME AND INTERESTS THE CHILDREN.

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Collards	3	Sunflower	50	Lobelia	65	Camelia Vine	103	Nasturtium	109		Full Value Roses	98
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Corn, Pop	13	Timothy	55	Maize, striped	70	Canna	76	Oleander	95		Am. Beauty Roses	99
Corn, Sweet	12, 13	Tree Seeds	45	Marvel of Peru	63	Canterbury Bells	107	Orange Lily	79		Favorite Hardy Ro	100
Corn Salad	3	Veg't'l Farm Crops	50	Marvel Aster Collection—Back Cover		Carnation	85	Orange Tree	95		Climbing Hardy Ro	101
Cress	3			Maurandia	74	Centaura	87	Ornithagalum	81		Rainbow Rambler	101
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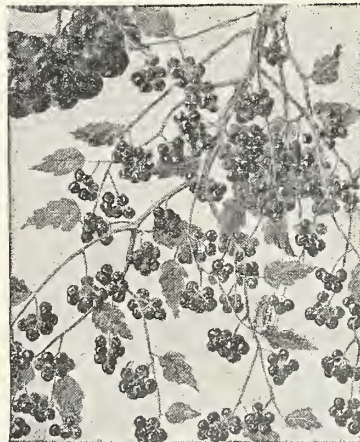
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Vine Peach A splendid novelty introduced by us. The vine on which they are borne is somewhat similar to the musk melon vine, and requires the same cultivation. The fruit is about the size of a large peach, oval shaped, and is of a bright orange yellow color, somewhat russety. For sweet pickles, pies or preserving they are superb. A jar of these cut in halves and cooked in syrup presents a beautiful and tempting appearance. Recipes for preparing for the table will be sent with each order. Where fruit is scarce, they are popular, as they are easily cultivated, wonderfully prolific, and can be used in every culinary way in which you would use a peach; not usually liked raw. Per packet 5c; oz. 25c; ¼ lb. 75c.



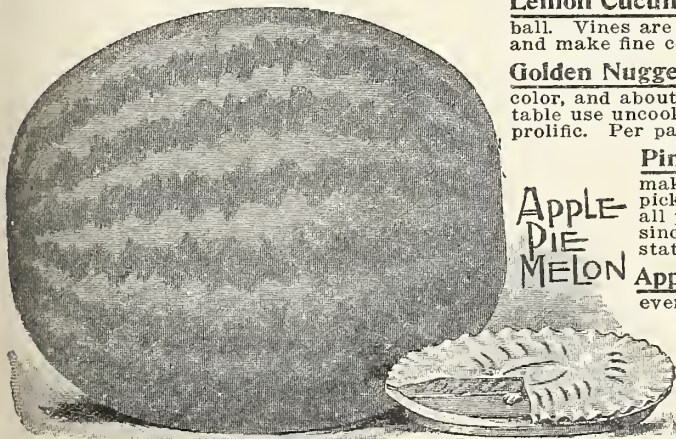
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