

1902

32ND

ANNUAL CATALOGUE

IOWA SEED CO.

DES MOINES

IOWA, U.S.A.

SEEDSMEN
TO THE
AMERICAN
PEOPLE

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ONLY ONE
THE BEST
QUALITY

1902 ROSE COLLECTION.

SEE ILLUSTRATION ON FRONT COVER.

These five varieties we may well call the cream of the list and every one should have at least one, price only 50 cents.

AND'S FAVORITE. (See illustration No. 1 on cover.)—When traveling in northern Iowa last summer we were greatly impressed with this new rose. It is a very hardy, rapid growing variety, the plants being well laden with flowers as shown by the branch in upper cover of this catalogue. The color of the flower is decidedly unique, a beautiful golden yellow, shading to the center to a decided copper color or reddish making a most rich combination of colors. It is a climbing tea rose of delightful fragrance as well as lovely color and combines so many good points that we are sure that every one of roses will want several of them. We cannot say too much in its favor. Price 20 cents.

HALLOWE'EN. (No. 2)—This charming new variety might well be called a striped Meteor Rose as it is of the same fine large size and perfect form as the Meteor, while the dark rich crimson color of each petal is freely and distinctly striped pure white and pink. The flowers are very double and bloom in endless profusion both in summer and winter. It is quite hardy and lives over winter in the open ground with but slight protection. This is the only distinctly striped ever blooming rose that we know of. It is a great beauty, has sweet fragrance and creates a sensation wherever seen. Price 15 cents.

EMILIE GONIN. (No. 3).—There was no rose at our place this year which attracted more attention than this grand new variety. It has a large sized tulip shaped flower, is exquisitely formed, perfectly double, of beautiful fragrance and of most charming variegated colors. The body color of the rose is creamy white tinted with orange yellow at the base of petals, while the tips of the petals are reflected and broadly margined with bright carmine crimson. It is a profuse bloomer and strong healthy grower; seems impervious to all diseases, and should soon become prominent both as a pot plant and for bedding. Price 20 cents each.

SNOW FLAKE. (No. 4).—This lovely white tea rose is the freest flowering white rose we have ever seen and for a pot plant it cannot be excelled. On one plant 143 flowers and buds were counted in a single day and the plant was only nine months old. Everyone should have one of these elegant free blooming roses as there is no white rose which is superior to it. Price 15 cents.

JUBILEE ROSE. (No. 5).—During the past three years this has been the most prominent crimson hardy perpetual rose on the market. The only trouble has been to propagate sufficient to supply the demand. It is perfectly hardy and therefore a desirable variety for outdoor planting in all locations. It blooms during the fall as well as in the early summer, is of vigorous growth with large dark green foliage, short jointed, long flower stems and branches freely. It blooms abundantly three flowers or more to each shoot, and is of ideal habit for a hardy garden rose. The flowers are of large size reaching six inches across under good cultivation, and still of such grace and finish that they are truly exquisite for wearing. The buds are long and rounded in the depths of the petals unapproached by any other rose. Fragrance is strong, and in all points we are free to say that we know of no other rose equal to it. Price 15 cents.

The entire Collection of Five unequalled Roses for 50 cents.

ABOUT OURSELVES.

ALMOST every one in Iowa who uses seeds knows the Iowa Seed Company and our Choice Iowa Seeds are sown in every neighborhood in the state, but as this catalogue goes to many in all parts of the world who have not dealt with us, a few words about our business may help us to become better acquainted. This business was established in 1871—thirty-one years ago—and it has grown until now it occupies a very prominent place in the seed trade of the country.

The business has been under the same management for many years past, the present manager having been connected with the company for 25 years. During all this time we have been constantly in close touch with the farmers and gardeners and know what will prove the most satisfactory in the various localities. Success in the seed trade depends almost entirely on the confidence of the people, and our customers have learned that they can rely implicitly on us. What more can you ask? Please give us a trial order this year and test the superior merits of our Choice Iowa Seeds.

READ WHAT PROMINENT MEN SAY.

They are a proof of merit. Such testimonials cannot be bought. "I have bought seeds of you for several years past and have found them very satisfactory. I have used them on my own farm and also sold them to others and have had no complaints. Have also purchased some from other firms, but could not depend on them as on yours."—R. J. Johnson, Humboldt, Iowa, President Iowa State Agricultural Society.

"I am pleased to state that all seeds, both garden and field, that I have bought of your firm during the past twelve years have been perfectly satisfactory, and I am always pleased to recommend the Iowa Seed Company to any and all who are in need of anything in their line."—M. J. Wragg, Waukegan, Iowa, President Iowa Horticultural Society.

MAIL ORDER BUILDING.

Our trade has increased so constantly that in 1900 we were compelled to look for larger quarters and we purchased the ground at 208, 210, 212, South Eighth St., about six blocks from the store and erected thereon a large building specially arranged to accommodate our rapidly growing trade. The railway tracks beside the building give us unexcelled facilities for handling carload lots, and we are centrally located between the various freight depots, so that small shipments can be made promptly. Our machinery is operated by four electric motors, and we claim that our mills for cleaning seeds cannot be surpassed. We can readily fill 3,000 to 4,000 orders per day, in this building, and they are handled in such a careful way that errors seldom occur. Most of our employees have been with us many years and appreciate the importance of each order, no matter whether small or large and no "green hands" are permitted to handle seeds in bulk.



MAIL ORDER BUILDING.



OUR RETAIL STORE—44x133 Feet

OUR STORE.

The Iowa Seed Store is so well known in Des Moines that it would be difficult to find even a child in this city of 75,000 inhabitants who does not know its location. It occupies the large building at 613-615 Locust Street, within three or four blocks of the post office, express offices, and principal railroad passenger stations. The large store room is full of interest to everyone who has a farm or garden, or who loves flowers, and the bird and goldfish department always interest the children. Here are also located the offices and correspondence department. Here also we are glad to meet our customers from other towns.

OUR TELEPHONES.

Store and Office	Iowa Phone	No. 600.
	Mutual Phone	No. 789.
Mail Order Dept.	"	No. 889.—2 rings.
Warehouse,	"	No. 889.—1 ring.
Greenhouses,	"	No. 793.—3 rings.
Managers Residence	"	No. 736.

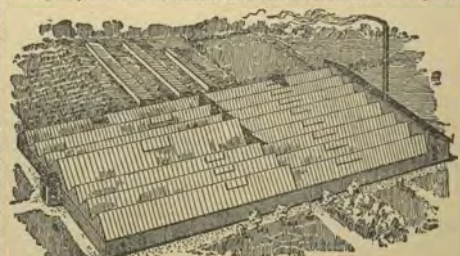
"All the seeds I purchased from you have given excellent satisfaction. The seed of Bromus Inermis grass came up nicely and furnished fine pasture, my cattle seemed to like this grass better than any other grass I had in my pasture. The severe drought this summer did not seem to hurt the bromus any, it remained nice and green in spite of the intense heat."—August Becker, L.—P.—Iowa.

FOREIGN ORDERS.

Our trade with European countries, Australia, New Zealand, South Africa, the West Indies and other foreign countries, is increasing constantly, and while it is still somewhat expensive and slow to send large shipments by freight, small lots can be sent by mail quite easily. We are willing to prepay the postage on all vegetable and flower seeds offered by the packet or ounce, at the prices named in this catalogue, to Canada, Mexico, all parts of Europe, and all countries of the Postal Union. Not more than 12 ounces can be sent in each package.

OUR GREENHOUSES.

About three and one-half miles west of the store, located on West Grand Avenue, are fifteen large green houses, built, owned and operated by the Iowa Seed Company. These houses are devoted exclusively to growing plants for the mail order trade, and they contain a greater variety of plants than any other greenhouse in the west. Many hundred plant orders are filled daily during the busy season, all small plant orders being mailed direct from the branch postoffice nearby.



OUR GREENHOUSES AT WALNUT HILL.



1871

1902

Thirty one Years Successful Business!

DES MOINES, IOWA, January, 1902

TO OUR CUSTOMERS :

In starting on the new year's business we desire first of all to extend a warm greeting to each one of our patrons and we wish each of you a "Happy New Year." The past season our trade has been larger than ever before and the liberal patronage which has been given us in the past, has been the means of enabling us to extend our business greatly. By adding to our warehouses, greenhouses and farms we now have improved facilities for growing, drying and cleaning seeds, filling and shipping orders from each department, so that we now claim to fill more retail orders than any other firm in the entire west. There must be some good reason for this and it lies in the fact that our CHOICE IOWA SEEDS are unsurpassed, that our prices are right and that we please and satisfy our customers.

We are now even more determined than ever before to give each of our customers such complete satisfaction that we shall secure their entire trade and retain it from year to year. In almost every neighborhood in America our seeds are known and used and our highest ambition is to deserve the title which has been applied to us, namely:

"SEEDSMEN TO THE AMERICAN PEOPLE."

The gardening public and farmers everywhere are requested to thoroughly examine all parts of this book, which we have thoroughly revised and

Kind Words from Old Friends

Very few Seed Dealers
can Equal this Record.

31 YEARS.—I have bought seeds every year from your company since 1871, when Mr. Fuller started the business at Des Moines; have always found your seeds good.—W. S. Maxwell, Lawndale, Texas.

26 YEARS.—I have been a customer of the Iowa Seed Co. since 1875 and always intend to be so long as they prove as satisfactory as in the past. Both they and their seeds are reliable.—J. C. Jessup, Fairmount, Indiana.

29 YEARS.—This is my 29th year getting seeds from your firm and they are all O. K. We are back in "Peerless Old Iowa," again after four years in California and eight years in Arkansas.—Bryant Graves, Lenox, Iowa.

rewritten this year and tried to make of practical value to everyone. Notice the many new and improved varieties which we are offering this year and instead of devoting your entire crop to the old sorts we are sure that it will pay you to add both to the quality and yield by planting the newer kinds that we recommend.

WE GROW OUR OWN SEEDS, either on our own place or have them grown from carefully selected stock seeds and it requires the entire seed crop from about 4,800 acres to supply our trade. The soil and climate of Iowa are specially adapted to growing and maturing most seed crops, still there are some varieties which will produce better seed in other localities and we spend a large part of the summer and fall in travelling around among our growers inspecting the growing crop. The manager of this company has also this year visited the farms of prominent seed growers in England, France, Holland, Germany, Denmark and other parts of Europe, searching for new or improved varieties which we could offer to our customers here. We found some very desirable items never before offered by any American seed dealer and they will be found described in the following pages.

Again thanking you for past favors, respectfully soliciting a continuance of your patronage and wishing you a happy and prosperous new year, we remain,

Your friends, **IOWA SEED COMPANY**

M. KURTZWEL, President.

CHAS. N. PAGE, Treasurer and Manager.



SUGGESTIONS TO CUSTOMERS.

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. 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 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. It is well to remember that express charges are usually very much higher on heavy goods, and you should order them sent by fast freight.

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 their safe arrival. Seeds sold by the peck or bushel, field seeds, potatoes, implements, and other heavy goods are sent by freight or express, purchaser paying charges.

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

DISCOUNTS.—ON ALL ORDERS FOR SEEDS IN PACKETS the purchaser may select twenty-five cents' worth extra for each one dollar sent us. This refers only to seeds in packets, not in bulk. Each year we put up thousands of packets of seeds for free distribution among our customers, by adding liberally of them to orders. We will allow you a discount of ten cents per pound on vegetable seeds, such as are listed as prepaid, if you are willing to have them sent by express or freight at your expense.

SMALL ORDERS.—If you only want a single packet, do not hesitate to send for it. We take as much pains to fill small orders promptly and correctly as we do large ones. Orders for Flower Plants and Nursery Stock, however, must amount to at least fifty cents.

PLANT ORDERS.—Orders for plants will be filled as early in 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.

WHAT WE GUARANTEE.—That all money sent us for seed shall reach us if sent by registered letter, P. O., 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.

WE ARE ALWAYS PLEASED TO RECEIVE SAMPLES OF ANY NEW, RARE OR SUPERIOR SEEDS YOU MAY SEND US FOR TRIAL

OUR RESPONSIBILITY.—As this book will probably go into the hands of many who are unacquainted with us, this question will naturally arise, and in answer to same we refer you, by permission to the Valley National Bank of this city, to the postmaster, or to any of the various express companies.

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 them 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. 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 find 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 for our Market Gardeners' Price List. This list for market gardeners is intended only for large buyers, and is exclusively for those who order vegetable seeds alone by weight or measure amounting to \$5.00 or over. Club orders which call for this amount of bulk seeds altogether are entitled to these prices.

PREPAID RAILROAD STATIONS.—Many of our farmer customers live at Prepaid 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 goods.

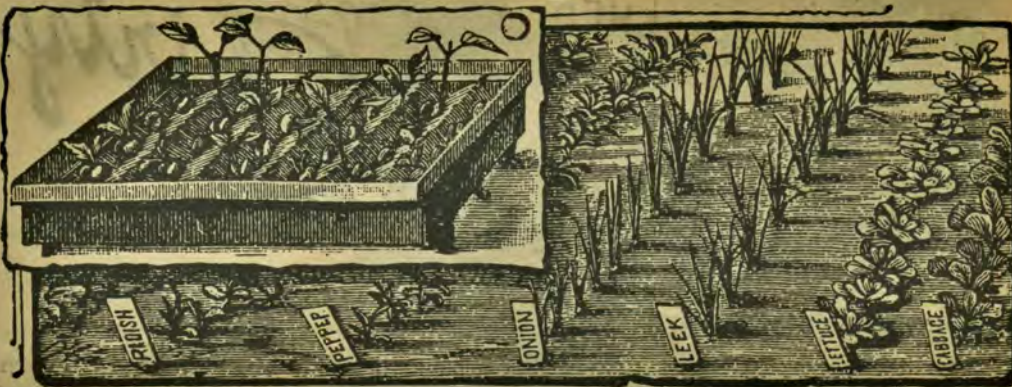
Our German Friends will be pleased to notice that we also issue a catalogue in the German language, and we will take pleasure in sending a copy free on request. Tell your German neighbors about it.

Unsere deutschen Freunden

Wir bitten hiermit zur Nachricht, daß wir auch Samen-Kataloge in deutscher Sprache drucken. Viele unserer Vorkunde haben den Vorzug und verdienen wir diese Kataloge frei an alle, die das zum anfragen. Bitte senden Sie uns die Adressen Ihrer deutschen Nachbarn, damit diese den besten deutschen Katalog in Amerika erhalten.

VEGETABLE SEEDS.

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 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 make it a rule to carefully test all seeds as soon as received in 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 are of the highest vitality, and the result is that we very rarely have complaints as our CHOICE IOWA SEEDS are sure to please.



SEED TESTING AND TRIALS.

NOVELTIES.—A choice list of the best novelties will be found described on the colored pages in the center of this book.

German Catalogue. Please ask for a copy of our German Seed Catalogue, if you can read that language more readily than English.

ASPARAGUS

One ounce will sow forty feet of drill.

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 an abundant supply for any ordinary family. Soak the seed 24 hours in tepid water; sow early in spring, in rows a foot apart; keep clean by frequent weeding and hoeing. Ask for circular giving instructions for making 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. It is more robust and vigorous in habit, and throws up larger shoots and fully as many of them 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 two inches in diameter, and, even when twelve inches long, are perfectly tender when cooked. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

CONOVER'S COLOSSAL.—The standard variety. Pkt. 5c, oz. 10c, ¼ lb. 15c, lb. 40c.

ASPARAGUS ROOTS.—We can furnish strong roots of either the Palmetto or Conover's Colossal at 35 cts. per dozen; \$1.25 per 100. Columbian Mammoth White 40 cts. per dozen; \$1.50 per hundred postpaid. Ask for price in quantity.



COLUMBIAN MAMMOTH WHITE ASPARAGUS.

ARTICHOKE

This vegetable is a great delicacy, highly valued in all parts of Europe, and also one of their most prominent table vegetable in California and other parts of this country. It is a perennial producing the large flower heads, which are the part eaten, the second season and every year thereafter. The young stalks are also sometimes tied and blanched like celery, but they are not equal to the flower heads. Cook like asparagus and serve with cream or butter sauce. Sow seed early in hot-beds or box in the house, and when weather becomes settled transplant in rows four feet apart and two feet in the row. When started early it sometimes blooms the first year.

LARGE GREEN GLOBE.—The best variety for general use; buds large; scales green; very thick and fleshy. Pkt. 5c; oz. 25c; ¼ lb. 90c.

ARTICHOKE ROOTS.—These are an entirely different plant from the above and used mainly for stock food. See description in Farm Seed Department. Per lb. 30c; 3 lbs. 75c. postpaid. By freight pk. 40c.; bu. \$1.25.



LARGE GREEN GLOBE ARTICHOKE.



EXTRA CURLED MOSBACH KALE.

BRUSSELS SPROUTS.

One ounce will produce about 3,000 plants.

Of the cabbage family, producing numerous heads on the stem of most delicious quality, as well as a cabbage-like head at the top. If you have never grown it, try it this year and you will be pleased. Use and cultivation same as winter cabbage. Pkts. contain about 800 seeds.

AMERICAN MAMMOTH.—A new and greatly superior variety of American growth which forms heads ready for picking about three weeks earlier than other varieties. It has the additional merit of making stronger plants and more heads. A profitable crop for market gardeners. Pkt. 10c, oz. 40c.

ENGLISH.—Pkt. 5c, oz. 15c.

CURLED CHERVIL.

An ounce will sow 100 feet of drill.

Leaves used in soups and salads. They have a pleasant aromatic taste which is greatly liked. Cultivate like parsley. Per pkt. 5c; oz. 20c.

BORECOLE, or KALE

One ounce will produce about 3,000 plants.

A hardier vegetable than cabbage; excellent for greens during winter and spring; splendid winter food for poultry. Is improved by frost. Cultivate same as cabbage. For winter, sow in September, and treat as Spinach, giving it a light covering of straw or litter to protect from severe cold.

EXTRA CURLED MOSBACH.—Fine crimped leaves; light green color; admirable for garnishing. Best for cooking. Pkt. 5c; oz. 10c; ¼ lb. 40c; lb. \$1.25.

DWARF GERMAN GREEN.—Popular. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 65c.

THOUSAND HEADED.—Grown mainly for forage. See description elsewhere. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c.

BROCCOLI.

One ounce will produce about 3,000 plants.

Growth and habit like the Cauliflower, except that it is more hardy, and the heads are not as compact. Cultivate the same as Cauliflower.

EARLY PURPLE CAPE.—A popular sort; heads well and is very hardy. Pkt. 5c; oz. 30c.

EARLY LARGE WHITE.—Pkt. 5c; oz. 30c.

CORN SALAD.

One ounce will sow about 20 square feet.

A nice winter salad. Sow in September in drills. Just before cold weather cover with straw or leaves. Per pkt. 5c; oz. 10c; ¼ lb. 30c.

BEANS==Dwarf Bush Varieties.

One quart will sow one hundred feet of drill.

Dwarf or Bush beans require no support, and should be planted in drills an inch and a half deep and drop the beans three inches apart in the drills. Beans are tender annuals, and cannot be planted until danger of frost is past. A sandy loam is the best. The half pint packages will be found very desirable for small families. We furnish pints at one-half the quart price. Packets contain about two oz. Price includes postage except at peck and half-peck rates. Deduct 15 cts. from quart rate if to be shipped by express.

EARLY PROLIFIC BROAD—See novelties. Per pkt. 10c, ½ pt. 20c, qt. 65c.

YARD LONG—See novelties. Pkt. 10c.

IMPROVED EARLY VALENTINE.

—About ten days earlier than the common Early Valentine. In addition to this it 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 35 days after planting. Pkt. 5c, ½ pt. 15c, qt. 45c; by express or freight ½ peck 75c, peck \$1.40.

HENDERSON'S BUSH LIMA.—Grows in compact bush form, producing enormous crop of delicious Lima beans at least two weeks earlier than any of the climbing Limas. Pkt. 5c, ½ pt. 15c, qt. 50c; by exp. ½ pk. 90c, pk. \$1.60.



IMPROVED VALENTINE.

WARDWELL'S KIDNEY WAX.—One of the earliest, hardiest and most productive of all Wax Beans. It is nearly a week earlier than the Golden Wax, and yields one-third more, and it is almost entirely free from rust and spots. The pods are long and showy, very tender, stringless, and of excellent quality. Pkt. 5c, ½ pt. 15c, qt. 50c; by exp. ½ pk. 90c, pk. \$1.60.

LONG YELLOW SIX WEEKS.—Very early and prolific; long, green, tender, flat pods; matures quickly. Pkt. 5c, ½ pt. 15c, qt. 35c; by exp. ½ pk. 65c, pk. \$1.25.

STRINGLESS GREEN POD BUSH.—The only stringless green pod bush bean in cultivation. Consequently it surpasses all others in crisp, tender flavor. The finely shaped, long, green pods are absolutely stringless, and are ready to market two weeks earlier than the Valentines. It is of immense value, not only to the market gardener but also to the amateur who seeks a rare quality early for the home table. Pkt. 5c, ½ pt. 15c, qt. 50c; by exp. ½ pk. \$1.00, pk. \$1.75.



WARDWELL'S

KIDNEY WAX BEAN

HARDEST AND MOST PRODUCTIVE.

and nearly always exempt from rust. Pkt. 5c, ½ pt. 15c, qt. 50c; by exp. ½ pk. \$1.00, pk. \$1.75.

BURPEE'S BUSH LIMA.—A dwarf or bush form of the true large Lima which is of great value. They grow 18 to 20 inches high. Immense yielder. Pkt. 5c, ½ pt. 15c, qt. 60c; by exp. ½ pk. \$1.00, pk. \$1.75.

LARGE WHITE MARROW.—Excellent as a shelled bean, cooks in twenty minutes. Pkt. 5c, ½ pt. 12c, qt. 35c; by exp. ½ pk. 65c, pk. \$1.40.

CALIFORNIA BRANCH or PROLIFIC TREE.—For field culture. Pkt. 5c, ½ pt. 12c, qt. 35c; by exp. ½ pk. 60c, pk. \$1.00.

POLE BEANS.

Plant from five to six seeds in each hill. about two inches deep. One quart will plant 100 to 150 hills.

OLD HOMESTEAD.—Enormously productive, the pods hanging in great clusters from top to bottom of pole. It is entirely stringless, and the pods are of a silvery green color, and cook tender and melting. Can be grown with corn to good advantage. Pkt. 5c, ½ pt. 15c, qt. 50c; by exp. ½ pk. 90c, pk. \$1.65.

LAZY WIFE'S.—This Pole Bean has become very popular. We presume it derived its name from its immense productiveness, and from the ease with which they are cooked. Pods are broad, thick, very fleshy and entirely stringless. Pkt. 5c, ½ pt. 15c, qt. 50c; by exp. ½ pk. \$1.10, pk. \$2.00.

GOLDEN CLUSTER WAX.—Pods are a beautiful golden yellow color and of large size, averaging from seven to eight inches long. and three-fourths of an inch in width. Pkt. 5c, ½ pt. 15c, qt. 50c; by exp. ½ pk. \$1.00, pk. \$1.75.

MAMMOTH HORTICULTURAL POLE.—Of the highest quality as a shell bean either green or dry. Pods very large, bright carmine lightly streaked, very handsome and exceedingly productive. Pkt. 5c, ½ pt. 20c, qt. 60c; by exp. ½ pk. \$1.25, pk. \$2.25.

KING OF THE GARDEN LIMA.—An improvement on Large White Lima. Per pkt. 5c, ½ pt. 15c, qt. 45c. By exp. ½ pk. \$1.10, pk. \$2.00.

SCARLET RUNNER.—Valuable for table use, or as an ornamental vine. Pkt. 5c, ½ pt. 20c, qt. 70c. By exp. ½ pk. \$1.25, pk. \$2.25.

CUT SHORTS.—The old fashioned corn-field bean. Per pkt. 5c, ½ pt. 15c, qt. 5 c. By exp. ½ pk. \$1.00; pk. \$1.75.

WHITE DUTCH CASE KNIFE.—Yields an immense crop of handsome flat white beans of excellent flavor. Cooks easily. Pkt. 5c, ½ pt. 15c, qt. 45c. By exp. ½ pk. 90c, pk. \$1.65.



EARLY REFUGEE, OR THOUSAND TO ONE.—Most prolific green podded sort, thick and fleshy. Pkt. 5c, ½ pt. 12c, qt. 35c; by exp. ½ pk. 75c, pk. \$1.40.

EARLY MOHAWK.—Very early and will stand more cold than most bush varieties. Pkt. 5c, ½ pt. 15c, qt. 40c; by exp. ½ pk. 75c, pk. \$1.40.

DAVIS WHITE WAX.—A new white, rustless, productive, wax-podded bean; pods flat, very long, white, straight and handsome; seeds clear white; excels all others in hardiness and productiveness. Valuable for market gardener's and canner's use. Pkt. 5c, ½ pt. 15c, qt. 50c; by exp. ½ pk. 90c, pk. \$1.60.

CHALLENGE BLACK WAX.—Earlier, more productive and of better quality than the old Black Wax. Pods tender, round, fleshy and stringless. Pkt. 5c, ½ pt. 15c, qt. 45c; by exp. ½ pk. 85c, pk. \$1.50.

IMPROVED GOLDEN WAX.—Great improvement on the old Golden Wax having larger pods and being much more prolific. Pods of dark, rich golden yellow color and of perfect shape. Pkt. 5c, ½ pt. 15c, qt. 45c; by exp. ½ pk. 75c, pk. \$1.40.

SCARLET FLAGOLET WAX.—The pods are often a foot in length, exceedingly succulent, stringless and tender. It is an enormously productive variety.



LAZY WIFE'S POLE BEAN



OLD HOMESTEAD BEANS

BEETS.

One ounce sows 50 feet of drill; 4 to 6 pounds for one acre.

For early, sow as soon as ground can be worked, and about the middle of May for general crop, in drills fifteen inches apart and one and a half inches deep. As the plants grow thin to six inches in drills. The young plants make excellent greens. The seed will germinate more freely if soaked in warm water twenty-four hours before sowing; but care should be taken not to plant soaked seed in very dry ground. The soil should be deep, rich loam.

EARLY CRIMSON GLOBE.—An extra choice table beet. See novelty list for description. Pkt. 10c, oz. 1 lb. 60c, lb. \$1.50.

CHOPER'S MARKET KING.—Fine new half long variety. See novelties. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25.

CROSBY'S IMPROVED EGYPTIAN.—We believe this to be the earliest variety in existence. It was originated by Josiah Crosby, a market gardener for the Boston market, and is a great improvement on the old Egyptian, being thicker, handsomer and more regular in shape, smooth, with very small tops and small tap root. It is of perfect shape when small thus making a good beet for bunching, and is very popular with the Des Moines market gardeners for this purpose. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

EDMAN'S BLOOD TURNIP.—One of the best varieties grown for main crop. While not a strictly first early beet, it follows very closely and is the most uniform of all turnip beets, with very small tops. The roots are handsome and 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; the flesh is also dark red and exceedingly sweet and tender. Our stock seed of this variety was obtained direct from Mr. Edman's and we are sure it will please every one who tries it. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

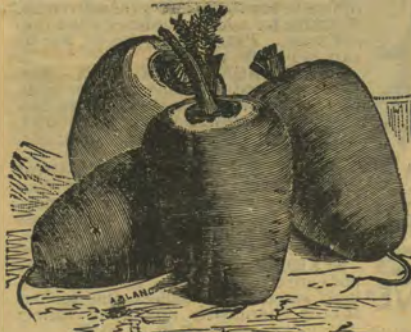
CROSBY'S IMPROVED EGYPTIAN.

ECLIPSE.—This variety has become exceedingly popular, and is one of the best early sorts. It possesses all the qualities requisite in a first-class beet, and is of a uniform, globular shape. The roots are of a bright glossy red, fine-grained and delicious, with none of that earthy flavor so objectionable in many varieties. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

DEWING'S IMPROVED BLOOD TURNIP.—An improvement on the old Early Blood Turnip. Globe-shape, deep blood-red color, fine flavor, a good keeper for main crop. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

SWISS CHARD, or SILVER BEET.—A distinct vegetable and much superior to the common beet for greens, which are produced remarkably soon after planting. Later the leaves grow very large, with broad, flat, beautifully white, wax-like stems and midribs, which may be cooked like asparagus. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

LONG DARK BLOOD.—Our stock of this standard variety is greatly improved, smooth, sweet and tender. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 45c.



OXHEART CARROT.

OXHEART.—We do not hesitate to call this the most valuable variety in existence. It is intermediate between the Half-Long and Horn varieties, attaining a diameter of 3 to 4 inches at the neck, of beautiful shape and rich orange color. Where other varieties require digging it is easily pulled. It will produce roots as early as any variety and continues of the best quality all the season. It is excellent for hogs and other live stock and has yielded 1,200 bus. per acre. Cut off tops with scythe and pull roots out with potato hooks. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

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 in texture, with little core. It is a first-class carrot for all soils. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 65c.

IMPROVED LONG ORANGE.—One of the most desirable for either garden or field culture. It grows to a large size, fair specimens averaging twelve inches in length, and three inches in diameter at the top. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

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. 20c, lb. 60c; by exp. 5 lbs. or more, 45c per lb.

VICTORIA.—Largest carrot grown, heaviest cropping and most nutritious variety in cultivation; roots remarkably fine, of light orange color, symmetrical, excellent quality, possessing high feeding properties; good keeping qualities; heavy cropper on all soils, especially adapted for rich land; grows half as much weight again per acre as ordinary varieties; grows well out of ground, easily harvested. All who have cattle should raise a quantity of these carrots for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color. Breeders of fine horses feed carrots to help keep them in perfect health and condition at all times. Per pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c. By express, five pounds or more 50c per pound.

CARROTS.

One ounce will sow 100 feet of drill; 3 to 4 pounds for one acre.

This is an indispensable root for the farm and is deserving of more general cultivation. Well managed, there is no crop pays better, and most farmers would find an acre or so desirable. Carrots form a nutritious, succulent food in the winter for cattle, horses, sheep and pigs. For early crop, sow in spring as soon as the ground can be worked, in drills fifteen inches apart, covering one-half inch; thin plants to three or four inches apart in the row. For field culture rows should be of sufficient distance to admit of the use of a horse cultivator; sow seed from the middle of April to the first of June. A light sandy loam, deeply tilled, is best, but as carrot seed is slow to germinate, extra precautions should be used to firm the soil after sowing. An average yield is 800 to 1,000 bushels per acre.

EARLY SCARLET HORN.—Favorite for early crop. Sold largely in New York markets bunched. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.



DANVERS HALF LONG



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 or stock raiser 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. Dairymen 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 of seed to an acre.



A MOST
VALUABLE
ACQUISITION

A NOVELTY
OF STERLING
MERIT.



Klein-Wanzleben
SUGAR BEET.



COLLECTION
—OF—
MANGELS.

One ounce each of the nine varieties of Mangels and Sugar Beets for 40c, ¼ lb. of each \$1.00, 1 lb. of each \$3.00, postpaid, or \$2.40 by express.



MAMMOTH GOLDEN GIANT.—An improvement on the long yellow mangel, being of considerably greater size, more than half above ground and of a more grayish or rather russet yellow color. Remarkably even in shape, rather elongated, of vigorous growth; it has a fine neck and a very smooth skin. Flesh white, firm and sweet, much liked by cattle. In short a magnificent root, easily lifted from the ground, producing enormous crops. Excellent keeper; yields 40 to 60 tons per acre. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c. By express, 5 lbs. \$1.50.

CHAMPION YELLOW GLOBE.—Finest type of 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. Well adapted to shallow soils. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 45c. By express, not prepaid, 5 lbs. \$1.50.

RED GLOBE.—Like the above except color. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c. By express, 5 lbs. \$1.50.

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 Golden Tankard is of a rich, deep yellow throughout. Early, hardy and a heavy cropper, for on account of its shape the roots can be left standing close in rows. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 45c. By express, not prepaid, 5 lbs. \$1.50.

KLEIN-WANZLEBEN.—Also called Diamond Sugar Beet. This variety is cultivated on a larger scale for the beet sugar factories than any other as it yields frequently 15 to 20 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 heavy per cent of sugar makes it also of great value for feeding. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c. By express, 5 lbs. \$1.50.

DIGNITY LONG RED.—An improvement on the Mammoth Long Red by careful selection for a number of years. It stands head and shoulders above all other varieties of mangels; unequaled 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 ordinarily good cultivation.

Thousands of western farmers have grown our Dignity mangel and call it the most profitable farm crop they ever tried. 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. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c. By express, not prepaid, 5 lbs. \$1.50.

GIANT HALF SUGAR MANGEL.—This new hybrid between the Mammoth Red Mangel and Sugar Beet is of superior merit. See novelty list. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c. By express 5 lbs. \$2.00.

DANISH SUGAR BEET.—An improved strain of the White French Red Top sugar beet which is wonderfully fine for feeding to milk cows and will add greatly to the milk production as well as to its richness. It will yield as much or more than any variety of mangels, and we consider it superior to any variety of sugar beet or mangel for feeding. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c; by express, 5 lbs. \$2.25.

LANE'S IMPERIAL SUGAR BEET.—An improvement on the White French Sugar Beet. Recommended as harder, more productive, yielding 35 to 40 tons per acre. It is much larger than the above varieties and will yield more but is not as sweet, containing only about 8 per cent of sugar. Greatly liked for stock feeding, and preferred by some to mangels. Pkt. 5c, oz. 10c, ¼ lb. 15c, lb. 40c; by express, 5 lbs. \$1.25.

A Dry Weather Crop.—In spite of the drouth I grew a Dignity Mangel this year which weighed 35 lbs., and they are the finest I ever raised.—Mrs. A. Hickman, Mecca, Mo.

L. C. Johnson says that he grew only half an acre of mangels last year and after selling \$20.00 worth to a neighboring dairyman he had sufficient left to feed four cows all winter.

It was too dry here this year to grow big beets, but one of mine weighed 19¼ lbs., and seven of them weighed 109 lbs.—W. H. Lee, Shickley, Neb.

\$10.00 PRIZE.

We will pay \$10.00 cash for the heaviest Mangel or Sugar Beet grown from our seed this year. Report to be sent in by October 15th.

Burpee's Allhead Early.



BURPEE'S ALL-HEAD EARLY.—At least a week earlier than any of the various strains of early summer cabbage, and fully one-third larger, of perfect shape and the most solid variety on the list. Originated with C. L. Allen, who has grown cabbage seed many years for us, but our competitor, Mr. Burpee, was fortunate in securing the entire stock of it the first year of its introduction, and gave it his name. However, we can most heartily recommend it to our customers. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 70c, lb. \$2.25.

HENDERSON'S EARLY SUMMER.—Ten or twelve days later than the Jersey Wakefield, but much larger in size and will stand on the ground much longer without bursting open. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

WINNINGSTADT.—Cone-shaped summer sort; when sown late it is good for fall and even winter; a sure header and good keeper. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

IMPROVED DANISH BALLHEAD OR HOLLANDER.—This variety has been selected and perfected for more than fifty years by the Danish gardeners. They prize it so highly that they grow it almost exclusively for winter cabbage, and annually export large quantities to London, Paris and other cities. It will stand long journeys and keep far into the spring, and is of most mild and rich taste. Heads round as a ball, of good size, solid and very fine grained. Has but few outer leaves, thus admitting of close planting. Medium size and hardest of all, tender and crisp with but little waste heart. Has pleased thousands of our customers. Per pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

FOTTLER'S IMPROVED BRUNSWICK.—Excellent for summer and fall use. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.75.

PERFECTION DRUMHEAD SAVOY.—The Savoy or curly cabbages are of much finer flavor and quality than the best of other kinds, and should be more generally cultivated. The variety we offer is the finest of the Savoy. Heads large, finely curled and an excellent keeper. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

LUXEMBERG HARD HEAD.—An excellent variety, which is in great favor on the Chicago market, and the seed frequently sells there at \$1.00 per ounce or more. It makes a medium size, very hard head of extraordinary weight. Owing to its remarkable keeping properties, and the fact that the head remains as green as when gathered in the fall, is king of all cabbage for late spring selling. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.55.

SUREHEAD.—Very reliable in heading, good shape and large size. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

CHASE'S EXCELSIOR.—Medium early and not excelled for sure, solid heading, which is the highest recommendation for a cabbage which must mature in the trying heat of summer. Another remarkable feature is that it never cracks. Very popular with our southern customers. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.75.

MARBLEHEAD MAMMOTH.—Largest of all; have in some instances grown to a weight of 90 pounds, and the heads of such size that they would not go into a two-bushel basket. Good for exhibition at fairs, but too loose headed and uncertain for main crop. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

MAMMOTH RED ROCK.—A market gardener's strain of unusual size, weight and color. Its handsome appearance, large size, solidity and good quality will make it very desirable to all who like red cabbage. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

CABBAGE PLANTS.—See list of Vegetable Plants.

CABBAGE.

One ounce of seed will produce about 3,000 plants. Set 3,000 to 10,000 plants to the acre of the early sorts and 2,000 of the large, late kinds.

We pride ourselves on having the best, purest and highest grade of cabbage seed that is offered, or at least it is surpassed by none. Compare with the cost of seed, there is more money in growing cabbage than any other crop and there is nothing that growers should be more particular about.

The cabbage requires a deep, rich soil and thorough working to insure good, solid, full-sized heads. Sow early sorts in hot-beds in February or March, or in open ground as soon as it can be worked. Later or winter crops in May or June, in shallow drills six inches apart. When the plants are four inches high transplant into richly manured ground, the early kinds two feet apart. The fall and winter varieties three feet apart. Packets contain about 800 seeds.

Slug Shot and tobacco dust are used to kill insects and worms.

ALPHA.—The earliest flat-headed variety. See novelties. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

ERFURT ROUND SUGAR.—See novelties. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

NEW WASHINGTON WAKEFIELD.—See description with novelties. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 85c, lb. \$3.00.

EXTRA EARLY EXPRESS.—Excels in earliness all other sorts; has but few outside leaves and therefore may be planted very close and yield large crops. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.75.

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 the highest quality, American grown. Crop is very short this year. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 80c, lb. \$2.50.

IOWA SEED CO.'S SHORT STEM DRUMHEAD.—Our improved and selected strain of this popular variety has greatly pleased thousands of our customers during the past ten years, and so greatly has it improved during the time that we have had it 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 which we have seen, ripening evenly with very short stem or stalk, and large, solid, thick heads of fine silky quality and of best keeping properties. It is almost all head and always sure to head. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

NEW Short-Stem Drumhead CABBAGE



ALL SEASONS.—(Vandergaw.)—This most excellent variety is as early as Henderson's Summer and makes considerably larger and harder heads. Excellent to plant late, the thickness of head making it a capital sort for keeping through the winter. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

PREMIUM FLAT DUTCH.—This old and well known variety is still the standard winter kind. Its heads are large and solid; also first-class as a keeper. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.



PERFECTION DRUMHEAD SAVOY.



HENDERSON'S EARLY SNOWBALL CAULIFLOWER.

CUCUMBERS.

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 the vines with plaster or air-slacked lime to protect from bugs, or use Slug Shot to kill the bugs.

EARLY EXPRESS.—See novelties. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50.

CUMBERLAND.—See novelties. Pkt. 10c; oz. 25c

IMPROVED BISMARCK.—An excellent variety with very long fruit, pointed at both ends, very uniform in shape, size and color, thus making it an excellent sort for marketing. Holds its dark green color well. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c.

WHITE PEARL.—Bears freely throughout the season. The skin is very smooth and of beautiful pearly white; even the young fruits are of a very light color, nearly white. Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c.

NEW ASTRO.—A variety of the highest merit for gardeners, some claiming that they made more money from a crop of these grown early in hot-beds than from any other crop, as they yield a continual daily picking and sell quickly at \$1.00 per dozen. Fruit large, perfect shape, 8 to 12 inches long, or with outdoor culture 15 to 18 inches long. They are of the very best quality for slicing, as the flesh is white and crisp and they have very few seeds. Pkt. 10c; oz. 21.00

EMERALD.—A new variety from Ohio, which possesses that rich, dark green color which has so long been sought for 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. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

BOSTON OR JERSEY PICKLE.—Is used almost exclusively by the market gardeners near Boston for pickling. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

IMPROVED LONG GREEN.—A standard sort. Vine vigorous and productive, forming fruit fit for the table nearly as early as the shorter sorts; fruit about 12 inches long, firm and crisp. The young fruit makes one of the best of pickles, and when ripe is the best of any for sweet pickles. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

WEST INDIAN GERKIN, OR BURE.—Makes a handsome pickle of first class quality. Be sure and try it. Per pkt. 5c, oz. 15c. $\frac{1}{4}$ lb. 50c.

GREEN PROLIFIC.—A splendid pickling sort. Very productive. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.



EMERALD CUCUMBER.

CAULIFLOWER.

One ounce will produce about 3000 plants.

One of the most delicious of vegetables. Any soil that will grow cabbage will grow cauliflower, as their requirements are very similar. Culture same as cabbage, except that it needs a cool and moist atmosphere and should be watered during dry weather. As the flower heads appear, the large leaves should be broken down over them to shield them from the sun and rain.

HENDERSON'S EARLY SNOWBALL.—Throughout the country this is considered not only the earliest of all cauliflowers, but it is 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 eighteen to twenty inches apart each way, thus making it especially valuable to market gardeners. Our stock is extra choice and cannot be excelled. It is grown in the locality where this variety originated, by a grower whom we believe to be the best in the world. Per pkt. 15c; $\frac{1}{4}$ oz. 75c; oz. \$2.50.

EXTRA EARLY DWARF ERFURT.—Valuable for forcing. A very popular variety in Europe and with eastern gardeners. First quality. Per pkt. 15c; $\frac{1}{4}$ oz. 60c; oz. \$2.00.

EARLY PARIS.—Well known small variety which usually proves quite satisfactory. Have made price low this year so that all can try this excellent vegetable. Per pkt. 5c; oz. 50c.

LENORMAND'S.—There is considerable call in this market for a late variety of cauliflower, and in the Lenormand's we have just what is wanted. It is of large size and produces well formed heads of excellent quality. Per pkt. 5c; oz. 60c.

CAULIFLOWER PLANTS.—See list of Vegetable Plants.



IMPROVED CHICAGO PICKLE.

IMPROVED CHICAGO PICKLE.—This variety which originated with a leading pickle grower near Chicago, is considered the best variety there as it is very prolific, matures early and produces an immense number of desirable shaped pickles. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

JAPANESE CLIMBING.—A novelty from Japan which has proven thoroughly adapted to open air culture throughout Europe and America. The vines are of healthy, vigorous growth, with rich, dark green foliage, and throw out strong, grasping tendrils, which enable it to climb trellis, wire netting, brush or any other suitable support. It comes into bearing quickly and continues to set fruit abundantly throughout the season. Of large size, thick, tender, of delicate flavor, cylindrical shape, flesh pure white, skin dark green, turning to brown and netted when ripe; of excellent quality for slicing. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

PERFECT WHITE SPINE.—For many years we have been growing and improving this variety on our seed farm, and as a result we offer to our customers this improved strain, pronounced by good judges superior to either Peerless or Arlington. Fruit even and good size, straight, well formed and symmetrical. It is of uniform shape, making it unequalled for pickling. Immensely productive, and keeps longer solid and crisp than any other variety. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c. By express, 5 lbs. or more 35c per lb.

SNAKE.—A remarkable and very interesting curiosity. Cucumbers grow curled up like a snake with the head protruding, and some measure six feet in length. Grown chiefly as a curiosity, and for exhibition. Price only 10c each.

EARLY CLUSTER.—Grows in clusters. Productive and of good quality. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.



CELERY. 4 BEST SORTS.

01010



CELERY. One ounce will produce about 6,000 plants.

This we consider one of the luxuries of the garden. For first crop sow the seed early in hotbeds, or in boxes in the house, in rich, moist soil, covering the seed very lightly. For main crop sow seed in open ground in April or as soon as the soil is in good condition. Seed germinates slowly and if weather is hot and dry protect with light covering of hay or straw. Stir soil as soon as plants are well up; thin out and transplant so that they stand about an inch apart in the row. If they grow too rapidly, shear the tops off when about 4 or 5 inches high and this will make them more stocky. For main crop set plants out between June 15th and July 15th in rows three feet apart and the plants six inches apart in the row. Care should be exercised to firm the earth well around plants when setting and they will root better. Keep clear of weeds until about the middle of August, when it will be time to begin earthing up. Draw the soil up against the plants with a hoe as closely as possible, firming it enough to keep plants in an upright position. Later in the season the blanching process must be finished by digging the soil from between the rows and banking it clear to the tops on each side of the row of celery. Much labor is saved by growing the self-blanching varieties, but they do not keep quite as well for winter use.

ROSE RIBBED SELF-BLANCHING.—See novelties. Per pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 85c, lb. \$3.00.

GOLDEN SELF-BLANCHING.—This is by far the most popular variety now on the market. It is of medium earliness, of dwarf, compact habit, with thick, solid, heavily ribbed stalks, which blanch easily to a clear waxen yellow. When grown in rich, moist soil, the stalks are numerous and large with a solid heart of beautiful yellow. The best grade seed is scarce this year. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

NEW PINK AROMATIC.—This splendid variety which was introduced by us is of most attractive pink and white color. Crisp and tender; fine aromatic, nutty flavor; best for winter; blanches easily. Don't fail to try it. Per pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

HENDERSON'S HALF DWARF.—Entirely solid, possessing a rich nutty flavor, while it has much vigor of growth and heavy bunch. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

WHITE PLUME.—Stalks, portions of the inner leaves, and heart naturally white and become fit for use by simply tying it up closely with soft twine. More used than any other variety by market gardeners. Our

seed is of the highest quality and sure to please all. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

GIANT PASCAL.—Stalks remarkably large, thick, solid, entirely stringless, very crisp and brittle. A vigorous grower and is self-blanching, clear white. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.75.

GOLDEN DWARF.—Waxy golden yellow, cylindrical, solid, crisp. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

BOSTON MARKET.—Leaves dark green, stalks when blanched nearly white. Excellent quality, solid, crisp and tender. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

CELERIAC.—Or Turnip Rooted. Grown for the roots. Excellent for salad and flavoring. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

OLD CELERY SEED.—For flavoring. Per oz. 5c, $\frac{1}{4}$ lb. 15c, lb. 40c.

CELERY PLANTS.—See Vegetable Plants.

EGG PLANT

A tender plant, which should be started quite early in a hotbed or box in the house which must be kept warm. Transplant late to open ground 2½ 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. Per pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

EARLY ROUND PURPLE.—The earliest variety in existence being several weeks earlier than the above. Fruit is exactly the same shape and color as the Improved New York Purple, but is somewhat smaller. It is fully equal in quality and what it lacks in size is made up in productiveness. Pkt. 5c, oz. 35c, $\frac{1}{4}$ lb. \$1.10.

IMPROVED NEW YORK EGG PLANT.

PEARL WHITE.—Pure creamy white, with slight shading of light green near the stem; good quality. Pkt. 5c, oz. 40c, $\frac{1}{4}$ lb. \$1.40.



CELERIAC, OR TURNIP-ROOTED CELERY.

SWEET CORN.

One quart will plant 200 hills; one peck will plant an acre in hills.

Plant as soon as the ground becomes warm in the spring, in hills about 3 feet apart—five or six grains to the hill, and when up thin them out, allowing three or four the strongest plants to remain. Give thorough cultivation. Our sweet corn is fully grown and selected, only the choicest, most perfect ears being shelled for sale. It costs us more and is far superior to such stock as is often sold by other dealers. Packets contain about 2 ounces. We pay the postage by the pkt. ½ pt. and qt. to deduct ten cents on each quart if to be sent by express. Pints at half quart price. The half pint packages are very desirable for small families.

EARLY SUNRISE.—See novelties. Pkt. 5c, ½ pt. 12c, qt. 50c. By express ½ 60c, pk. \$1.00.

EXTRA EARLY CORY.—(White Cob.)—This has for years been the most popular variety with market gardeners for first early market and until the introduction of the Early Sunrise it was grown more largely than any other early sort by Des Moines gardeners. It is of a dwarf growth and yields well. Ears of medium size. This year we offer the improved white cobbled variety. Pkt. 5c, ½ pt. 15c, qt. 35c. By express ½ pk. 50c, pk. 85c.

CHAMPION EARLY.—Without doubt the earliest large corn ever introduced, being but a few days later than Cory, with ears nearly as large as the Mammoth. Ears were grown ready for table use in sixty-one days from the time of planting, and they weighed one and one-half pounds each and were 12½ inches long, by 8½ inches around. To help you realize these figures, get the largest ear of field corn you can find and compare measurements. This was grown with special culture. An average size is about nine inches long. It has a medium size white cob and large pearly white kernels, very sweet, tender and full of milk. No market gardener can afford to be without it, and every family garden should contain at least a few hills. Per pkt. 5c, ½ pt. 15c, qt. 45c. By exp. ½ pk. 50c, pk. 90c.

EARLY MINNESOTA.—A standard early variety that has held a high place in the list of sweet corns ever since its introduction. The ears are of good size, well flavored and of the best cooking qualities. Valuable for either private or market use. Per pkt. 5c, ½ pt. 10c, qt. 35c. By exp. ½ pk. 50c, pk. 80c.

COUNTRY GENTLEMAN.—An improvement on the old favorite Shoe Peg Sweet Corn. Our illustration of a single stalk shows its great productiveness; the crop can be counted on to give three to five ears to a stalk. When this unusual abundance is coupled with the luscious quality, the general superiority of this new variety will be quickly seen. The cob is very small, thereby giving great depth to the kernels which are of pearly whiteness, and we cannot say too often—surprisingly sweet and tender. Per pkt. 5c, ½ pt. 15c, qt. 40c. By exp. ½ pk. 60c, pk. \$1.00.

CROSBY'S EARLY.—For medium early use and general crop this is one of the most desirable varieties. Ears are of medium size and the cooking qualities excellent. A good cropper and profitable for family use and as a market sort. Pkt. 5c, ½ pt. 10c, qt. 35c. By exp. ½ pk. 50c, pk. 85c.

IMPROVED STOWELL'S EVERGREEN.—For many years Stowell's Evergreen corn has been the most prominent main crop variety and it is more largely planted than any other, being a general favorite with canners and market gardeners for late use. We have been selecting this for a number of years trying to improve it for family use. The ears are medium to large size and our illustration was made by combining the picture of the lower part of an ear in fit condition for table use with part of an ear of dry seed corn. The grains are deep, exceptionally tender and sugary and remain a long time in an edible condition. The dried kernels are shriveled so much that they readily show its unusual sweetness. It costs us considerably more to select and grow this than ordinary varieties but it is well worth the difference. If you want the ordinary grade perhaps our Evergreen Fodder Corn will suit you. Per pkt. 5c, ½ pt. 12c, qt. 35c. By exp. ½ pk. 50c, pk. 90c.

BLACK MEXICAN.—Although the ripe grain is black or bluish black, the corn, when in condition for the table, cooks remarkably white, and is surpassed by none in tenderness. This, by many is considered the most desirable for family use of the second early sorts. Will stand more hot, dry weather than any other. Pkt. 5c, ½ pt. 15c, qt. 45c. By exp. ½ pk. 60c, pk. \$1.00.

MAMMOTH SUGAR.—This produces the largest ear of any sweet corn, a single ear sometimes weighing as much as two or three pounds; quality very sweet and luscious. Pkt. 5c, ½ pt. 15c, qt. 40c. By exp. ½ pk. 50c, pk. 85c.

EVERGREEN FODDER.—For dairymen. Qt. 25c. By exp. ½ pk. 35c, pk. 60c.

POP-CORN.

It pays to raise pop-corn as a general crop. Demand usually exceeds the supply. Some farmers claim that it is as easily grown as field corn and they receive three to four times the amount per acre for the crop. For main crop the Monarch White Rice will bring the best price per pound, as it is better known. Let the children try a small patch anyway for home use. Ask for price in quantity.

PAGE'S NEW STRIPED RICE.—The best, handsomest and most attractive variety of pop-corn in existence. The color is a clear, translucent white, and each kernel is beautifully striped with bright crimson. The ears are of good size, and well filled out. Early, very productive, and very tender when popped, bursting out very large, white as snow and of finest quality. Per pkt. 5c, ½ pt. 20c, qt. 65c.

MINIATURE.—A regular little beauty. Attractive on account of its small size and handsome, perfectly shaped ears which are only two to three inches long, with very deep, pure white kernels which pop to immense size. Three to eight ears to stalk. Pkt. 5c, ½ pt. 20c, qt. 65c.

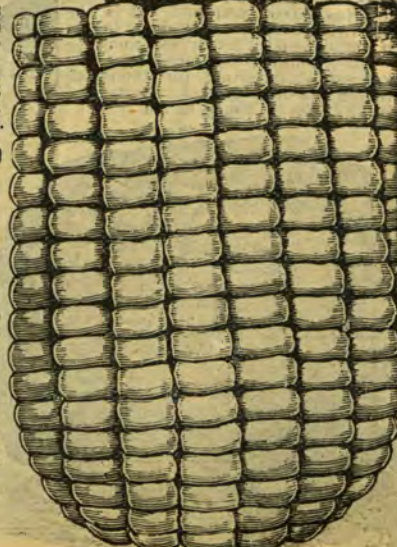
QUEEN'S GOLDEN.—Color a peculiar lustrous golden yellow; pops to a rich cream color; very prolific. Pkt. 5c, ½ pt. 15c, qt. 40c.

MAPLEDALE PROLIFIC.—The most productive pop-corn, averaging 5 to 12 good ears to the stalk. Pops to large size and very tender. Per pkt. 5c, ½ pt. 15c, qt. 40c.

MONARCH WHITE RICE.—The best white variety. Bears from three to six ears per stalk, and produces 1,500 to 2,000 lbs per acre. It will pay you to try it. Per pkt. 5c, ½ pt. 15c, qt. 40c. By exp. ½ pk. 60c, pk. \$1.00.



PAGE'S STRIPED RICE POP-CORN.



STOWELL'S EVERGREEN.

LETTUCE.

One ounce will sow 120 feet of drill.

Probably no vegetable is more universally used than Lettuce, and to be thoroughly appreciated it must be brought to the table fresh and unwilling. The quality of lettuce depends largely upon a 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 a succession sow every three weeks during the season. The soil should be rich and mellow. Thin out plants as they grow.

CONTINUITY.—A novelty of 1902, of dark brown, nearly black color and excellent quality. See description with novelties. Pkt. 10c.

EARLY CURLED SIMPSON.—An improved variety of the Curled Silesia, with large, loose heads and excellent flavor. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.



ICEBERG LETTUCE

ICEBERG.—The large, curly, leaves that cover the outside of the solid heads are of a bright, light green, with a very slight reddish tinge at the edges. The center is thoroughly blanched. Whether in the early spring or the hottest days of summer, the quality is simply perfect. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c.

DENVER MARKET.—An early variety of Head Lettuce either for forcing or open ground. It forms large, solid heads, of a good light green color, and is very slow to go to seed. The leaves are beautifully marked and blistered (like the Savoy cabbages), and very crisp, tender and of excellent flavor. By these blistered leaves it distinguishes itself from any other kind of lettuce now grown. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 85c.

GRAND RAPIDS.—A forcing variety of superior quality and beautiful appearance, strong grower, free from rot, and keeps crisp and tender without wilting when exposed for sale longer than any other forcing lettuce. It is also a desirable variety for sowing in open ground. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.20.

CALIFORNIA CREAM BUTTER.—A variety of cabbage lettuce, with round, solid head, as shown in the illustration; outside the heads are of medium green, slightly marked with small brown spots; within, the leaves are of a very rich cream yellow color, and particularly rich and buttery to the taste. The heads are of good size, compact, very hard and solid. In California they eat the heart only with a dressing of olive oil, vinegar, salt and pepper. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.20.

SALAMANDER.—An excellent spring, summer and fall variety forming good sized heads that stand drouth and heat longer without injury than any other sort; matures very early. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c.

MIGNONETTE.—A small bronze-green sort with heart of creamy white. It is handsome and of choice quality for family use. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c.

RELISH.—When visiting the place of one of our seed growers in California, we were greatly pleased with this fine new variety which we do not hesitate to call the best of all for family use. It is one of those rich buttery flavored sorts which after one becomes accustomed to, they always prefer to the crisp leaved varieties. It is the blanched yellow center of the head that is eaten with olive oil, vinegar, salt and pepper. A desirable sort for family use and market gardeners, either for forcing or growing in the open ground. Early and hardy. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c.



RELISH LETTUCE.



IMPROVED HANSON.—For general use both of market gardeners and in the private garden, we are sure that no variety can surpass our improved, carefully selected strain of Hanson Lettuce. It has been so judiciously improved that the heads are so solid that often they do not send up a seed stalk unless cut open with a knife. Heads are very large, green outside and nearly white within, deliciously sweet, crisp and tender, and almost absolutely free from rank or bitter tastes. Resists the summer heat exceptionally well. Pkt. 5c, oz. 10, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MORSE.—Might well be called an Improved Black Seeded Simpson. Is very desirable for growing under glass or out doors. We consider this one of the finest family sorts in existence. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

PRIZE HEAD.—Very tender leaves of dark reddish brown color, variegated with dark green. Heads large and of good flavor. We sell more of this than any other brown leaved variety; always satisfactory. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 80c.

BLACK SEEDED SIMPSON.—Nearly double the size of the ordinary Curled Simpson; stands the summer well without becoming tough or running to seed quickly. Is by far the most popular variety for greenhouse forcing, making large, handsome heads in a very short time. Gardeners are always pleased with our seed. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c.

RUDOLPH'S FAVORITE.—A very attractive Cabbage Lettuce; large size, crisp and delicate in flavor and very desirable for summer use, as well as for forcing. Forms a fine, large, solid head, leaves of a beautiful yellow color. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c.

MIXED VARIETIES.—Seed of about 20 early, medium and late sorts mixed together, thus giving lettuce for the table during the entire season, and giving an opportunity to examine all the leading varieties with but little expense. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.



LARGE ROUEN LEEK.

LEEK.

Leeks are quite appetizing when sliced and served as a salad, or they can be cooked and served like onions. The plants are very hardy and the flavor improves with freezing. Sow seeds thinly in drills early in the spring; thin out or transplant so as to stand six inches apart in the row. Keep well hoed and free from weeds during summer, and early in the fall draw earth up about the stems in the same manner as you would to blanch celery.

LARGE ROUEN.—Largest and most uniform of all, it so far surpasses other sorts that we consider it useless to list them. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.35.

WHAT CUSTOMERS SAY.

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

"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, Kan.

MUSK MELON.

One ounce will plant about 80 hills; two pounds to the acre.

The soil best adapted to the culture of melons is a warm, rich, sandy loam. Plant in hills five or six feet apart each way, ten or twelve seeds in a hill. When they begin to vine thin out, leaving only four of the most thrifty. As melons are very sensitive to the cold, they should not be planted until the settled warm weather begins in this latitude about the middle of May. Cultivation should commence as soon as plants appear above the ground, and be kept up once a week until the vines interfere too much. You will be pleased with our melon seed.

IOWA MASTODON.—Largest of all. Crop almost a failure. In packets of Pkt. 10 cents.

BANQUET.—The flesh is of a dark rich salmon color, uniformly thick and of the granulated character which always indicates a good melon. Of round shape, densely netted over its entire surface. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

BAY VIEW.—One of the most prolific melons in cultivation. It has been grown to weigh from 15 to 20 lbs. and from 15 to 18 inches long. It is hardy, vigorous and continues a long time in bearing. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

CHAMPION MARKET.—A superb variety. Almost a perfect globe in shape, and densely netted, making it one of the handsomest cantaloupes known. Flesh is thick, light green color, and rich flavor. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

BANANA.—Attains a length of from eighteen inches to three feet three inches, and is from two to four inches thick. Flesh very thick, of a salmon color. It looks almost like an overgrown banana, and smells like one, hence the name. Per pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

GRAND RAPIDS.—The main characteristic of this melon is its extreme earliness; has been on the market two weeks earlier than any other sort and sold readily at \$2.50 per doz. to hotels and fancy grocers, while melons grown in the south were practically unsalable. The flesh is pure yellow clear to the rind; skin finely netted. To obtain the best results, and to show its remarkable earliness and productiveness, we would advise our customers to pinch off runners, thus throwing growth into fruit, making it of large size and earlier. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

IMPROVED GREEN NUTMEG.—A greatly improved strain of the old Green Nutmeg. Fruit of a fair size, very rich, melting and of exquisite flavor, flesh light green. Very productive. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 80c.

IMPROVED EARLY HACKENSACK.—Large size, rich flavor; a great improvement on the Turk's Cap or Hackensack and 10 days' earlier. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

MONTREAL MARKET.—Of large size, flesh thick, fine flavor. Pkt. 5c, oz. 40c, ¼ lb. 20c, lb. 50c.

MCCOTTER'S PRIDE.—This variety is the result of long continued, skillful breeding and selection with the purpose of securing a very large melon of spherical shape, flesh of fine grain and high quality. The fruit is very large, nearly round, evenly and moderately ribbed, dark green in color, partially covered with gray netting. The orange red flesh is very thick, sweet and of fine flavor. Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. \$1.10.

WINTER PINEAPPLE.—Do not ripen on vines, but have to be picked before hard frost and laid in cool, dry cellar for long keeping. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.20.

PAUL ROSE.—We have been greatly pleased with this new variety, and we consider it one of the finest sorts. It is the result of a cross of the Osage and Netted Gem, and it combines the sweetness and high flavor of the former with the fine netting and superior shipping qualities of the Netted Gem. It is of peculiarly sweet, rich, delicious flavor and a long keeper. If you are a gardener, plant it and catch top of market prices. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.



EMERALD GEM MUSK MELON.

EMERALD GEM.—This is one of the most delicious little melons that we have ever eaten. The flesh is thick, of a suffused salmon color, almost red, and ripens thoroughly to the extremely thin, green rind. It is peculiarly crystalline in appearance, juicy and rich. The flavor is sweet and luscious beyond description. Rather small for marketing but very nice for home use. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

ROCKY FORD.—This new variety has everywhere been in great demand by the high class hotels and restaurants. Hundreds of carloads of them have been shipped from the little town of Rocky Ford, Colorado, to Chicago, St. Louis, New Orleans, Philadelphia, Newport, Boston and other cities, driving out the home grown. The melons are of just the right size for table use, slightly oval in shape. The flesh is thick, of a light green color and a fine, juicy, luscious flavor. It is very early, and is wonderfully productive. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

PRINCESS or PERFECTION.—This splendid variety is nearly round, with heavy, netted, dark green skin; the flesh is of a rich salmon color, and in flavor it is sweet and luscious beyond description. They ripen early and grow to a good size, often weighing 8 to 10 lbs. each. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 70c.

PERFECTED DELMONICO.—An improved type of the Delmonico melon. Almost a perfect globe in shape; the skin is a peculiar grayish green until ripe, when it changes to a bright yellow. The flesh is a deep, rich, orange yellow color, is of very fine grain and uniformly high quality. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

NETTED GEM.—A most excellent small melon and very popular with melon growers. It is finely netted and looks nicely on the market. Flesh green and particularly rich and juicy, so that it seems to melt in the mouth. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

TIP TOP.—It is a yellow-fleshed melon of the very best quality, every melon produced, big or little, early or late in the season, is a good one. They are sweet, juicy, of finest flavor, eatable to the very rind. It is a strong grower and a heavy yielder, and of handsome appearance. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 65c.

OSAGE.—One of the best melons on the market for family use and also greatly liked by gardeners. The skin is thin, of dark green color and slightly netted. The flesh is salmon color, remarkably sweet and spicy in flavor, extremely thick and delicious to the rind. The seed cavity is very small. It is seldom that one of poor quality is found. The whole crop is very even and extra heavy owing to the thickness of the meat. All lovers of fine melons should try the Osage. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

MIXED MUSK MELONS.—All of the above and a few other kinds grown separately and the seed mixed together. Will produce melons throughout the entire melon season. Per pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

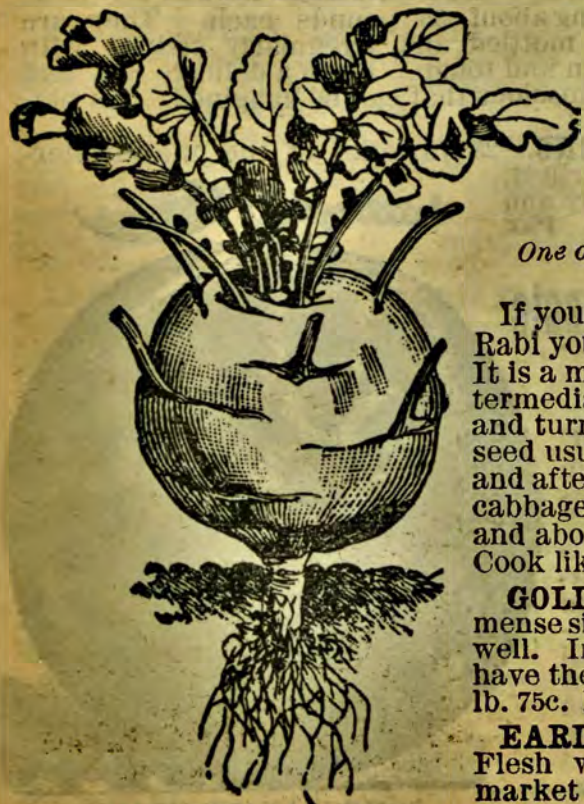
KOHL RABI.

One ounce will produce about 2,500 plants.

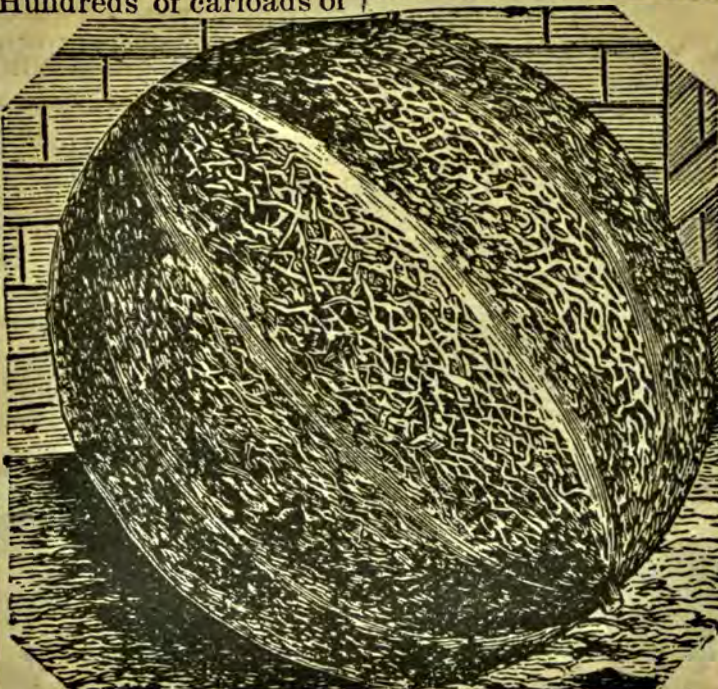
If you have never grown Kohl Rabi you should try it this year. It is a most excellent vegetable intermediate between the cabbage and turnip. It is easily grown, the seed usually being sown in drills and afterwards transplanted like cabbage to rows 18 inches apart and about 10 inches in the row. Cook like turnips.

GOLIATH PURPLE.—Of immense size, solid and sweet. Keeps well. In buying it will pay you to have the best. Pkt. 5c, oz. 25c, ¼ lb. 75c, lb. \$2.00.

EARLY WHITE VIENNA.—Flesh white and tender; good market sort. Per pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.



KOHL RABI.



ROCKY FORD MUSK MELON.



OSAGE MUSK MELON.

WATERMELON.

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

light, sandy soil, with good exposure to the sun, is the best for watermelons. It should be sowed deep, but receive shallow cultivation. Hoe often and thoroughly. Plant in hills eight feet apart each way. Plant eight to ten seeds in a hill, and finally, when danger of insects is over, leave but three strong plants. Thousands of melon growers annually depend on us for seeds and are universally pleased, claiming that nowhere have they ever obtained seed so good and reliable. It pays to have the best. Packets contain about 100 seeds.

COLE'S EARLY.—Decidedly the finest early variety for the private garden, but is too brittle for long shipments. It is very early and will mature further north than most other sorts. Of medium size, very productive, continuing to bear throughout the season. Flesh of bright red color, of granulated, sparkling appearance. In flavor it is lusciously sweet and refreshing. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

IMPROVED TRIUMPH.—See novelties. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.20.

BLACK DIAMOND.—See novelties. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

PEERLESS OR ICE CREAM.—(White seeded). Of unquestionable quality, very early, of medium size, thin rind, flesh bright scarlet. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

FORDHOOK EARLY.—A large early sort. From seeds planted May 10th, ripe melons were produced the last of July. The rind is tough, making it valuable for shipping. Color a uniform medium green; flesh red and very sweet. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

BLUE GEM.—This remarkable new melon is one of the finest ever brought out, and by some has been called Blue Kolb Gem but it is of infinitely better quality than the old Kolb Gem. Averages a better size, and with less culls. It is of dark bluish green color, bright red flesh and black seeds. Has rough rind, keeps longer and the quality is superior to most other varieties. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c.

GYPSY OR GEORGIA RATTLESNAKE.—A superior early market variety; large, oblong, the skin green, mottled and striped. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

DIXIE.—A cross between Kolb's Gem and Mountain Sweet, surpassing the former in shipping qualities and fully equaling the latter in fine eating quality and flavor. It is early, has a remarkably thin, tough rind, and will keep and ship well. The flesh is bright scarlet, and of fine quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

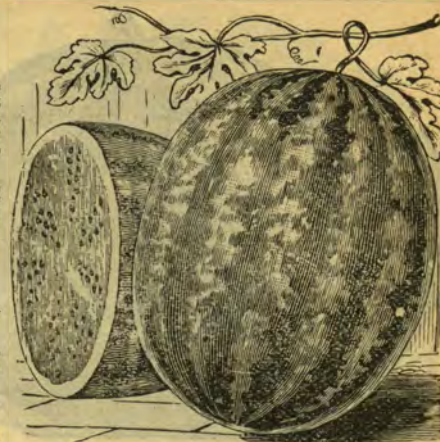
DUKE JONES.—This magnificent large melon has a dark green rind, slightly striped, flesh bright red, very juicy and delicious. It matures slightly earlier, is very prolific and much larger than Kolb's Gem. A carload of 800 melons averaging 43 pounds each were gathered from $\frac{1}{4}$ of an acre. One grower writes that they produced ripe melons in sixty-five days from the time of planting. Very desirable both for shipping and for the family garden. Everyone who has a place to grow melons should try this new, splendid variety. It has been grown to immense size and even the largest specimens hold their good flavor. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

GREEN AND GOLD.—Large size. Flesh as yellow as gold. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

CUBAN QUEEN.—Flesh bright red, luscious, crisp and sugary. An excellent keeper. Large size. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

MOUNTAIN SWEET.—The old standard. Best quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

PHINNEY'S EARLY.—Early, medium size, and quite productive. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.



COLE'S EARLY.

MONTE CRISTO. (Kieckley's Sweets).—After testing all varieties of melons, we do not hesitate to pronounce this one of the sweetest, juiciest, and most delicious melons in existence, and it is specially desirable for the private family. The skin is dark green faintly striped; flesh bright red and peculiarly rich, crisp and pleasant flavored. It ripens early, is of large size, is a good shipper and long keeper. Market gardeners will also be pleased with it. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

KOLB'S GEM.—This variety, on account of its excellent shipping qualities, is extensively grown for that purpose. Grow nearly round, and the color is a dark green with lighter narrow stripes. Very thin and tough rind. Flesh bright red and of good flavor. Our seed is choice. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c.

PRIDE OF GEORGIA.—Is of a dark green mottled color, nearly oval, somewhat ridged; grows partly upon its end, is firm, will ship well, attains a large size, and is very sweet and crisp. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

SWEET HEART.—Early, large, handsome, heavy, good shipper, long keeper, bright color and of good quality. Carloads of Sweet Hearts were sold at fancy prices in the market when no other sorts were saleable. Its vines are vigorous and productive, ripening the fruit early. The fruit is large, oval, very heavy, uniformly mottled light green and dark green. Rind thin but firm. The flesh is bright red, firm, solid but very tender, melting and sweet. Fruit remains in condition for use longer than any other sort. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

MCIVER'S WONDERFUL SUGAR.—We are greatly pleased with this variety which we found growing in Nebraska. The gentleman on whose place they were growing is an enthusiast on melons and after testing quite a number of varieties, all persons present united in pronouncing the Wonderful Sugar by far the best. It is a large melon averaging about 35 pounds each. They are long, rather light colored, mottled and irregularly striped with dark green; rind rather thin and tough. Flesh a delicate red, and the most tender, juicy and luscious that can be imagined. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

MIXED WATERMELONS.—25 varieties of the finest watermelons, the largest, earliest, sweetest; grown separately and seed carefully mixed by us. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

Ornamental Pomegranate Melon.

An ornamental little fruit which a century ago was commonly grown in the gardens but is now rarely seen. Grows on a pretty vine; fruit is round, of a bright yellow, irregularly striped with orange red or mahogany; very fragrant; a single specimen will sweetly perfume a room for many days. Prolific and easily grown. It is often called Queen Anne's Pocket Melon. Per pkt. 5c, oz. 25c.



POMEGRANATE MELON.

MCIVER'S WONDERFUL SUGAR MELON.

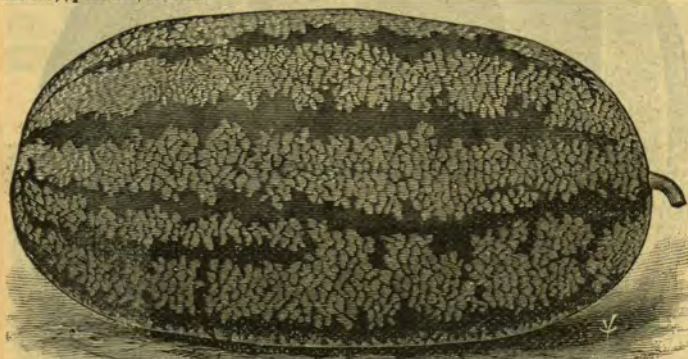
CITRON MELON.

Very nice for preserving and they are largely used for this purpose.

COLORADO PRESERVING.—Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 3 c, lb. \$1.00

RED SEEDED CITRON.—Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 3 c, lb. \$1.00.

APPLE PIE.—Best flavored of all. See novelties. Pkt. 10c.





Good onion seed is of the utmost importance, as onions are one of the most important crops grown, both in market and family gardens 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 specialty 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 new crop onion seed. Our crop was good this year and prices are reasonable. In comparing our prices with others, remember that WE PAY THE POSTAGE. Deduct 10c per pound if to be sent by express. Ask for prices in large lots. Packets contain about 1,000 seeds.

CULTURE.—One ounce will sow about 100 feet of drill; 4 pounds will sow one acre. The soil for onions should be a rich loam thoroughly enriched with well rotted manure and 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. At second hoeing weed carefully and thoroughly by hand. When the tops die, pull and spread evenly over the ground; stir or turn until fully dried, then cut the tops one-half inch from the bulb. For pickles or sets, the seed should be sown very thickly and in broad drills, about 50 lbs. to the acre for sets, and 15 to 20 lbs for pickling. For sowing onion 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. Try it. Book on Onions 20c. New Onion Culture Book 50c.

AUSTRALIAN BROWN.—A new, medium sized, wonderfully hard and solid variety of onion, and one which is quite attractive for the market, both in form and color. They are extremely early in ripening, and produce a crop of fine bulbs which are very uniform in size. Color is a peculiarly clear amber-brown, quite distinct from any other variety. In keeping qualities it exceeds any other variety that we know of. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25. 4 lbs. not prepaid \$4.00.

YELLOW GLOBE DANVERS.—A very handsome, round or globe-shape variety of large size, with thin, yellow skin, white flesh, fine grained, mild, very firm and the best of keepers. It ripens early, sells readily at the highest prices in our markets. This is one of the best cropping varieties in existence, has yielded 1000 bushels per acre, and one of our customers states that his crop averaged over 800 bushels per acre for nine years. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c; 4 lbs., not prepaid, \$3.00.

EXTRA EARLY BARLETTA.—This is a distinct new variety; the very earliest onion in cultivation. It is fully two weeks earlier than the Early White Queen, which heretofore has been the earliest variety on the market. They are of pure paper white color, very mild and delicate in flavor, $1\frac{1}{2}$ inch in diameter, and $\frac{3}{4}$ of an inch in thickness. For table use and pickling it is most valuable. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

LARGE RED WETHERSFIELD.—The standard sort throughout the west, as they are the most hardy, and immense crops can be raised when more tender sorts are not profitable. Growers who prefer the red varieties will find this a magnificent strain, far surpassing the ordinary Red Wethersfield in size, productiveness and keeping qualities. It is of the finest form, skin deep, purplish red flesh purplish white, much finer grained than many of the red sorts. Our seed of this variety is extra select and cannot be excelled. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00; 4 lbs., not prepaid, \$3.50.

WHITE PORTUGAL or SILVER SKIN.—Matures early, very mild flavor, medium size, generally preferred for table use, not good keeper; best variety to grow sets. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00; 4 lbs. not prepaid \$7.25.

GOLDEN GLOBE.—See novelties. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.00.

EXTRA EARLY PEARL.—The earliest and best of all American varieties. It is of good size, of pearly white color, the outer skin having a most showy, waxy appearance; flesh is pure snow white, and flavor so mild that it can be eaten like an apple. It grows with great rapidity. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

LARGE WHITE GLOBE.—The handsomest market variety in existence, making beautiful, clean, pure silvery white bulbs of large, even size, globe shape, mild and pleasant flavor, and outsells every other variety. It is comparatively a good keeper and undoubtedly the best white sort. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00; 4 lbs., not prepaid, \$7.50.

EXTRA EARLY RED.—Matures very early. Of medium size, flat shape, deep red in color; very close grained, solid and heavy. This will often form bulbs in cold and mucky soils where other varieties fail. It is recommended particularly for the north and northwest. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25; 4 lbs., not prepaid, \$4.50.

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. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.40; 4 lbs., not prepaid, \$5.50.

CANARY ISLAND or BERMUDA.—A quite handsome variety of onion which we import from the Canary Islands. It is largely grown also in Bermuda for shipment to the United States. It is of medium size, flat and matures early. Bulbs white, sometimes shading to pink. Per pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

SPECIAL PRICES.—As prices named above are subject to change during the season, we request persons desiring to purchase a large quantity to write for special quotations.



Big Onions

For table use large onions are much preferable to small ones and they will also bring better price on the market. Five varieties listed on this page are of immense size, add quality and yield wonderfully large crops. As they do not keep quite as long as some other kinds they are usually sold and used till January or February.

THE FIVE GIANTS

One packet each of
Mammoth Prizetaker,
White Prizewinner,
Copper King,
Giant Vesuvius,
Silver King,

— For only 25 cents. —

TRY THEM.

How to GROW BIG ONIONS

With each of these "Five Giants Collections" we will send circular giving full directions for growing big onions.

\$10.00 PRIZE FOR BIG ONIONS.

We offer a cash prize of \$10.00 for the largest onion grown this year from seed purchased direct from us. Any of the mammoth varieties we list on this page may compete for this prize. Reports must be in by October 15th. Don't fail to try these onions this year.

MAMMOTH PRIZETAKER.—(See cut No. 1.)—This is without doubt the largest, handsomest, finest flavored, and in every way the best variety of yellow onion in the world. It is admittedly the largest of all varieties, having been grown to the enormous weight of OVER SIX POUNDS and is withal a handsome, fine-flavored sort. Of a clear, bright straw color and uniform perfect globe shape. Produces enormous crops, one report being over 1,200 bushels, and they bring an extra price, being sold on the market as fancy onions. Keeps wonderfully well. Our seed is unexcelled, and is in great favor with our customers in all parts of the United States. They ripen up hard and fine, and present the handsomest possible appearance in market, while the pure, white flesh is fine grained, mild and delicate in flavor. To grow to the largest size sow seed early in hotbeds and transplant to open ground as soon as weather is favorable. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$1.50; 4 lbs., not prepaid, \$5.00.



WHITE VELVET OKRA.



COPPER KING or MAMMOTH POMPEII.—(No. 2.)—Have been grown to the enormous weight of FIVE POUNDS AND SIX OUNCES, and notwithstanding their large size they retain their shape and fine quality. To obtain an idea of how large this really is, just weigh the largest onion you can obtain and compare weights, or weigh out five pounds and six ounces of common onions and imagine them all in one. Beautiful copper color; flesh pure white, fine grained and mild. Per. pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$1.75.

MAMMOTH SILVER KING (No. 3.)—This giant sort is the largest of all white onions, no other white variety approaching it in mammoth size. It is of attractive form, flattened, but thick through, as shown in the illustration. Single bulbs often attain weights of from 2½ to 4 pounds each. The skin is a beautiful silvery white; the flesh is a snowy white, and of a particularly mild and pleasant flavor. So sweet and tender is

the flesh that it can be eaten raw like an apple. Matures early and is of uniformly large size and perfect form, and consequently will bring a large price in the market. Per pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.25.

GIANT VESUVIUS.—(No. 4.)—This grand new mammoth variety is a foreign sort. It is well shown by our illustration. In rich soil, under good cultivation, they grow to an immense size the first year. They are of a handsome globe shape, somewhat elongated, veritable beauties, and will attract attention anywhere. Color almost a blood red, flesh nearly white, quality most excellent. Much more tender and mild than the American sorts. Pkt. 5c, oz. 25c, ¼ lb. 75c, lb. \$2.25.

MAMMOTH WHITE PRIZEWINNER.—In magnificent shape and enormous size, the White Prizewinner is the exact counterpart of the Mammoth Yellow Prizetaker, which has become so popular in the last few years, differing only in its handsome silvery white skin. Hundreds of market gardeners and onion growers have tried it, and say that nothing equal to it in the line of white onions has ever before been grown in America. One enthusiastic grower says: "I raised a White Prizewinner measuring 17 inches in circumference and weighing over four pounds, which astonished my neighbors and took first prize at county fair." Per pkt. 10c, oz. 30c, ¼ lb. 90c, lb. \$3.00.

John Shaw, of Fairport, Kansas, writes: "Last season I planted some of your onion seed and they were immense, some of them weighing four pounds, and the tomatoes were simply grand. Visitors came from all parts to see them, and all remarked that they never saw their equal in this part of the country."

I am well pleased with your Choice Iowa Seeds, as they all gave first class satisfaction and I think there is none better.—J. C. Hughes, Hampton, Mo.

OKRA, or GUMBO.

One ounce will sow about 80 feet of drill.

Why not try Okra this year? It is extra nice for soups, stews, etc., and also much liked when pickled. Sow at the usual time of tender vegetables, in drills 2 inches deep, leaving the plants from 2 to 3 feet apart.

DWARF WHITE VELVET.—Pods round, smooth and of an attractive, white velvety appearance, very tender and of a superior flavor. Plants dwarf and very productive. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

THE SPECIAL

× \$10.00 PRIZE ×

which we offer each year for the largest onions grown from our seeds was won last year by Mrs. Thomas Reed, Shell Lake, Wis.

Don't you want it this year?

PEAS.

One quart will plant about 100 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 two to four feet apart, according to varieties, and three or four inches deep for general crop, although the first earlies will come to maturity sooner if only covered one and one-half inches. Wrinkled sorts are marked *. They should be sown thicker in the row than the smooth varieties, as they are more liable to rot if the ground is wet.

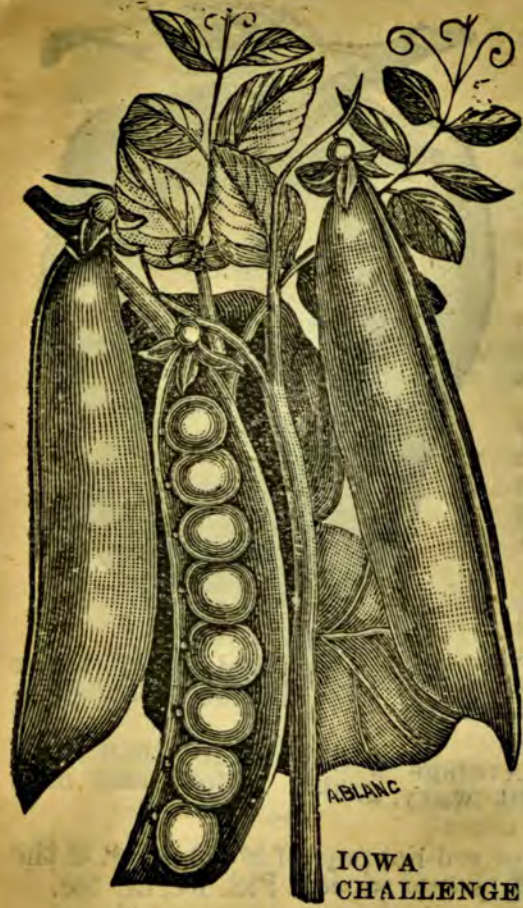
Prices include postage. Pints at one half the quart rates, 15c per quart discount if sent by express. Our packets contain about two ounces.

GIANT GRAY SUGAR.—See novelties. Per pkt. 10c.

***GRADUS, OR PROSPERITY.**—See novelties. Per pkt. 10c, ½ pt. 25c, qt. 75c. By express ½ pk. \$2.00, pk. \$3.50.

IOWA CHALLENGE.—An extra early variety of superior merit which is a favorite with Des Moines market gardeners. We can in confidence say that after a trial of nearly all extra early varieties offered to the trade we have not found one possessing more merit, hence its name. For the market gardener it has no superior. It is not only extremely early and prolific, but it is of good flavor. All the good qualities of the Extra Early are most nearly brought to perfection in the Challenge. Vines 18 inches. Pkt. 5c, ½ pt. 15c, qt. 50c. By express ½ pk. \$1.00, pk. \$1.75.

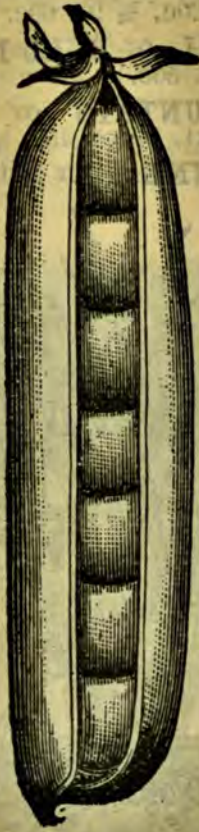
***PREMIUM GEM.**—Height one foot; early and prolific; a type of and an improvement on the McLean's Little Gem. Pods long and of dark green color. The most popular sort for family use. Pkt. 5c, ½ pt. 12c, qt. 55c; by exp. ½ pk. \$1.20, pk. \$2.15.



FIRST AND BEST.—A standard first early variety popular with gardeners in all parts of the country. This variety is perhaps more largely grown by market gardeners for first early than any other. Crop is very short this year. Pkt. 5c, ½ pt. 12c, qt. 40c; by exp. ½ pk. 90c, pk. \$1.65.

***DWARF CHAMPION.**—This extra choice new variety is a great improvement on the old Champion of England which has been one of the sweetest, best and most popular varieties for the last 30 years. The old variety is very tall (6 feet) while this new sort grows only 2½ feet, and still the vines are vigorous with a great profusion of very large pods filled with large sized peas of superior quality and very sweet. It is medium late and suited to main crop. Everyone who wants extra choice peas for family use should plant a few of these. Pkt. 5c, ½ pt. 15c, qt. 50c; by exp. ½ pk. 85c, pk. \$1.50.

***TELEPHONE.**—Immensely productive of the finest quality and excellent, sugary flavor; vines very strong, the pods are of large size, with six or seven large delicious peas; height four feet. Pkt. 5c, ½ pt. 15c, qt. 50c; by exp. ½ pk. 85c, pk. \$1.50.



DWARF CHAMPION.

***NOTT'S EXCELSIOR.**—A superb new variety, and we are sure our customers will welcome it as an ideal family and market pea. It is fully as sweet and delicious as the American Wonder, and grows one-half taller. Pods are larger and it is far more productive than the Premium Gem, and it is within a day or two as early as the first early smooth peas. Mr. George Buchanan writes: "I found these peas a very distinct, pure sort, with many marked excellencies over the American Wonder, Premium Gem, Advancer, etc. The peas were ready for table use within forty-three days from planting. Quality very superior. Per pkt. 5c, ½ pt. 15c, qt. 55c. By exp. ½ pk. \$1.25; pk. \$2.25.

***IMPROVED STRATAGEM.**—Late variety for family or market use. Half dwarf, vigorous, branching habit, and under favorable conditions an enormous cropper. Pods long and filled with seven to nine large peas of extra fine quality. Per pkt. 5c, ½ pt. 15c, qt. 50c. By express ½ pk. 85c, pk. \$1.50.

MAMMOTH LUSCIOUS SUGAR.—This new sugar pea bears pods much larger than any other variety, often six to seven inches long, and an inch and one-half broad. They should not be shelled, but the peas and pods eaten together, and as they contain so much sugar, starch and gluten, they are very nutritious for family use. Per pkt. 5c, ½ pt. 20c, qt. 60c. By express ½ pk. \$1.25, pk. \$2.25.



NOTT'S EXCELSIOR



ALASKA.—Height two feet, pods rather small, dark green color, well filled, the earliest pea known, being two days earlier than the Rural New Yorker, and ninety per cent of the pods can be gathered at the first picking. Per pkt. 5c, ½ pt. 12c, qt. 50c. By exp. ½ pk. \$1.00, pk. \$1.75.

***AMERICAN WONDER.**—The most popular extra early variety for the family garden. Being very sweet it cannot be planted quite as early as the above as it will not stand as much cold wet weather, but it is far superior to the extra early smooth sorts in flavor and table qualities and is quite productive. Of dwarf and robust habit, growing about ten inches high, and produces a profusion of good sized, well-filled pods fairly packed with the finest flavored peas. On good soil each vine will average twelve pods and each pod six peas. The vines grow from eight to twelve inches high. Per pkt. 5c, ½ pt. 20c, qt. 60c. By exp. ½ pk. \$1.25, pk. \$2.25.

***EVERBEARING.**—Height two feet; late to very late; hardy, vigorous, enormous cropper, pods and peas of large size and good quality. Pkt. 5c, ½ pt. 15c, qt. 45c; by exp. ½ pk. 85c, pk. \$1.50.

***ABUNDANCE.**—A standard medium early sort. Large and productive. Pkt. 5c, ½ pt. 15c, qt. 45c; by exp. ½ pk. 85c, pk. \$1.50.

***CHAMPION OF ENGLAND.**—One of the richest, best flavored peas grown. Pkt. 5c, ½ pt. 12c, qt. 40c; exp. ½ pk. 75c, pk. \$1.25.

***JUNO.**—This is considered by many by far the best wrinkled pea of its class to-day. It has very robust vines; stout, straight pods, usually borne in pairs. The pods are very thick, broad-backed all the way up and filled from the stem to the tip with seven to nine sweet, delicious, dark green peas of immense size. Its height is two feet, its season from medium early to main crop. Per pkt. 5c, ½ pt. 15c, qt. 50c. By express ½ pk. \$1.00, pk. \$1.75.

DWARF WHITE MARROW.—An improvement on the old Large White Marrowfat. Per pkt. 5c, ½ pt. 10c, qt. 35c. By express ½ pk. 50c, pk. 85c.

BLACK EYED MARROWFAT.—Is grown largely by gardeners and also sown as a field pea for stock. Per pkt. 5c, ½ pt. 10c, qt. 35c. By express ½ pk. 60c, pk. \$1.00.

FIELD PEAS.—See list of Miscellaneous Field Seeds.

GOURDS.

The following varieties will be found quite serviceable in any household. No one would think, without having tried them, of the many uses they can be put to. Cultivate as cucumbers, or may be trained over lattice work, fences, etc.

JAPANESE NEST EGG.—Grows almost uniformly to the color and shape of a hen's egg. The shells are hard and give the very best nest eggs, as they do not crack. The largest ones when laid in two make excellent pots for hanging tomato, strawberry and other plants. Pkt. 50z. 15c.

DIPPER.—Makes a more light and convenient dipper than can be bought. Dippers of various sizes, of a capacity of from a pint to a quart and a half, can be had from a few vines. Pkt. 5c, oz. 15c.

SUGAR TROUGH.—Very convenient for buckets baskets, nest boxes, etc. Pkt. 5c, oz. 15c.

LUFFA, OR DISH CLOTH.—The peculiar lining of this fruit, which is sponge-like, porous, tough, elastic and durable, makes a natural dish-cloth or sponge. The seed should be started early in the hotbed to in the house. Pkt. 10c, oz. 25c.

HERCULES CLUB.—Grows to immense size—sometimes 4 to 6 feet long. Per pkt. 5c, oz. 25c.

MIXED UTILITY.—Seeds of the above varieties mixed. Per pkt. 5c, oz. 25c.

ORNAMENTAL GOURDS

MIXED.—A mixture of the odd shaped and fancy colored sorts. Contains some of the most popular and handsome foreign varieties. Per pkt. 5c, oz. 30c.



Garden Lemon

Introduced by us and has been highly praised. It resembles the Vine Peach in manner of growth. Fruit is of the shape shown in our engraving. It is somewhat smaller than Vine Peach, has thinner flesh, and is decidedly more acid, thus dispensing with the sliced lemons which are so important in putting up the Vine Peach. Directions for cooking with each packet. Per pkt. 5c, oz. 15c, ¼ lb. 50c.

Ground Cherry

IMPROVED YELLOW.—Another year adds only to the popularity of this already popular 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. It is a great improvement on the wild Ground Cherry. They grow well on almost any dry soil; are easier raised than the tomato, and are prolific bearers, and oh! what luscious fruit! For sauce they are excellent, and for pies nothing can equal them for taste and flavor. They are delicious as preserves, and when dried in sugar are much better than raisins for cakes and puddings, and they will keep, in the shuck, if put in a cool place, nearly all winter. No one, after raising them once, will ever make a garden again without devoting a portion to the Ground Cherry. Per pkt. 5c, ¼ oz. 25c, oz. 40c.

MAMMOTH YELLOW.—See novelties. Per pkt. 10c.

PURPLE HUSK TOMATO.—This fruit is quite popular in some places. The plants produce handsome purple fruit in great abundance, which are from one to two inches in diameter and enveloped in a husk similar to the yellow Ground Cherry. Per pkt. 5c, ¼ oz. 25c, oz. 40c.

GIANT SCARLET.—Also called Chinese Lantern Plant. This is a very popular novelty and has proven quite satisfactory in some parts of this country. Per pkt. 10c.

COLLECTION.—One packet each of the four Ground Cherries for only 20c.

MUSTARD.

One ounce will sow about 75 feet of drill.

A pungent salad, used sometimes with Cress, also for greens. Sow thickly in rows, and cut when about two inches high.

OSTRICH PLUME.—See novelties. Per pkt. 10c, oz. 20c.

SOUTHERN GIANT CURLED.—Highly esteemed in the south, where the seed is sown in the fall, and the plants used very early in the spring as salad. Per pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

WHITE ENGLISH, or LONDON.—Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 45c.

CHINESE GOLDEN.—Forms a compact, bushy plant. Leaves very thick, finely curled, and of a bright golden yellow color. Very slow to go to seed. Per pkt. 5c, oz. 10c, ¼ lb. 30c.

CRESS or PEPPER GRASS.

One ounce will sow about 16 square feet.

EARLY CURLED.—A well known salad. Sow early and at intervals during the season; cover seeds lightly. Pkt. 5c, oz. 10c, ¼ lb. 25c.

TRUE WATER.—Sow the seeds along the border of running water and cover lightly. Pkt. 5c, oz. 35c.

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 eighteen inches apart. Seeds germinate slowly, and require considerable heat. Packets contain about 600 seeds.

KALEIDOSCOPE.—A beautiful new variety, the plant when loaded with fruit being very ornamental as the fruit differs so greatly in color. The fruit is of a yellowish-cream color and then changes to canary, then deepening to orange, then turns into pink until it becomes a deep, shining scarlet. The fruit is of the size of a plum. Per pkt. 10c, oz. 35c.

RUBY KING.—Very large size, 4½ to 6 inches long, by 3½ to 4 inches thick. When ripe they are of a beautiful bright ruby red color and are always remarkably mild and pleasant to the taste. Each plant produces from six to twelve large, handsome fruits. Per pkt. 5c, oz. 20c, ¼ lb. 65c.

MAMMOTH GOLDEN QUEEN.—Average a third larger than Ruby King. Eight to ten inches long, bright waxy, golden yellow, and mild flavor. Per pkt. 5c, oz. 25c, ¼ lb. 80c.

CORAL GEM BOUQUET.—This new red-hot pepper is the finest of the smallest-sized varieties. Excellent for pepper sauce. Pkt. 10c, oz. 50c.

RED CHILL.—Small, very hot. Used everywhere for pepper-sauce. Per pkt. 5c, oz. 20c, ¼ lb. 60c.

LARGE BELL, or BULL NOSE.—An early standard sort. Per pkt. 5c, oz. 15c, ¼ lb. 50c.

SWEET MOUNTAIN, or MAMMOTH.—Similar to the above but milder. Per pkt. 5c, oz. 15c, ¼ lb. 50c.

RED CAYENNE.—Per pkt. 5c, oz. 25c, ¼ lb. 90c.

Chufas, or Earth Almond.

A nice little ground nut which is greatly liked by the children. In sweetness and flavor they resemble the cocoanut or almond and are considered very nice put on the table in a fruit dish with candies, and as an after dinner relish. Very prolific, a single one yielding from two to four hundred. The nuts grow under ground, very near the surface, easily reached by pigs and poultry, and destroyed by them if they have free access. Plant in April, ten inches apart in two and one-half foot rows. Cover them lightly. If the seed is very dry, soak them well before planting. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.



CHUFAS.

PARSLEY.

One ounce will sow 150 feet of drill.

Sow in March, thinly in drills one foot apart and half an inch deep. Soak seed in warm water a few hours before sowing. For winter use protect in a 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. Most valuable for either garnishing or flavoring. Earlier than other varieties and what is more important it retains its dark green color late in the fall, and continues to produce well throughout the winter when transferred to the greenhouse. Per pkt. 5c, oz. 15c, ¼ lb. 50c.

CHAMPION MOSS CURLED.—A very select stock, most beautifully crimped and curled. Per pkt. 5c, oz. 10c, ¼ lb. 25c.

HAMBURG.—A turnip rooted variety, used for flavoring soups, etc. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 65c.

CHICKORY.

One ounce will sow about 15 square feet.

LARGE ROOTED.—Used as a substitute for coffee. Cultivate as carrots. Take up the roots in the fall, cut into small pieces and put away to dry. When wanted for use, it is roasted and ground like coffee. It is now being extensively grown in some parts of Iowa and Nebraska for commerce. Per pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

COLLARDS.

One ounce will produce about 3,000 plants.

GEORGIA.—Sow in May, and treat as cabbage. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.



RUBY KING.

PARSNIPS.

One ounce will sow 200 feet of drill; 5 lbs. to an acre.

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

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. A very heavy cropper; the roots are smooth, with a deep hollow crown and a small top. The flesh is fine grained and sweet and of excellent quality; cooks evenly all the way through to the center which is as fine, soft and even quality as outside portions. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 65c.

LONG SUGAR or HOLLOW CROWN.—The old standard. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 40c.

PEANUTS.

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

RED CROSS.—This very desirable variety is as early as the earliest, the most hardy, very prolific and of the 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 the nuts carefully so as to not break inside skin, and plant as soon as the ground becomes warm, from two to three feet apart each way, four or five to the hill, covering two inches. The soil should be deep and mellow. They produce 25 to 70 bushels per acre and are as easily cultivated as corn. Price per large package, 10c, lb. 40c, postpaid. By express 5 lbs. or more @ 25c.

SPANISH.—A very early variety but the pods are small. Per package 10 cents. lb. 40 cents.

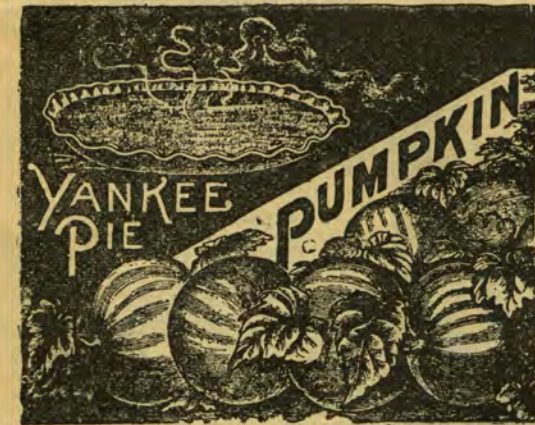
ENDIVE.

One ounce will sow about 60 square feet.

One of the best and most wholesome salads for fall and winter use. When leaves are eight inches long tie them together with string near the top to blanch.

GREEN CURLED.—Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

GIANT FRINGED.—A handsome winter sort of fine quality. Per pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.75.



one specimen that reached the enormous weight of 245 pounds. One customer writes us that he grew one weighing 155 pounds, and on the same vine had five other pumpkins from 90 to 104 pounds each in weight—over 640 pounds grown from one seed. Farmers and gardeners, just think of that kind of a crop! Will it not pay you to grow the King of Mammoths and exhibit them at your county fair? Our seed was saved from large select specimens. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

MAMMOTH ETAMPES.—A giant variety from France, where it is quite celebrated. Bright glossy red color; splendid for exhibition. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

MAMMOTH TOURS.—Also called Mammoth Whale. Originated near Tours, France, where it is largely grown, both for feeding cattle and table use. Grows to an immense size, sometimes three 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. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

TRY THE COLLECTION OF
MAMMOTH PUMPKINS
ONE PACKET EACH
NEW ATLAS, KING OF MAMMOTHS
MAMMOTH TOURS
AND MAMMOTH ETAMPES,
ONLY 20 CENTS.

A PRIZE OF \$10.00 will be paid for the largest pumpkin grown from our seed this year, the report to be sent in not later than October 15th. Full directions for growing large specimens sent with each collection.

JAPANESE PIE.—This is similar in size and form to the well known Cushaw, but the skin is a deep green, with darker stripes, turning to yellow as fruit ripens, earlier than any other pumpkin; seeds are marked with curious indentations. Flesh very thick and of rich salmon color, nearly solid. Dry and sweet, making rich pies without eggs. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

LARGE CHEESE.—(Kentucky Field.)—Large round, flattened fruits with creamy buff skin. It is an excellent keeping variety, with thick flesh of exceptionally fine quality. Commonly called sweet pumpkin throughout the west. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

CONNECTICUT FIELD.—The common field or cow pumpkin. If you have any live stock to feed it will pay you to put in a few acres of these. Per oz. 5c, $\frac{1}{4}$ lb. 10c, lb. by mail 35c. By express or freight, 10 lbs. \$1.75; bushel of 25 lbs. \$3.00.



PEANUTS.

RHUBARB.—OR PIE PLANT.

One ounce will produce about 100 plants.

Succeeds best in deep, rich soil. Sow in spring in drills, cover one inch. Thin plants to six inches apart. Transplant in autumn or spring to permanent beds, three feet apart each way.

IDEAL MAMMOTH.—See Novelties. Per pkt. 10c, oz. 25c.

VICTORIA.—The old standard sort. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

RHUBARB ROOTS.—By mail 15c each, \$1.00 per dozen.

PUMPKIN.

One ounce will plant 25 hills; 4 pounds 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 pumpkin pie? Planted with corn two pounds will plant one acre.

NEW ATLAS.—See Novelties. Per pkt. 10c.

YANKEE PIE.—This is the noted New England Pie or Small Sugar Pumpkin. Same shape and color as the Connecticut Field, but smaller, very sweet, fine grained and one of the best varieties for table use. We have sold this to thousands of customers in all parts of the county and it pleases everyone for making pies. Early and very productive. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

CALHOUN.—A great improvement on the Large Cheese pumpkin. Color creamy brown, flesh deep salmon yellow, fine grained, while seed cavity is very small. Rind thin. When cooked it is very yellow and makes pies of a rich color, sweet and of the finest quality. Has been recently re-named by one dealer the "New Thanksgiving Pumpkin." Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

WHITE CUSHAW or JONATHAN.—Attractive and sells better than the old green striped sort. It is a large bottle-shaped variety. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75 cts.

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



KING OF MAMMOTH PUMPKINS.

RADISH.

One ounce will sow 100 feet of drill; eight to ten pounds will sow an acre in drills.

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. Most of our radish seed was grown for us in France, "the natural home of radishes," and we think it cannot be surpassed. There is very short crop of many varieties of radish this year.

NEW TRIUMPH—See novelties. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c.

NEW ICICLE—See novelties. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c.

EARLY SCARLET GLOBE—A most excellent early radish for garden culture, and for hot bed forcing there is no variety so desirable as the Early Scarlet Globe. It is the earliest; its color is the handsomest; in flavor it is the mildest, most crisp, juicy and tender. It is the market gardener's favorite as a forcing radish. It forms small top, and will stand a great amount of heat without becoming pithy. Its fine shape, well illustrated by the accompanying engraving, makes it sell for higher price and more rapidly than any other shaped sort. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

IMPROVED CHARTIER—Is decidedly distinct in appearance from any radish in cultivation. Its form is well defined by our engraving, the color at the top being crimson running into pink about the middle, and from thence downward is a pure, waxy white. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

FRENCH BREAKFAST—A small, handsome variety of very quick growth; one-half inch in diameter and two inches long. Color bright carmine with clear white in the lower portion. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

NON PLUS ULTRA—An improvement on the Deep Scarlet Turnip. Remarkably fine in quality, of very quick growth, and ready to pull within twenty days after sowing. Perfectly globular little roots of very bright color and excellent shape; certain to insure ready sale on the market. It is one of the best strains of early radishes for forcing. Beds are planted ready for a second planting all in thirty days. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 90c.

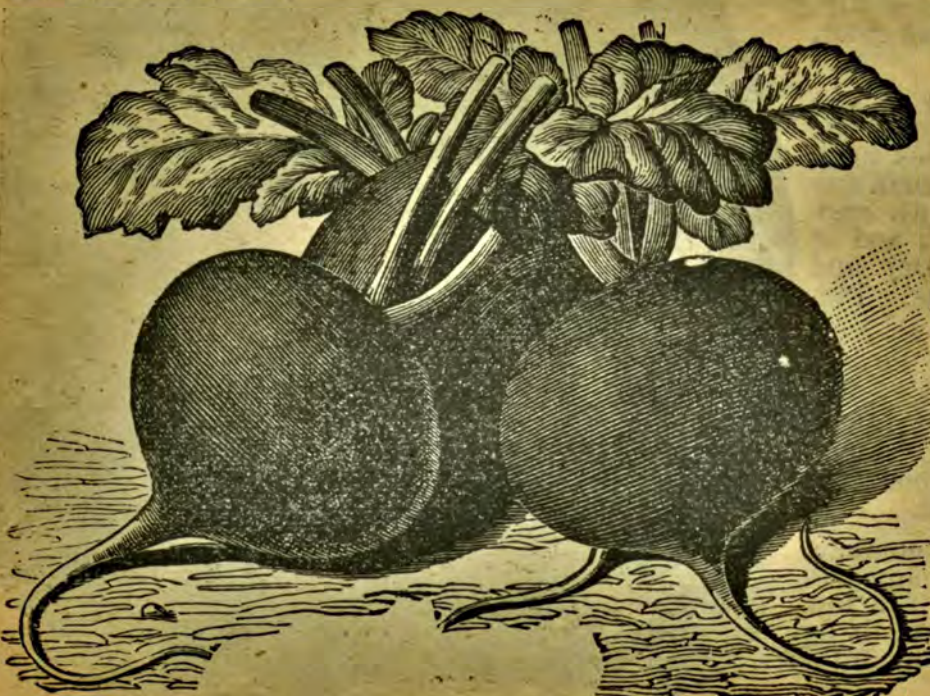
CINCINNATI MARKET—A most excellent long radish of beautiful glossy brilliant scarlet color, having unusually small top. The skin is very thin, and the flesh crisp and brittle and of a delightful pungent quality. It is undoubtedly the finest long red radish for forcing, and will outsell any other on the market, and it is also an extra fine sort for the home garden, the quality being unexcelled. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 70c.

MODEL WHITE BOX—An improvement on the Philadelphia White Box, which has been popular for several years. It is most handsome shape, very early and has but few leaves, thus making it of special value for growing in hotbeds or "boxes" and one-third more radishes can be grown in the same space than with most other sorts. It is of clear white color, solid, juicy and unsurpassed in flavor. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 65c.

ROSY GEM—An improvement on the Scarlet Turnip White Tip. Their shape is perfectly globular, with rich, deep scarlet top, blending into pure white at the bottom, exceedingly tender, crisp, delicious, equally desirable for either the market or home garden. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

WHITE LADY FINGER—An improvement on White Naples, or Vienna. Large, white, crisp variety, about as long as Long Scarlet, and similar in shape. A very desirable sort. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

ALL SEASONS or CELESTIAL—Introduced by us in 1890 and has proved of great value as a summer and fall sort keeping also quite well for winter use. Has large ivory white roots of excellent quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.



NEW GOLDEN DRESDEN.



MODEL WHITE BOX.

GOLDEN DRESDEN—Little beauty, golden brown skin, white flesh, crisp, juicy, finest flavor. One of the quickest growing sorts, tops small, admitting of close planting. Whether grown in garden or hotbed you can depend on remarkably perfect, early, uniform crop. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

CALIFORNIA MAMMOTH WHITE—Winter sort, flesh white, excellent quality, largest of all; pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 85c.

CHINA ROSE WINTER—One of best winter varieties, bright rose colored, flesh white, firm, best quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

LONG BLACK SPANISH—Popular winter sort. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

MIXED RADISHES—Mixture of over twenty choice varieties of early, medium and late radishes. This will give you radishes all summer, and you will be surprised at results. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.



IMPROVED CHARTIER.

PERPETUAL WHITE SUMMER—This variety, introduced by us, has given splendid satisfaction to all who have tried it. They are pure white of uniform good quality, crisp and brittle, and they keep longer in a fit condition for the table than any variety we know of, hence their name, Perpetual White Summer. Can be sown any time of the year and will always produce good radishes fit for market earlier than the Chartier, and keep in perfect shape for marketing about four weeks, or longer for home use. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

ROUND SCARLET CHINA or CHINA GLOBE—An exceedingly handsome new variety which will prove to be popular. It is of medium size, bright scarlet color and globe shape. It grows very rapidly, being almost as early as early forcing sorts and it holds its size and superior qualities throughout the summer. The flesh is pure white, crisp, brittle and most agreeable flavor. When sown later they make an excellent winter sort and keep well. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

WHITE STRASBURG—Of handsome, oblong, tapering shape, both skin and flesh are pure white. The flesh is firm, brittle and tender, and possesses most desirable character of retaining crispness even when old and large. Excellent for summer use, and withstands severe heat and grows very quickly. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 65c.

WOOD'S EARLY FRAME—Smaller and about ten days earlier than Long Scarlet, which it very much resembles. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

EARLY LONG SCARLET SHORT TOP—An old standard variety of quick growth, with long, slender roots. Radishes are ready for market about twenty-five or thirty days after planting seed; flesh crisp and mild. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

EARLY LONG SCARLET SHORT TOP—Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

EARLY SCARLET TURNIP—Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.



MIXED RADISHES.

SQUASH.

One ounce early varieties will plant about forty hills; one ounce late varieties will plant about twenty hills; 3 to 4 pounds to the 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.

HESTER.—See novelties. Per pkt. 10c, oz. 25c.

ALEXANDRIA.—See novelties. Per pkt. 10c.

EARLY PROLIFIC MARROW.—Early and productive—the two most important features for the market gardener—while its attractive color—brilliant orange red—good cooking and keeping qualities, make it popular with the consumer. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 60c.

GOLDEN BUSH.—An improvement on the old Yellow Bush Scallop or Patty Pan. The earliest of all squashes. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

WHITE BUSH SCALLOPED.—Similar to the Golden Bush. Color creamy white; an excellent variety for the family garden for early use. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

EARLY BUSH CROOKNECK.—Splendid summer sort, early, productive, very fine quality. With all the new varieties recently brought out many claim that there is no summer squash superior to this. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 45c.

SIBLEY, or PIKE'S PEAK.—Originated in Iowa. We recommend this as the very best standard variety of winter squash. Claimed to be a great improvement on the Hubbard. The shell is pale green in color, very hard and flinty, but at the same time so thin and smooth as to occasion the least possible waste in baking. The flesh is solid and thick and a bright orange yellow color, dry and has a rich, delicate flavor peculiarly its own; more productive and a better keeper than either the Hubbard or Marblehead and we prefer it for our own table use. Seed is very scarce this year. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



EARLY PROLIFIC MARROW.

GOLDEN HUBBARD. also called **RED HUBBARD.**—This is a counterpart of the old Green Hubbard, except in color, which is a bright, deep orange-yellow, much richer in color than Hubbard, fine grained, cooks very dry, and is of excellent flavor. Its keeping qualities are fully equal to, while in productiveness it far exceeds the green variety. This is a squash that every market gardener should plant, for it is a "seller." Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

WHITE HUBBARD, or WHITE CHESTNUT.—The outside skin is a creamy white while the flesh is lemon yellow, fine grained, sweet, most excellent in quality, suggesting the flavor of a boiled chestnut. Size and form much like the Hubbard. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

COLLECTION.—One packet each of the above five Hubbard's for 20c.

FAXON.—The flesh is a deep orange yellow, cavity very small and seeds few; the special peculiarity, however, is that while uncooked it appears to have a shell like any squash, but when cooked there is practically none, the shell or inedible part, being only about as thick as a sheet of writing paper. It is sweet, very dry, matures early and can be used as a summer squash. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 70c.

MAMMOTH CHILI.—The "Jumbo" of the squash family. The form is round, flattened at both stem and blossom end. The outer color is a rich orange-yellow; skin is quite smooth, with wide fissures. Flesh is very thick and of a rich yellow color; the quality is good and nutritious. They are most profitable to grow for stock feeding. They keep well throughout the entire winter. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

ENGLISH VEGETABLE MARROW.—A favorite English sort. The fruit is variable in size, from nine to eighteen inches in length. Skin is greenish yellow, flesh white, soft and of rich flavor. Plant eight feet apart. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

SALSIFY, Vegetable Oyster.

One ounce will sow about 50 feet of drill.

Why don't you grow salsify? We are certain if you grow it one year you would never be without it. Salsify is one of the most delicious and nutritious of vegetables, and should be more generally cultivated for use in winter, when the supply of really good vegetables is so limited. It has the true oyster flavor, and makes a delicious and inexpensive substitute for them in soup, etc. Cultivate like parsnips.

MAMMOTH SANDWICH ISLAND.—Averages fully double the size of the old Long White. Roots are white, smooth and, notwithstanding their enormous size, are of superior quality. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

WISCONSIN GOLDEN.—A most distinct and valuable new sort that we are now confident will suit customers. It is of strong, vigorous growth; the leaves are dark green in color, finely crimped and curled. The roots are large smooth and have a decided yellow cast, which gives it its name. They cut smooth and even throughout, unusually brittle and never stringy. When prepared for table are very rich, tender and delicious in flavor. Pkt. 10c.

SPINACH.

One ounce will sow about 50 feet of drill; 10 lbs. to the acre.

The finest "greens" of any plant in cultivation. For summer, sow early in spring in deep, rich soil, in drills one foot apart; cover one inch. Sow at intervals of two weeks throughout the season. For very early spring use, sow the winter varieties first of September, protect by covering with straw. Packets contain about 500 seeds. By express 5 lbs. \$1.25.

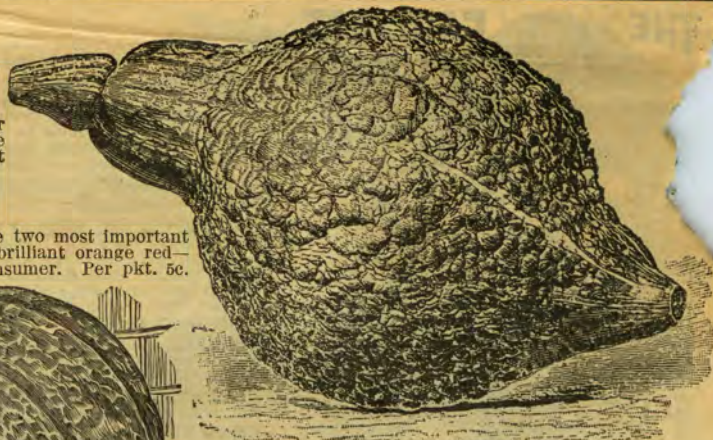
NEW VICTORIA.—This new variety is distinguished for its exceedingly dark black-green color, and also for its very long standing qualities, being from two to three weeks later than the ordinary Long Standing. The leaves are thick and spread out flat upon the ground. It is excellent for spring sowing, but not sufficiently hardy to withstand the winter in this locality. It outyields every other variety, and stands longer before going to seed than other sorts. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 40c.

NEW ZEALAND.—Very useful to supply the place of the ordinary Spinach during the hottest months of the year, or in dry, arid localities. A great acquisition and the most valuable of all for either the market or family garden. One plant will cover a space of ground three or four feet square. A few plants will supply a family with this delicious vegetable from July to October. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

LONG STANDING.—A standard with gardeners. Leaves thick, fleshy and crumpled. Slow in running to seed, hence its great value for spring sowing. The leaves are round, large, unusually thick, deeply curled and of a fine dark-green color. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c. By express 5 lbs. \$1.00.

PRICKLY or WINTER.—A very hardy variety, and will withstand the severest weather with only a slight protection of leaves or straw. The seed is prickly, leaves triangular, oblong or arrow shaped. It is used for fall sowing. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.

BLOOMSDALE.—A Savoy-leaved variety bearing numerous succulent curled leaves. Very popular. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 40c. By express 5 lbs. \$1.10.



TRUE HUBBARD.

Collection of HUBBARD SQUASHES.

TRUE HUBBARD.—This old variety has for years stood the test of all rivals, and is the most popular winter squash grown; hard, green shell; flesh bright orange yellow, fine grained, very dry, sweet and of rich flavor; keeps in perfect condition throughout the winter. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

WARTY HUBBARD.—A new strain of the Hubbard. The wartiness indicates a very hard shell, which is one of the best features of a long-keeping squash. It also denotes extra choice quality—the harder and more warty the shell of a Hubbard, the more delicate and sweet the flesh. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 65c.

BLUE HUBBARD, or MARBLEHEAD.—A splendid winter variety. Shell very hard, light blue color, flesh similar to the Hubbard in quality. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 20c, lb. 65c.

RED HUBBARD.—This is a counterpart of the old Green Hubbard, except in color, which is a bright, deep orange-yellow, much richer in color than Hubbard, fine grained, cooks very dry, and is of excellent flavor. Its keeping qualities are fully equal to, while in productiveness it far exceeds the green variety. This is a squash that every market gardener should plant, for it is a "seller." Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

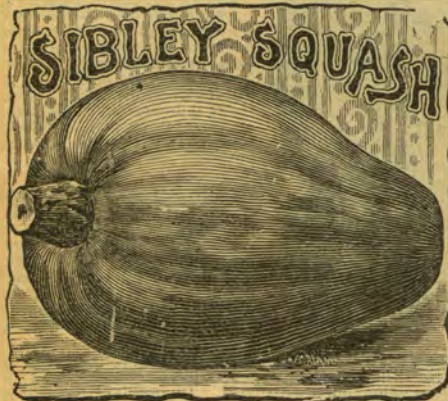
WHITE HUBBARD, or WHITE CHESTNUT.—The outside skin is a creamy white while the flesh is lemon yellow, fine grained, sweet, most excellent in quality, suggesting the flavor of a boiled chestnut. Size and form much like the Hubbard. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

COLLECTION.—One packet each of the above five Hubbard's for 20c.

FAXON.—The flesh is a deep orange yellow, cavity very small and seeds few; the special peculiarity, however, is that while uncooked it appears to have a shell like any squash, but when cooked there is practically none, the shell or inedible part, being only about as thick as a sheet of writing paper. It is sweet, very dry, matures early and can be used as a summer squash. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 70c.

MAMMOTH CHILI.—The "Jumbo" of the squash family. The form is round, flattened at both stem and blossom end. The outer color is a rich orange-yellow; skin is quite smooth, with wide fissures. Flesh is very thick and of a rich yellow color; the quality is good and nutritious. They are most profitable to grow for stock feeding. They keep well throughout the entire winter. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

ENGLISH VEGETABLE MARROW.—A favorite English sort. The fruit is variable in size, from nine to eighteen inches in length. Skin is greenish yellow, flesh white, soft and of rich flavor. Plant eight feet apart. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.



SIBLEY SQUASH



WISCONSIN GOLDEN SALSIFY.

THE EARLIEST TOMATO IN THE WORLD



EARLY MINNESOTA.

WHITE'S EXCELSIOR.—Claimed to be the best purple tomato ever introduced and we have really been surprised to see what an exceptionally large crop it yielded. The fruit is of a dark, glossy, purplish red, very large, handsome, and nearly solid, which is a peculiarity, as most purple sorts like the Acme, are very full of seed. It is also unlike other purple sorts in that the skin is tough, so that they will bear long shipments and rough handling exceedingly well. By our illustration the very unusual depth of the fruit will be noticed, as they are not flat like many other sorts. The vine is of dark green color, a vigorous grower and sets the fruit in clusters, continuing to bear throughout the season. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 85c, lb. \$2.75.

MATCHLESS.—Well worthy of its name, for in beauty of color and symmetry of form it is indeed without a peer. The vines are of strong vigorous growth, well set with fruit; are entirely free from core, of a very rich cardinal red color, and not liable to crack from wet weather, of largest size, and the size of the fruit is maintained throughout season. Solid, of fine quality and keeps well. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$1.80.

STRAWBERRY HUSK TOMATO.—Also called Ground Cherry. Pkt. 5c, oz. 40c.

PERFECTION.—Solid flesh, always smooth and of blood-red color. This is a general favorite, equally desirable for the home garden, for shipping and for canning. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c.

ACME.—A popular early variety, with smooth, round, purple fruits of medium size. Ripens a large number early in the season; fruits are rather soft and liable to crack. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

FAVORITE.—Medium size fruit of rich dark red color. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.65.

CRIMSON CUSHION.—The best climbing variety. Persons who have only a small garden will appreciate this variety which can be grown on trellises and in this way three or four times as much fruit can be grown on the same space. It grows 7 to 10 feet high, if desired, but as most of the fruit is borne three or four feet from the ground well out of reach of the chickens, it is just as well to trim off the tips. Fruit is extremely large, exceeding any variety on our list. Seeds are few and near the outside, leaving center solid pulp which ripens evenly throughout before the outside appears ripe. An elegant sort for slicing or putting up. Pkt. 10c, oz. 50c.



CRIMSON CUSHION.

PONDEROSA.—This is the largest fruited Tomato and of fine quality for slicing. The vines are of strong, rather open growth; fruits largely oblong in form, deep through, and generally ridged or ribbed; deep purple in color. They are solidly fleshy with small seed cells; of fine, sweet flavor. Planted in good soil, fruits frequently attain a weight of one pound and over. Rather late to ripen. Per pkt. 5c, oz. 35c, $\frac{1}{4}$ lb. \$1.00.

ATLANTIC PRIZE.—This is an extra early sort, but the fruits are flat and rather rough in form. It is smoother, however, than most of the extremely early strains, and ripens quickly a large quantity of bright scarlet fruits. Per pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$2.00.

MIXED TOMATOES.—For the advantage of some of our customers who would like to try all kinds, we have prepared this mixture of the varieties named above and several others, which we think will please all. Pkt. 5c, oz. 30c.

TOMATO PLANTS.—Much time may be saved by buying plants and you will find them listed on page 23.

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, but it must be remembered that a surplus of manure stimulates leaf growth to the detriment of fruit. Through long years of selection we have now a stock of tomato seed which is far superior to that of most other dealers. Our packets contain about 500 to 1,000 seeds.

GOLDEN NUGGET.—See novelties. Pkt. 10c.

SUPERB.—See novelties. Pkt. 10c, oz. 35c.

BOND'S EARLY MINNESOTA.—This handsome new variety is, we believe, the earliest in existence. Vines vigorous with rather small leaf. When quite small begin producing fruits which are of fair size, of good shape, smooth, dark red color. They ripen evenly, remain solid a long time and never crack. Thos. H. Brinton, who grows about 100 varieties of tomatoes, has originated several of our best sorts, and who may be called the best posted man on tomatoes in the United States, writes us: "Bond's Early Minnesota is the best early tomato I have ever tried." Per pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.25.

IMPERIAL.—The fruits are perfectly smooth, very early, purple color, very deep, solid and thick meaty, ripening up well around the stem. It is an immense cropper and a long keeper. Per pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.00.

STONE.—Very large, and of bright scarlet color; smooth; ripening evenly to the stem; exceedingly solid; is an excellent shipper; quality is the best. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.75.

LEMON BLUSH.—The skin and flesh are a bright lemon yellow with a faint rose blush or crimson tint diffused over part of the surface opposite the stem. It may never become a popular market sort, but anyone desiring a choice table variety for home consumption should not fail to have it. Per pkt. 5 cents, oz. 30 cents.

GOLDEN QUEEN.—An improvement on the old yellow Trophy. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c.

CRIMSON CURRANT.—A most charming little fruit, which is quite small, hardly more than a half inch in diameter, of bright crimson color, and borne in long clusters containing 20 to 60 berries or tomatoes. Excellent quality for eating from the hand or preserved. Pkt. 10c, oz. 40c.

YELLOW PEAR.—A favorite with all who know them. Fruit is pear shaped and of a handsome deep yellow color; flesh yellow, solid and fine flavored. Highly esteemed as a table delicacy raw but more used for preserving or to make "tomato figs," also excellent pickled. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. 75c.

LIVINGSTON'S BEAUTY.—Originated with the late Mr. A. W. Livingston, of Franklin county, Ohio, and is one of the best ever introduced. Its size, beauty, shape, color, flavor, durability and productiveness make it desirable to all classes of tomato growers. Glossy crimson with slight tinge of purple. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

IMPROVED TROPHY.—First of modern improved kinds. Our Improved Trophy is a sort whose large, vigorous and productive, large, solid, smooth, fine flavored, beautiful fruit will satisfy the most exacting. Much liked for canning as well as fresh. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

DWARF CHAMPION.—Its habit of growth is peculiar, for not only is it dwarf and compact, but the stem being thick, stiff and short-jointed, it is almost self-supporting when laden with fruit. In productiveness it is unsurpassed. It is also very early. The fruit is of a purplish pink color, always smooth and symmetrical and the flesh solid and of fine quality. Can almost be called a tree tomato. The best variety to grow for plants for sale as they are so stocky. Seed is very scarce this year. Per pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.25.



DWARF CHAMPION

THREE TABLE TURNIPS



TURNIP.

One ounce will sow 15 feet of drill; two pounds will sow one acre.

For early, sow April in drills half inch deep and 12 inches apart, thin to 4 inches apart in drill. For main crop sow broadcast during July and August, and just before or during a showery time if possible. The soil should be rich and mellow and kept free from weeds.

EXTRA EARLY PURPLE TOP MILAN.—One of the earliest sorts in cultivation. The bulb is very flat, of medium size, quite smooth, with a bright purple top; leaves few, short, and of light color growing very compact and making exceedingly small, strap leaved top. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

EARLY WHITE MILAN.—Much like the above, but it is pure white all over, instead of having purple top. Quite popular with gardeners. Per. pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

GOLDEN BALL or ORANGE JELLY.—A very beautiful and bright yellow turnip of medium size and of universally sweet and delicious flavor. It is hardy and one of the best of keepers. Flesh extremely firm and solid. Always brings a good price in the market. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

EARLY SNOWBALL.—A globe-shaped, white-skinned turnip, which is exceedingly productive. The flesh is fine grained, firm, and of very delicate flavor. It is one of the best keeping of the white fleshed sorts, very early, and particularly adapted for family or market use. Per pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

PURPLE TOP STRAP-LEAVED.—The standard for this part of the country for late planting. Round, flat, good sized, small top, with but few leaves, flavor good. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 45c, 5 lbs. or more, not prepaid. @ 32c.

RUTA BAGA.

Largely grown in the northern states and Canada for stock feeding, and for this purpose they are superior to turnips. Sow not later than June, in drills two feet apart, and thin out to eight inches in row.

MONARCH.—This grand, new and distinct form of the ruta бага, is, we believe, by far the best of all. The bulbs are of tankard shape, with very small neck, skin dark red above ground and yellow below, flesh rich yellow, fine grained and best quality. Only variety succeeding on our prairie soil. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

IMPROVED AMERICAN.—Very solid, fine quality, valuable for the table and for feeding stock; good shape; small neck; smooth skin; keeps well; a choice strain. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

WHITE SWEET GERMAN.—Large size, oval form and very solid, flesh pure, white and sweet. The best keeping variety. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

CARTER'S IMPROVED HARDY SWEDE.—Large size, excellent quality, and an immense yielder. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

A FEW TESTIMONIALS.

Every seed purchased from you has proved to be just as represented and I cannot say too much in their favor.—*Edwin S. Sparhawk, Greenwich, N. Y.*

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,*

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.*

I have used your seeds for four years and they are by far the best I ever used.—*Mrs. J. S. Leamer, Polo, Mo.*

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 of a bright orange-yellow color, somewhat russeted. For sweet pickles, pies or preserving, they are superb. Receipts for preparing for the table will be sent with each order. In the west and northwest, where fruit is scarce, they are becoming popular, as they are easily cultivated, wonderfully prolific, and can be used in every way in which you would use a peach except that they are not usually liked raw. Per pkt. 5c, oz. 15c, ¼ lb. 50c.



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. A good keeper, and with its beautiful scarlet color, early maturity and fine quality, is entitled to a place among garden favorites. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

EARLY WHITE EGG.—Very early and particularly desirable for the table. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 65c.

PURPLE TOP GLOBE.—Similar to above, except shape. This is the largest yielder of any turnip on the list, and very desirable for table use or stock. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c, 5 lbs. or more, not prepaid, 35c per lb.

YELLOW ABERDEEN.—Excellent for cattle feeding. Per pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

MIXED TURNIPS.—All the table varieties of turnips mixed in equal proportion. A desirable mixture for family use. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.



TOBACCO.

One ounce will sow about 25 square feet and produce plants for one acre. This is a paying crop and will do well in this State. The following varieties have been thoroughly tested in this climate. Early in the spring burn a brush pile on the ground to be used for seed bed. Then thoroughly pulverize the soil, digging and mixing in ashes. Sow seeds very shallow. When plants are six inches high transplant into rows four feet apart.

MAMMOTH MUSCATELLE.—Originated in the private gardens of the Shah of Persia. Very early, leaves long, small ribbed, and of finest possible texture. Pkt. 5c, oz. 25c, ¼ lb. 65c.

HESTER.—Ripens early; adaptable to a wide range of soil and latitude, therefore surest. Yellow. Per pkt. 5c, oz. 20c, ¼ lb. 75c.

BIG HAVANA.—Heavy cropper, fine texture, delightful flavor, earliest cigar variety to mature and ripen. Pkt. 5c, oz. 20c, ¼ lb. 65c.

CONNECTICUT SEED LEAF.—Well adapted to this climate. Per pkt. 5c, oz. 20c, ¼ lb. 65c.

Last year I sent an order to the Iowa Seed Co for seeds, etc., which was carefully and promptly filled and I never had seed to grow better, and all the vegetables were of first class quality.—*Julia Shores, Sweet Springs, Mo.*

Mr. T. R. Shieler, Hybrid, Mo., writes: "I have found your seeds the best in every respect and can endorse them to anybody using seeds. Two of my neighbors sent with me this year after seeing the result of your choice Iowa seed last year."





HERBS.

In making up your assortment of seeds for the year don't neglect to order a few varieties of herbs. They should have a place in every vegetable garden. Sow seed in shallow drills one foot apart, and when up thin out and transplant to a few inches apart. The chief point is to harvest them properly, which should be done on a dry day when not quite in full bloom, then dried quickly and packed closely, and entirely excluded from the air. Market gardeners will find our seed of Dill, Sage and other herbs very nice.

ANISE.....	Oz. 10c	HOREHOUND.....	Oz. 20c
BALM.....	Oz. 25c	LAVENDER.....	Oz. 15c
BROAD-LEAF THYME.....	Oz. 25c	OPIUM POPPY.....	Oz. 15c
BORAGE.....	Oz. 15c	ROSEMARY.....	Oz. 25c
CARAWAY.....	Oz. 10c	RUE.....	Oz. 15c
CORIANDER.....	Oz. 10c	SAFFRON.....	Oz. 15c
CATNIP.....	Oz. 50c	SWEET BASIL.....	Oz. 15c
CASTER OIL PLANT.....	Oz. 10c	SWEET MARJORAM.....	Oz. 15c
CHAMOMILE.....	Oz. \$1.50	SAGE.....	Oz. 10c, 1/4 lb. 35c
DILL.....	Oz. 10c, 1/4 lb. 20c	TANSY.....	Oz. 40c
DANDELION.....	Oz. 30c	WORMWOOD.....	Oz. 20c
FENNEL.....	Oz. 10c	SUMMER SAVORY.....	Oz. 10c
HYSSOP.....	Oz. 20c	SWEET WOODRUFF.....	Oz. 60c

MIXED VARIETIES.—A mixture of all the above. Nice garden assortment. Oz. 15c.

Any of the above, 5c per pkt., 6 for 25c.



TARRAGON.

SPEARMINT.—This is commonly called Mint and thousands of dollars worth of it is sold annually in New York, Boston and other large cities for flavoring salads, soups, garnishing meat, mint julep, etc. Persons who have once grown it will never be without it, and every garden should contain a small bed of it. Each 10c, 3 for 25c, doz. 75c.

VARIEGATED SPEARMINT.—A new showy variety of above which will be greatly appreciated. Each 25c, 6 for \$1.00.

PEPPERMINT.—All children know and like the flavor of peppermint, and it is largely grown for extracting. The plant has an agreeable odor and peculiar warm, pleasant flavor. It has high medicinal value and menthol, which is so greatly used, is extracted from it. Each 10c, 3 for 25c, doz. 75c.

CALANUS. (*Acorus*).—A well known plant sometimes called Sweet Flag. Leaves have an aromatic odor and root has a pungent taste and is used largely in the south for medicine. Grows best in wet soil. Each 20c.

ARTEMESIA or BROTA.—A hardy plant sometimes called "Old Man." The leaves have a strong resinous somewhat aromatic, pleasant odor, and bitter taste. Use similar to Wormwood. Each 15c, 3 for 40c, dozen \$1.25.

CATNIP or CATMINT.—Grows wild in parts of country. Used largely for infants. Each 10c, 3 for 25c, doz. 75c.

VARIEGATED MAMMOTH SAGE.—Beautifully variegated dark green and pure white color which makes it very ornamental plant; equal to Holt's in productiveness and flavor; new and scarce. Each 20c, 3 for 50c.

MONARDIA DIDYMA.—Also called Scarlet Bergamot and Oswego Tea. Ea. 10c, 3 for 25c, doz. 75c.

COLLECTION.

One plant each of any 10 herb and mint plants listed on this page
For Only \$1.00 Postpaid.

CURIOUS VEGETABLES.

CHINESE TEA.—We are sure that many of our customers will be glad to grow this as a curiosity if nothing else. The plant is of a shrubby nature, with beautiful shiny foliage and fragrant blossoms, requiring the same treatment as any tender shrub. Can be kept growing in pots through the winter. About 10,000 lbs. of tea per year is grown by one man in South Carolina. Pkt. 10c.

MOUGRI.—A wonderful vegetable from the Island of Java, which is greatly liked by the natives. Pods sometimes 2 to 3 feet long and are eaten raw or cooked. Taste like water cress. Pkt. 10c.

ORNAMENTAL MICE.—The vegetable curiosity which has attracted so much attention. It is a native of Central Africa, having a small, neat-growing vine and bears numerous oval fruits, clear green in color, two and a half to three inches long, which are always completely covered with long, light-green spines or hairs. It will be found useful for covering a sloping bank or rockery and will produce great numbers of curious fruits. Pkt. 10c.

CATERPILLARS.—Prostrate creeping plants with small yellow flowers, changing into "Vegetable Caterpillars." They are grown as curiosities, and sometimes, as a harmless practical joke, are put into salads for the purpose of startling those who are unacquainted with them. Pkt. 5c.

SNAILS.—Another singular variety having most oddly twisted seed-pods resembling snails. Children are much amused with these curious vegetables. Pkt. 5c.

COTTON.—Grown mainly as a curiosity in the north. By starting early in the house it produces cotton balls. Pkt. 5c, oz. 15c.

ALPINE STRAWBERRIES.—Handsome, globular bush form, with upright leaves and stalks. Sown early, they will produce bearing plants the first year. They are grown in large quantities in Europe, where they are EVERBEARING in the true sense of the word, producing fruit all summer. Have a peculiar rich flavor, superior to our native sorts. Perfectly hardy and easily grown from seed. Pkt. 10c.

MARTYNA.—Also called "Devils Claw" or "Unicorn Plant." A large ornamental plant, bearing beautiful flowers which are succeeded by large seed pods which when young are fine for pickling. Do not plant seed before the middle of May. Per pkt. 5c, oz. 30c.

EGYPTIAN LENTILS.—Largely used in Oriental countries as a principal article of diet. It was from these that the dish of pottage was made for which Esau sold his birthright to Jacob in Bible times, and many will be interested in them for that reason. Cultivate like peas. Pkt. 5c, oz. 10c, 1/4 lb. 30c, lb. 75c.

GARDEN PLANTS.

Every garden should contain an assortment of these hardy plants and a few square feet will supply the family. They are of value either for flavoring or medical use, and 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 should amount to at least 25c. We prepay the postage.

TARRAGON.—The true Tarragon is appreciated thoroughly by all who know it for the use of its aromatic leaves in seasoning salads, soups, stews, pickles, etc., and also for Tarragon Vinegar. The foliage, if cut in autumn, can be kept in dry state the same as other herbs in northern states give some protection during winter. Each 15c, 3 for 40c, doz. \$1.25.

CHIVES.—Perfectly hardy little perennial members of the onion tribe, and are grown entirely for their tops, which are used wherever the flavor of onion is required. Planted in small clumps in any common garden soil they grow readily. The tops appear very early in the spring and can be shorn throughout the season. Every garden should contain a few clumps. In New England it is considered indispensable for use in omelets. A few plants can be kept growing in the house during the winter if desired. Roots per bunch, 15c, 4 for 50c.

BALSAM MINT.—A well known hardy plant, also called Costmary or Alecost owing to its use in Old World for flavoring ale or beer. It has soft agreeable fragrance and is used for perfume and also for flavoring soups, salads, etc. Each 15c, 3 for 40c, doz. \$1.25.

TANSY.—A plant grown and used largely for its tonic, stomachic and other medicinal qualities. Has a strong peculiar odor and bitter taste. Each 15c, 3 for 35c, doz. \$1.00.

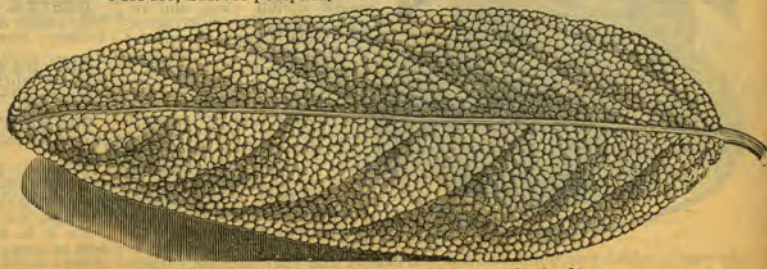
SASSAPARILLA.—A well known medicinal plant. Each 20c, doz. \$1.75.

GOLDEN VARIEGATED THYME.—A handsome and attractive variety of common garden Thyme. Has an agreeable aromatic odor, is used for sauces and flavoring. Each 10c, 3 for 25c, doz. 75c.

GENUINE PENNYROYAL.—Warm pungent somewhat aromatic taste; used extensively for medicinal purposes. Our plants are not the wild, intensely bitter variety. Forms dense mass of bright foliage ornamental for rockwork. Each 15c, 3 for 40c, doz. \$1.25.

ROSEMARY.—A plant used largely in the manufacture of Eau de Cologne. Also used for flavoring meats, stews, etc., and for garnishing. Each 10c, 3 for 25c, doz. 75c.

HOLT'S MAMMOTH SAGE.—Great improvement on common sage. Plants are very strong-growing, first season attaining one foot in height, and so spreading that single plant covers space 3 feet in diameter; leaves borne well above soil; very large and of unusual substance, strong in flavor and of superior quality. Single plant of Holt's Mammoth will yield more than a dozen of common sort; hardy; never runs to seed. Each 10c, 3 for 25c, doz. 75c postpaid.



HOLT'S MAMMOTH SAGE.—(Average size leaf.)

Vegetable Plants.

Well grown and lightly packed to carry long distance. They can be shipped fresh, well packed at the beds, on a day's notice.

Plants quoted "by mail" are sent at our expense, "by express" at the purchaser's. By our system of packing they are sure to arrive in good condition when shipped to any part of the United States. No charge for either 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. We sell 500 at the 1,000 rate.

CABBAGE PLANTS—EARLY VARIETIES—Ready April 10th.—Extra Early Express, Jersey Wakefield and Washington Wakefield. By mail, 100 75c; by express 100 50c; 1,000 \$3.50.

CABBAGE PLANTS—LATE VARIETIES—Ready May 15th.—Surehead, Premium Flat Dutch, Shortstem Drumhead and Perfection Drumhead Savoy. By mail, 100 75c; by express 100 40c; 1,000 \$2.00.

Cauliflower Plants—Ready April 15th.—Henderson's Snowball. By mail, doz. 25c; 100 \$1.25; by express 100 \$1.00; 1,000 \$7.00.

CELERY PLANTS—Ready May 1st.—Golden Dwarf, White Plume, Golden Self-Blanching and Rose Ribbed Self-Blanching. By mail, doz. 20c, 100 \$1.00; by express 100 60c, 1,000 \$4.00. After June 10th \$3.00 per 1,000.

EGG PLANTS—Ready May 1st.—New York Improved. By mail, doz. 25c; 100 \$1.25; by express 100 \$1.00.

PEPPER PLANTS—Ready May 1st.—Ruby King, Large Bell, and Red Chill. By mail, doz. 25c; 100 \$1.00; by express 100 75c.

TOMATO PLANTS—Ready May 1st.—Strong, transplanted plants. Dwarf Champion, Bond's Minnesota, Beauty, Matchless, Crimson Cushion and Golden Queen. By mail, doz. 25c; 100 \$1.00; by express 100 75c; 1,000 \$5.00. Not transplanted, 50c per 100; \$3.00 per 1,000.

GROUND CHERRY—Ready May 1st.—Improved Yellow. By mail, doz. 25c; 100 \$1.25. By express \$1.00 per 100.

SWEET POTATO PLANTS—Ready May 1st.—Plants strong, vigorous, well-rooted and hardy. We can furnish either the Yellow Nansemond or the Early Yellow Jersey. Write if you want a large lot. Prices vary. By mail, 100 50c; by express 100 25c; 1,000 \$2.00.

NEW VINELESS SWEET POTATO PLANTS—A novelty of great merit; is of dwarf bush-like growth. The tubers are yellow, of medium to large size, and lie compactly in the hill. When cooked of best possible quality. 75c per 100 postpaid; by express 100, 50c; 1,000 \$4.00.

HORSE RADISH SETS.

One of the most valuable vegetables for an appetizer and it is so much nicer to have it in your own garden and grate it freshly. We have the small roots or sets which may be planted at any time in the spring. Set them small end down in rows two feet apart and about eighteen inches apart in the row. They will do better in rich, loose soil set slanting and covered two inches. Nice sets 15 cts. per doz. 75 cts. per 100 postpaid, or 60 cts. per 100 by express.

GARLIC.

A species of onion propagated by offsets; used for flavoring soups, stews and other dishes. Divide a bulb into small parts and plant them in early spring in rows one foot apart, and from two to five inches between plants in the row. The crop matures in August, when it is harvested like onion. We furnish sets of the best and earliest variety at 40 cts. per lb. postpaid. By express 25 cts. per lb., 10 lbs. \$2.00.



GARLIC ROOTS.

BOTTOM ONION SETS



TOP ONION SETS



EGYPTIAN OR PERENNIAL ONION SETS

POTATO ONION SETS



YELLOW BOTTOM SETS.—Like above except the color. Per pt. 15c, qt. 30c, pk. 75c, bu. \$2.75.

RED BOTTOM SETS.—Like above except that they are of dark red color. Very hardy. Pt. 15c, qt. 30c, pk. 85c, bu. \$3.00.

WHITE MULTIPLIER ONION SETS.—Of a pure silvery white color, enormously productive, frequently producing as many as twenty bulbs in a single cluster from one bulb planted; of excellent quality and size for bunching; very early. Pt. 20c, qt. 40c, pk. \$1.25.



MUSHROOMS.

MUSHROOMS.

The ease and certainty with which a crop of mushrooms can be grown to perfection in an ordinary house cellar, wood-shed 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 special 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 the English mushroom spawn as generally the better both for the market garden and the private planter. Directions for culture sent on application. Per lb. 30c postpaid. 5 lbs. or more, not prepaid. At 15c per lb. Book on Mushroom Culture 10 cents.

RHUBARB ROOTS.

These may be planted early in spring or fall, setting the roots three feet apart each way. It requires but little labor to plant, and when once planted in good rich soil, it will remain in bearing condition for many years.

VICTORIA.—The standard for general use. Each 15c, 5 for 50c, doz \$1.00.

IDEAL MAMMOTH.—The largest and best variety. See description with novelties. Strong roots 40c, each.

GARDEN PLANTS.

Don't fail to set out also some of the perennial herb or garden plants offered on page 22.

ASPARAGUS ROOTS.

It pays to have a small bed of asparagus so as to gather it fresh from your garden, and when once set a bed will last many years. The roots which we offer are strong and healthy. Ask for circular giving directions for planting, etc.

PALMETTO and CONOVER'S COLOSSAL.—@ 35c per doz., \$1.25 per 100 postpaid. By express or freight, per 100 75c; 1,000 \$5.00.

COLUMBIAN MAMMOTH WHITE.—(See description on page 2.) 40c per doz.; \$1.50 per 100 postpaid. By express per 100 \$1.00; 1,000, \$6.50.

HOP ROOTS.

A few hop vines are nice on any place for making yeast, etc. The vine is somewhat ornamental for covering dead trees and outbuildings and in many parts of the country they are a profitable and staple crop. Each 15c; \$1.00 per doz.

ONION SETS.

Indispensable for early onions for bunching, as in a very few weeks they are ready for the table. While it is much cheaper to grow onions from seed still it is considerable work to keep them weeded and many of our customers who have only a small garden prefer to grow them from the sets, and gardeners plant large quantities of sets for the early spring market. Our stock is carefully grown and is very nice. Price by the pint and quart include payment of postage (deduct 15c per quart if by express.) Price by the peck and bushel is subject to market variation, and they are shipped at buyer's expense. Top sets are sold 28 lbs. per bushel; all other kinds are measured—stroke measure. If you want a large lot write for prices.

WHITE BOTTOM SETS.—The bottom onion sets grown from seed are the most popular of all and the finest and best for early use and large onions. White sets are most popular with gardeners. Pt. 20c, qt. 35c, pk. \$1.00, bu. \$3.50.

POTATO or MULTIPLIER ONION SETS.—Early cropper; matures quickly; mild and of sweet flavor. Pt. 20c, qt. 35c, pk. \$1.10, bu. \$3.75.

RED TOP or BOTTOM SETS.—These are the old-fashioned sets still largely called for in some sections. Pt. 20c, qt. 35c, pk. \$1.00, bu. \$3.50.

PERENNIAL or WINTER.—Also called Egyptian and Tree onions. May be set out in the spring, but are usually set in the fall. Come up year after year without the slightest winter protection, and produce the earliest spring onions. Pt. 15c, qt. 25c, pk. 50c, bu. \$1.50.

SELECTED FARM SEEDS.

HIGH GRADE Seed Grain

It costs more to grow a crop for seed purposes than the ordinary farmer can understand. It requires extra choice stock seed, special preparation of the land, special cultivation, great care in harvesting, cleaning, testing, preparing for shipment, bags, etc., etc., so that we are obliged to ask a considerable advance over market prices, but any intelligent farmer will agree with us that such pedigreed seed is well worth to him the price we ask for it.

**IT PAYS
TO SOW
THE BEST.**

*It costs less than 25 cents
an acre to use our carefully
selected seed corn.*

This is our great specialty and we claim to supply more farmers with seed corn each year than any firm in the United States, that means that the Iowa Seed Store may well be considered the world's headquarters for choice seed corn. We ship annually to every state in the Union and to almost every country in the world where they can grow corn, our largest foreign trade being in South Africa, Australia and New Zealand. We are in the center of the best corn growing country of the world, where the soil and climate are peculiarly adapted to its culture and now we can say without fear of contradiction, that for the season of 1902, we have the best supply of seed corn ever offered by any seed firm in the world. The necessity of planting the very best varieties is plain, and it will not pay you to experiment with the many sorts which we have tried and found worthless, nor to purchase from unscrupulous dealers. The varieties of field corn we offer are the best now in use. They were grown especially for seed purposes, and well matured, cured, carefully sorted by our seed corn experts, and shelled with great care. Choice seed corn is scarce this year, and prices a trifle higher, but it will not pay you to buy doubtful seed at any price. All our seed corn is carefully tested, and none sent out that we are not certain will grow well under proper conditions. If not satisfactory on arrival and examination, it may be returned and we will refund money. If a large quantity is wanted, ask for prices. No extra charge for bags.

THOROUGHbred SEED CORN

Introduced are now listed by almost all the prominent seedsmen in America, Europe and Australia, who handle this grain, and are the best everywhere. The value of the average corn crop can be fully doubled by planting our improved varieties. Don't be satisfied with a second grade even if you can save five or ten cents per acre in cost of seed (one bushel plants 8 acres) but send your order direct to Headquarters for Seed Corn and get the best.

THIRTY YEARS AGO

when we began in the seed business, farmers would not buy seed corn. Every man saved his own seed, and it was considered the height of extravagance and folly to buy seed corn. In 1881 we introduced a new variety and those few who were venturesome enough to try it were greatly pleased, but still the sale was very limited. In 1892 we originated and introduced the Iowa Gold Mine which sprang at once into prominence, as it was, and is yet the deepest grained and purest yellow variety ever brought out. Since that time we have introduced Iowa Silver Mine, Early Longfellow Dent, Improved Early Mastodon, Lenoche's Homestead, Star Leaming, New Century Wonder, Profit and Farmer's Reliance which have all become very popular and are considered everywhere the best in their class.

IT PAYS TO PLANT GOOD SEED.

TESTED SEED CORN.

Will it grow? Is the first question about seed corn and it may interest you to know how our corn is handled. When brought in from the farm each ear is taken in hand by a seed corn expert and critically examined. After passing the first examination it goes to another man and is looked over the second time and what few ears remain that are not fully up to standard in color, shape, size or quality are thrown out. It is then shelled with great care and carefully tested in soil and also given a severe test in cold water. The tests range this year from 92 to 100 per cent, most of them being 96 to 99.

Seed Corn handled in this way is cheap at any price, but this year it costs you only about

25 Cents per Acre
to use our seed corn.

There is no question but that
seeds

GROWN IN IOWA

are the best,

That is now quite generally admitted on many items. The reason for this is that the soil and climate here are well adapted to the perfect growth and maturity of the crop. Seeds grown here are better matured and are of stronger growth and vitality than those grown either north or south, and

**WILL
PRODUCE
BETTER CROPS**

*Do you deem it wise to risk
doubtful corn when good
seed is so cheap.*

IT PAYS TO THINK.

**JUST CONSIDER THIS FOR
A MINUTE.**

The corn crop of Iowa averages 300,000,000 bushels, worth \$75,000,000. If our improved varieties were grown exclusively the crop would have been fully 20 per cent more and worth 10 per cent higher value, a difference of \$24,000,000.

**NO MATTER WHERE
YOU LIVE,**

whether in Maine or California, Canada or Mexico it will pay you to plant Iowa Seed Co.'s Choice Seed Corn

This Year.

IOWA SILVER MINE CORN.

THE GREAT \$1,000.00 CORN—YIELDS 215 BUSHEL PER ACRE.

The most marvelous variety of corn ever offered, and one which will surprise everyone who plants it. Thousands of farmers have tried it and doubt their crops and also made money rapidly by selling seed to their less enterprising neighbors. It is revolutionizing the corn growing of the country. Just think of this wonderful yield, **215 BUSHEL PER ACRE WITH ORDINARY CULTURE.** We don't blame some practical farmers for looking incredulous when this is mentioned; we did not believe it ourselves until we had measured the ground and proved conclusively that the report was correct. The seed corn trade is our great specialty, and we claim to be corn experts, and in the spring of 1895, when we first saw this corn, we purchased the entire stock for \$1,000.00 cash. **AN OFFER OF \$10. PER POUND** would not have induced us to sell all we had of it, as we wanted to save it for our customers. Our judgment was correct, as proven by the crops, which were the most marvelous ever grown. Just think of it! The average corn crop of the United States is only 28 bushels per acre, and there was more than seven times this amount of Iowa Silver Mine grown on one acre. Would you like to grow this kind of a crop? Plant Iowa Silver Mine Corn—plant your whole farm to it. Adopt our **NEW METHOD OF CULTURE, WHICH WILL BE SENT FREE** to every one ordering this variety of seed corn from us.

DESCRIPTION.—Stalk grows to a height of about seven or eight feet, and sets the ears about three and one-half to four feet from the ground, just the right height for easy picking. One peculiarity we noticed in going over the field was that there were **NO BARREN STALKS**, every one had an ear, many stalks had two or three good ears, and the originator says that has been characteristic every year that he has grown it. The type is very even. Ears measuring from **TEN TO TWELVE INCHES IN LENGTH** and weighing one and one-half 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 a small white cob, and the ears are well filled out over the tip. It is early, maturing in less than ninety-five days, and never has been caught by the frost. The cob dries out rapidly, so that it is ready for market **EARLIER THAN ANY OTHER WHITE FIELD CORN** in existence. In its yield it will surpass all other varieties of any color. Seventy pounds in the ear will make sixty-two pounds shelled. It is adapted to a wider range of soil and climate than any corn ever offered. From Minnesota to Florida, from Massachusetts to California, it will yield a paying crop where other varieties are grown at a loss. It is in every way a distinct type of corn and possesses many of the features which have made the Iowa Gold Mine so popular, while the ear is larger. It is hardy and a wonderful resister of drouth.

ITS PRIZE 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 other 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 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, and **GRAND SWEEPSTAKES FOR THE BEST CORN** of any color, competition open to the world. In 1899 the Illinois State Agricultural Society offered three large prizes for the largest corn crop grown on an acre, and the Iowa Silver Mine captured all three of them with crops of **196, 176, AND 154 BUSHEL PER ACRE.** No other corn of any color can compare with it in wonderful productiveness.

Read the *Astonishing Record* of our own prize contest: It produced 215 bushels per acre in Scott county, Iowa; 211 bushels per acre in Indiana; 201 bushels per acre in Arkansas; 178 bushels per acre in Illinois; 145 bushels per acre in Nebraska; 144 bushels per acre in Ohio; 137 bushels per acre in Texas.

Average of above is 176 Bushels Shelled Corn per Acre.

Has Produced Immense Crops Everywhere.

Our Customers all Rejoice with us.

NOW FOR 1902.—To every one who orders Iowa Silver Mine Seed Corn from us we will send free full information as to how 215 bushels of corn were grown on one acre and instructions so that you can do as well. There is money in farming if you only know how. Don't be a snail; be progressive; adopt new methods and use good seed. Figure out what your profit would be if your crop were that large. It will pay you to plant your entire field with this variety. Get your neighbors to order with you.

WE ARE THE INTRODUCERS

And if you want pure Iowa Silver Mine Corn, it must be purchased from us. We have proof that other dealers are copying our descriptions and selling common white corn as Iowa Silver Mine. Cost of pure seed is almost nothing (only about 20 cents per acre). One bushel per acre added to your crop will pay for it, and you can't afford to use doubtful seed. The demand for white corn is increasing yearly and it usually commands a higher price, especially for shipment to Europe. Tests have proven it fully equal, if not superior to yellow for fattening cattle and hogs.

ORDER EARLY.

There is Sure to be a Great Demand.

PRICE: Postpaid or by Express Prepaid: Per pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant an acre,) \$1.00. Specimen ears 25c each, postpaid. By Freight or Express, Purchaser Paying Charges—Per pk. 65c, bushel \$2.00, 2 bushels or more @ \$1.75, 10 bu. or more @ \$1.50.

HURRAH!!

—THE—

IOWA SILVER MINE

Was again victorious at the Illinois State Fair, winning **FIRST PRIZE** with a crop of

205 Bushels per Acre.

At the Peoria Corn Exhibition it captured more premiums than all other varieties collectively.





Section of Ear, and man who grew prize crop
—215 bushels per acre.

YOU CAN'T GROW

200 BUSHELS CORN PER ACRE

Of course you can't. You know it can't be grown because you never grew even 100 bushels per acre; because your father always said that it was impossible to grow that amount; because when your neighbors grew 60 or 70 bushels per acre they considered it an immense crop; because the average crop of corn in the U. S. is only 29 bushels per acre, etc., etc. As long as you continue planting the old varieties you cannot expect to grow any better crop.

Read the Reports of Large Crops

In other parts of this book. These crops were grown by honest, reliable men. Your father was right in his statement, so far as the old varieties are concerned, but the Iowa Silver Mine is not like them. It has no barren stalks, every stalk bears at least one large ear, many have two ears and some bear three ears. You can grow 200 bushels per acre if you plant the right variety, and please remember that even one bushel per acre added to your crop pays the cost of the seed.

\$10,000.00 IN PRIZES.

Everywhere the Iowa Silver Mine Captures Prizes.

Over all other varieties, and it is estimated that they have amounted to over \$10,000.00. At the great Illinois Corn Show it won eleven (11) of the best prizes offered, in competition with varieties of every color, kind and description, competition open to the world. In 1896 we offered \$500.00 in prizes for the largest yield and the first prize was won by Mr. Claus Joehinsen, a well to do German farmer of Scott county, Iowa, with a yield of 215 bushels of shelled corn per acre. His written report was signed, also by two neighbors, who helped him to measure the ground and gather the corn, and it was weighed by the public weighmaster who also made a written report. To verify this the president of the Iowa Seed Co., personally inspected and measured the field and estimated carefully the corn in the crib.

READ WHAT THE PEOPLE SAY.

The Best on a 22,000 Acre Farm.—"On this estate, comprising about 22,000 acres, there was grown this year nearly 10,000 acres of corn including almost all known standard sorts suited to this latitude, and we consider that of the white varieties the SILVER MINE is the purest and in all respect the most satisfactory of all."—W. A. Bichel, Manager.

"Your famous IOWA SILVER MINE CORN yielded a big crop this year."—Lewis Frater, Escambia county, Florida.

"The IOWA SILVER MINE is all you represent it to be. It ripens in 90 days and produced ears 10 inches long and 7 inches in circumference."—H. R. Burton, Butler county, Penn.

Nov. 8, 1901.—I have been growing your IOWA SILVER MINE CORN for three years past and it yields fully 10 bushels per acre more than any other corn here this year, in spite of the dry weather.—E. W. Farnell, Story Co., Iowa.

Nov. 4, 1901.—The IOWA SILVER MINE purchased from you was planted one month after planting my native corn, but it ripened by the time the native corn was in roasting ear and made fifty per cent larger crop.—W. G. Jordan, Chickasaw county, Indian Ter.

I raised two hundred and twelve bushels of your IOWA SILVER MINE CORN on 1½ acres of bottom land. How is that?—Perry Hartman, Boone Co., Iowa.

The IOWA SILVER MINE CORN yielded 197 bushels of ear corn on one carefully measured acre. The yield was very nearly as large on my entire field of eight acres of this variety.—A. L. Gher, Boone Co., Indiana.

The IOWA SILVER MINE is the finest corn I ever raised. It is simply grand.—German Zirz, Elk county, Kansas.

The IOWA SILVER MINE CORN will do as well here as any variety. It was cut down twice by frost this year, but still it yielded 75 bushels per acre.—J. E. Olson, Nicolett county, Minn.

The seeds purchased from you produced the finest yields ever seen in our county. The IOWA SILVER MINE CORN yielded 188 bushels to the acre.—W. A. Johnson, Mississippi county, Arkansas.

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 this year.—S. S. Troxel, Benton county, Iowa.

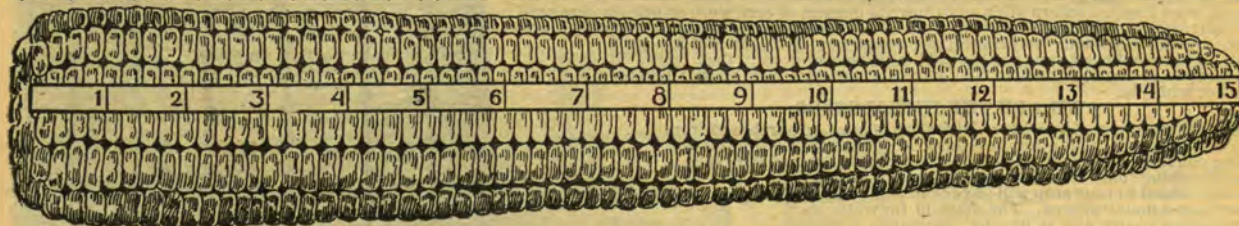
Your IOWA SILVER MINE CORN grew splendidly and ripened sufficiently to make seed corn 100 miles north of St. Paul.—Francis Maddox, Crow Wing county, Minn.

My crop of IOWA SILVER MINE CORN was greatly injured by a storm in July, but still it yielded 108 bushels per acre, and 12 ears selected from it took three first prizes at state fairs. It is a world beater.—S. D. Maddock, Champagne county, Ill.

The 70 acres of corn we planted with seed from your firm is the best field of corn in this county. It runs from two to five ears on each stalk.—D. M. McKindley, Kane county, Ill.

Last spring I planted one peck of your IOWA SILVER MINE CORN and gathered 100 bushels of the finest corn I ever saw.—J. Clay Fox, Rock county, Neb.

Your IOWA SILVER MINE is as fine a corn as I ever saw grow. It has large, wellshaped ears, and filled out clear to the end of cob. I planted the 10th of May and it was well matured by the 15th of August.—Chas. W. Richards, Woodbury county, Iowa.



LONGFELLOW DENT.

EARLY LONGFELLOW DENT CORN.

INTRODUCED BY THE IOWA SEED CO.

There is no telling when we will have a short season and early killing frost in the fall, and in such a case farmers who have their fields planted with an early maturing variety are truly fortunate. The trouble with most extra early sorts, however, is that they are too small and "nubbiny," but this new variety is of unusual length, our illustration showing an ear 15 inches long, but the average is about 12 inches. Its peculiar shape, which is different from any other sort, suggests the name. It matures fully as early as Pride of the North, is double the size and yields a far larger crop, which is ripe and hard before there is a thought of frost, thus making a variety that it will pay to "tie to." Stalks are of medium height, strong and not easily blown down. Grain is not as deep as some of our other varieties, but it is the corn of corns for selling on the market, as a wagon load of it is as pretty as a picture. We recommend it highly to customers in Northern Iowa, Minnesota, the Dakotas and other northern states, feeling sure that it will please every one. Order early as there is sure to be a great demand. Per pkt. 5c. lb. 25c, 3 lbs. 60c. postpaid. By freight, per pk. 65c, bu. \$2.00, 2 bus. or more at \$1.75, 10 bus. or more, at \$1.50.

I was much pleased with your Early Longfellow Dent Corn this year. It was very early and yielded more bushels per acre than either of the other three varieties of corn that I grew. The ears were long, well filled out and solid. I consider it an exceptionally good corn for feeding hogs and prefer it to the deep grain sorts which are more apt to mildew. It also shells out better than one would expect from the looks of the ear, and is the easiest corn to husk I have ever grown.—T. J. Lee.

"The Longfellow Dent Corn is a No. 1 variety and it did remarkably well for me. The seed bought of you produced large, heavy ears, weighing 1½ pounds."—John Osborn, Meeker county, Minn.

"Your Early Longfellow Dent Corn has done first-rate with me and is a perfectly safe corn to plant in this latitude."—J. D. Wheaton, Lyon county, Iowa.

"I obtained seed of your Early Longfellow Dent Corn and was much pleased with the result. It was fully as early as Pride of the North and yielded fully double as much."—Stephen Harvey, Polk county, Iowa.

"I will plant most of my crop next year with your Longfellow Dent Corn as it proved so satisfactory this season."—A. A. Wagner, O'Brien county, Iowa.

"Sept. 13, 1901. Both the Early Longfellow Dent and Mastadon Corn purchased from you this year, was dandy varieties and will yield 50 bushels per acre this season for me."—H. C. Ritters, Palo Alto county, Iowa.

"Oct. 30, 1901.—Your Early Longfellow Dent was a winner in this locality. Many stalks had two good ears and the ears were 10 to 14 inches long."—E. E. Crandall, Lenawee county, Mich.

BOOK OF CORN.

A new and complete treatise on the culture and uses of corn, of great value to farmers in all parts of the world where corn can be grown. If you grow even ten acres of corn you cannot afford to be without this book. It is a large book of about 400 pages. Well bound. Price \$2.00 postpaid.

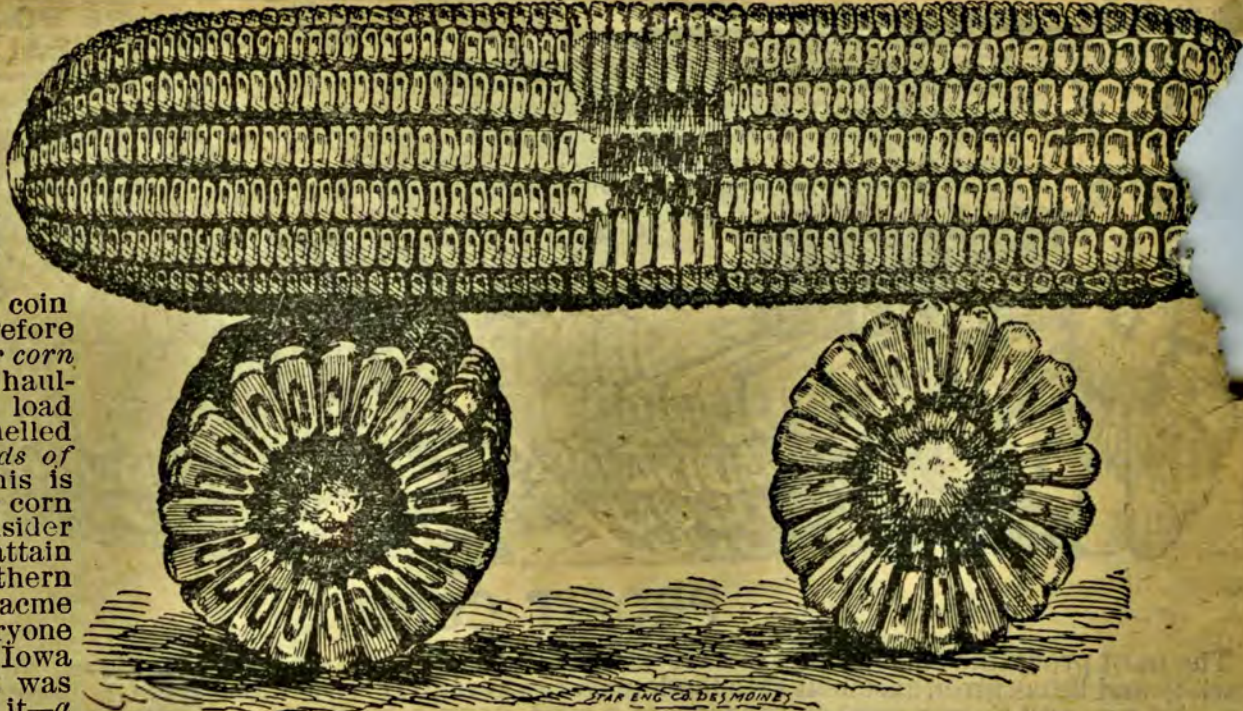
FORAGE CROPS.

How to cultivate harvest and use them. An intensely practical, reliable and useful book of 280 pages. Price \$1.00 postpaid.

IOWA GOLD MINE CORN.

BEST VARIETY OF YELLOW CORN IN THE WORLD

Everyone who has tried it is enthusiastic in the praise of this splendid new variety which we introduced in 1892. Iowa is not called a gold mining state, but in this grand new variety farmers of this country will find a veritable mine of wealth. It has received the most cordial endorsement as the best and most profitable variety ever grown. It is early ripening only a few days later than Pride of the North; ears are not large, but of good size and symmetrical; color a bright golden yellow, as handsome as a twenty dollar gold coin just from the mint; grain is very deep, cob small, and therefore dries out very quickly as soon as ripe. *Seventy pounds of ear corn makes sixty-two to sixty-three pounds of shelled corn*, and in hauling to market it weighs out five bushels more to the wagon load than common varieties in the same size wagon. We have shelled selected ears of this variety which produced *sixty-four pounds of shelled corn and only six pounds of cobs to the bushel*. This is an unparalleled record. It cannot be equaled by any other corn in the world. Thousands of our customers say that they consider it the *ne plus ultra* in corn; that it would be impossible to attain any nearer perfection. It matures perfectly, even in Southern Minnesota. We can most confidently recommend it as the acme of perfection and stake our reputation on its pleasing everyone who tries it. One carload lot of four hundred bushels of Iowa Gold Mine Corn was carefully weighed, and after shelling it was reweighed and there was just 456 bushels. Just think of it—a gain of 14 bushels to the 100! Remember, if you want pure Iowa Gold Mine Corn you must purchase it direct from us. If you purchase from your local dealer, insist on seeing that our label is in every bag, plainly marked IOWA SEED COMPANY. It will pay you to change your seed, and don't fail to at least see a sample of Iowa Gold Mine before buying elsewhere. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight, pk. 60c, bu. \$2.00, 2 bu. or more @ \$1.75 per bu., 10 bu. or more @ \$1.50.



IOWA GOLD MINE CORN. (From a Photograph.)

ORDER EARLY.

LAST YEAR we had an immense supply of IOWA GOLD MINE, but it was exhausted long before the season was over and we were compelled to refuse many orders for it.



GRAINS OF GOLD

We want to urge every farmer to send for

A SAMPLE OF OUR

IOWA GOLD MINE CORN.

Just as soon as he receives this catalogue. Don't be satisfied with old worn out mixed varieties. Compare these grains of gold with the corn you are growing, and if you find this better, order a supply early.



The Iowa Gold Mine Corn yielded three times as much as any other variety. Think it is the best corn I have ever seen.—C. H. Shearer, McHenry Co., Ill.

Have just harvested the Iowa Gold Mine and it is a grand corn. Our farmer is enthusiastic over it. The type and color are perfect.—J. H. Beagley, Ford Co., Ill.

The Iowa Gold Mine Corn is the best I ever saw and it is well adapted to this climate.—S. F. Reynolds, Dane Co., Wis.

The Iowa Gold Mine Corn comes the nearest being all corn and no cob of any variety I ever grew.—H. F. Jacobs, Calhoun Co., Ia.

I grew 480 bushels of your Iowa Gold Mine Corn on four acres last year. An average of 120 BUSHELS TO THE ACRE.—W. W. Preston, Warren Co., Iowa.

Your Iowa Gold Mine was early, stood the drouth remarkably well and produced 500 bushels of good, sound corn. My neighbors with as good, or better conditions, either failed entirely or had only soft corn. I never made a more profitable investment in my life.—F. H. Furneaux, Arapahoe Co., Colo.

The Iowa Gold Mine has done splendidly here in northwestern Iowa, and is now (Sept. 1) out of danger of frost. It is a yellow dent variety with large well formed ears, much larger and finer than our native corn in this part of the state.—P. R. Bailey, O'Brien Co., Iowa.

STAR LEAMING.—A great improvement on the old Leaming. The ears are large and handsome, with deep, large grain of rich deep orange color, on a medium to small cob. It grows to medium height, setting the ears about four feet from the ground, husks easily, and the corn is snug on the cob, thus making a very solid, heavy feeling ear. Surface is quite smooth for dent corn. It is very productive, and it is the ideal variety for selling in the ear; matures in 100 days. We sold many thousands of bushels of this variety last season, and expect to exceed the record this spring. Don't plant common corn when you can obtain this variety so cheap. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight, pk. 60c, bu. \$1.75, 2 bu. or more @ \$1.50, 10 bu. or more @ \$1.40.



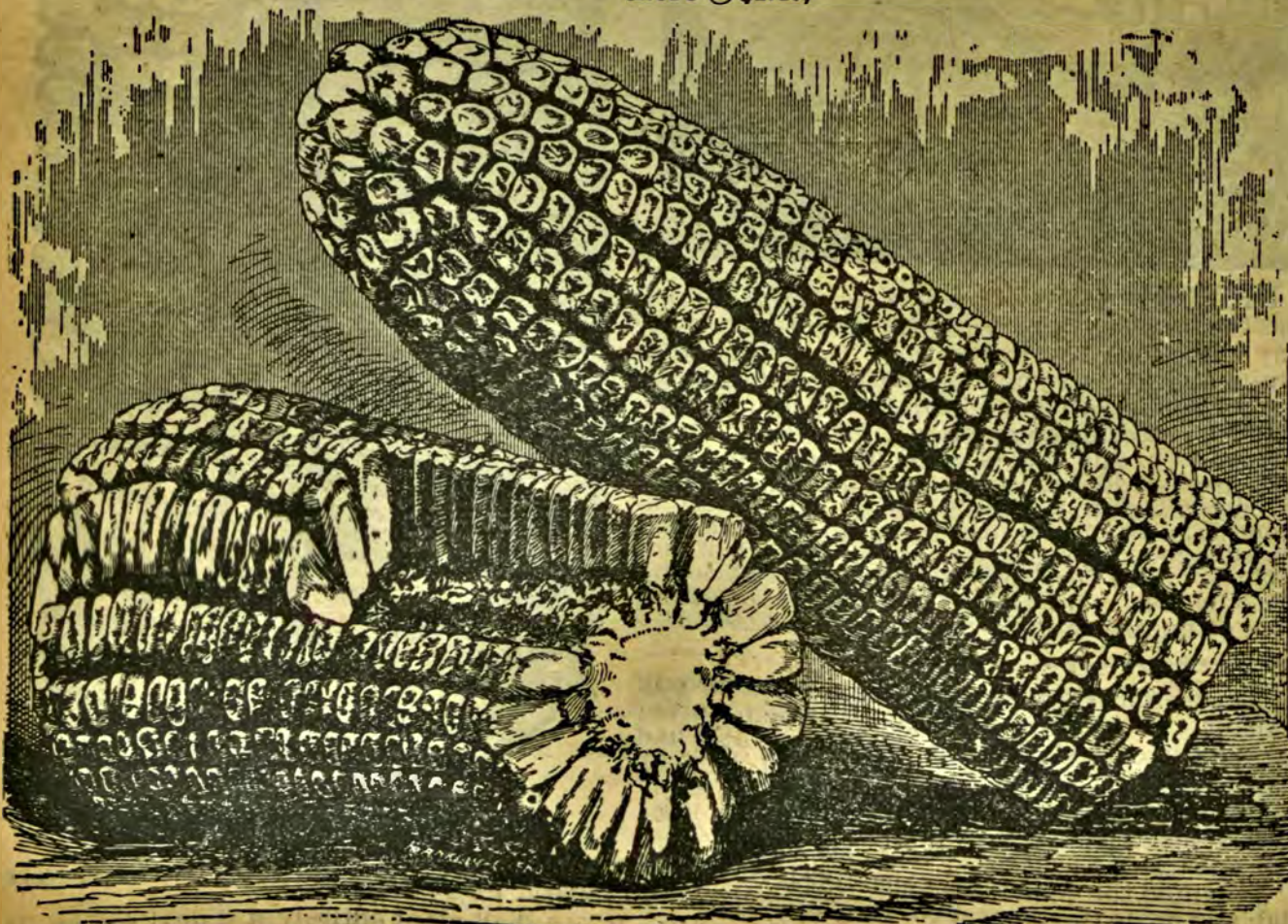
STAR LEAMING.

LEGAL TENDER.—This is now the most prominent late variety of yellow dent corn in the country. It is the result of about ten years' selection by a seed corn specialist in Iowa, and has taken first premium at many state and county fairs. The corn is productive, and of uniform pure yellow color, ear very large and long and a deep grain on a small cob, while the stalk does not grow too large. The introducer says: "Our ideal ear is an ear two-thirds as large around as it is long, containing sixteen to twenty rows, and small shank. The kernels are deep, the cob is small at the butt and the ear holds its bigness toward the point until near tapering off. It should be capped over and the kernels should hold their bigness toward the point, and the butt run out straight and not crinkle." It matures in about 115 days, but we do not recommend it for the extreme northern portion of this state. Our stock of this is extra select, grown from the originator's stock seed, but improved in earliness by being grown in a more northern latitude. Pkt. 5c, lb. 25c, 3 lbs. 60c. By freight per peck 60c, bu. \$1.75, 2 bu. or more @ \$1.50, 10 bu. or more @ \$1.40.

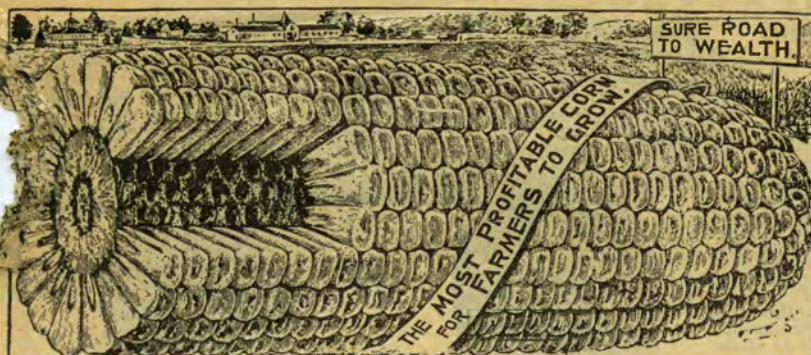
"Your Legal Tender Corn took first premium for the best yellow corn at the Cass county fair. It was very fine.—F. B. Van Orman, Cass county, Iowa.

"We purchased of you last spring 2 bushels of Star Leaming and 1 of Legal Tender seed corn and we had good results. Get good seed corn of the Iowa Seed Co and success is insured."—Hill & Diggs, Madison Co.

The four varieties of corn received from you grew enormously large, matured early and did more than could be expected. Your seed corn should be planted by every farmer in this state.—J. W. Church, Wilkes Co., N. C.



LEGAL TENDER.



PROFIT CORN.

The most profitable corn for any farmer who has live stock to feed. We introduced this grand new variety and it has given excellent satisfaction everywhere. It originated from a carefully prepared cross of two well known sorts on the farm of a seed grower in Madison county, Iowa, which is the county that produced our now world famous Iowa Gold Mine. For nearly 20 years this corn has been bred up until now it is claimed to be **The Heaviest and most solid Ear of any variety in Existence,** and of good size.

It ain't a Handsome Corn, but its Got Money in it.

The color of the surface of the ear is variegated from light sulphur to bright orange, being agreeably diversified, making it particularly striking in appearance. With some this might be an objection if they desire to sell it in the ear, but when shelled it looks quite uniform in color as the variation is simply in color of the cap or top of grain. The purpose of the originator was to fix a type of field corn for profit, superior to any in cultivation, and profit in corn growing, as we understand it, means the largest crop of **SHELLED CORN** (not cobs) maturing in a reasonably short time, and of the best quality. Ears of large size, grain is very deep, cob small and dries out rapidly thus making it a sure cropper. The corn is so solid on cob that the kernels appear as if driven in and it shells out immensely. Will produce a larger crop on poor soil than any variety we know of and with good culture will astonish everybody. It is the corn to plant and we want all our customers to try it. *You cannot get it elsewhere as we are not wholesaling it this season. Order early as our stock is limited.* Pkt. 5c, lb. 25c, 3 lbs. 60c postpaid. By freight, pk. 65c, bu. \$2.00, 2 bu. or more @ \$1.75; 10 bu. or more @ \$1.60.

"I was much pleased with your Profit Corn this season as it gave an exceedingly large yield."—J. H. Luddington, Ashtabula county, Ohio.

IMPROVED EARLY MASTODON.—For about fifteen years past Clark's Early Mastodon corn has been a prominent variety, owing to its wonderful productiveness and large sized ear. In the celebrated *American Agriculturist's* corn contest in 1889, the Early Mastodon out-yielded every other yellow corn in America, Mr. Alfred Rose, of New York state, raising 213 bushels of shelled corn to the acre. It was, however, rather late, and was frequently caught and greatly injured by early frost. For nine years past, however, one of our most careful, painstaking seed growers in central Iowa has been selecting it to obtain the earliest maturity possible and still retain its large sized ear and great productiveness. His success has been remarkable, and we now have an improved variety with mammoth ear, much smaller cob and deep grain. The butt of the ear is not so disproportionately large, it dries out quickly and ripens easily in 110 days, while it required 130 days for the old variety. Ears are quite even in size and four of them weighing 6½ lbs. took first prize at fair. Farmers who delight in a handsome, large eared variety, will be pleased with the Mastodon, and when the crop is harvested no one can fail to be delighted with the yield. The corn has a strong, rapid, vigorous growth, and is also desirable for fodder purposes. Pkt. 5c, lb. 25c, 3 lbs. 60c. By freight, pk. 65c, bu. \$2.00, 2 bu. or more @ \$1.75, 10 bu. or more @ \$1.50.

CHAMPION WHITE PEARL.—An old favorite with many farmers, especially in the south. It produces a nice, medium-sized, smooth, heavy, solid ear of white corn and matures in 115 to 120 days. Was the most popular of all white corn prior to the introduction of Iowa Silver Mine. Largely used for milling purposes. Pkt. 5c, lb. 25c, 3 lbs. 60c. By freight pk. 60c, bu. \$1.75, 2 bu. or more @ \$1.50, 10 bu. or more @ \$1.40.

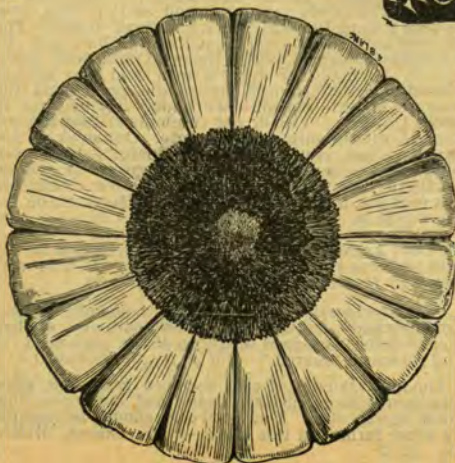


HICKORY KING.—A white, field corn, which has the largest grains, with the smallest cob, of any white corn ever introduced. So large are the grains and so extremely small the cob that on an ear broken in half a single grain will almost cover the cob section completely. Of strong, vigorous growth, and yields splendid crops on light soil, and is a desirable variety where the season is long enough to mature it, but we do not recommend it north of southern Iowa, although it produced a good crop this year 40 miles north of Des Moines. Seed very scarce this year. Pkt. 5c, lb. 25c, 3 lbs. 60c. By freight, per pk. 90c, bu. \$3.00, 2 bu. or more @ \$2.75, 10 bu. or more @ \$2.50.

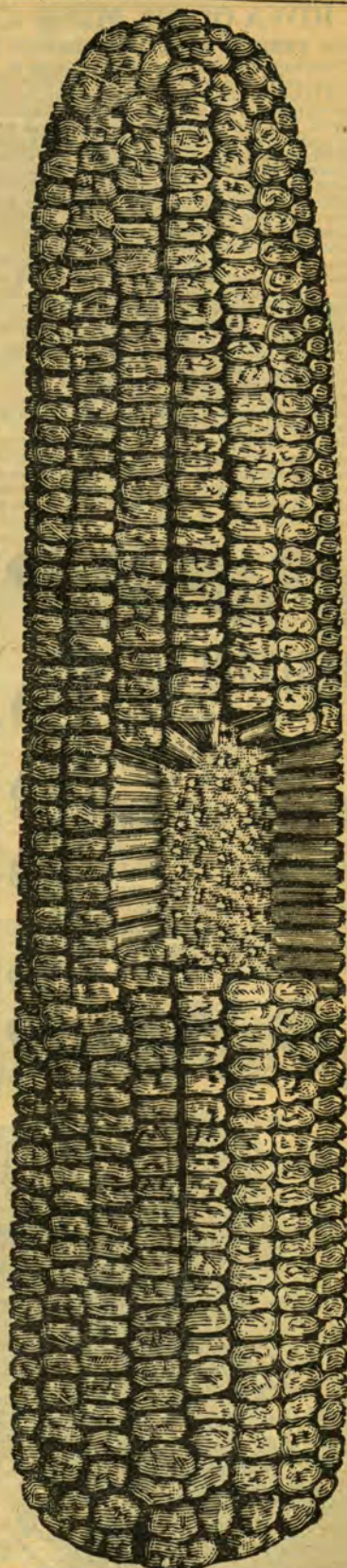
"Your Profit Corn proved to be a great drouth resister. Every stalk had a good ear, while other varieties of corn yielded but very little. If I had planted my fifty acres with Profit even at your high price as I thought for seed, I would be many dollars ahead on my crop."—G. C. Bothell, Webster County, Neb.

"I planted the Mastodon Corn received from you on May 26th and it grew ten to twelve feet high and made the biggest ears I ever saw."—I. C. Tapley, Floyd county, Iowa.

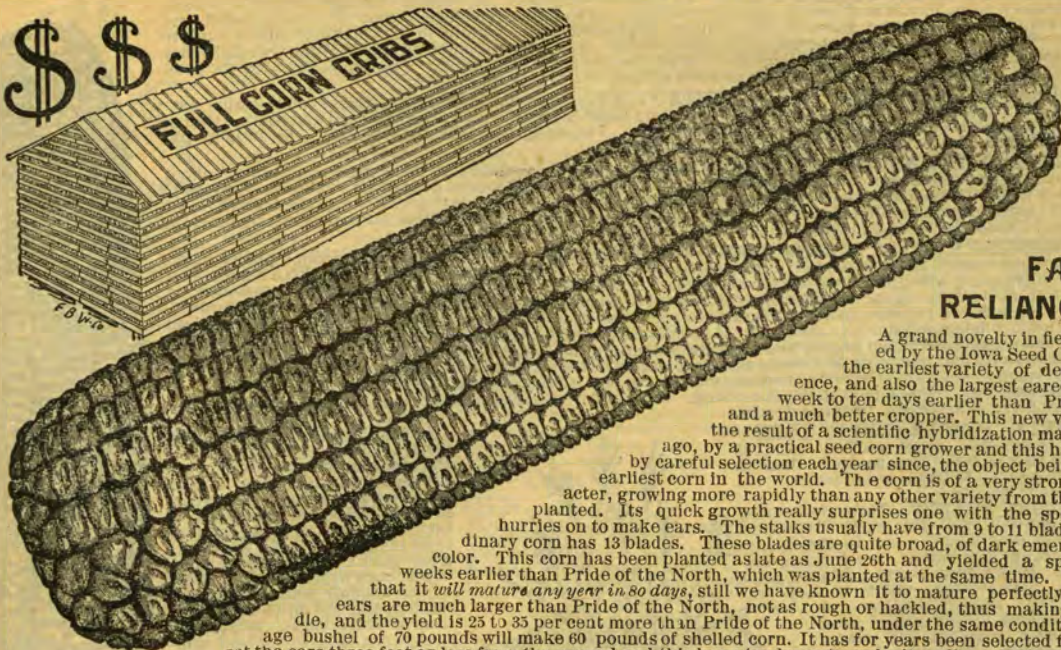
A Guthrie county farmer says of Profit: "I like it and shall plant entirely of it next season. It is solid and heavy and feels profitable while you are husking it. Matured better than any other corn there being less loose or chaffy ears than usual with other varieties this season."



CHAMPION WHITE PEARL.



IMPROVED EARLY MASTODON.



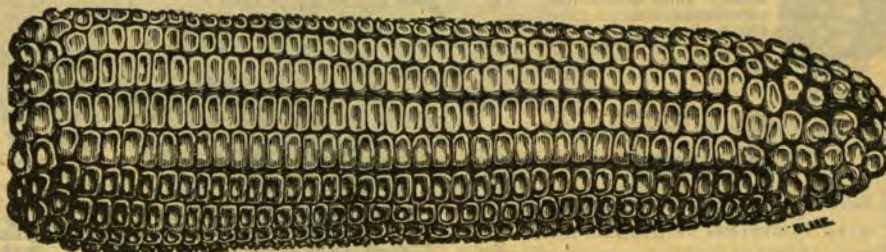
FARMER'S RELIANCE CORN.

A grand novelty in field corn introduced by the Iowa Seed Co. and it is by far the earliest variety of dent corn in existence, and also the largest eared early corn. A week to ten days earlier than Pride of the North and a much better cropper. This new variety of corn is the result of a scientific hybridization made fifteen years ago, by a practical seed corn grower and this has been followed by careful selection each year since, the object being to obtain the earliest corn in the world. The corn is of a very strong, vigorous character, growing more rapidly than any other variety from the day that 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 9 to 11 blades while most ordinary corn has 13 blades. These blades are quite broad, of dark emerald green healthy color. This corn has been planted as late as June 26th and yielded a splendid crop two weeks earlier than Pride of the North, which was planted at the same time. While our claim that it will mature any year in 80 days, still we have known it to mature perfectly in 75 days. The ears are much larger than Pride of the North, not as rough or huddled, thus making it easier to handle, and the yield is 25 to 35 per cent more than Pride of the North, under the same conditions. An average bushel of 70 pounds will make 60 pounds of shelled corn. It has for years been selected from stalks which set the ears three feet or less from the ground and this has a tendency to make it earlier. Fully 40 per cent of the 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. Don't fail to plant at least a small quantity, and thus obtain your seed for another season. Per lb. 25c; 3 lb. 60c, postpaid. By freight or express, pk. 75c, ½ bu. \$1.25; bu. \$2.25; 2 bu. or more @ \$2.00; 10 bu. or more @ \$1.75.

H. H. Connell says: "Your Farmers' Reliance is the earliest corn I have ever seen or grown, maturing in 80 days, being ten days to two weeks earlier than Pride of the North, and yields double as much per acre."

TWO WAYS.

Every corn grower who strives to increase his corn crop has two ways to do it. He can increase the yield per acre, or he can put in more acres. The farmer who wants more corn will do well to study the first method before he decides on the latter. Good seed is the first essential to a bigger yield of better corn, therefore plant the Iowa Seed Co.'s improved varieties and add 20 to 50 per cent to your crop.



REED'S YELLOW DENT.

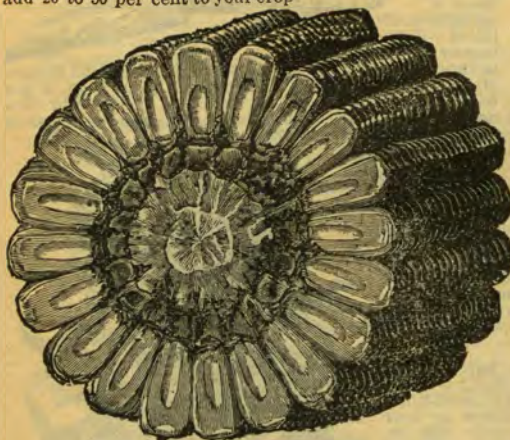
REED'S YELLOW DENT.—An old standard variety of corn which has taken many prizes at the Illinois State Fair and Illinois State Corn Show as the best yellow sort for general use. Ears 10 to 11 inches long, of good shape, heavy and deep grained. Of bright yellow color and yields excellently. Matures in 110 days. Pkt. 5c, lb. 25c, 3 lbs. 60c. By freight, pk. 60c, bu. \$1.75, 2 bu. or more @ \$1.60, 10 bu. or more @ \$1.50.

LENOCHER'S HOMESTEAD.—Well known in Iowa for having won the Iowa Homestead prize of \$100.00, yielding 345 bushels on three acres with ordinary culture. It was also awarded a diploma at the World's Fair. This variety originated with Mr. G. E. Lenoche, one of the most practical corn growers and stock feeders in the state, and was named and introduced by the Iowa Seed Company. Color varies from dark reddish yellow to almost black, but most of the ears are dark red with light colored cap, grain deep and huddled. Ear somewhat above the average size; a small cob which dries out rapidly so that it has never been caught by frost. We believe it to be a safe corn to plant, makes excellent corn for feeding, although its color is sometimes objectionable for marketing. Our stock has been carefully selected for seed purposes. Pkt. 5c, lb. 25c, 3 lbs. 60c. By freight, pk. 60c, bu. \$2.00, 2 bu. or more @ \$1.75, 10 bu. or more @ \$1.50.

"Your Lenoche's Homestead Corn is out of sight. My neighbors bought all I could spare for seed purposes, and I had hard work to keep seed enough for my own use."—Frank Degnan, Seneca county, Ill.

"I was well pleased with your Lenoche's Homestead Corn purchased from you last spring and I shall put in a larger acreage of it next year than any other corn that I am raising. It matured ten days earlier than any other corn."—E. T. Warne, Du Page county, Ill.

"Your Lenoche's Homestead Corn grew nicely with me, and I can highly recommend its drought resisting qualities. We have always found your seeds to be good."—Oscar Janssen, Howell county, Mo.



LENOCHER'S HOMESTEAD.

"Last year I purchased some of your Farmers' Reliance Corn and was very much pleased with the splendid crop, as it yielded 400 bushels of ears, from three acres of ground. Your corn is all that you recommend it to be."—Mrs. Harriet Brown, Ashtabula county, Ohio.

"The Farmers' Reliance Corn yielded fifty bushels per acre for me and I was much pleased with it."—Chas. Guilford, Jones county, Iowa.

"Your Lenoche Homestead Corn is the best hog corn that I ever fed. It is the earliest corn in this part of the country."—John Aberle, Doniphan county, Kan.

"Your Farmers' Reliance proved to be a very fine corn and I was much pleased with it."—W. A. Whitmer, Clinton county, Iowa.

"The Farmers' Reliance Corn purchased from you has made a splendid yield."—Herman Hunt, Mahaska county, Iowa.

TRY PENCILARIA

The wonderful new Fodder plant. Yields immense crops everywhere. See description on another page.

CONSIDER THIS.

It costs no more to grow a good variety than a poor one. One bushel per acre added to your crop, more than covers cost of seed and you gain greatly in productiveness, quality and value of crop.



FLINT.

IMPROVED EARLY YELLOW FLINT.—An eight rowed yellow flint variety with ears from 10 to 15 inches long, 1½ to 2½ inches in diameter, and are well filled out to the extreme end of cob. The cob is small and the kernel large and broad, ripens in 75 to 85 days. This corn is well adapted to the northwest, and is 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 replanting. Pkt. 5c, lb. 25c, 3 lbs. 60c postpaid. By freight, pk. 65c, bu. \$2.50, 2 bu. or more @ \$2.25, 10 bu. or more @ \$2.00.

RURAL THOROUGHbred EARLY WHITE FLINT.—Quite similar to above, except color; stalks usually bear 2 or 3 long ears having 8 or 10 rows of creamy white kernels, which are quite hard and flinty. One of the best varieties in existence for fodder and ensilage. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight, pk. 75c, bu. \$2.50, 2 bu. or more @ \$2.25, 10 bu. or more @ \$2.00.

PRIDE OF THE NORTH.—This variety originated with A. L. Goddard, of Kossuth county, Iowa, about 20 years ago and sprang at once into prominence as the earliest of all yellow dent corns. The ears are 8 to 10 inches long with small cob and kernel; seventy pounds of ears will make sixty pounds of shelled corn; color bright orange, and very uniform. Will ripen in ninety days and matures in this latitude when planted in June. Pk. 65c, bu. \$2.00, 2 bu. or more @ \$1.75, 10 bu. or more @ \$1.60.

EVERGREEN SWEET FODDER CORN.—We consider this one of the most valuable fodder plants in existence and stock farmers should all devote some land to it. The stalks are sweet, juicy, rich, tender and very nutritious. The leaves, which are very numerous, are large, broad, succulent, and greatly relished by all kinds of stock, being far superior in every respect to all other kinds of corn. On strong soil it will grow 10 to 12 feet high and produce an almost incredible amount of fodder which, when well cured, is quite equal to hay, besides being wonderfully cheaper. It is claimed by dairy farmers that this fodder will increase the milk and cream production greatly and keep the animals in the best 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 as much as eight acres of ordinary pasture. Of high value also for the hogs and an excellent plant to plow under for soiling. Sow thickly in drills, or broadcast at the rate of two bushels per acre. Pk. 65c, bu. (measured) \$2.00.

EARLY FODDER SWEET CORN.—Will make feed much earlier than the above and is very nice to feed when in roasting ear. Not as large a yielder. Pk. 60c, bu. \$2.00.

GOLDEN BEAUTY.—Throughout Ohio, Pennsylvania and the east, they think there is no corn quite equal to the Golden Beauty, but it is rather late for this latitude. It is a large, broad grained, handsome yellow corn, which is very popular in some sections of the country. Ears are of good size, color bright golden yellow, cobs small. The ears usually have 12 to 16 rows. Matures in about 120 days. If you want a corn for marketing in the ear or shelled, you will find the Golden Beauty quite satisfactory. Not recommended for northern Iowa. Pkt. 5c, lb. 25c, 3 lbs. 60c. By freight pk. 50c, bu. \$2.25, 2 bu. or more @ \$2.00, 10 bu. or more @ \$1.85.



EVERGREEN FODDER SWEET CORN.

PRICES.

SEED CORN IS SCARCE AND PRICES WILL DOUBTLESS BE HIGHER LATER IN SEASON THAN THOSE NAMED IN THIS LIST, THEREFORE IT WILL PAY YOU TO ORDER EARLY.

I purchased from you 10 bushels of Pride of the North corn for planting and am very much pleased with the variety and its yield. I had a splendid stand and believe that it pays to buy seed corn from you, as it is more carefully selected and cared for than most of the farmers can do.—S. W. Callanan, Kossuth county, Iowa.



JERUSALEM CORN

MINNESOTA KING.—A very early variety in great favor with our customers in Minnesota, Wisconsin and the Dakotas, and it is considered there the most profitable and best yielding corn no matter whether weather is favorable or not. It is a yellow half dent variety with broad, rich, golden-yellow kernels. Ear of fair size, with small cob and usually only eight rows. One Michigan farmer writes that the Minnesota King Corn yielded about 100 bushels per acre but this is more than the average yield, as it is not a large variety. Our crop has proved to be very short and we have been obliged to raise the price of this variety. Pkt. 5c, lb. 25c, 3 lbs. 60c. By freight, pk. 75c, bu. \$2.50, 2 bu. or more @ \$2.25.

JERUSALEM CORN.—Claimed by many to be an improvement on Kaffir Corn as it is a surer crop in unfavorable seasons. Produces a large crop of fodder which is of very good quality. Seed white and nearly flat. Yields a good grain crop also. Three to four pounds will plant an acre in drills, 40 to 50 lbs. broadcast. Pkt. 5c, lb. 25c, 3 lbs. 60c. By freight, per pk. 90c, bu. (50 lbs.) \$3.00, 2 bu. or more @ \$2.75.

KAFFIR CORN.—An excellent fodder plant, yielding two crops of fodder during a season. It grows from four to five feet high, making a straight, upright growth. The stem or stalk bears numerous wide leaves. The stalks keep green and are brittle and juicy, not hardening like other varieties of sorghum, making excellent fodder, either green or dried, which is highly relished by cattle, horses and mules. The seed crop is also heavy, sometimes yielding sixty bushels to the acre. For the grain sow in rows three feet apart, three to five pounds of seed to the acre. For fodder sow one-half bushel to one bushel, either broadcast or in drills. Pkt. 5c, lb. 20c, 3 lbs. 50c. By freight, pk. 65c, bu. (50 lbs.) \$2.00, 2 bu. or more @ \$1.75.

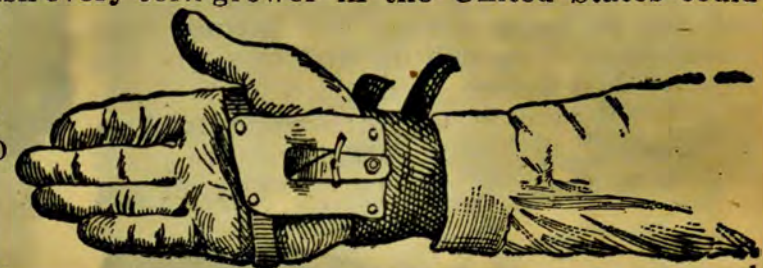
Improved Rotary Corn Planter.—This we consider make on the market. One days use will about repay its cost. Better order one with your seed corn and have it on hand. Price \$1.50 each.

IOWA YELLOW DENT.—We always advise farmers to select the best named varieties in buying seed corn, and believe it pays them in the long run. This year, however, there are thousands of farmers in need of seed corn and their main object is to secure at a low price a nice grade of good yellow corn which is well matured, thoroughly tested, of strong vitality, and will produce a good crop of sound corn. While this corn is not equal to our best named varieties, still we believe you will find it superior to nine-tenths of the corn in your neighborhood. **PRIDE OF THE NORTH.** At our price it will cost you only about 15 cents per acre to plant your fields with this variety and it will pay you well to order sufficient for your planting. Pk. 50c, bu. \$1.35, 2 bu. or more @ \$1.25, 10 bu. or more @ \$1.15, 25 bu. or more @ \$1.00.

The seeds bought of you last year were first class. The Yellow Flint Corn was the best ever seen here. I had ears measuring 13 inches and from the quart of seed planted I gathered 25 bushel baskets full of ears, and have sold it to my neighbors for seed.—J. Doll, Otter Tail county, Minn.

RAMSEY ADJUSTABLE CORN HUSKER.

We wish every corn grower in the United States could see one of these new huskers as we do not believe there is an intelligent farmer in the country who would not adopt it at once and discard all the old style devices. Farmers will husk 25 to 50 per cent more corn and do it with less labor. The strain does not come on the fingers and thumb, but is on the strongest part of the hand. Each 50c postpaid.



KAFFIR CORN



EARLY AMBER CANE

EARLY AMBER CANE.—Dairy farmers say that this is the most valuable fodder plant in existence for their use. Notwithstanding its great adaptability as a food for live stock, it is only quite recently that the real value of sorghum (or sugar cane) has attracted general attention. Its great merit is now beginning to be appreciated and the demand is increasing about ten fold every year. It is profitably grown anywhere from Manitoba to Mexico, on any good corn ground, and is but little affected by drouth. It is of the very best quality, being sweet, tender, nutritious and greedily eaten by cattle, horses and hogs. Dairymen find that the cows will give more and richer milk from its use, and it is claimed that as high as 10 tons of green fodder have been grown per acre. It can be cut several times during the season if not allowed to get too high, and makes a good sweet hay. Sow 100 lbs. per acre for best results. Is a profitable crop also to grow for the seed which is excellent for feeding poultry, and is frequently ground and substituted for buckwheat flour. Seed is very scarce this year and price will probably be higher later in season. Per lb. 20c, 3 lbs. 50c. By freight 10 lbs. 50c, 25 lbs. 85c, 100 lbs. \$3.00, 500 lbs. or more @ \$2.75.

EARLY SOJA BEANS, (Coffee Berry).—During recent years this has been largely sold under the name of German Coffee Berry at extremely high prices, but we prefer to offer it under its correct name. The berries ripen in about three or four months from the time of planting and produce a crop of twenty to forty bushels to the acre and are as easily grown as other beans. When roasted and ground it closely resembles coffee and tastes quite similar. Some mix half and half with coffee when using and claim it is superior. Its great value to the farmer lies in the fact that when ground it makes one of the most valuable crops for feeding stock and adds greatly to the milk production. Claimed also to be much superior to clover for fertilizing the soil and for pasturing, or feeding the green fodder, of which it frequently yields from eight to twelve tons per acre. Plant in drills two or three feet apart and one foot between plants. Pkt. 5c, ¼ lb. 15c, lb. 40c, 3 lbs. \$1.00 postpaid. Pk. \$1.50, bu. \$5.00.

BROOMCORN.

We make quite a specialty of this, supplying thousands of broomcorn growers in all parts of the U. S.

DWARF EMERALD.—This splendid new variety which we introduced, is the result of a cross between Dwarf Evergreen and California Golden. Stalk is short and its one object seems to be to produce long perfect shaped brush in the shortest possible time. The brush is long, straight and of a handsome green color almost all of it being suitable for hurl. Very productive. Lb. 35c, 3 lbs. \$1.00. By freight 10 lbs. \$1.50, 25 lbs. \$3.00, 100 lbs. \$10.00.

CALIFORNIA GOLDEN.—Has been carefully selected and improved so that the brush is straight and long, a very large proportion of it being suitable for hurl. It is of fine quality, of light green color, turning to light yellow when allowed to become too ripe. Per lb. 25c, 3 lbs. 65c. By freight 10 lbs. 60c, 25 lbs. \$1.25, 100 lbs. \$4.00.

AUSTRALIAN.—Makes the most even and perfect shaped and colored hurl brush of any variety that we have ever seen, almost every pound of it being straight, of light green color and suitable for the best parlor brooms. It is much more productive than most other kinds, the brush is much longer and is sure to bring a higher price. Lb. 35c, 3 lbs. 75c. By freight 10 lbs. \$1.20, 25 lbs. \$2.50, 100 lbs. \$8.00.

TENNESSEE EVERGREEN.—More largely grown in western states than any other. Brush is noted for its fine quality, good length and handsome appearance. Lb. 25c, 3 lbs. 65c. By freight 10 lbs. 65c, 25 lbs. \$1.40, 100 lbs. \$4.50.

DWARF.—Popular in some sections. Matures late. Lb. 25c, 3 lbs. 65c. By freight 10 lbs. 75c, 25 lbs. \$1.50, 100 lbs. \$5.00.

MISSOURI EVERGREEN.—Has coarser brush than the Tennessee and is therefore desirable for making heavy brooms. Lb. 25c, 3 lbs. 65c. By freight 10 lbs. 60c, 25 lbs. \$1.25, 100 lbs. \$4.00.

JAPANESE BUCKWHEAT.—About a week earlier than Silver Hull, and yields almost as much again. The flour made from it is equal in quality to any other buckwheat, while it is much more productive than any other, and succeeds well far north. The straw is heavier and it branches more, it does not need to be sown as thickly as other kinds; lb. 25c, 3 lbs. 60c. By freight pk. 40c, bu. (52 lbs.) \$1.25, 2 bu. or more @ \$1.15, 10 bu. or more @ \$1.00.

SILVER HULL BUCKWHEAT.—Very good, popular variety. Grain is light gray color, rounder than the common variety, has much thinner husk, earlier and yields more. Per lb. 25c, 3 lbs. 60c. By freight pk. 40c, bu. \$1.35, 2 bu. or more @ \$1.20, 10 bu. or more @ \$1.10.

Oct. 14, 1901.—I have fourteen acres in Alfalfa all on high ground. It was sown in 1895 or '96 and I have cut three good crops of hay every year since, and think it would average 5 tons to the acre. This season I threshed 75 bushels of

cut two crops for hay and from the third crop I clean seed.—C. M. Jones, Mills county, Iowa.



SOJA BEANS OR COFFEE BERRY.

SOUTHERN STOCK MELON.

—This is a variety of citron melon grown extensively in Kansas, Oklahoma and other parts of the south for feeding stock. It is immensely productive. Grows to a large size, some of them weighing as high as 60 or 70 pounds. The flesh is firm and solid with but few seeds. The melons keep all winter, and can be fed to stock same as turnips and beets. They grow on any kind of soil, and in dry seasons and climates. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

WILD RICE.—The only one of our native plants furnishing food for wild fowl, ducks, geese, etc., which has been made an article of commerce. This seed can be sown on the borders of lakes, ponds, and along small streams to great advantage, attracting all of these wild birds from September on. It purifies the water and affords refuge to the small fry from the large fish. It makes a good hay, and all cattle are fond of it. Sow in water having a mud bottom. Pkt. 5c, lb. 30c, 3 lbs. 75c. By freight, 10 lbs. \$1.50.

IMPROVED PROLIFIC TREE BEANS.—Are also called California Wonder. Undoubtedly the most prolific bean grown, and it will yield a larger crop under ordinary circumstances than any variety that we have ever seen. On our own farm with conditions not usually considered favorable, it yielded a crop of 41 bushels per acre. Beans are pure white, small size, greatly resembling the "Navy" and command the highest market price. Plant grows upright about 20 inches high with stiff stem and branches held well up from the ground on good bean soil, though if the ground is very rich it does not stand up so well. Unusually free from rust and mildew. Will make about as profitable a crop as you can put in. Pkt. 5c, ¼ pt. 12c, qt. 35c. By freight, pk. \$1.00, bu. \$3.75.

EMERALD BROOMCORN.



PLANT OF IMPROVED PROLIFIC TREE BEANS.

Irish Victor

OUTYIELDS
EVERY OTHER
VARIETY.
BY IT.



IRISH VICTOR.

SEED OATS.

A change of Seed Oats is even more important than a change of seed potatoes, and it will pay you to renew your seed oats this year by sowing some of our improved varieties and thus greatly increase your yield. Any variety, except where noted, at 5c per large trial packet, 25c per lb., 3 lbs. 60c, by mail postpaid.

IRISH VICTOR—Introduced by the Iowa Seed Co. A grand novelty and the most productive variety ever brought out. It is probably known to but few farmers that almost all the new varieties of oats originated either in Scotland, Northern Ireland, or New Zealand, and it is to these countries that we are obliged to look for improved sorts. The Irish Victor, brought over from Ireland five years ago, has proved superior to all other sorts grown in the same section, in vigor of growth, stiffness of straw and productiveness. The straw is very stiff, holding the heavy head up well. It is fully as early as the Lincoln and yields more than that very productive variety. The grains are large, plump and heavy. Plant grows to medium height, of vigorous growth, stools out exceptionally well, is free from rust and yields an immense crop. Better put in a field of them this year and not only secure a larger crop than you have been in the habit of growing, but be prepared to supply your neighbors with seed at a good price. They will all want it. By freight, pk. 50c, bu. \$1.25, 2 bu. or more at \$1.15, 10 bu. or more at \$1.10.

"The Irish Victor are the best and most productive oats I have ever raised. They have stiff straw and stand up better than any other sort."—John J. Doonan, Poweshiek county, Iowa.

BLACK TARTARIAN—An extra choice variety from England. See description with novelties. Per peck 75c, bu. \$2.25, 2 or more bus. @ \$2.10, 10 bus. or more \$2.00.

EARLY CHAMPION—This grand new variety which was introduced by us in 1898 has given excellent satisfaction to our customers and it gave the largest yield per acre of any variety in the test at the Iowa Agricultural College, and is highly recommended by them. Has comparatively short straw, matures a week to ten days earlier than other kinds, thus largely escaping the liability to rust. Its greatest value lies in its special adaptability as a nurse crop to sow with grass seed as it does not stool as freely as some other sorts. Will not lodge on rich land. Henry Wallace, editor *Wallace's Farmer*, says: "I would rather risk growing grass seed with them than any other variety I know of." Price per pk. 40c, bu. \$1.10, 2 bus. or more @ \$1.00, 10 bus. or more @ 90c.



LINCOLN—When we introduced these oats to our customers in 1893 they had never been tested in this state, but had done so exceptionally well in Minnesota that we had much faith in them. Seven prizes, amounting to \$500.00, were offered for the largest crops grown from one bushel of seed sown, and in our 1894 catalogue we published a list of the awards, the first prize going to a man who grew 174 bushels from one bushel of seed sown, and the average of seven successful competitors was 116 bushels each. What we claim for the Lincoln is that it is a very heavy yielder, is comparatively early, has proven itself to be entirely rust proof, and stands up exceptionally well. On account of its soft nib, heavy meat and thin hull it is unsurpassed for feeding and for making into oatmeal. By freight, peck 40c, bu. \$1.10, 2 bus. or more @ \$1.00, 10 bus. or more @ 90c.

GREAT NEW ZEALAND—This grand new variety was first introduced by us in 1895 and has given remarkable satisfaction, in one instance yielding 102 bushels per acre, while other varieties in the same vicinity yielded only 40 to 50 bushels. It averages a trifle higher than other sorts, has very stiff, strong straw, never known to lodge. About one week later in maturing than the common round head oats, thus giving time to harvest the hay crop. They stool out remarkably well, and thus require less seed to the acre; are almost entirely free from rust on all kinds of soil. Peck 50c, bu. \$1.25, 2 bus. or more @ \$1.15, 10 bus. or more @ \$1.10.

J. H. Shober says: "The New Zealand oat is the best variety I ever saw, and you are safe in assuring your customers an average yield of 25 per cent more per acre than any of the common varieties, and also that they will weigh more to the bushel. They are rust proof, are a surer crop and better adapted to this country than any other varieties."

SILVER MINE—A very popular variety in some sections and said to yield immense crops. Our seed is pure and choice. Per pk. 40c, bu. \$1.10, 2 bus. or more @ \$1.00, 10 bus. or more @ 90c.

WINTER TURF—Highly valued in the south for fall sowing. Per lb. 25c, 3 lbs. 60c, By freight pk. 60c, bu. \$1.75

EUROPEAN HULLESS OATS—This will doubtless be a novelty to many farmers, but hullless oats are not new in this country as they have been cultivated to a limited extent for many years. The berry or grain, which is much larger than that of ordinary varieties, is loose in the hulls and easily threshed out as clean as wheat or rye. It should prove to be a desirable variety to make oatmeal from. Better try a little of it. Our stock is small and will doubtless be exhausted before season is over. Pkt. 10c, lb. 35c, 3 lbs. for \$1.00 postpaid

TREE AND HEDGE SEEDS.

	PER PKT.	BY MAIL POST PAID.			EX EXP. 5 LBS. OR MORE @
		OZ.	1/4 LB.	LB.	
Apple.....	.05	.10	.20	.60	.40
Ash, American White.....	.05	.10	.20	.60	.40
Box Elder.....	.05	.10	.20	.60	.40
Catalpa, Hardy.....	.05	.10	.25	.80	.65
Locust, Black.....	.05	.10	.25	.75	.60
Locust, Honey.....	.05	.10	.25	.75	.60
Mulberry, Russian.....	.05	.35	\$1.00	\$3.25	\$3.00
Osage Orange.....	.05	.10	.20	.60	.45
Tree of Heaven.....	.05	.10	.25	.75	.60

It Pays to Use Our Seed Oats.

"I have handled a great many car-loads of oats both of my own growing and also as a shipper of grain to eastern markets, but I consider your Irish Victor the best ever shipped from this station. I saw the oats growing and the field was beautiful; it stood up straight having a very stiff straw and sprangled head. They far surpass the Lincoln, Swiss, White Russian, Bonanza and all other varieties of oats which have been grown in this vicinity."—H. H. Connell, Poweshiek Co., Ia.

"Your Irish Victor Oats made the heaviest crop that I ever saw, and they stood up the best of any oats in our neighborhood this year."—Wm. H. Swan, Mahaska Co., Ia.

"I sowed ten bushels of Lincoln oats on the six acres of ground, from which was threshed 498 bushels, or 83 bushels per acre. We had severe drouth this year and other oats yielded only 6 to 10 bushels per acre."—H. M. Dickinson, Douglass Co. Neb

"The Lincoln oats went about 25 per cent more to the acre than other white oats on the same kind of ground. I sowed them just as I did the others."—C. F. Herrick, Buchanan county, Iowa.

THOUSAND HEADED KALE
NOVELTY FORAGE PLANT.



IMPROVED

WORLD'S FAIR

CORN



**THE MOST
PRODUCTIVE
LARGE EARED PURE
YELLOW CORN IN EXISTENCE.**

RIPENS IN 100 DAYS

PENCILARIA

**THE WONDERFUL
FODDER PLANT**

NO OTHER PLANT
IN EXISTENCE
WILL PRODUCE
EVEN $\frac{3}{4}$ AS MUCH

**READ
DESCRIPTION
AND
TRY IT**

75 000
FARMERS WERE
PLEASED WITH
IT LAST YEAR.
ONE MILLION
SHOULD TRY IT
THIS YEAR



**65 STALKS GROWN
FROM ONE SEED**

See Illustration of all these on Colored Plate.

THE WONDERFUL PENCILARIA. *Penicillaria*.

Last spring we introduced this grand new fodder plant to the farmers of this country and it has created a wonderful amount of interest. Fully 75,000 farmers in all parts of the United States gave it a trial, and in spite of the season being the most unfavorable that has ever been known in America for such plants, it proved wonderfully satisfactory everywhere, and we believe that at least half a million farmers will want it this season as there is no plant in existence which is equal to it for quick growth, immense size and superior quality. Seed is very small, about the size of a pin head, and it is wonderful that it should produce such an immense growth of foliage. We have known plants to produce 60 to 75 stalks from a single root, each one of these stalks growing to the height of seven to fourteen feet and being covered with large, succulent leaves which resemble the leaves of corn in appearance. The plant has been so improved and acclimated that it now not only produces an immense crop of fodder but will produce cylindrical heads 10 to 15 inches long closely set with thousands of tiny seeds which are greatly relished by poultry. At a distance a field of *Penicillaria* when nearing maturity looks like a field of giant timothy 12 to 15 feet high.

The best way to handle the crop, however, is to mow it when two to four feet high. It will then start up again much more vigorously, and by cutting each time thereafter when it is three to five feet high, it can be cut from four to six or even seven times during the season. One of the most noted farmers in the United States who also stands high as a writer for the Agricultural Press, states that he made a careful test, sowing the seed on the 15th of May in drills 18 inches apart. It looked like grass at first, but he cultivated it at the end of twelve days and it then grew so rapidly that it smothered out the weeds in and between rows. He cut the first crop on July 1st, forty-five days after sowing the field. It was then seven feet high and it weighed green thirty tons per acre, and when dry gave 6½ tons of hay per acre. The second growth was cut on August 14th when the plants were 9 feet high and the crop weighed 55 tons per acre green and 8 tons per acre dry. The third cutting was made Oct. 1st. It weighed ten tons green and 1½ tons dry, thus making a total crop of 95 tons per acre of green fodder, and when dry made 16 tons of hay.

If there is any plant in existence which will afford such a yield we do not know what it is. We consider it much better, however, to cut the crop when not over 5 or 6 feet high as the fodder is more succulent and seem to relish the food greatly, though it is much more satisfactory as a fodder plant than for forage. Do not make the mistake of letting it grow up without cutting, as it will grow more spindling and it will not make as many stalks.

Do not plant *Penicillaria* until the ground is warm, say about the usual corn planting time. Sow the seed in drills very thin, dropping seeds three or four to each foot of the drill, and drills 24 to 36 inches apart. If properly sown one pound is sufficient for an acre, but we presume that most farmers will put on 1½ to 2 pounds per acre. This season stockmen will especially need a quick growing forage plant, and they should have hundreds of cows and the person who keeps only one should both try it as it is claimed that one-fourth acre will supply sufficient fodder to keep a cow in good condition throughout the summer and fall, and sufficient hay can be made from one-fourth acre to supply a cow throughout the winter.

In quality and nutritive value it ranks with sorghum, being sweeter than corn and all stock eat it greedily. The ground intended for *Penicillaria* should be fairly rich and thoroughly loosened. If the seed is planted too thickly in the drills or the rows too close together, it will not give as good results. It should have plenty of room to grow and it will surprise everyone. Do not fail to try it this year.

Last year we sold the seed at \$1.50 per pound when other dealers were asking \$2.50 per pound. Although crop is short this season we have reduced our price to only \$1.00 per pound, and at the time this catalogue goes to press we have already booked orders for 3000 pounds from customers who tried it last year. Stock is limited so be sure to order early if you want it, and of course you do. Price for large pkg. 10c, ¼ lb. 35c, ½ lb. 60c, 1 lb. \$1.00; 5 lbs. or more @ 85c, charges prepaid.

READ THE VERDICT.

"I put in ¼ acre of your *Penicillaria* this year and it yielded immensely, some of the plants having as many as 75 stalks. I cut some of it seven times during the season, letting it grow 2½ to 4 feet high each time. According to my experience it should be cut when about three feet high and it makes fine hay. The cows and horses are very fond of it either green or dry, and the calves eat it greedily."—*Jacob Cheout, Polk county, Iowa.*

"The *Penicillaria* has done well out here. I cut it the first time when it was five feet high and the second time when four feet high. It also produced a seed crop for me and is all O. K. as a feed for all kinds of live stock."—*F. W. Martin, Gove county, Kans.*

"The *Penicillaria* received from you has proved to be a good fodder plant in this section of the country. I expect to put in a large quantity of it another season."—*A. C. Craen, Van Buren Co. Mich.*

"Your *Penicillaria* is a fine fodder plant for cows, horses and hogs. In spite of the cold, wet season here it produced 32 to 38 stalks to each plant."—*French Nichols, Whitman county, Wash.*

"I planted your *Penicillaria* about the 20th of July in rows three feet apart and it soon entirely covered the ground and made a most excellent forage plant. The stalks are almost as sweet as amber cane. It will pay any stock grower to put in a few acres."—*W. M. Marteny, Pima county, Ariz.*

"In spite of the unfavorable season *Penicillaria* made a growth of 12 to 13 feet and grew much more vigorously after being cut once. It produced 36 shoots from one seed."—*W. E. Scheer, Tuscumbia county, O.*

IMPROVED WORLDS FAIR CORN.

We claim to be seed corn specialists and we annually supply more farmers with seed corn than any dealer in the world. Prominent farmers and agricultural writers have assured us that with the new varieties which we have introduced we are rapidly nearing perfection in the corn plant. We cannot wholly agree with them and we do not intend to stop our efforts in this direction, but farmers will find the Improved World's Fair which we are offering this season to be a long step in advance towards the aim we are striving at. It is a strong growing variety, maturing a large handsome ear in about 110 days, or ten days earlier than the Legal Tender. The ear is of almost ideal shape, being about ten to eleven inches long, of perfect cylindrical shape, well capped over at both tip and butt grain is deep and of handsome golden yellow color, set on a small red cob. We were in hopes to have a large enough crop this year so that we could offer this corn at a low price, but we thought our customers would be better pleased to have us select very closely so that it would be as near perfection as possible and we have therefore done so. While some farmers may consider the price too high, still we are sure that every enterprising intelligent farmer will want to test this grand new sort, and at this price it will cost him less than 5¢ cents per acre for seed. Two bushels added to the crop will more than pay for the expense. Price per pkt. 5c, lb. 35c, 3 lbs. \$1.00. Stockmen ears 50c each, postpaid. By freight, pk. \$1.00, bu. \$3.50. Can furnish a limited quantity of specimen ears, each one wrapped with paper and securely packed in box or barrel @ \$1.50 per pk., \$5.00 per bushel.



PENCILARIA

THOUSAND HEADED KALE.

About eight years ago we introduced Dwarf Essex Rape to our customers and it has proved to be the most popular forage plant ever brought to America. The seed is grown in England and when the writer was there last summer the growers called his attention to the Thousand Headed Kale which is now supplanting rape in that country. They state that there is fully three or four times as much of this new kale grown for forage purposes as there is of the rape. We have tested the kale here and also had it in the hands of several other persons and it has given excellent results. The seed is much higher in price than rape, but it takes less of it.

The seed can be sown early in April or any time thereafter until midsummer. It grows to a height of three to four feet, and is so covered with small whorls of leaves that the name of Thousand Headed Kale has been given it. It is plain that it will yield a much larger crop than the Dwarf Essex Rape as it branches out from the bottom, grows very rapidly and is greatly relished by hogs, cattle and sheep. The roots penetrate to a great depth in the subsoil so that the plant is not affected by drought. It grows with increased rapidity after being fed off and flourishes on all kinds of soil.

In England we find that they are sowing this seed broadcast on their pastures with grass seeds, using about one pound of seed per acre, though if sown alone it should have about three pounds per acre. It is perfectly hardy in England, withstands the winters and while it would not be hardy in this state, still we have no doubt that it will be used very largely in the south for winter pasture, as it is the cheapest of any feed that we know of. We also want to recommend this seed very highly to the poultrymen as it is of superior quality for their use. While, as stated above, three pounds of seed are sown to the acre broadcast, still it is much better to sow it in rows 18 inches apart and in this way one pound is sufficient for an acre. Immense quantities of this plant are also grown in England for selling on the market for greens and it is of superior quality for this purpose to almost any plant that we know of. Price per large pkg. 10c, ¼ lb. 25c, ½ lb. 75c, postpaid; by exp. 5 lb. or more @ 50c per lb.

Mr. C. A. Zavitz, of Ontario, Canada, writes us under date of Nov. 29th, 1901, that he has grown the Thousand Headed Kale for four years in Canada and it has produced 17½ tons per acre, and the people who grow it in his neighborhood prize it very highly for feeding purposes.

"In spite of the dry weather *Penicillaria* did extremely well and my horses, mules and cattle ate it with great relish when I cut it off for them. This fall I turned my stock into the field and they all went to the *Penicillaria* first before touching the corn fodder."—*C. W. Foster, Arkansas Co., Ark.*



HAYNES' PEDIGREE WHEAT,

We cannot too highly recommend this grand new variety as being the best kind of spring wheat in existence and are sure it will please every one who tries it. It was originated by Mr. L. H. Haynes, who spent eight years in selecting and improving it in his garden, each year choosing all the largest and best heads and discarding all the balance. This continued selection has had the effect of improving it in vigor, size of head and quality. For the past few years he has been growing it as a farm crop, taking the greatest pains each season to keep it strictly pure and by going through the fields and removing everything that was not of ideal quality, he now has a variety which is sure to please all wheat growers. The heads are very large, well filled out, the kernel is hard, the plant stools greatly, and, under ordinarily favorable conditions will yield 40 to 50 bushels per acre. It is an improvement on Blue Stem wheat, but fully five days earlier in maturing. We most highly recommend this variety to customers everywhere in the wheat growing belt, and are sure that it will greatly please them in every respect. Per pk. 65c, bushel \$2.00, 2 bushels or more at \$1.85.

I was much pleased with Haynes' Pedigree Blue Stem Wheat last year. The weather was very unfavorable for small grain, but it yielded nearly double the crop that my other wheat did and of much better quality.—George Rubes, Dickinson county, Iowa.

VELVET CHAFF SPRING WHEAT.—This is now the standard variety for growing in Iowa, having displaced all the older sorts. It has proved much superior to the Scotch Fife, Saskatchewan and other sorts, being fully equal in quality, earlier, more sure, and yielding much larger crops. It is a remarkable semi-hard spring wheat yielding large crops free from rust. It is now the main crop in the northwestern states and the great milling kings use it for their highest grade flour, and it has been the most reliable variety year after year, yielding a good crop where other kinds fail. All stocks of this variety show some mixture, but our seed is nice this year and we are sure will please our customers. Per lb. 20c, 3 lbs. 50c. By freight, peck, 35c, bu. \$1.25, 2 bus. or more @ \$1.15, 10 bus. or more @ \$1.00.

HAYNES' PEDIGREE SPRING WHEAT.—A greatly improved Blue Stem variety which has yielded 40 to 50 bushels per acre. See description with novelties. Per lb. 25c, 3 lbs. 65c, postpaid. By freight, peck 65c, bushel \$2.00, 2 bushel or more @ \$1.85.

DEFIANCE WINTER WHEAT.—A Novelty of 1900—Introduced by the Iowa Seed Company.—We claim for this new wheat that it is unequalled in hardiness, stooling qualities, productiveness, rust proof qualities, strength of straw, quality of grain, quality of flour and the best in all respects of any wheat ever offered. We know that this is considerable to say, but we feel sure that any farmer who tries this sort will have it proven to his satisfaction. It has a record of over 55 bushels per acre, and many crops are reported of 35 to 45 bushels. Flour equal to the world famed Hungarian product. Don't sow the old worn out varieties when you can add 50 to 100 per cent to your crop by sowing the Defiance. Everyone is delighted with it. Ask for price in the fall. Price for shipment now by mail, 1 lb. 25c, 3 lbs. 65c. By freight, peck, 50c, bushel, \$1.50, 2 bushels or more, @ \$1.40.

TURKISH RED WINTER WHEAT.—The old standard sort of ironclad hardiness and very productive. Per lb. 20c, 3 lbs. 50c. By freight peck 40c, bu. \$1.25, 2 bushels or more @ \$1.10.



IDEAL WHITE HULLESS BARLEY.—And it is an ideal that pleases all who try it. The heads are large and well filled with big plump kernels, which are hullless and of great value for feeding. Those who have grown it say that it produces a very much larger crop than any other variety. It weighs 60 to 65 lbs. to the measured bushel, while ordinary barley weighs only 48 lbs. The straw is very stiff and strong. It's the handsomest, most productive and the best variety we know of. Per pkt. 5c, lb. 30c, 3 lbs. 75c, postpaid. By freight, per peck, 75c, bu. (48 lbs.) \$2.00, 2 bus. or more @ \$1.80.

SUCCESS BEARDLESS BARLEY.—The earliest barley known. The straw is about the height of the common barley, but better, and will stand up in any land; with good land and season has produced 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 beardless and as easy to grow and handle as oats. It has hulls like the Manshury or any other old variety, and is a heavy cropper, yielding from 50 to 75 bushels per acre, and the quality is excellent both for malting and for feeding hogs and other stock. Per lb. 20c, 3 lbs. 60c. By freight, per peck 40c, bu. \$1.00, 2 bus. or more @ 90c, 10 bus. or more @ 85c.

MONSTER RYE.—There is always a demand in the spring for rye for sewing thinly to afford shade for grass seeds, for sowing in orchards to keep down the weeds, for early pasture and fertilizing. This is a choice variety usually sown in the fall when a grain crop is desired. Our price is low for this choice stock. Per lb. 20c, 3 lbs. 50c. By freight, per peck 35c, bu. \$1.00, 2 bus. or more @ 85c, 10 bus. or more @ 75c.

VELVET CHAFF. **SPRING RYE.**—Rye is a valuable crop for grain, straw, green fodder, pasturing or for soiling. The spring rye is an excellent catch crop where fall sown grain has winter killed and also for grain or fodder or for sowing with grasses as a nurse crop, as it matures very early. The straw is shorter and stiffer than the winter variety while grain is of equal value. Seed is scarce this year. Per lb. 25c, 3 lbs. 60c. By freight, peck 65c, bu. \$2.25, 2 bus. or more @ \$2.00.

SEED FLAX.—A very profitable crop and it pays to own your own seed. Price subject to market changes. Per lb. 25c, 3 lbs. 60c. By freight peck 65c, bu. \$2.15. Ask for price in quantity.

WINTER WHEAT.

Winter Wheat Catalogue which will be published in August. Sent free on request.

NOTICE THIS.—"July 29, 1901:—The seeds sent for in my last order to you have just arrived. Of the four seedsmen having my orders this year, you are the only one who complied with my instructions in a proper or business like manner. With the others I have been in each case subject to delay, extra expense and loss."—C. W. Barnes, Porto Alegre, Brazil, South America.



IDEAL BARLEY.

SEED WHEAT. It will pay you to sow our improved varieties. Ask for samples and quotations, stating quantity desired.

DWARF ESSEX RAPE.

The Most Popular and Profitable Forage Plant in Existence.

The demand for Dwarf Essex Rape is increasing four-fold every year and everywhere it gives the greatest satisfaction. It is easily grown everywhere and is unsurpassed as a forage plant for hogs, cattle or sheep. They eat it greedily and seem to prefer it to any other pasture during the summer and until late in the fall or early winter. Can be sown early in the season to provide early pasture for sheep and swine; or sow in small grain a week or so before cutting to provide pasture after harvest; or sow on the stubble; but it is usually sown in June, July or August with corn or potatoes, or on well prepared land alone for summer and fall pasture. Makes a wonderfully productive pasture for SHEEP, HOGS OR CATTLE, and they gain flesh so rapidly that they soon "weigh like lead." While it is the ideal food for sheep, still it is of equal value for hogs and cattle, as they are very fond of it, it is extremely cheap, having yielded 20 tons of fodder per acre. In the east it is usually sown in drills, 2 to 3 pounds per acre, and cultivated, but in western states it is almost invariably sown broadcast, 4 to 5 pounds per acre, and it grows so rapidly that all weeds are quickly smothered. When it is sown as a secondary or catch crop after small grain has been harvested, it is well to disk the ground thoroughly immediately before sowing. The United States Department of Agriculture claims that it adds greatly to the fertility of the soil for the following grain crop. One Nebraska farmer says that he sowed only three pounds per acre on a four and one-half acre field, and five weeks after sowing he turned eighty head of hogs and forty pigs into the field, and they pastured there constantly until October. The plants grew so rapidly that at no time could he tell where the hogs had been, twenty feet away from the gate.

Our stock is the **TRUE DWARF ESSEX** imported by us in carload lots direct from the best grower in England. Beware of low prices on rape seed this year, as some unscrupulous dealers last year substituted German Rape which can be sold at less than half the price, but it goes quickly to seed and is worthless for forage purposes. Every one of our customers was pleased last year. Per pkt. 5c, lb. 30c, 3 lbs. 75c, post paid. By freight, 5 lbs. 50c, 10 lbs. 85c, 25 lbs. \$1.75, 100 lbs. \$6.50. Ask for circular on growing rape.

Alex Scott, Paullina, Iowa, says: "I was much pleased with all the seeds purchased from you last year and especially the Dwarf Essex Rape. I seeded it in two different ways; both did well and my sheep and hogs like it and thrive on it."

MAMMOTH RUSSIAN SUNFLOWER.—The largest of all sunflowers. This is without doubt one of the best paying crops that can be raised. Seeds are the best of food for poultry and is much cheaper to raise than corn. Stalks, which grow very large, make excellent fire-wood. It is also said to afford protection against malaria. Large pkt. lbs. \$1.50.

5c. lb. 20c, 3 lbs. 55c. By freight, 10 lbs. 70c, bushel of 25 lbs. \$1.50.

WHITE BEAUTY SUNFLOWER.—Mammoth single flowering. Pkt. 5c, lb. 35c. By freight, 5 lbs. or more, @ 20c.

BLACK GIANT SUNFLOWER.—Of monster size. Seeds black. Per pkt. 5c, ¼ lb. 15c, lb. 50c.

TEOSINTE.—A fodder plant grown largely in some parts of the country. Somewhat resembling corn in appearance, but the leaves are much longer and broader, and the stalks contain sweeter sap. In its perfection it produces a great number of shoots, growing as much as 12 feet high; very thickly covered with leaves, yielding such an abundance of foliage that one plant is considered sufficient to feed a pair of cattle for twenty-four hours. Eighty-five stalks have been grown from one seed, attaining a height of eleven feet. Horses and cattle eat it as freely as young sugar-corn. Seed is scarce this year, but we advise all those interested to give it at least a trial, so as to be ready to plant larger quantities hereafter. Large pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.10; 3 lbs. (sufficient for 1 acre) \$3.00 by mail prepaid.

WONDERFUL SAND VETCH.—OR WINTER VETCH.—A comparatively new forage plant in this country, which has proved of highest value and is highly recommended by the U. S. Agricultural Department. Though it succeeds and produces good crops on poor, sandy soils, it is much more vigorous on good land and grows to a height of 4 to 5 feet. It is perfectly hardy throughout the United States, remaining green all winter. It is the earliest crop for cutting, and a full crop can be taken off the land in time for planting spring crops. Every dairyman and stock-breeder in the United States should have a field of it, and if you try it once you will never be a season without it. It is exceedingly nutritious, much more so than Clover, is eaten with relish, and may be fed with safety to all kinds of stock. Also valuable for a hay crop. Sow one-half bushel per acre either in spring or fall. Per pkt. 5c, lb. 30c; 3 lbs. 75c. By freight, peck \$2.00; bushel (60 lbs.) \$7.20.

BROMUS INERMIS.—Everyone now admits that this is the most valuable new grass which has been introduced into this country during the past 25 years, and it has everywhere, from Canada to Texas, given the best of satisfaction. It has been very highly recommended by the U. S. Agricultural Department and by grass specialists in all parts of the country. It will produce a wonderful crop of hay on land which is too poor for clover or timothy, and it resists intense cold, and also the most hot, dry weather. Forms a quick and dense sod either on sandy or stiff clay soils, and is a permanent grass which does not kill out with any kind of weather. Grows 18 to 36 inches in height and can be cut two or three times per year and is equally desirable as a pasture grass. Should be sown early in the spring using 20 to 25 lbs. per acre if sown alone, or if with Alfalfa use 12 lbs. with 8 lbs. Alfalfa. Price for best grade seed, per lb. 30c, 3 lbs. 75c, postpaid. By freight, per bu. (14 lbs.) \$2.25, 50 lbs. \$7.50; 100 lbs. \$14.50.

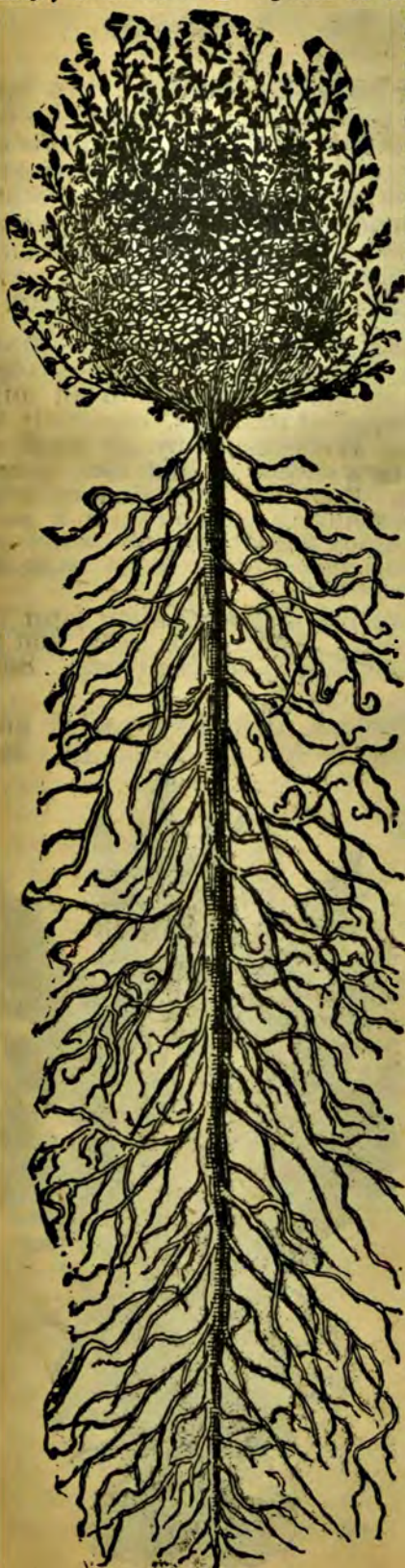
SAND VETCH.

TEOSINTE.

CLOVER SEED.



MAMMOTH RED CLOVER.—Also called Sapling or Pea Vine Clover. This greatly resembles the Medium Red, but is of much taller and more vigorous growth. The stems are so large and coarse that it is not valued for hay; but nothing equals it for hog pasture, as it will produce an enormous yield and is of the highest feeding quality. It gives quick results, making an unequalled crop and is usually considered a permanent pasture grass. If your soil is poor and needs enriching there is no fertilizer as cheap and good as sowing Mammoth Clover and plowing the crop under. It is the clover for poor soils. Sow 15 lbs. per acre. Per lb. 25c, 3 lbs. 65c, postpaid. Per peck \$1.85, bushel \$6.75.



ALFALFA CLOVER.

ALSIKE CLOVER.—Unexcelled for hay and we cannot too strongly recommend it to our customers. It is a true perennial, producing a good crop the first year and every year thereafter and the field really keeps improving each season. Highly valued also as a permanent pasture. It is hardy, even in northern Minnesota and is the only variety which will produce a good crop and not kill out in low wet land. It also adapts itself to high, upland soils and withstands the drouth well. The hay is finer and better than any other, and Alsike is, 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 it therefore requires only 8 lbs. per acre or half that quantity if sown with timothy. Per lb. 35c, 3 lbs. 90c. Per peck, \$2.75, bushel, \$10.00.

ALFALFA, or LUCERNE CLOVER.—Very popular in many portions of the country. Under proper management it will yield from ten to twelve tons to the acre. All classes of stock are exceedingly fond of it. The roots are so long and grow so deep, frost cannot heave or throw them out in winter. One sowing will stand for twenty years, and instead of impoverishing the soil, enriches it. Grows on the thinnest sandy soil and thrives in greatest drouth. Sow broadcast about 25 lbs. to the acre. Comes up very spindling and slowly and it is necessary to mow the weeds to give it light, but when once established the weeds will be smothered. Postpaid, per lb. 30c, 3 lbs. 75c. Per peck, \$2.00; bushel, \$7.25.

YELLOW TREFOIL.—Allied to the Common Red Clover, but of comparatively little value, except on very dry or poor soil. Grows rapidly and is valued for sheep pasture. Lb. 35c, 3 lbs. \$1.00. Peck, \$2.50, bu. \$9.00.

CRIMSON CLOVER.—Also called *Giant Incarnate*.—This is an annual variety in common use in the east and south for feeding green. The yield in fodder is immense, and after cutting, it at once commences to grow again, and continues until severe cold, freezing weather. It grows about one foot high, roots nearly black, leaves long, blossoms long, pointed and of a very deep red or carmine color. Makes good hay. Sow in April or May twenty pounds of seed per acre, or it may be sown in the corn at the time of last cultivation in July and will produce an excellent pasture for fall or it can be plowed under and will add greatly to the fertility of the soil. The only objection to it is that it winter-kills in this latitude. Per lb. 25c, 3 lbs. 65c. Per peck, \$1.50, bushel \$5.00.

For many years we have made this a specialty, and we now have our electrical machines cleaning so perfected that we claim that our grades average better than those of most other dealers, and believe that they cannot fail to please the most particular. Other seed dealers have happened to be in our warehouse when we were cleaning clover, have often remarked that the seed looked so extra nice they should not reclean it. From these same lots of seed cleaning out three to five pounds per bushel of trash, sand and shrunken clover makes quite a difference in real value, and our seed is really worth 10 cents to \$1.00 more than that obtained from most dealers. Crop is short this year.

PRICES.—On clover and grass seeds are changing almost daily, so that we are unable to give prices which will be invariable. *Don't fail to write for prices before buying.* We issue a new catalogue each week from January to June. If you are in a hurry for the seed you can order it and send seed to full value of money sent on day order is received. The following are the prices we are selling at on the date this catalogue goes to press (Dec. 10, 1901.) We prepay postage on 1 and 3 pound rate; larger quantities shipped at purchaser's expense. Trial packets of all seeds at 5 cents each.

MEDIUM RED CLOVER.—This is the most important of all clovers and the standard variety where for hay and pasture. It is known as Common Red or June Clover in many sections. Our Iowa grown clover seed has become widely known for its purity, strong vitality, hardiness, vigorous and healthy growth, and stooling qualities, so that now we receive many orders annually from the most distant parts of the U. S. and also from foreign countries. It has been tested by the Agricultural Experiment Station in various parts of the country and ranks among the highest everywhere. We claim that it will produce as much if not more hay per acre and that of better quality than seed from any other section and well posted farmers are beginning to appreciate the difference between it and ordinary stock. We have many customers in Pennsylvania, New York and other parts of the east who purchase from us annually, although our seed costs them more, freight considered, than eastern grown, and our trade in this variety during the spring season runs from 1000 to 2000 bushels per week. Perhaps you can buy seed a trifle cheaper per bushel from some other dealer, but if you really desire to save money you will find that it does not pay to buy the inferior seed containing a mixture of weed seeds, dirt, sand, shrunken clover, etc. It pays to have the best. Sow 15 lbs. per acre. Per lb. 25c, 3 lbs. 65c, postpaid. Per peck, \$1.75, bushel \$6.50. Bags extra, 15c each.

MEDIUM RED CLOVER; Second Grade.—Useful for thickening pastures, etc. We list this for our customers who want a cheaper grade, and while we do not claim that it is equal to our best, it is as good as much of the seed furnished by other dealers. Country merchants frequently buy this grade because they can make a larger profit on it. Per bushel, \$5.75.

SANFOIN CLOVER.—Also called *Espargette Clover*.—An excellent but comparatively little known variety of special value for growing on light, dry, sandy or limestone soils. It is very deep rooted and therefore withstands drouths. It is a good fodder plant and when made into hay is claimed to be of special value for milch cows. Seed is very large. Usually sown with oats or barley, using 30 or 40 lbs. of seed per acre. Per lb. 25c, 3 lbs. 60c. Peck, \$1.75, bushel (45 lbs.), \$6.00.

SWEET CLOVER.—Also called *Honey Clover*. (*Bokhara*).—A tall shrubby plant, bearing innumerable small white flowers and very valuable for bees. Both leaves and flowers have a delightful fragrance. Per lb. 35c, 3 lbs. \$1.00, by freight, 15 lbs. or more @ 25c.

WHITE DUTCH CLOVER.—Desirable in pasture mixtures. Also used largely for lawns. It is the most hardy of any variety of clover and as it is of a creeping habit it is desirable for sowing on terraces or sloping grounds. Seed is very small and it requires only 7 lbs. to sow an acre. Price for our choicest quality per lb. 40c, 3 lbs. \$1.00, postpaid, by freight, per peck, \$3.25, bu. (60 lbs.) \$12.00.

JAPAN CLOVER.—Grows freely on poor soil. Not a true clover. Per lb. 50c, 3 lbs. \$1.25, 5 lbs. or more, by freight at 35c.



ALSIKE CLOVER.



CRIMSON CLOVER.

GRASS SEEDS.

We are the largest dealers in this line in Central Iowa, and our trade has been built up by handling only the best grades of new re-cleaned seed. We have pleased thousands of others and can please you with our choice Iowa grown seed.

PRICES: Grass seeds are sold on a very close margin of profit and prices are constantly changing with the market. Should you desire a quantity of any thing in this line, be sure you write us for special prices, naming the amount needed. Most kinds of grass seeds are somewhat higher in prices this year, but please remember that our quotations are for our best grades of re-cleaned seed, and we know that price is as low as such grades can be bought for anywhere. At the pound rate we prepay postage. Grain bags to hold seed 15 cents each extra.

MEADOW FESCUE or ENGLISH BLUE GRASS.—Succeeds well in almost all soils, from high dry land to moist, standing the dry summer heat excellently. It is valuable as pasture grass, being one of the earliest in the spring and latest in the fall. It is very nutritious and greedily eaten by all kinds of stock, and very fattening. Is hardy, never grows in tufts, and being tender and succulent, makes excellent hay. It is a perennial, two to three feet high, flowering in June and July. Very scarce this year. Pound 40c, 3 lbs. \$1.00, postpaid. By freight, bu. of 14 lbs. \$2.50, 100 lbs. \$16.00.

MEADOW FESCUE.

TIMOTHY.—More used than any other variety of tame grass. We are located in the best section of the country for growing timothy seed, and more of it is grown in Iowa than any part of the world. Our seed is extra nice. Per lb. 20c, 3 lbs. 50c, pk. 30c, bu. (45 lbs.) \$3.00.

PERENNIAL RYE GRASS (Or English Rye Grass.)—A nutritious permanent grass for meadows and pasture, or for mixing with other grasses for lawns. Does well on sloping banks, as its roots are fibrous and mat-like. Is especially adapted for pastures, as it will endure close cropping and is of strong, quick and successive after growth. Does well on almost any land but prefers rich or moist soil, such as will produce a good corn crop. Sow 20 pounds per acre. Per lb. 20c, 3 lbs. 50c, per bu. (14 lbs.) \$1.00, 100 lbs. \$5.75.

ITALIAN RYE GRASS.—An annual variety of above, which can be depended on to give a large crop the first year. Valuable for sowing with crimson clover as a catch crop on red clover fields where clover has winter killed. Does well on any good clover land. Sow 20 lbs. per acre. Per lb. 25c, 3 lbs. 60c, per bu. (14 lbs.) \$1.25, 100 pounds \$8.00.

CRESTED DOGSTAIL.—For permanent pastures on high land and dry, hard soils, it is invaluable. Makes a close, thick sod, and is valuable for lawns. Sow 15 lbs. per acre. Lb. 50c, 3 lbs. \$1.35, per bu. (14 lbs.) \$5.25.

TALL MEADOW OAT GRASS.—For either hay or permanent pasture. Does well on any soil, but of special value on clay land. Grows tall and therefore desirable for meadow. Does not winter kill. Seldom sown alone, but should be included in all mixtures. Per lb. 35c, 3 lbs. \$1.00, bu. (14 lbs.) \$2.50.

ORCHARD GRASS.—One of the most valuable of all pasture grasses, coming earlier in spring and remaining later in autumn than any other. It grows about 2½ feet high, producing an immense quantity of leaves. It grows in tufts, and is therefore not adapted for growing alone, but should be sown with Red Clover, Tall Meadow Oat Grass, or Rye Grass. Sow 14 lbs. per acre. Per lb. 30c, 3 lbs. 75c. Bushel (14 lbs.) \$1.75, 100 lbs. \$10.50.

SHEEP'S FESCUE.—This variety prefers to grow on light, sandy soil and dry uplands or hillsides. It is deep rooted and is not affected by extreme drouth. Sheep are very fond of it, and it is a hardy perennial. Sow 14 lbs. per acre. Lb. 35c, 3 lbs. 90c. Bu. (14 lbs.) \$2.00.

HARD FESCUE.—Grows taller than Sheep's Fescue and is therefore better for meadows; valuable for dry soils; very hardy and early. Per lb. 35c, 3 lbs. 90c, bu. (14 lbs.) \$2.00.

WATER FESCUE.—Desirable for wet ground. Per lb. 40c, 3 lbs. \$1.10, bu. (14 lbs.) \$3.50.

KENTUCKY BLUE GRASS.

—Very valuable and exceedingly popular in some sections of the country as a pasture grass. It is productive and unusually early in spring, furnishing delicious food for all kinds of stock. It is not easily affected by frost or drouth, is suited to a great variety of soils, succeeding best on a moist, rich meadow. For permanent pastures it is particularly valuable, being of dwarf growth, therefore not so well suited for meadows. Unexcelled for lawns. Our seed is all new crop, best grade, 'Fancy Cleaned.' Sow 14 lbs. per acre for pasture, or 60 to 100 lbs. for lawns. Per lb. 30c, 3 lbs. 75c, bu. (14 lbs.) \$1.50. Sack of 8 bus. \$10.50.

MEADOW FOXTAIL.—A fine grass for permanent pastures, and should be sown in place of timothy in mixtures with clover and other grasses. Valuable for low wet land. Its growth resembles timothy. Sow 14 lbs. per acre. Per lb. 45c, 3 lbs. \$1.25, bu. (14 lbs.) \$3.50.

CREeping BENT GRASS.—Special value for pasture and low ground. Starts early, deep-rooted and a valued sort for holding sloping ground, or terraces together, as its roots form a compact mass. Sow 15 lbs. per acre. Lb. 35c, 3 lbs. \$1.00; bu. (14 lbs.) \$2.75.

RED TOP.—Sown largely in marshy land and sloughs in the west. In the east it is one of their principal sorts, put is not so highly valued here. It makes a fine, close turf and fair quality when not allowed to go to seed. Solid or fancy cleaned seed. Per lb. 35c, 3 lbs. \$1.00. Per bu. (14 lbs.) \$2.00, 100 lbs. \$13.50.

Prime Red Top.—Or chaff seed. Per bu. 75c, 100 lbs. \$4.25.

SWEET VERNAL.—Although this variety does not rank as high as some others for nutritive qualities, yet it is very valuable on account of its delicious perfume, when included in hay its aroma is imparted to other grasses, enhancing the value of the hay and making it relished by the stock. It should be included in the meadow mixtures. Per lb. 30c, 3 lbs. 75c, per bushel (14 lbs.) \$2.00.

WOOD MEADOW GRASS.—This grass is invaluable for wood pasture or shaded ground, and should be included in all mixtures for permanent pastures, especially in shady places. It is relished by all kinds of stock, showing a succulent and very nutritive herbage. For lawns over-shadowed by trees it is particularly valuable, and it produces a very thick growth and nice even sod. Sow 20 lbs. per acre. Per lb. 50c, 3 lbs. \$1.25, per bu. (14 lbs.) \$4.00.

PERENNIAL RYE GRASS.



GERMAN MILLET.

GERMAN MILLET.—Much better than the common millet, as it will produce double the crop. Our seed is choice southern grown, more productive than northern. Lb. 20c, 3 lbs. 50c, bu. (48 lbs.) \$1.60. Second grade, not as pure or clean. Bu. \$1.25.

COMMON MILLET.—Best quality. Preferred by some to German. Per bu. (48 lbs.) \$1.35.

HUNGARIAN.—Popular in some sections. Per bu. (48 lbs.) \$1.35.

NEW SIBERIAN MILLET.—Lb. 20c, 3 lbs. 50c, bu. (48 lbs.) \$1.75.

MANITOBA MILLET.—Also called *Hog or Broomcorn Millet*. Best millet for withstanding drouth. About two weeks earlier than German. Per lb. 20c, 3 lbs. 50c, bu. (48 lbs.) \$1.75.

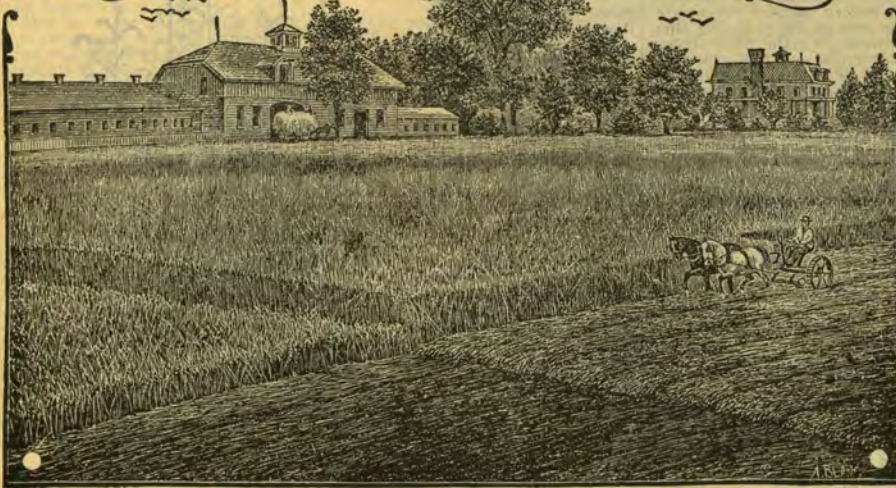
PEARL MILLET.—Entirely different from ordinary millet; an immense fodder yielder, of tall growth, highly recommended by the U. S. Department of Agriculture for the south. Pkt. 5c, lb. 40c, 3 lbs. \$1.00. By freight, 10 lbs. (for 1 acre) \$1.50, 25 lbs. \$3.00, 100 lbs. \$10.50.

ORCHARD GRASS.

SHEEP'S FESCUE.

OUR SPECIAL GRASS MIXTURE

FOR HAY AND PERMANENT PASTURES.



OUR MEADOW MIXTURE COMPARED WITH ORDINARY GRASS CROP.

PERMANENT GRASSES: Most of our western farmers have not yet learned that a pasture or meadow of mixed grasses is far superior to clover and timothy alone. All authorities agree that for both pasture and hay best results are obtained from the use of grass seeds in mixture. The reasons are that: First—A number of species will insure a much denser growth than the same number of seeds of one or two species, and prove less exhausting to the soil, since they live to large extent on different constituents. Second—Seasons that affect some grasses adversely are favorable to other sorts. So that with mixtures a failure is practically impossible, provided, of course, the seed is good. We take great pains in selecting grass seeds, in order to secure the highest germination, and our mixtures are based on a full appreciation of the requirements of the different soils for which they are intended. We have made a study of this subject, and have grass specialists in our employ and can furnish the seed of the best varieties of grasses mixed in proper proportions for any soil or climate. Please read carefully the descriptions of the various kinds of grasses and remarks below on sowing grass seeds, and don't be content to follow the old way your father and grandfather did, but adopt new methods, sow improved varieties and double your crop.

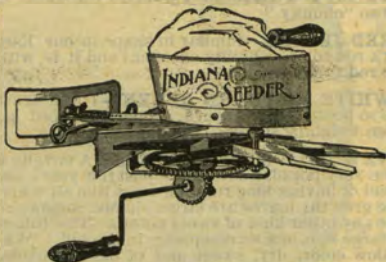
WHEN AND HOW TO SOW GRASS SEED.

The most rapid way of obtaining a grass crop is to sow the seed early in spring, by itself, without any grain, or nurse crop, as the young grass plants are in no way protected by the grain, and when this is cut the young clover and grass is very tender. The cutting of the so-called nurse crop suddenly exposes the young grass at the hottest time of the year, and there is danger of the grass being burned out, while when the grass is sown by itself the young plants are hardened and more able to withstand the hot and dry sun. However, some farmers will want to sow seed oats with the grass seed, and we wish to call their attention to our Early Champion Oats as being especially adapted for a nurse crop on account of its not stooling so heavily as other varieties. To obtain best results use only a moderate quantity of oats to sow with grass seeds.

After the ground is carefully prepared, the seed is sown broadcast, which can be nicely and evenly done and very quickly with the little hand seeders which we advertise. As seed is small it should not be covered very deep, the natural covering which may take place after a shower of rain is sometimes sufficient. However it is best and more certain to lightly harrow it in. The pressure of a common farm roller on Clover and Grass seed covers the same slightly, and is one of the best means to assure the quick and even germination of the seed.

INDIANA BROADCAST SEED SOWER.

Has a solid malleable iron frame, but the hopper and most of the balance of the machine is of steel. The bag will hold half a bushel. It is equipped with an agitator thus making a practical force feed, and also with a seed gauge for adjusting the quantity of the seed sown. A special feature of this machine different from all others is that the crank can be used either on the right or left side. It is therefore the only seeder that we know of that a left handed operator can use with ease. It weighs only 3 1/4 pounds; will sow 50 feet of wheat or rye at a round, 30 to 35 feet of flax, clover, timothy or millet, light grass seeds 15 to 30 feet. Price only \$1.50. Or we will give one of them free on orders for grass Mixtures amounting to \$20.00 or more.



Dairy Farmer's Grass Mixture

Dairy farmers particularly desire to take a crop of hay off the meadow have the aftergrowth for pasture where the natural grasses are selected with this object in view, be successfully done. This mixture is composed of tall, quick-growing varieties will cover the ground furnish grazing until late in the mixture consists of the best v. clover and grass seeds, as Red v. sike, Orchard Grass, Rye Grass, Meadow Oat, Meadow Foxtail, etc. a special mixture which will please one. Sow 20 lbs. per acre on o. soils. Per lb. 25c. 3 lbs. 65c postpaid freight, 22 lbs. \$2.50, 50 lbs. \$4.75, 100 lbs. \$9.25.

PERMANENT MEADOW MIXTURE.

Will make best quality hay every year, the mixture containing 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 medium or average soils. Sow 16 to 22 lbs. per acre.

NO. AND DESCRIPTION.	20 lbs.	50 lbs.	100 lbs.
No. 1, for medium soils.....	\$2 15	\$4 75	\$9 25
No. 2, for high, dry land light or gravelly soil.....	2 25	5 00	9 50
No. 3, for high, dry land heavy or clay soil.....	2 25	5 00	9 50
No. 4, for moist and rich soil subject to overflow.....	2 25	5 00	9 50
No. 5, for top seeding on marshes or swamps, sow 10 lbs. per acre.....	2 35	5 25	10 00

PERMANENT PASTURE MIXTURE.

Selected with a view to having a succession of grasses coming on constantly from earliest spring through the dry summer weather, and through the fall. It is permanent and keeps improving year after year. Sow 18 to 22 lbs. per acre, or for top seeding, half the amount.

No. 6, For medium soils.....	2 15	4 75	9 25
No. 7, For high, dry, gravelly soils.....	2 25	5 00	9 50
No. 8, For high, dry, heavy soils.....	2 25	5 00	9 50
No. 9, For moist and very rich soils.....	2 15	4 75	9 25
No. 10, For wood pastures, orchards, shady places, for a top seeding, sow 10 lbs. per acre.....	2 30	5 10	9 75
No. 11, For SHEEP PASTURE. Suitable for sandy soils and hillslides. Sow 20 lbs. per acre.....	2 35	5 25	10 00

No. 12, **Quick Result Pasture.**—Not permanent but when sown early will give a full crop of hay, and good pasture until late in the fall. Desirable for both cattle and hogs. Sow 15 lbs. per acre. Price 15 lbs. \$1.75 50 lbs. \$4.75, 100 lbs. \$9.00.

Permanent Hog Pasture.—Ready to use the first year, and many years thereafter. On any ordinary soil sow 15 lbs. per acre. Price 15 lbs. \$1.75, 50 lbs. \$5.25, 100 lbs. \$10.00.

We are prepared to select and make up special mixtures of Grasses for all particular purposes, adapted to all soils and climates. When in need, please write us, describing peculiarities of ground.

THE BEST. Not only in Iowa, but everywhere. W. B. Robinett, of Lockwood, Kentucky, says: "The grass seed received from you is the finest I ever saw. I like it much better than any I ever bought before, and am well pleased in every respect."

Your Hog Pasture Mixture made a good stand and I was satisfied with the results.—Geo. Wendel.

The clover and grass seed purchased from you grew splendidly and yielded well.—Fred Winter, Hubbard, Ia.

The seeds you sent us are indeed more than you claim for them. The timothy is fresh and clean; clover seed the cleanest I ever saw tested under a microscope. Please accept my thanks for honorable treatment.—John Mitman, Dodge Co., Neb.

All the seeds purchased of you have given good satisfaction. In particular your clover grass mixture No. 10 has given good results. I shall seed down more ground with this mixture next spring.—John U. Hunziker, H.—Neb.

The grass and clover seed and the clover grass mixture which I bought of you this spring has given best results. You may count upon my order for next spring.—G. Foehle, V.—Iowa.

Last spring I purchased a large quantity of different grass seeds of the Iowa Seed Co., which I mixed and sowed in my pasture. I must say that everything did splendidly and I shall seed down another tract of land with your seeds the coming spring.—Chr. Weiss, P.—Utah.

BERMUDA GRASS.

The most valuable grass for the Southern States, as it withstands heat and drouth wonderfully well. Is valuable for hay and pasture and unsurpassed for lawns in the south as it runs over the ground forming a dense turf. Nice for terraces. Sow 8 lbs. per acre Per lb. 81 25. 3 lbs. \$3.00, postpaid, 5 lbs. or more, not prepaid @ 85c per lb.

LARGE ORDERS.—If you desire to purchase a large lot of seed of any kind, be sure to send list and let us quote special prices. Our orders range from five cents upwards, but we are not afraid of big orders. Our largest retail order was for \$1,370.00 worth of seeds. Another customer's purchase amounted to \$1,487.33 during the season, but it was divided up into several orders. Both were perfectly satisfied. W. P. Turner, of Pennsylvania, who bought seeds of us to the amount of \$1,397.54, wrote us in the fall:—"All the seed has given perfect satisfaction."

SPILTZ OR SPELT.

A most wonderful new grain which was introduced by us and has proven of great value. For centuries past it has been grown in a limited way in eastern Russia near the Caspian Sea, its value not being known to the civilized world. Nine years ago an emigrant from there brought some to this country, and it yielded more than barley or oats. It is of high value for feeding and will make a fair grade of flour somewhat similar to rye. Will grow well and produce immense crops on poor soil, and dry weather appears to have no effect on it. Botanically it is known as *Triticum Spelta*, and is supposed to be the grain grown in Egypt in the time of Moses. It is mentioned several times in the Bible. It has given splendid satisfaction to our customers and every farmer should try it. Per large pkt. 5c, lb. 30c, 3 lbs. 75c, by mail, postpaid. By freight, per pk. 45c, bu. (40 lbs.) \$1.25, 2 bus. or more @ \$1.15.

"I am well pleased with the Spiltz purchased from you and all my neighbors want seed of it."—C. A. Pounder, Peterborough county, Ont.

Emil Sherman, of Sherman county, Neb., says: "I tested your new grain called Spiltz this year, and though we had a very dry summer, it did well. It stood out heavily; each kernel produced 28 to 45 sprouts and every sprout had a nice head averaging three inches in length. The straw was very stiff, and I do not think it will lodge even on rich soil, and is a heavy yielder."

"The Spiltz purchased from you does well in our climate and for poultry food will beat all other grains. I believe it will do well in the south as a winter grain also."—L. L. Weisbrod, Cape Girardeau county, Mo.

MONARCH WHITE RICE POP CORN.

Many farmers consider this their most profitable crop as it makes a large yield, commands a good price, and we have only known one year in the past twenty when there was an over-production. Why not put in a few acres this year. We have choice selected seed of the best variety, which we furnish at a low price. Per qt. postpaid. 40c. By freight, ½ pk. 60c, pk. \$1.00, bus. (will plant 20 acres) \$3.75

FIELD PEAS.

For the northern states there is no crop of greater value than Field Peas, and none is more neglected, which can only be attributed to a lack of knowledge as to its merits. They are a profitable crop to grow, in that the peas when threshed are always marketable, and they stand in the front rank as a fodder plant, being very rich in the elements that improve the muscle, bone and nervous system. Like all leguminous crops, peas have the power of extracting nitrogen from the air, and the soil is richer in nitrogen than before the peas were sown upon it. Sow two bushels to the acre or with oats, one bushel of each.

SCOTCH BEAUTY.—Best blue field peas. Will yield an immense crop. Superior quality. Pk. 60c, bu. \$2.25, 2 bus. or more @ \$2.00.

WHITE CANADA.—More used than any other. Per pk. 60c, bu. \$2.00; 2 bu. or more @ \$1.75.

WHIPPOORWILL COW PEAS.

The most highly valued plant in the south for fodder and for reclaiming old or worn out land, as it is a leguminous plant and of special merit as a fertilizer. The vines when fed green makes the best fodder and are very nourishing. The Whippoorwill is the most popular sort and yields a good crop both of fodder and peas. When ripened, the ground peas make the best cattle fattener. Per pkt. 5c. lb. 25c, 3 lbs. 60c. By freight, pk. \$1.00, bu. \$3.50.

MAMMOTH WHITE ARTICHOKE.

ARTICHOKE.

An improvement on the Jerusalem artichoke. The great hog food known. These are attracting much attention on account of their great fattening properties, great productiveness, (over one thousand bushels having been grown on one acre,) and the ease with which they can be grown. They need not be dug in the fall; the hogs should be turned on them, and will help themselves by rooting for them. One acre will keep from twenty to thirty head in fine condition from October to April, except when the ground is frozen too hard for them to root. They are also said to be a preventative of hog cholera and other diseases, and they are also highly recommended for milch cows, increasing the yield of milk and at the same time improving their condition. Three to five bushels will seed an acre, and they may be planted whole or cut the same as potatoes. One eye to a piece being sufficient. Plant in April or May, in rows three feet apart and two feet in the row and cover about two inches deep. To destroy them they should be plowed under when the plant is about a foot high, at the time the old tuber has decayed and new ones are not yet formed. Seed artichokes are quite scarce this year, therefore it would be advisable to place your order early and secure a supply from our choice stock. Lb. 25c, 3 lbs. 60c, prepaid. By freight or express, pk. 50c, bu. \$1.25, bbl. \$3.00.

EVERYBODY SAYS THAT**PENCILARIA**

Is the Most Wonderful Fodder Plant of the Age.
Read Description on Page 41.

Read What They Say:

"I can highly recommend your Pencilaria as it did well with me in spite of the unfavorable season and made good fodder."—George Holman, Clermont county, Ohio.

"I grew sufficient of your Pencilaria from the small sample to satisfy me that it would yield an immense crop under favorable conditions."—Martin Helgeson, Lyman county, S. D.

"The Pencilaria made a wonderful growth this year and is a good fodder plant. I raised one plant this season that had 45 stalks grown from one seed, and my Mangel beets are the best in this country."—J. F. Kent, Burnett county, Wis.

"The Pencilaria did very well and I have some of the plants on exhibition at our country newspaper office."—F. A. Davidson, Phelps county, Neb.

"I planted the Pencilaria seed early in the season and it grew to a height of fourteen feet. It made a much better feed than either corn or sorghum cane besides more of it and it kept green until after frost."—Paul Sedloy, Dinwiddie county, Va.

TRY PENCILARIA this year. Price, per pkt. 10c, ¼ lb. (will sow an acre) 35c, ¼ lb. 60c, 1 lb. \$1.00.

SEED SWEET POTATOES.

For twenty years past our firm has been known as headquarters in central Iowa for choice seed sweet potatoes. Our stock is grown, stored and handled especially for seed purposes and cannot fail to please all. So perfect is our manner of packing that there is rarely a complaint, although they are usually considered very perishable, by reason of changes in the weather or rough handling, but we cannot guarantee safe delivery. Price subject to market changes. We usually ship about April 12 to 20. If desired we will send you a copy of our circular telling how to grow sweet potato plants, free; read Fitz's Sweet Potato Culture; price 60c, postpaid. See page 23 for price of plants.

NOTICE. Seed Sweet Potatoes are such a short crop and they are keeping so poorly that we cannot quote price now. Ask for price when you are ready to buy.

EARLY YELLOW JERSEY.—In spite of the many so-called new varieties, all of which we have tested, Early Jersey holds the first place. The earliest and most productive; of large, short chunky shape and of very best quality. It will probably always remain the most popular market sort.

YELLOW NANSEMOND.—Like the above, but averaging longer and not so "chunky."

RED JERSEY.—Similar in shape to our Early Yellow Jersey but of a dark red color. Quality excellent and it is without doubt the best of all the red varieties.

WHITE SOUTHERN QUEEN.—These are the large "Yams" which are so popular in the south. Even the seed potatoes are monster size often weighing several pounds each.

NEW GOLD COIN VINELESS.—A novelty of great merit which has been very popular during the past few years since its introduction. Instead of having long running vines like all other sorts it is of dwarf bushlike growth; leaves are large, shaped somewhat like a maple leaf and unlike any other kind of sweet potato. The tubers are yellow, of medium to large size, and lie compactly in the hill. When cooked the flesh is rich yellow color, dry, sweet and of best possible quality. They are quite productive, an immense crop can be raised, because owing to their peculiar manner of growth they can be planted closer together and require less labor in cultivation.

Any of above varieties by mail, postpaid, at 35c per lb, 3 lbs \$1.00. Ask for price in quantity.



SEED POTATOES.

With no other seed is the importance of change more essential than with potatoes and by using our northern grown seed you are assured of early maturity, increased yield and vigorous growth. The following varieties are, we think, the best and most satisfactory sorts for growing in Iowa and other states of the same latitude, and we have many customers in the north and far south who consider our stock much superior to any other.

Order as early as possible, stating whether you desire them shipped by express or freight, and we will ship as soon as the weather permits. We will ship at any time, when requested to do so, regardless of the weather, but customers in this case must take the risk. Those living at a great distance should look up freight or express rates before sending orders. Prices are subject to any important market changes. Ask for special quotations on large lots. At prices named we make no charges for boxes, barrels or drayage.

POUND PRICES.—All varieties 25c per pound, 3 pounds 60c, postpaid.

Read T. B. Terry's new book—"A. B. C. of Potato Culture" Price 40c, postpaid.

BLISS' TRIUMPH. The Earliest Potato in Existence.—A handsome round variety which is by far the earliest variety in the world, maturing a week before the Extra Early Ohio, and is wonderfully productive. The tubers are not large, but are of a nice medium size for early use, round as a ball and a beautiful red color. For several years past it has been the most popular variety in the southern states and in the Bermudas, and hundreds of carloads are shipped to the northern markets, and bring fancy prices. There is always such a demand for them that the seed is scarce, and invariably brings a good price the following season. It is a vigorous grower, and we cannot recommend it too highly for the first early market or family use, especially in the south, not so desirable for main crop; pk. 65c, bu. \$2.00, bbl. \$5.50.

A CROP SIX WEEKS FROM PLANTING.
THIS IS NOT A FANCY PICTURE BUT AN ACTUAL REALITY.



BLISS' EXTRA EARLY TRIUMPH.

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 proven 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, second only to Bliss' Triumph. They are all of good average size, strictly pure, smooth and free from scab or rot, and outyield other early sorts greatly. It is a special 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 keep firm till late in the spring. This variety is frequently sold under name, Extra Early Six Weeks. This is our specialty in standard varieties. Very scarce this year and price is higher. Peck 75c, bu. \$2.25, barrel \$6.00.

EARLY OHIO.—Grown in Iowa. Our stock is as nice as any which can be obtained, we think, and is desirable both for early and main crop. Per pk. 65c, bu. \$2.00, bbl. \$5.50.

MINNESOTA EARLY ROSE.—The Early Rose will doubtless always be a favorite sort and our Minnesota grown stock is much superior to the Iowa grown in size and earliness. Pk. 65c, bu. \$2.00, bbl. \$5.50.

EARLY BEAUTY OF HEBRON.—A standard early sort and largely grown also for main crop. Pk. 65c, bu. \$2.00, bbl. \$5.50.

PAT'S CHOICE.—This splendid main crop variety has a long, smooth, handsome tuber which is of excellent table quality and will please anyone. It matures in mid-season and yields a wonderfully large crop. The universal testimony among potato growers is that Pat knew what he was about when he made this choice. Per peck 75c, bushel \$2.50, barrel \$7.00.



EXTRA EARLY OHIO. (Grown in Red River Valley.)

SIR WALTER RALEIGH.—Originated with Mr. E. S. Carman who brought out the well known Rural New Yorker No. 2, and this has been called "Carman's Best." Resembles the R. N. Y. but is more uniform and of unsurpassed quality. A standard for main crop. Per pk. 70c, bu. \$2.25, bbl. \$6.00.

RURAL NEW YORKER NO. 2.—One of the largest yielding varieties in existence. Large and unusually smooth, with few and shallow eyes; skin white as is also the flesh, which is of superior quality. Medium late and the best drouth resister. Per peck 60 cents, bushel, \$1.75, barrel, \$4.75.

CARMAN NO. 3.—This handsome new main crop potato is of large size, yielding immense crops of uniform size and shape. It is of perfect form, as shown by the illustration, almost every potato being of same size and shape, and averaging nearly one pound each in weight, in good seasons. It has but few eyes, and they are shallow; the skin and flesh are extremely white and its cooking qualities are very fine. It is a remarkably handsome potato, enormously prolific, and will please all potato growers. Keeps well. Per pk. 65c, bu. \$2.10, bbl. \$5.75.

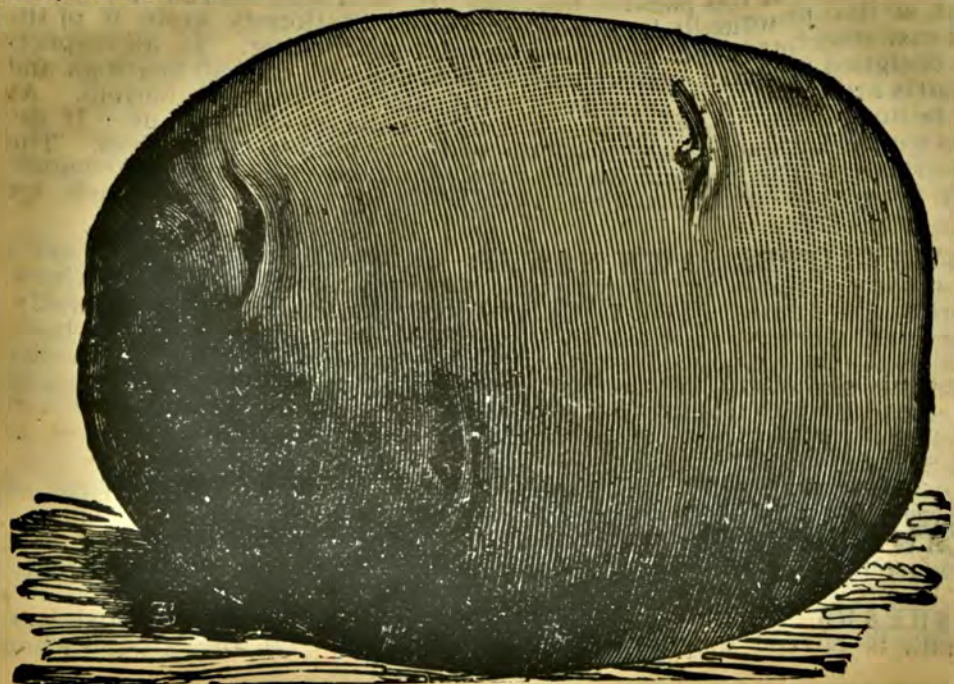
BONANZA.—One of the leading varieties for main crop. The tubers are large, oblong, somewhat flattened, skin dark red, smooth, flesh firm, white and fine grained. Productive and of superior quality. Per pk. 60c, bu. \$1.75, bbl. \$4.75.

COLLECTION.—One lb. each of the foregoing 10 varieties for \$1.00 by express, purchaser to pay charges, 1 peck of each, \$5.50.

HYBRIDIZED POTATO SEED.—Potato seed from the flower boll, (the true seed. It is from such seed that all the choice new varieties of potatoes are originated. Every farmer boy ought to "try his hand" with one or more packets of Potato Seed, and his father should get him the seed, give him the ground and time to attend same. The result is interesting, and often very profitable as you are just as apt to obtain a choice new variety as an experienced potato specialist. Pkt. 10c, 3 for 25c.

Potatoes received O. K. and they are very nice.—L. Woodman, Blocksburg, Cal. The barrel of Extra Early Ohio Potatoes received from you were all right in every respect.—D. E. Hoffman, Arcanum, Ohio.

I got a barrel of Bliss Triumph Potatoes from you last spring and am sorry it was not five barrels as I have been selling them at \$2.00 per bushel and could easily have sold more.—J. B. Ayle, Emmet Co., Iowa.



CARMAN NO. 3.

NICE LAWN

Adds More to the Value and Beauty of a Place
Than any other Adornment.

*Thank God for grass! No other glory vies
With the refreshing glory of the grass;
Not e'en the blue of the o'erbending skies,
Nor fading splendors when the daylight dies,
Can this sweet smile of living green surpass.*

Every lawn adds more to the beauty of a place than any other, and even the humblest home may be made attractive with sundries, while without a good lawn even the finest flowering elegantly arranged beds seem insignificant. How important a plan for the best lawn obtainable. Do not spend money in lawn, for it is expensive and seldom satisfactory. When sod is the roadside or some out of the way pasture, it is poor in quality of weeds and when unevenly laid produces a rough surface disfigures the lawn. It costs much less to sow the seed and the far better. Ask for circular, "How to Make a Lawn."

VERGREEN MIXED LAWN GRASS SEED.—This is a mixture of the best varieties of grass seeds, suited for growing together in the central and northern states, and will make a beautiful soft velvety lawn and 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 to eight weeks. It is permanent, maintaining its beauty for a lifetime, although it is a good plan to give any lawn a top seeding once in every two or three years. This mixture is made by ourselves from new crop, re-cleaned pure seeds of the best varieties, well suited for even and permanent growth, as good as money can buy. It cannot be excelled for producing a rich velvety lawn of beautiful dark green color. Price per qt. (will sow 300 square feet), 25c, 4 qts, 85c, postpaid. By freight, per bushel 15 lbs. \$2.75, 50 lbs. \$8.00, 100 lbs. (will sow one acre) \$15.00.

TERRACE LAWN MIXTURE.—It is sometimes difficult to get a good sod on sloping ground, terraces, side hills or embankments. This is a mixture of such grasses as have strong spreading roots, making a close turf, which the heavy rains cannot easily wash out. Per qt. 35c, 3 qts. 90c postpaid. By freight, per bu. (15 lbs.) \$3.60.

WHITE CLOVER.—Makes a close turf and looks nice, mixed with lawn grass. Per lb. 40c. 3 lbs. \$1.10 postpaid.

CENTRAL PARK LAWN GRASS SEED.—A very nice mixture for lawns but is of special value for parks and around country homes where it is not convenient to mow the lawns frequently. It contains some fragrant grasses which give out a delightful odor when growing or when cut. It is the grass for country homes, parks and large estates and for this purpose sow about 50 lbs. per acre. Per qt 20c, 4 qts. 75c, postpaid. By freight, bushel of 15 lbs. \$2.50, 100 lbs. \$14.00.

SHADY LAWN MIXTURE.—Just the thing for sowing under shade trees, as it is a combination of grasses which grow naturally in the woods and are of dwarf evergreen growth. Per qt. 35c, 3 qts. \$1.00 postpaid. By freight, per bu. (15 lbs.) \$4.00.

KENTUCKY BLUE GRASS.—Many of our customers prefer a clear blue grass lawn to the mixtures. Our stock of this is the best grade of fancy cleaned new crop, tested seed. Per lb. 30c. 3 lbs. 75c, postpaid. By freight per bus, of 14 lbs. \$1.50.

GRASS CATCHERS.—The most successful device yet brought out for the purpose. It is easily attached to any make of Lawn Mower that we know of, and as it fastens to the handle only, it does not in any way interfere with the action of the mower. Our cut shows it adjusted ready for use. It can be almost instantly loosened at the lower end to dump the grass. No. 1, suitable for the 12, 14 and 16 inch mowers. Price 65 cents. No. 2 for 16 to 20 inch, 90 cents.

HORSE LAWN MOWERS.—Ask for prices.

LAWN WEEDERS.—See page 96 for description.

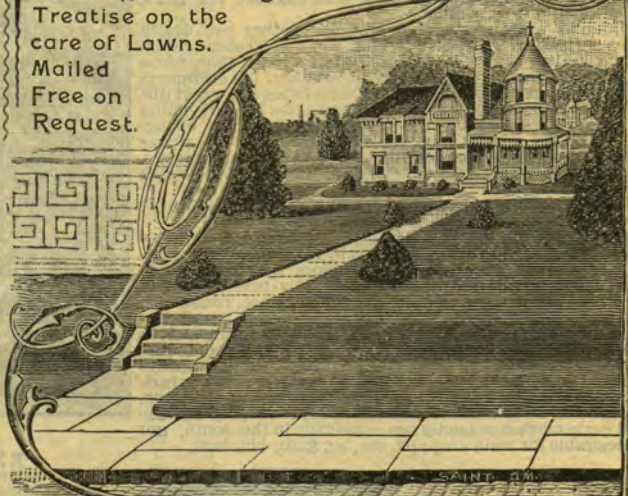
GRASS HOOKS OR SICKLES.—Standard makes. Each 50c. & and 75c.



Iowa Clipper
Lawn Mower
and . .
Grass Catcher.

LAWN BOOKLET.

A Complete 16 Page
Treatise on the
care of Lawns.
Mailed
Free on
Request.



PEERLESS LAWN FERTILIZER

—You cannot expect your lawn to look fresh always when you are cutting a crop of grass from it every week. Lawn grass is a voracious feeder and requires fertilizer. Our Peerless Lawn Fertilizer is of the best quality, dry, finely pulverized and easy to apply. Use 10 lbs. for 1,000 square feet of lawn or 400 lbs. per acre, early in spring. Price per 10 lb. pkg. 60c. 25 lb. pkg. \$1.00, 50 lb. pkg. \$1.85, 100 lbs. \$3.50. If shipped direct from factory 400 lbs. for \$8.50.

SELF CLEANING LAWN RAKE.

—Best device for raking the lawn. An automatic self cleaner, keeping the teeth clear of refuse. 75c each.

EUREKA WEED KILLER.

Weeds, grass and moss are a nuisance on gravel and brick walks and driveways. They are easily killed and the walks made bright and clean by using this preparation, one package of which is sufficient when mixed with 25 gallons of cold water to clear 100 sq. yds. Pkg. 75c, by express.

NEW BALL BEARING CONQUEROR LAWN MOWER.—For five years past one of the oldest and largest manufacturers has been experimenting to adapt the ball-bearing and other new features to lawn mowers. For two or three years he has put out a few dozen each year to give them a practical test and they have proved wonderfully successful. Last year he put them into our hands and consequently we can now offer our customers by far the best mower ever put on the market. The shaft is extra heavy bearing four cutting knives, and it runs at a high speed compared to ordinary mowers. This gives it a continuous cut and makes a much smoother, cleaner lawn. The wheels are 9 inches in diameter, with skeleton rims. It has parallel bearings provided with micrometer adjustment, so that practically it cannot wear out. Stationary knife is of the best cast steel hardened, tempered and self-sharpening. In all respects it is designed for hard, continuous service, and still the ball-bearings and all parts are so perfectly adjusted that it runs as easy as a bicycle. As will be noticed the handles are a new style made specially for us. If desired we can furnish mowers with the ordinary handles at 50c less. The mowers are warranted and we are sure will please the most particular. Price for mower cutting 14 inch swath \$6.50; 16 inch \$7.00; 20 inch, for large lawns \$7.75.

IOWA CLIPPER LAWN MOWER.—For 3 years past we have sold a great many of these and they gave splendid satisfaction everywhere. There was not one complaint. It is thoroughly well made, runs easily, does excellent work cutting smooth and clean. Diameter of drive wheels 8 1/4 inches. Its cutting bar is solid steel and all parts are of best quality while its simplicity of construction insures durability and also lessens the cost. By purchasing a large number we are enabled to offer them at wonderfully low prices. Price for mower cutting 12 inch swath \$2.75. 14 inch \$3.25, 16 inch \$3.75.

RUBBER HOSE.—A good strong quality, better than that sold in most places. Per roll of 50 feet \$5.00. Best Quality. Such as we use on our own grounds, per roll \$7.50.

FINLAY ROTARY LAWN RAKE.—It does the work of raking and gathering up all loose grass, leaves, twigs and loose litter. It works very rapidly and cleans the lawn thoroughly. Price \$12.00.

IMPROVED GRASS SHEARS.—An improvement on the ordinary grass or sheep shears. Has long blades and handle is curved to prevent rubbing knuckles on the ground when using. Each 5 c.

TURF EDGER.—For trimming borders of walks, drives, etc., to make a square edge. Ea. 50c.

Novelties and Specialties for 1902.

"WHAT have you that is especially new and desirable this year?" is the first question asked us by many of our patrons, and last summer spent months searching through Europe and America for varieties which were not only new, but of decidedly superior merit, and the following pages on colored paper contain much which is of great value. Some of them are novelties and others are sorts of rather new introduction, but of such superior qualities that we call special attention to them by giving them a place here. Each is faithfully described from careful observation. All are worthy and recommended by us. Aside from these, many desirable novelties will be found listed in various other catalogues as well as the standard sorts which every one wants for stand-bys. Notice the collection of novelties offered on cover and colored plates



NEW CONTINUITY LETTUCE.

GOLDEN NUGGET TOMATO.

When at the Royal Agricultural Show of England last year, our attention was especially attracted by this grand new variety; plants being on exhibition which were loaded with seventy to eighty fruits on each plant. The fruits are of the most beautiful dark golden yellow color, as round as a ball and about as large as a walnut. Flavor is exceptionally fine, and we have no doubt they will prove a most desirable variety for eating from the hand as a desert fruit. They are a new sort however, in England, and we were able to obtain only a small quantity of seed, but it is so desirable that we thought best to offer it to our customers this year rather than delay its introduction to another season. In packets of thirty seeds 15c. each, two packets for 25c, ten packets for \$1.00.

NEW CUMBERLAND CUCUMBER

For several years past Mr. C. P. Coy, the veteran seed grower has been at work trying to perfect a cross between the Peerless White Spine and Japanese Climbing Cucumber, and he has finally succeeded in attaining this very superior sort, which he calls the Cumberland. It is a hardy, rapid, vigorous grower, and one of the most prolific varieties that we know of. The pickles differ from all other sorts in being thickly set with fine spines over the entire surface except the extreme stem end. They are exceptionally straight and symmetrical, and the flesh is crisp and tender, so that we are safe in calling it the best pickling cucumber on the market. Our seed is grown for us by Mr. Coy and is therefore pure, and we are sure it will please all cucumber growers. This is the first year that it has been offered by any seedsman. Per pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.00.



GOLDEN NUGGET TOMATO.

NEW GOLDEN GLOBE ONION.

One of our seed growers in northern Iowa has been at work for several years past improving the Yellow Globe Onion, and he has now secured a variety which is the handsomest shaped and best keeping sort that we know of. Our cut, made from a photograph illustrates a crate filled with these onions, which throughout the crop were uniform in size and of perfect shape, there being no off shape bulbs in the lot. They are also one of the best keeping varieties that we know of, as we have kept specimens in a warm steam heated office room for several months without their showing any signs of sprouting; while ordinary onions beside them sprouted badly and became so soft as to be of little value. We most highly recommend this new variety for private family use as well as for market gardeners, and believe that they will prove to be the most profitable variety on the market as well as the handsomest, most prolific, best keepers and easiest sellers, making them in all respects the most desirable variety that we know of. Per pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.00.

1902 Vegetable Novelty Collection.—Consists of one packet each of the five novelties illustrated on back cover of catalogue. New Continuity Lettuce, Alexandria Squash, Golden Nugget Tomato, Cumberland Cucumber and Golden Globe Onion for only 30 Cents.

SUPERB TOMATO.

It is indeed a superb new variety which is sure to please every one with its high quality. It originated with one of our growers a few years ago and has been carefully selected to perfect the type. It is a sport from the old purple Mikado, retaining the robust healthy growth and potato shape leaf of that variety, but the fruit is bright crimson, same color as the Matchless. It matures at mid-season and is very productive. It is hardy and stands a frost which will kill other sorts, and it is also an excellent drouth resister. The fruits are smooth, of medium size, and superior quality. When other varieties were badly affected with blight the Superb showed no signs of it. Price per pkt. 10c, oz. 35c.

NEW CONTINUITY LETTUCE.

In this grand new variety we have one of the most distinct and desirable now on the market. The outside leaves are of a very dark brown color, with purple, while the inside of the head is fine creamy white, tender, crisp and well flavored; making it in all respects a very desirable sort. It is especially commended for holding out through the hot dry weather, such as we had summer, and remaining crisp and brittle at all times. We most highly recommend it and believe that it will please everyone. Per packet 10c, oz. 35c.

ALEXANDRIA SQUASH.

This novelty for 1902 originated on the place of Mr. F. B. Van Ornam, the well known seed grower who introduced the Sibley or Pike's Peak squash a number of years ago, which was claimed to be the only variety of winter squash which was ever brought out which was equal to the Hubbard. This new variety however, did not originate on Mr. Van Ornam's place, as a seed was brought from Alexandria, Egypt; but it has proved to be especially desirable for growing here. Its shape is well shown by our illustration on back cover of this book, being somewhat similar to the Ford Hook, and about the same size, but it is perfectly smooth, without ribs, and the shell is very hard. It is a rapid, vigorous grower, produces a large number of fruits and is an excellent keeper. Squashes may be cooked at any time during the season. As a summer squash when half grown, they are fully equal if not superior to other sorts. As a winter squash it is highly relished either baked, stewed or in pies. It does not however, cook as dry as the Hubbard. Per pkt. 10c, oz. 25c, $\frac{1}{4}$ pound 75c.

COOPER'S MARKET KING BEET.

When in England last summer we found this new variety growing on the place of Mr. Cooper, one of the largest seed growers and experimenters in that country and we were so much impressed with its value that we contracted at once for the seed. It is a half long variety and will therefore yield more bushels per acre than any round sort. The roots are very symmetrical and of fine dark red color and very solid. Flesh is also dark red, fine grained and of excellent quality. It is a quick grower and also one of the best keeping sorts. It may not be generally known, but a large part of the beet seed used in America is grown in England as the moist atmosphere is well adapted to growing a fine quality of seed. We are sure this new variety will please everyone and we most highly recommend it. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

LOUISIANA CREOLE ONION.

In many parts of the south the ordinary varieties of onion seed either will not produce a bulb or the bulbs are so soft as to be unmarketable. This year we have secured seed of the noted Creole Onion which is the only variety really desirable for southern planting. It is what might be called yellow-red in color, the bulbs are medium to large in size, of flat shape and excellent quality. Seed may be sown either in spring or fall. We most highly recommend it to our southern customers believing that it will prove the most satisfactory kind for them, especially if they desire to ship to northern markets. Per pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.



NEW GOLDEN GLOBE ONION.

Erfurt Early Prolific BROAD BEANS.

Erfurt

ort Broad Beans.

Five to nine beans of extra large size, larger than the ordinary Lima Beans and of most delicate flavor. The plant is of robust, upright growth, entirely different from any of the ordinary varieties of beans. Pods measuring 12 to 14 inches in length are not uncommon and they are so broad and handsome in appearance that they prove very attractive on the market. Under special culture pods have been produced 20 inches in length, containing 12 fine beans. They are more hardy than most varieties of beans and may be planted earlier in the season. Plant in rows about two feet apart, and six inches apart in the row, covering 1½ to 2 inches deep. The top of the stalk should be nipped off as soon as the plants begin to flower as this induces earliness. Our stock is somewhat limited, but still we hope that every one of our customers will order at least a trial packet. Per pkt. 10c, ¼ pt. 20c, qt. 65c, postpaid.

New Hester Squash.

This extra choice new variety which we introduced, may be called a yellow Sibley Squash, as it is a strain of that well known variety which has been selected and improved by Mr. Wm. Hester for many years. The old Sibley or Pike's Peak has for many years past been considered the only variety which surpassed the Hubbard in quality every year. Mr. Hester secured a few seeds of the Sibley direct from the originator about 12 years ago, prior to its introduction. One of these produced a vine which bore fruit different from the type and color and also much earlier. It is of same shape as the parent variety, but the color is of a pinkish yellow, slightly striped at the point with light green. They are early and quality is excellent even when fruit is quite small so that they can be used as an early summer squash. From that time until mid-winter they are the best of all squashes, and under proper conditions will hold their own until spring. One lady said after testing their delicate flavor, "They are good enough for fairies," and this suggested our illustration which represents the pet of our family—Lilly Page—tasting the baked squash. When stewed or steamed they are drier than when baked and they make the most delicious pies. Our crop was nearly destroyed by a flood, so that we can offer it in packets only this year. Per pkt. 10c.

Sweet Woodruff.

This plant, known botanically as *Asperula Odorata*, is a sweet scented herb highly valued by the Germans and forms the principal ingredients of the famous German Maltrank. Per pkt. 5c, oz. 60c.

HESTER SQUASH,—"GOOD ENOUGH FOR FAIRIES."

assumes a fine golden color which makes the *Sauerkraut* better liked, more appetizing and more saleable than any other. It pays to grow and put up *Sauerkraut* and you should have the Erfurt Round Sugar if you want to obtain the highest prices. Per pkt. 10c, oz. 30c, ¼ lb. \$1.00.

Apple Pie Melon.

This is a novelty which will be appreciated in many sections of the country and especially so during seasons when apples are scarce or high in price. The vine and fruit are quite similar to a watermelon and they are easily grown on any good soil. Each vine produces from five to fifteen fruits, and one of the large sized melons will make as many pies as a bushel of apples. We have estimated carefully in our field that one vine would produce an average of about 300 pounds, and this is equal to six bushels of apples, as there is not a waste of cores and peelings that you have with the apples. The flesh is white, solid throughout and of excellent quality for making pies, sauce, preserves, etc., and it greatly resembles apples in flavor. They keep nice and fresh all winter, so that they can be used at any time, and any surplus you may have may be fed to the live stock. In fact it would pay to grow them for this purpose alone as they can be kept and fed fresh all winter. We sent out small packets of this variety to several thousand customers last year and everywhere they proved highly satisfactory. Sold this year in packets only. Per pkt. 10c, 3 pkts. for 25c.

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

"I have used your seeds for four years and have always had good success with them as they all grew nicely."—Miss Belle Owen, Cross-
ingville, Penn.



NEW TRIUMPH RADISH.

New Triumph Radish.

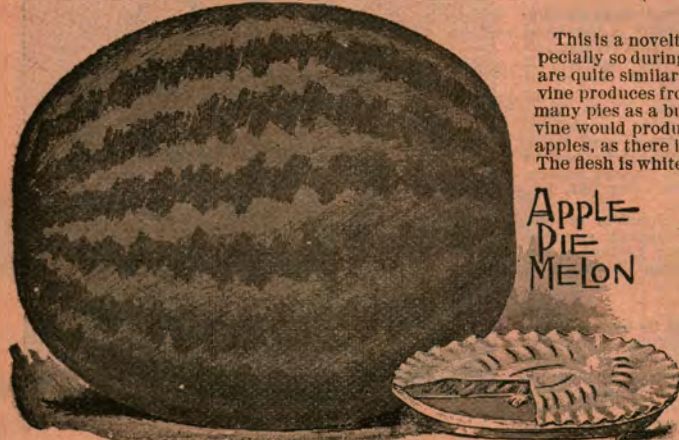
A beautiful and valuable new variety of Radish which is a decided novelty, being both unique and valuable. It is of the shape shown in our illustration, round, with white skin striped bright scarlet, being decidedly ornamental when placed on the table. It is very early, maturing in three weeks, has very small top, thus adapting it to cultivation in hotbeds. The flesh is white, crisp, tender, and of as good flavor as any radish grown. It being a sport some of the roots are always of solid color, not variegated. It will please everyone for family use. Per pkt. 10c, oz. 20c, ¼ lb. 60c, postpaid.

Mammoth Ground Cherry.

For several years past we have thought the Yellow Ground Cherry was a fruit which could be improved, and by hybridizing and selecting we have finally secured a mammoth size fruit, fully 1½ inches in diameter, which is of fine flavor. Thousands of our customers will want to try it, but we can only offer it in packets of 40 seeds. Price per packet 10c.

Erfurt Round Sugar Cabbage,

A novelty from Germany which is entirely distinct in character and color. It ripens in mid season and makes a very hard, solid, heavy head with short stem. Head is round as a ball, smooth, fine flavor, sweet, superior quality for all purposes. Its great characteristic, however, which distinguishes it from all other sorts is that when pickled it makes the *Sauerkraut* better liked, more appetizing and more saleable than any other. It pays to grow and put up *Sauerkraut* and you should have the Erfurt Round Sugar if you want to obtain the highest prices. Per pkt. 10c, oz. 30c, ¼ lb. \$1.00.



APPLE
PIE
MELON

Improved Triumph Watermelon.

The Largest of all Melons.

Mr. Girardeau, the originator of several of finest melons on the market, has brought out this grand new sort and to prove his claim of largest size he offered prizes aggregating \$210.00 and the first prize was won with a melon weighing 149 1/4 lbs. and one grower pulled melons aggregating over 800 lbs. from one vine. Ain't that enough to make the pick-innies dance, as shown in our picture? It is solid, of dark green color, matures fairly early and is of excellent quality. Pkt 5c, oz. 15c, 1/4 lb. 40c, lb. \$1.20.

Governor Candler states "that he had one of the Triumph Melons weighing 132 lbs., which was of fine quality and was sufficient to supply the forty three persons present with all they could eat."

African Horned Cucumber.

A remarkably curious novelty which is not only an excellent fruit for table use or pickling but is a highly ornamental climbing vine of most luxuriant growth and fine for trellis or screen. It is the fruit, however, which is the most curious and distinct feature. It averages, when mature, about 4 inches long by 2 1/2 in diameter, and is covered with strong protruding points or horns. The skin is perfectly smooth and of a very deep dark green. When the fruits ripen they turn a brilliant orange and yellow, in speckled and clouded effects, and are then highly ornamental. These ripe fruits are of great value for decorative purposes as they will keep sound and perfect for weeks. Pkt. 10c.



NEW ICICLE RADISH.

Early Sunrise Sweet Corn.

This splendid new variety which we introduced originated with a market gardener in the west part of this state, and for eight years he has been selecting it to an ideal size and also the earliest maturing. In this way he has finally obtained this variety, which is distinct from all others. Ears about 6 inches long, well filled out at end, and husk covering so completely and being so tight as to prevent work of worms, which are so bad in Cory. Grains fairly deep and set in straight rows on small white cob; very uniform and handsome. Quite productive and of as good flavor as any corn we ever tasted. Don't fail to try it. Market gardeners will find Early Sunrise most profitable and satisfactory variety; pkt. 5c, 1/2 pt. 15c, qt. 50c, postpaid; freight, 1/2 pk. 60c, pk. \$1.00.

The Maine State Bulletin, No 27, states that the Early Sunrise was as early as any variety in their long list, much larger and better than Cory; in quality equal to most of the later varieties and the most prolific of all. They say it is worthy of special mention.



New Icicle Radish.

A magnificent novelty from Germany which receives its name from the almost transparent whiteness of the root which has no comparison among all cultivated radishes. The shape is well shown in our illustration. It is of the best flavor, very crisp and brittle. It vies in earliness with the earliest forcing sorts producing nice roots in 22 days from date of sowing and it continues in prime condition for a longer period than any other variety, so that from one sowing of seed nice crisp radishes may be had from early in spring until mid-summer. This adds greatly to its value for the family garden. It is one of the best European novelties which has been introduced for several years and should become very popular. Per pkt. 5c, oz. 15c, 1/4 lb. 50c.

Gradus or Prosperity Peas.

The Finest, First-Early Wrinkled Pea. This new extra early green wrinkled pea is an acquisition and will soon become one of our most popular varieties. We may now have large, tender peas sweet and delicious, in early June. The gradus will yield an abundant supply of the most tender wrinkled peas much earlier than other wrinkled varieties, and they proved to be, as claimed by the introducer, only three days later than the best stocks of the small extra earlies, such as First and Best, etc. It is also the earliest large podded pea in cultivation. The vine has heavy stems, with large dark green leaves, and grows from 2 1/2 to 3 feet in height. It produces uniformly large pods measuring from 4 to 5 inches long, well filled with peas of enormous size for such an early variety. The peas remain edible, tender and sweet for some time. Seed is very scarce this year. Pkt. 10c. 1/2 pt. 25c, qt. 75c. By freight 1/2 peck \$2.00, peck \$3.50.

Giant Fringed Winter Endive.

Endive is one of our best and most wholesome salads for fall and winter use and some people call it winter lettuce. This fine new variety is the best of all. It is a strong, vigorous grower, making a large, white heart and the leaves are beautifully curled and of the best quality, very crisp and refreshing. Sow seed in April for early use, or in June or July for winter. Pkt. 5c, oz. 20c, 1/4 lb. 60c, lb. \$1.75.

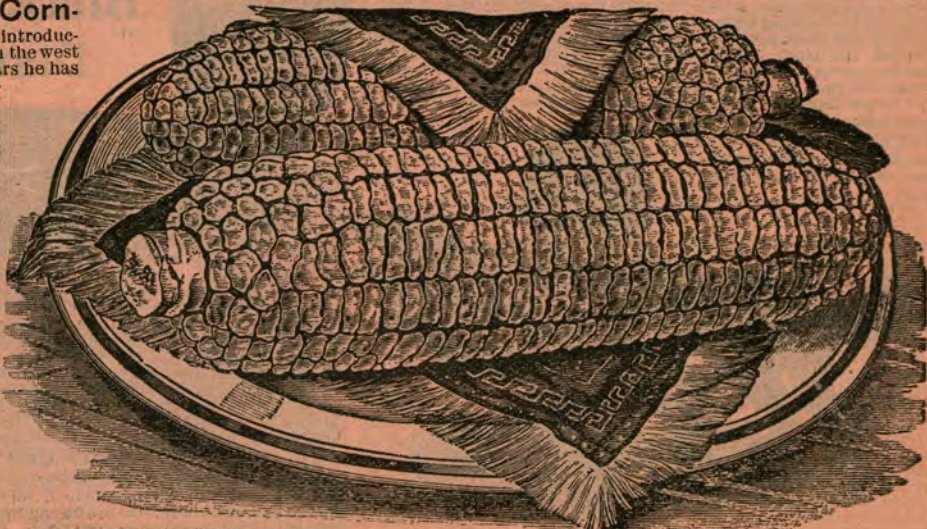
ASBESTINE.

The wonderful fire-proof and weather-proof paint, is the best paint we know of for farm buildings. It is very cheap but still is so superior to oil paint, that it is used on the private home barns of the wealthiest people of this city. It destroys germs and is therefore desirable also for poultry houses, etc. It is a dry powder which when mixed with cold water, makes a smooth perfect paint. Price for the white 5 lb. pkg., (will cover 500 square feet, smooth surface, or 240 to 400 feet of rough) 35 cts., keg of 50 lbs. \$3.00. Ask for price list of black and 16 other colors.

SEEDS for FLAVORING, MEDICINE, etc.

This list, crowded out of body of catalogue, is of seeds desirable for above uses, but owing to insufficient vitality, not desirable for seed.

Anise, oz. 7c, 1/4 lb. 20c, lb. 60c.
Caraway, oz. 5c, 1/4 lb. 15c, lb. 40c.
Celery, oz. 5c, 1/4 lb. 15c, lb. 40c.
Dill, oz. 5c, 1/4 lb. 15c, lb. 40c.
Mustard, oz. 5c, 1/4 lb. 10c, lb. 30c.
Watermelon, oz. 5c, 1/4 lb. 10c, lb. 30c.
Parsley, oz. 5c, 1/4 lb. 15c, lb. 40c.
Pumpkin, oz. 5c, 1/4 lb. 10c, lb. 30c.



EARLY SUNRISE SWEET CORN.

European and African MUSKMELONS MIXED.

We grow large quantities of melon seed and when in Europe last summer we tried to make arrangements to supply the dealers there, but they would not purchase as they liked their native varieties better. Personally we do not think that they equal the American sorts, but some of our customers may think differently and we would like to have you compare them. We secured seed from various parts of Europe and Africa and offer them in one grand mixture, which includes many curious sorts, one of which is shown by our illustration. Per pkt. 10c, oz. 35c.

ALPHA CABBAGE.

This novelty was produced by C. L. Allen, the noted horticulturist. It is by far the earliest flat headed variety in existence being several days earlier than even the Jersey Wakefield. It is remarkably solid rivaling the Danish Ballhead and is wonderfully free from the loose superfluous leaves. Its compact growth permits setting plants in rows 24 inches apart and 10 to 12 inches in the rows. Although last season was disastrous to the cab-

bage crop on Long Island where this variety originated still it did not appear to affect the Alpha at all, as the heads were quite uniform. It has a short stalk or stem and the heads are 6 to 8 inches in diameter just the right size to sell well on the early market. We predict that it will become very popular with market gardeners, and the value of the home garden will also be increased if it contain some of this useful early variety. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c lb. \$3.00

NEW ATLAS PUMPKIN,

What do you think of a pumpkin weighing 300 pounds. It is not an impossibility as that weight has been exceeded in this variety, which is an improvement on the Mammoth Chili. One specimen shown at the World's Fair is said to have weighed 481 pounds, but such a weight is extraordinary. Our seed is the result of years of selection and was 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, etc., and just think of the enormous weight that can be grown from one seed. Flesh is a rich yellow, very thick and of excellent quality, nutritious and profitable to grow for stock feeding. Keeps well. We have only a small supply of seed this year and can only offer

it in packets of ten seeds for ten cents.

A PRIZE OF \$1,000 Will be paid for the largest specimen grown from our seed this year, the report to be sent in by October 15th. Full directions for growing large specimens sent with each packet.

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

NEW IDEAL MAMMOTH RHUBARB.

The rhubarb (or pie plant) is a vegetable which it is difficult to improve and it takes many years to fully establish a new variety. About 25 years ago Dr. Kennicott, of Illinois, in growing roots from seed, found one which was so far superior to, and different from all others, that he saved it carefully, and the root has been divided and propagated from year to year until finally we purchased the stock. Like all other highly improved sorts it seeds sparingly and comes more nearly true to name when grown from seed than most other sorts. The stalks are fully as large, if not larger than the Victoria, and are produced in much greater abundance. Quality is unsurpassed. Pkt. 10c, oz. 25c. Fine strong roots 40c each, 3 for \$1.00 postpaid.



NEW IDEAL MAMMOTH RHUBARB.



AFRICAN MELON.



ALPHA CABBAGE.



BLACK DIAMOND WATERMELON.

A cross between Kolb's Gem and Hoosier King. All that could be said of the Kolb's Gem as to good shipping qualities can be truthfully stated in a higher degree of the **BLACK DIAMOND**. All the praise of high quality bestowed on the sweetheart can be repeated of our new Melon, but its prominent point of merit is its large size and productiveness. Its color is a rich, dark green, almost black. Of uniform symmetrical shape, roundish to bluntly oval, and this similarity of shape running through the whole field. The habit of the vine is extremely vigorous. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

IDAHO COFFEE PEAS.

A new substitute for coffee not at all resembling the German Coffee Berry, listed on page 31. It is a native of Idaho and has been grown largely in Colorado and elsewhere, producing immense crops at a low cost, one plant sometimes bearing as many as 1,000 pods. When roasted and ground it has the flavor of coffee. The peas when boiled without roasting are equal to ordinary garden peas. Per pkt. 5c, $\frac{1}{4}$ lb. 15c, lb. 45c, 3 lbs. \$1.10 postpaid.



Chinese Sago Beans.

When traveling in California we spent considerable time on a 600 acre farm which was devoted to growing standard vegetable and flower seed and novelties from all parts of the world. We noticed here that the kind of food called *Louk-daw*, which seemed to be the most relished by the farm workmen was a small, round green bean, smaller than a kernel of pop-corn or about the size of sago. To prepare it for the table it was soaked in water for several days, changing water frequently until it began growing and the sprout was about half an inch long. When boiled they then make a nice fresh dish for the table. In this way fresh vegetables can be had in the winter. We tried growing them on our place last summer and they yielded wonderfully well, so we take pleasure in offering them to our customers. It will make a new dish for your table and a fresh vegetable ready at any time of the year. Per pkt. 10c, oz. 20c $\frac{1}{2}$ lb. 50c

Special Notice.

Since the body of our catalogue was printed we have received word from some of the growers that crops were shorter than previously expected and we may be compelled to increase price. Better order early.

Early Express Cucumber.

We are pleased to introduce this most remarkable and valuable new variety, which originated with Mr. C. P. Coy, the well known seed grower, and may be called the best novelty in this line which has been brought out for many years, especially for the private garden. It is by all odds, the earliest variety in existence, producing fruit several days ahead of Early Siberian, Extra Early Russian and other early sorts, and nearly double the size. Quality is the very best, being free from any rank, strong flavor, and it is as fine a variety for slicing as any later sort. The plant is very productive, bearing fruit which is quite uniform in size and shape. Color is a lively green, shading to nearly white at the blossom-end as they grow older. Our cut shows compact growth of vine. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.



Washington Wakefield Cabbage

For many years the Jersey Wakefield Cabbage has been the most prominent early sort with market gardeners, and attempts have been made to improve upon it, with but limited success. In this grand variety, which is well known by our illustration, we have a most superior strain, the name it bears. It is a leader, and First in the market! and first in the hearts of the grower. It is very early, the heads pyramidal in shape, larger than any other, very solid, with few outside leaves, remarkably uniform, heads of even size and shape, for market or family garden. Try it this season. Per $\frac{1}{4}$ lb. 85c. lb. \$3.00.

Giant Gray Sugar Pea

A novelty from Hawaii which we have grown here for years and it has yielded an immense crop of large, shelled, but the pods are to be cut into pieces about an inch long and boiled. With the addition of a little milk and butter, they are as nice as the best asparagus, only richer. The Cleveland Seed Co., who claim to be the largest growers of seed peas in the U. S., writes us "We consider your new Sugar Peas the most desirable Edible Pod Peas ever brought to our notice. It is prolific and has very handsome broad pods, quite stringless, brittle, tender and sweet." If you want to enjoy a delicious table luxury, try them this year. In pkts. only, per pkt. 10c.

Rose-Ribbed Self-Blanching Celery.

This beautiful new Celery is a sport of the Golden Self-Blanching Celery, and possesses all the good qualities for which that variety has become so famous. It has the same beautiful, rich golden-yellow color, is self-blanching to the same remarkable degree, and differs only in the color of the ribs. These are of a very attractive shade of rose, which deepens as season advances. This ornamental feature gives the whole plant a most pleasing appearance, that cannot fail to make it of even greater value for market, while no celery could be of finer quality, and we recommend it to all lovers of nice celery. Per pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 85c, lb. \$3.00.



CHINESE SAGO BEANS.

One Cow.

Even if you have only one cow it will pay you to put in half an acre of *Pencilaria* this year. One grower estimates that $\frac{1}{4}$ acre will supply a cow with green fodder all summer and $\frac{1}{4}$ acre will grow sufficient hay to feed her all winter. 60 cents worth will plant half an acre. See page 34.



EARLY EXPRESS CUCUMBER.

Oct. 10, 1901—"The sugar beets, mangels, carrots, parsnips and other seeds purchased from you grew crops this year which took the blue ribbon at our fair. Your seeds simply can't be beaten either in quality or quantity."—*Wilbur Bush, Mason, Mich.*

"I am much pleased with seeds received from you this year."—*Edgar Hamblin, Cleveland, Kans.*

"The Chinese Sago Beans yielded better than anything in our garden this year and the Golden Queen tomatoes grown from your seed were also very nice."—*Sarah Demorest, Ottawa, Kan.*

Extra Early Crimson Globe Beet.

This magnificent new variety from England is the best novelty in table beets which has been offered since we introduced the Market Gardener's. It is very early variety, generally of spherical form as shown in our illustration. Skin very smooth, and it is as handsome a beet as you can imagine. It is of a rich deep red color shading to purple. Cooks readily, is very fine grained and flavor cannot be surpassed. Our illustration shows the beautiful variegation of the cut beet, but when cooked it is of even dark color throughout and is attractive when on the table. It is not only a choice sort for early use, but it is also very desirable for main crop as it keeps well until late spring. They are of such uniform shape and size that they make the most desirable variety for selling in bulk in the fall as well as for bunching. Everyone who has even a small garden should try *Crimson Globe* this year. Pkt. 10c oz. 20c. $\frac{1}{4}$ lb. 60c, lb. \$1.50.

Farm Seed Novelties,

UPLAND RICE.

It is a well known fact that rice forms the principal food of one-half the population of the earth and it is far more of a staple the world over than wheat, rye or corn. While it has been grown to a limited extent in South Carolina for a number of years, still in 1898 there was imported into the U. S. 190,255,315 lbs to supply the demand, and that is about the usual import. During the past few years the people of the U. S. have awakened to the immense possibilities of this crop, and some Des Moines men who have started rice plantations in the south have minted money with wonderful rapidity. One man after paying all the expenses incident to starting a new place, cleared \$1,500.00 on 16 acres, the first year. The main expense in growing rice has been the necessity of irrigating or flooding the land. This cools the land, retards the growth and makes it impossible to grow rice in the northern states. We now offer our customers an early variety which can be grown on any ordinary land, although it prefers a moist situation, and has matured in Illinois. In an ordinarily favorable season it will yield 20 to 40 bushels per acre, or fully as much as wheat, and it has yielded 80 bushels per acre. Its growth is similar to wheat. Ordinary rice is sown broadcast, 1 to 3 bushels per acre, but the Upland Rice requires only one peck per acre. Sow early in spring in drills 2 feet apart, and drop the seeds 1 inch apart in drills, covering about 1½ inches. It stands out very heavily. If this variety proves to be as generally successful as we now believe, it will revolutionize the market, and thousands of acres will be devoted to the crop. We have only a limited supply of seed this year, but we want every farmer to try it. Select a good place to sow it and prepare to supply your neighbors with seed next year at a good profit. Price per packet 5c, ¼ lb. 15c; 1 lb. 40c; 3 lbs. \$1.00 postpaid. By express or freight ½ peck 75c; peck (11 pounds) \$1.25; bu. \$4.50. Order Early.

NEW UPLAND RICE

here in a limited way for several years but mainly on rich land, while it is specially adapted to light, poor or sandy soil. It has proved to be of great value being considered fully equal to red clover in nutritive qualities and yields a much larger crop. It is one of the best drouth resisting plants known, and does well on high land as well as low, and in fact succeeds well anywhere except on heavy or clayey soils. Cattle are very fond of it as hay, green fodder or for pasturing. It makes a dense, thick, rapid growth, covering the ground completely and choking out all weeds. It is not a perennial but can be cut twice and will produce good pasture balance of year. Sow early in spring alone or with wheat or other grain. Progressive farmers will give it a trial this year. Per pkt. 5c; 1 lb. 30c; 3 lbs. 80c, postpaid. By freight, 10 lbs. or more @ 15c. Bushel of 45 lbs. (will sow 3 acres), \$5.50.

SERADELLA.

When in Germany last summer we found that Seradella was the most profitable of all fodder plants grown there and almost everybody grows it for hay. We have grown the plant



SERADELLA.

CORN WHEAT.

Some years ago a farmer who was out hunting shot a wild goose, and in its craw found several very peculiar looking grains of wheat. He planted them and they produced an exceptionally fine crop, although it differed greatly from any other variety known in America, having a grain which is very hard and nearly double the size of other sorts. It is a vigorous grower and extremely hardy. It has gone under the name of Wild Goose Wheat or Corn Wheat, but has now been identified as the true Macaroni Wheat grown in Europe, the stock of which the macaroni manufacturers there have guarded with jealous care to prevent its being exported to any other country. We tried to purchase this variety years ago, but owing to an accident the crop was destroyed, only a small quantity being saved, so that it has taken time to work up a stock again. We have only a few bushels on hand and can offer it in small lots only, but we believe that there are thousands of our customers who will want to try this wonderful new grain. Mr. Zavitz of Ontario, writes us, that he has grown it for eight years past and the average yield has been 39 bushels per acre. When you consider that this eight years includes the year of crop failure you will see that this is an exceptionally heavy yielding variety. Price per packet 10c, per lb. 50c. 3 lbs. \$1.25 postpaid. By freight ½ pk. \$1.00, pk. \$1.75.

KENNEY'S IMPROVED AMBER CANE.

Mr. Kenney, who originated and introduced the Minnesota Amber Cane about 25 years ago, has been quietly at work selecting and improving it all these years, and we are pleased to offer seed of his own growing this year. This seed was grown in Central Minnesota and we recommend it as most decidedly the earliest and best cane in the world. It will make the very finest grade of beautiful amber syrup of delicious flavor and many persons will prefer it for table use to either maple syrup or honey. It is said that over 250 gallons have been produced per acre, and when boiled down making over 3200 lbs. of sugar. Why not supply your own table in this way, as it is of easily grown as a crop of corn and succeeds well in all parts of the U. S. from Minnesota to Texas. It requires only 4 lbs. of seed per acre, and this superior strain of seed is well worth ten times the price we ask for it to the sorghum grower. Per lb. 25c, 3 lbs. 65c. By freight, 10 lbs. \$1.00, 25 lbs. \$2.00, 50 lbs. \$3.50, 100 lbs. \$6.00.

GIANT HALF SUGAR MANGEL.

After growing this twice on our trial grounds and testing its feeding qualities we find that it is far superior to any variety of either Mangel or Sugar Beet, that we know of. It is the result of a cross made in France between the Mammoth Red Mangel and Improved Sugar Beet, growing about as large as the mangel with the rich sugary sweetness and highly nutritive qualities of the Sugar Beet. Shape of root is shown by our illustration and it stands so well out of ground that it can almost be "kicked out" instead of plowing or digging. Color light rose, and quality extra fine. On our place this year it grew to larger size than any of the mangels and was earlier in maturing. No one who has even one cow can afford to be without it if they wish a large amount of highly nutritive food at a low price. Costs less than 5 cents per bushel to grow and harvest. Per pkt. 5c, oz. 10c, ¼ lb. 20c, 1 lb. 60c postpaid. By express, 5 lbs. (will plant one acre) \$2.00. Directions for growing, storing and feeding free to our customers.

THE VELVET BEAN.—Nature's Great Soil Restorer.

The velvet bean is a green manuring and forage plant that is creating a great sensation at the south. It makes a strong growth at the north also, and is now widely recognized as a thing of high value. The vines grow to a length of ten to thirty feet, and form a deep mass of nutritious fodder, and it is said to make valuable hay. At the south its use is for hay, for soiling and for improving the character of the land. At the north its place is with the cow pea, as it will grow and flourish on poor land. Plant at the rate of ¼ pecks to the acre, in drills five feet apart. Pkt. 10c, ½ pt. 15c, qt. 30c, postpaid. By express or freight, pk. \$1.00, bu. \$3.50.

MUSHROOMS IN FIELDS.

Mushrooms are now considered one of the finest of table delicacies. It is considerable trouble to grow a crop the usual way but we all know that some of the finest mushrooms come up in old pastures apparently spontaneously. A good crop can frequently be secured by raising the turf with the corner of a spade, remove a little dirt and put in a piece of spawn 1 to 2 inches square with a little dry horse manure and pressing the sod firmly in place again. The best English Mushroom Spawn comes in bricks weighing 18 to 20 ounces each and will make 12 to 16 pieces. Price 35 cts. per brick postpaid; 5 lbs. or more, not prepaid @ 15 cts. per lb.

Folgers Early Cane

At the U. S. Experiment Station this variety produced the largest quantity of sorghum per acre. Per lb. 25c, 3 lbs. 65c, postpaid. By freight 10 lbs. \$1.00, 25 lbs. \$2.00, 100 lbs. \$6.00.



GIANT HALF SUGAR MANGEL.



CROP OF BLACK TARTARIAN OATS.

From photograph taken in England showing great productiveness.

Geo. Notz, of Union county, Iowa, says:—"I have raised the Jerusalem Corn for three years and it produced 50 bushels of seed per acre every year, and it yielded five tons of hay per acre." See description on page 30 and try it this year



NEW CENTURY WONDER CORN.

A most 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. There are frequently 3 to 7 ears to the stalk, being 8 to 10 inches long, and of the most clear snowy white color. It is of excellent quality when used on the table like sweet corn, yielding, of course, a much

larger crop, and when dry and ground makes the cleanest, finest, whitest meal you ever saw. It will rise like wheat flour and can be used in bread, biscuits, pies and cakes, and is therefore sometimes called Flour Corn. Yields 100 to 160 bushels per acre. The IOWA STATE REGISTER in its Farm Department says:—"This wonderful corn which was grown about four miles northwest of Des Moines grows 10 to 12 feet high, produces 3 to 7 ears on a stalk and 10 to 20 stalks to the hill from one seed planted. The ears are about 9 inches long and it yielded 75 bushels on half an acre. It makes the finest of stock food when cut for fodder and produces many times as much as ordinary corn." We believe this corn will prove of great value everywhere for use as sweet corn, to grind into meal, to feed hogs, cattle and horses and as a fodder plant. Plant early as it requires the whole season to mature in this latitude.

A COMPARISON.—A crop of wheat is considered a fair yield if it produces ten-fold or ten bushels to each bushel sown. The New Century Wonder is not satisfied with ten-fold, a hundred-fold, a thousand-fold or ten thousand-fold, but it is claimed that in a field you can find hills grown from one kernel which bear 20,000 to 40,000 kernels. Of course the entire crop will not average that, but it is wonderful, just think of it, 40,000 to 1. If we had wheat that was that productive you could afford to pay \$1,000.00 per bushel for the seed and make money from the investment the first year. Seed has been sold here at \$1.00 per pint and is cheap at that when you consider its wonderful character, but we want everyone to try it and have made a low price. Don't fail to plant at least a small patch, and thus obtain plenty of seed of your own growing for another year. Per pkt. 10c, ¼ lb. 15c, lb. 40c, 3 lbs. (will plant one acre) \$1.00 postpaid. By freight ½ pk. 75c, pk. \$1.25.

PRIMITIVE OR HUSK CORN.

It is from this wild variety that all of our cultivated sorts have sprung. The ears are of fair size and each individual kernel or grain is covered with a husk and all 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. Some stalks bear as many as 20 ears. You will be interested in it. Large pkt. 10c.

GIANT SPURRY.—An excellent plant for pasture and it grows so well on poor, dry, sandy soil, that it has been called "the clover of sandy land." Grows very rapidly. Per pkt. 5c, lb. 30c, 3 lb. 75c, postpaid. By freight, 10 lbs. (will sow an acre), \$1.25, bu. (50 lbs.) \$4.00.

JAPANESE MILLET.—A distinct new variety which has been called by one seedsman the "Billion Dollar Grass" owing to its high value. Per lb. 50c, 3 lbs. 75c, postpaid. By freight, peck 85c, bu. \$2.75.

BLACK TARTARIAN OATS

While at the Royal Agricultural Show in Wales last summer we saw a very fine lot of grown Black Tartarian Oats on exhibition knowing there would be considerable demand from our customers we arranged for a stock, been grown for several years in this country seed which we have been obliged to use has of inferior quality as it was impossible to class stock, but our being on the ground here to obtain seed of quality far superior to any we have ever seen before. This is the most productive variety of oats that we know of; have been grown on a single straw. It stools, grain is short and plump, of best possible quality. made from a photograph will give you some idea of the crop. The English farmer, Mr. Bennett, says, sowed nine bushels last year on three acres of land and they yielded 365 bushels. This is equal to about 122 bushels per acre. We believe that many of our customers will want to try them this year and although the expense of importation was quite heavy, we are enabled to offer them at the comparatively low price of 25c. per lb., 3 lbs. 60c, postpaid. By freight, peck 75 cts., bushel \$2.25, 2 bu. or more @ \$2.10, 10 bu or more @ \$2.00 per bu. Stock is comparatively small so order early if you want them.

GIANT CUZCO CORN.

A most strange and curious corn from Peru, with kernels of truly mammoth size, as shown in our illustration, each one being as large as 4 to 10 kernels of ordinary field corn. It will cause wonder and astonishment of every one who sees it. It is quite late in maturing and therefore should be started early in pots in the house. In transplanting be careful not to disturb the roots.

Our cut shows an ordinary kernel of corn beside the Giant Cuzco. It is a great novelty, and attracted great attention in our exhibit at the Peoria Corn Show. Sold only in packets of 10 seeds for 10 cents.



GIANT CUZCO.

WONDERFUL PRE-HISTORIC CORN.

Several years ago we were offered this variety by a corn grower who claimed that it was "grown from some kernels of corn which were discovered buried in sealed vessels far under ground, where it had lain 3,000 years." We did not believe it, therefore did not "bite," it was sold to an eastern seed dealer who has advertised it largely. The corn is mainly of most peculiar dark brown color and looks "mummy-like" which probably gave the introducer the clue to the fairy tale which he has woven to fit it. Although it will never become a profitable market variety still it has some very good points which will induce stock farmers to plant it. Per pkt. 5c, lb. 30c, 3 lbs. 75c., postpaid.

F. W. Martin, of Gove county, Kansas, writes, that "The Iowa Silver Mine Corn is the only variety which produced a crop with me this year, although I had three kinds planted."



PRIMITIVE OR HUSK CORN.

FLORAL NOVELTIES.

This year we devote four pages to Flower Seed Novelties. Every item named here is desirable. Most of them are very easily grown and we are sure that they will give satisfaction. Why not beautify your garden this year with some of these floral gems?

GIANT FANCY FLOWERED PETUNIA.

A grand new strain and unquestionably the finest selections of petunias in existence as they are of incomparable beauty, size and luxuriance. Most of the flowers are exquisitely ruffled or fringed on the edges, and are of enormous dimensions (4 to 5 inches across), but their great merits lie in the tremendous varieties of colors, markings, veinings, blotchings and stripings, in the most grotesque and beautiful combinations; some with charming deep throats of yellow, white, black, green or maroon, running off into intricate veins. Some of the colors are rich and gorgeous and others of lovely delicate shades. If you like beautiful petunias be sure to include this variety in your order. Packet 25c.

EARLY DAWN MIXED COSMOS.

This was introduced by us four years ago, and it jumped at once into popularity on account of its extreme earliness, coming into bloom in about two months from time of sowing and continuing until destroyed by frost. The flowers are a little smaller than the late kind. Plants have fine, feathery, light green foliage and delicate rose, purple, white and lilac flowers which are produced on long stems, and are very desirable for bouquets, as they will last a week after cutting. Well worthy of a trial by all who wish a free blooming plant of the easiest culture. Mixed colors. Per pkt. 5c.

"MASTERPIECE" PANSY.

This superb new Pansy is distinct from all others in the form of flowers, the border of every petal being conspicuously undulated and curled, as shown by our illustration. The flowers are extremely large and nearly all of them exhibit this peculiarity. The curled petals give the flowers a fuller and more globular appearance than those of other classes of Pansy, and when seen in nature it appears to be a **DOUBLE PANSY**. This new class is remarkable also for the wonderful combinations of color which it shows, including some tints hitherto unknown in Pansies. The plants are very vigorous and bloom profusely. Pkt. 20c.

GIANT VARIVEINED SALPIGLOSSIS.

A new mammoth flowered variety which is quite an improvement on the older sorts. It forms only one leading stem, which often grows as thick as one's finger and bears on its end a bouquet of the most beautiful flowers. Every one of them is veined with gold and they are much larger than those of the old type. The throat is wide and short which gives the flower a rounder appearance. It is a free and continuous bloomer the whole summer and fall and everyone will be more than pleased with it, Per pkt. 5c.

HOHENZOLLERN ASTER.

A grand new pure white variety from Germany. Plant is of bushy habit, nice for beds; flowers are borne on very long stems, frequently 15 to 18 inches in length, and are of pure white color and extraordinary size, measuring 6 or 7 inches in diameter. As will be noticed by illustration on back cover of this catalogue, the petals are long, curled and twisted, making a beautiful ball of white. Per pkt. 10c.

NICOTIANA SYLVESTRIS.

This is one of the handsomest of ornamental plants. It grows from four to six feet high, is of beautiful pyramidal form. The foliage is large and handsome. The flowers are pure white, star-shaped and have tubes about 6 inches long; they are produced with the greatest freedom and are sweet-scented. They are handsome ornaments in any garden. Pkt. 10c.

GOOD VENTURE GERANIUM.

Yes, you can grow good Geraniums from seed, and as they sport, the gardener is frequently rewarded by charming new varieties, and may obtain a novelty of much value, especially if this new strain of seed is used. When visiting the fields of a geranium specialist in California, we noticed one lot of several hundred plants which were particularly fine. The grower was hybridizing these for seed, and we made arrangements at once for the stock, paying more than a dozen times what ordinarily good seed would cost us. The plants from which seed was saved were the finest varieties from all parts of the world, including some particularly choice novelties as yet unnamed. They are **GIANT FLOWERING**, the florets being round and of most perfect form and borne in splendid trusses, some of them forming balls of such immense size that we fear to state size lest our customers will think we are exaggerating. The colors are all shades of crimson, scarlet, salmon, pink, rose, snowy white, and the new aureole types with beautiful veinings,



GIANT FANCY
PETUNIA.

ARABIAN RUNNER BEANS.

Undoubtedly most of our customers have seen the scarlet runner bean which makes such a fine climbing plant for covering porches and other places. While traveling in northern Germany the past season we found on the grounds of a prominent grower this new variety which is one of the most beautiful of the classes. The vine is a rapid grower starting quickly from seed and climbing with great rapidity and is soon covered with beautiful flowers, but instead of the flower being scarlet it is pure white, with a most brilliant scarlet center thus making a very showy plant. It blooms freely throughout the season provided the pods are removed to keep it from going to seed. Very large, long pods which are fleshy, tender of excellent flavor for table use. Earlier bloomer than the Scarlet Runner, Pkt. 10c.

DOUBLE SWEET PEAS.

By years of hybridization 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. Be sure to try them. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c.



DOUBLE SWEET PEAS.

shadings, edgings and clear eyes. If seed is sown early they will make fine flowering plants the first summer, and the second they show their true quality and greatly superior types. Start seed in the hot-bed or shallow boxes of rich soil in a warm, sunny window, covering only one-eighth inch in depth. As soon as large enough, transplant to small pots until the weather is quite warm, when they may be planted in flower bed for summer blooming. Pkt. 15c.

ROCKY MOUNTAIN FLOWERS.

Our mixture contains a great number of varieties of the flowers from the Rockies, and embraces many of the beautiful specimens which thrive and bloom in great profusion on the barren mountain sides. Per. pkt, 10c.



MASTERPIECE
PANSY.



GOOD VENTURE GERANIUM.

CHINESE LANTERN PLANT

Or Giant Scarlet Ground Cherry.

A remarkable novelty which is being widely advertised under various names, but its botanical name is *Physalis Francheti*. The plant grows to a height of 18 to 24 inches, of sturdy, upright growth and is loaded with balloon-like husks 3 to 3½ inches in diameter. These husks are at first light green, gradually turning to bright yellow and then to the most intense orange scarlet. At this period of growth the plant is strikingly suggestive of being hung with hundreds of miniature Chinese lanterns, as the bright scarlet husks have the appearance of lights in the midst of the green foliage. Inside of these husks is the fruit, which is of a deep, ruby red color and of excellent flavor either as a fresh fruit for dessert or preserving or dried in sugar for fruit cakes or puddings. It is a perennial, the roots living over winter in the ground and producing a far better crop the second year. Does better on rather poor soil. Pkt. 10c. Strong plants 10c each, 3 for 25c, doz. 75c.

Fairy Roses.

These little beauties are very easily grown from seed. The roses are only about an inch across, usually very double, but occasionally semidouble, 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 inches high and will commence blooming in a few weeks after the seed is sown, and continue year after year in uninterrupted profusion from May until frost. Also nice for pot plants for winter blooming. Pkt. 10c.

New Rainbow Pansies.

The best novelty in Pansies and certainly the most charming variety ever sent

out. We have given it the name of New Rainbow, and consider it very appropriate owing to its beautiful iridescent colors. Our illustration shows three of the leading types of this mixture by which you will see the various styles of variegation, but no illustration can do justice to its superior beauty. There is almost an endless variety of colors comprising all shades of blue, purple, crimson, brown, yellow, white, pink, red and black, beautifully marked, striped, veined, margined and blotched. The colors are much more beautiful than any painter could depict. In a good sized bed you could readily find 100 different varieties, but not one poor or inferior one. The flowers are of large size and perfect form, nearly circular, and most of them have a very rich, velvety appearance. They will both astonish and delight "pansy fanciers." Packet of 100

seeds 25c; large strong plants of Rainbow Pansy 60c doz. postpaid

Impatiens Sultani.

Also called Sultan's Balsam. One of the prettiest plants for pot culture and also out door planting in a half-shaded situation; are remarkable for long duration of bloom. This mixture contains many new shades of "cerise," dark violet, pink and carmine-rose. Of easy culture; seed should be started early in the house and transplanted to open ground about the middle of May. They produce a profusion of bright, waxy looking flowers. Pkt. 10c.

**Commelina Sellowiana.**

A lovely perpetual flowering "Wandering Jew," suitable for the garden in summer or for pots all the year. It is of trailing habit, producing large numbers of beautiful blossoms, two inches across, of the most exquisite blue color. The flowers look like blue butterflies. Blooms in a very short time from seed. It is a perfect gem. Pkt. 10c.

Christmas Tree Aster.

By far the most freely flowering class of Asters. The plants grow about 15 inches in height, branching out freely and regularly, not upright like other Asters, but horizontal, thus suggesting the name, flowers of medium size, perfectly double and 80 to 100 borne on each plant. Mixed colors, Per pkt. 10c.

Cotton.

One of the leading agricultural crops of the U. S. and brings growers about \$292,845,000 annually. Still we presume at least four-fifths of the readers of this book have never seen it growing. Don't remain in ignorance longer, but buy a packet of the seed this year. It is easily grown; simply start the seed early in a box of soil in the house and transplant to the field as soon as warm weather arrives. It grows vigorously, makes an ornamental plant in the flower bed and has showy, large flowers followed by the boll of pure white cotton which interests the children and older people as well. Pkt. 5c, oz. 15c.



COTTON.

Princess Helen Dollchos.

One of the prettiest climbers. Of very rapid growth, it will grow to a height of 15 feet. Flowers are snow-white, sweet scented and followed by cream-colored pods which hang to the plants until late in the fall. Per pkt. 10c.

Caprice Nasturtium.

Profuse-blooming extra large flowered climbing variety with beautiful dark foliage. The flowers are wonderfully rich and brilliant in markings—showing many combinations of coloring. It is appropriately named Caprice from its remarkable character of frequently having most varied colored flowers on a single plant. Sometimes more than a dozen different colors or shades of flowers will be produced on a plant at the same time ranging from a very light creamy yellow, through all shades of yellow and red to a dark, velvety maroon. Pkt. 10c, oz. 35c.



CAPRICE NASTURTIUM.

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1892
BY W.A.B. & S.



**NEW DOUBLE CALLIOPSIS.**

Every one who knows the old fashioned single Calliopsis or Coreopsis loves it, as it is one of the most showy flowers for bedding, and the colors are so brilliant that the popular name, "*Bright Eyes*," has been given them. It has for many years been a great favorite with thousands of flower lovers. What will you say now to having a new double Calliopsis? It is one of the most attractive flowers. They grow very quickly from seed, blooming in a few weeks after seed is sown, and if flowers are removed as they begin to fade the plants will be loaded with bloom throughout the summer and fall. In color it is brightest golden yellow, distinctly marked, striped and blotched, with rich dark brown. In some of the flowers the petals are smooth and lie flat, some are cup shaped, and others are beautifully fringed. Per pkt. 10c.

AFRICAN WATER LILIES.

These have been quite popular during the past few years. They are easily grown and bloom in three or four months from the time of sowing seed. For persons who have no pond, half a barrel sunk in the ground is a nice receptacle to grow them in. Full directions for starting seeds and growing plants are sent with each packet. We can furnish either the red, white or blue varieties at 10c per packet. One packet each of the three colors for 25c.

CHAMFLEON CHRYSANTHEMUM.

It is a new and entirely distinct type of this showy garden annual, producing very large single flowers of changeable colors. When they first open the black purple center is surrounded with a yellow ring, which is again zoned with crimson, while the outer margin of the flower is of a coppery bronze color. In a few days the copper shade gradually changes to yellow. A continuous bloomer. Per pkt. 8c.

BLACK PRINCE ANTIRRHINUM.

A handsome new variety which has attracted much attention in Europe. It is of a deep purple black color, almost coal black. It is difficult to describe and must be seen to be appreciated. Per pkt. 15c.

Rainbow Coleus.

The finest mixture of the large flowered Coleus that we know of. It is easily grown from seed. Pkt. 15c.

Irish Shamrock.

The true Irish Shamrock seed imported direct from Ireland. Plant it on St. Patrick's day if weather is favorable. It grows readily. Pkt. 10c.

Japanese Variegated**Humulus.**

A pretty climber, growing vigorously 20 to 30 feet high. Leaves dark green, marked with silvery white and yellow. Per pkt. 5c.

Cup and Saucer**Campanula.**

A beautiful bell-shaped flower, nearly four inches across. A hardy perennial. Mixed colors. Pkt. 7c.

Crozy Mixed Canna.

Unquestionably one of the finest 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. Our seed is a mixture of the finest large flowering sorts. Per pkt. 5c, oz. 25c.

Butterfly Flower.

This elegant little annual known by the botanical name *Schizanthus* may well be considered one of our prettiest summer blooming plants. It is of the easiest culture, growing quickly from seed, of excellent bushy form, and loaded with a profusion of rich and various colored flowers. The flowers frequently resemble butterflies, and are as beautiful and curious as expensive orchids. Pkt. 5c.

Blue Solanum.

A beautiful perennial vine of rapid growth. The handsomely cut foliage makes a shade for a porch or arbor, and is also desirable to train along fences, etc. It is covered during the summer months with clusters of blue flowers, succeeded by scarlet berries. Per pkt. 10c. Plants 25c. each.

Blue Bells.

Who has not heard of the "Bonnie Blue Bells of Scotland," which have been renowned in poetry and song for centuries past? The flowers are bell shaped, and a bright, sky-blue color. From four to ten flowers in a cluster. A perfectly hardy perennial. Per pkt. 10c.



MAMMOTH FANCY LEAVED RHUBARB.

FOUNTAIN PLANT.

This handsome pyramidal or fountain-shaped plant is a variety of *Amaranthus* which deserves a place in every garden. It droops most gracefully, and the leaves are brilliantly banded and tipped with orange, carmine, purple, crimson and gold, forming bright colored plumes. Pkt. 7c.

BIRD OF PARADISE FLOWER.

This plant properly known as *Poinciana Gillesi* may be considered one of the wonders of nature as it is of such curious and strange form. It is a rare plant and we presume but few of our customers have ever seen it in bloom. It attracted much attention on our place last summer. The flowers are large, about 2½ inches in diameter and are produced in very large trusses. They are of a rich golden yellow color, but the most attractive part is the large pistils, which are of beautiful bright crimson color and spread out in fan shape. If the seed is started early, it will produce a profusion of blooms the first year. Per packet of 10 seeds, 10c.

KOCHIA SCOPARIA.

This very distinct and highly ornamental annual plant grows freely from seed sown in the open ground, and from the earliest stage of growth in the spring until they reach maturity in the fall the plants are always of rounded or globe-like form, and makes a most ornamental hedge for the flower garden. Color is a lively green changing in fall to beautiful amaranth red. The small brilliant scarlet flowers make the plants look like balls of fire. Per pkt. 10c.

Trial Grounds Mixture Sweet Peas.

We test hundreds of varieties of Sweet Peas as new sorts are constantly coming out. This mixture is saved from the trial grounds and contains a great assortment of the newer varieties. Per pkt. 5c. oz. 15c, ¼ lb. 40c, lb. \$1.25.

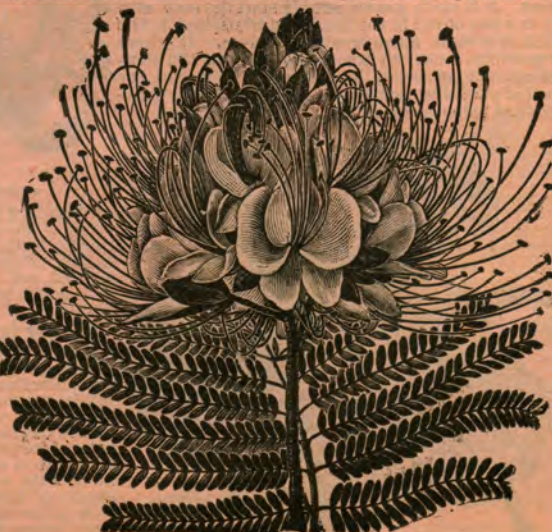
CURIOUS CACTI.

Almost every one who keeps house plants likes to have a few nice Cactus. The seed we furnish is collected from the choicest varieties in Arizona, New Mexico, Texas, California and Old Mexico as well as some foreign varieties and mixed together. Easily grown from seed planted in a box of clean sand. Per pkt. 10c.

I have used your seeds for eight years past with very satisfactory results.—
N. E. Wristen, Big Springs, Texas.

GIANT FLOWERING SWEET SULTANS.

These new mammoth-flowering varieties are grand improvements, producing blossoms from 3 to 4 inches across, of graceful, airy effect, and are most deliciously fragrant—the color of the flowers are infinitely varied from glistening white through shades of red to royal purple. Per pkt. 10c.



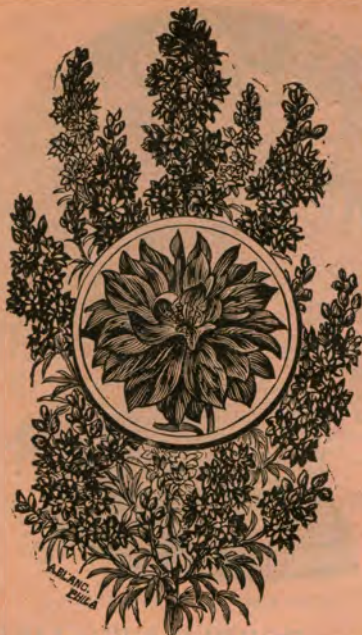
BIRD OF PARADISE FLOWER.

New Imperial Japanese Morning Glories.

Remarkable for the large size and exquisite new colors of the flowers, with magnificent foliage, often beautifully blotched. Of strong robust growth. The vines grow quickly to a height of 12 to 20 feet. The flowers are of gigantic size, sometimes measuring four to five inches across. The colors of the flowers, shadings and markings are really wonders of nature, of such incomparable beauty that descriptions are inadequate. Some flowers are of deep, rich velvety tones, others more faintly tinted and shaded than an artist's brush could portray. Pinch back the vines so as to let them grow only four to six feet high, and they will produce more flowers. Choicest double and single mixed. Packet, 7c, oz. 20c.

American Banner Larkspur.

This handsome flower originated on our grounds and was so distinct from all other flowers that it sprang at once into favor. The illustration represents a single stem showing how loaded the plants are with flowers. The name *American Banner* was given it because it is the only flower we know of that combines the national colors, red, white and blue in each flower. Plants grow to a height of about two feet, of



AMERICAN BANNER LARKSPUR.

good, regular shape, with delicate, fern like foliage, a vigorous grower, and is not injured by dry weather. The plants are fairly loaded with long spikes of double striped and blotched flowers, having the various shades of pink, carmine, dark blue, purple and white, delicately and beautifully blended, sometimes four or five shades on a single floret. Pkt. 10c.

Elegant Palms.

These for centuries have been considered exclusively for the rich, the plants usually selling at \$3.00 to \$100.00 each, and in some cases fine plants of the rarer sorts brought as high as \$1,500.00 each. It is now known, however, that they are easily grown from seed. Directions for growing printed on the packet.

LATANIA BORBONICA.—This is the typical palm, and is more largely used than any other. Its strong, healthy habit commends it to all and gives it a fitness for window and room culture not possessed in the same degree perhaps by any other. It is the *Chinese Fan Palm*, from which the palm leaf fans of commerce are made. Per pkt. of 6 seeds 10c.

CHAMEROPS EXCELSA.—From southern China and Japan. Very hardy. One of the very best plants for house culture in cool climates, forming a fine specimen, standing ill usage remarkably well. Per pkt. of 10 seeds 10c.

PHOENIX DACTYLIFERA.—A native of northern Africa. This is the palm from which the date of commerce is obtained. Beautiful for pot culture, and very hardy. Per pkt. of 10 seeds 5c.

BANANA PALM.—(*Musa Ensete*.)—One of the grandest and most picturesque of the banana family. Has a majestic tropical effect. The leaves are very long and broad, of a beautiful green, with crimson midrib in striking contrast. An occasional application of liquid manure, and frequent watering, are necessary. Per pkt. of 3 seeds 10c.



LATANIA BORBONICA PALM.

A GRAND OFFER.—One packet each of the above six varieties for 35c. Plants of the *Latania Palm* 25c. each postpaid. Larger plants \$1.00 to \$5.00 each, by express not prepaid.

Chinese Horn Nuts.

A large and most singular appearing nut, resembling buffalo horns, which is known botanically as *Trapa Nutans*. It is a native of China, and is largely used as a food there and in some parts of southern Europe. It is a swamp plant, and will grow well in a jar of water. An ordinary glass fruit jar will do. The nuts sprout in about ten days, and their growth is very interesting and rapid, and sometimes they produce right pretty flowers. Can be grown in an aquarium. These nuts have been sold at the World's Fair and elsewhere at 10cts. to 25cts. each. We offer them in pkts. of 4 nuts for 15 cents.



CHINESE HORN NUT.

Double Centaurea Cyanus. The National Flower of Germany and celebrated as the late Emperor William's favorite flower. Who does not know and love the old-fashioned Ragged Sallor or Bluets. This is a new double flowering variety of it. We offer the seed in mixed colors, light and dark blue, white, pink and red, dark red with light blue edges, white striped with red and blue, etc. A continuous bloomer. Per pkt. 10c. Single *Cyanus*.—Pkt. 3c. *Marguerite*.—Pure white, fragrant. Pkt. 7c.



JAPANESE MORNING GLORIES.

WASHINGTONIA FILIFERA.

—This is one of the best window palms needing no petting to succeed. Stands dust, dry air and lack of sunshine, and is very ornamental, with its elegant fan-shaped leaves of a rich, dark leathery green. Picturesquely fringed with long, thread-like filaments along the segments of the leaves. The plant succeeds with any treatment that will keep a geranium alive. Per pkt. of 12 seeds 5c.

UMBRELLA PALM.—(Cyperus.)

—One of the most desirable semi-aquatic plants in existence, will do well with the same treatment as a geranium, in pots or the open ground. See description on page 86. Per pkt. of 100 seeds 10c.



DOUBLE CENTAUREA.

Flower Plant Novelties.

Year we offer many valuable novelties in flower plants which have been collected from parts of the world and thoroughly tested in our own greenhouses and on our trial. Descriptions were carefully made from nature and we are sure all will please our. In our general list, on pages 79 to 92, will also be found many valuable novelties in ant orders should amount to at least 25 cents. You may select plants amounting \$2.50 for \$2.00. \$7.00 for \$5.00, postpaid.

Night Blooming Jasmine.

ious, deliciously fragrant Night Blooming Jasmine (or Jessamine) about which sung and over which tourists, in its native land, (Chili), have gone into ecstasies and w, comparatively, in our own country have ever seen it. It is of the easiest culture somewhat difficult for the ordinary florist to propagate and perhaps this is the reason they are not better known. It is a plant of strong shrubby growth with handsome glossy en foliage and bears an immense number of small star-shaped flowers. One plant on our place this year had at one time fully 3000 flowers and you can well imagine that it was a grand sight, as the plant was about three feet high, and thirty inches in diameter. The delightful fragrance is dispensed only at night and this makes the flowers of great value for ladies' wear. It is specially adapted to house and window culture as it begins to bloom when very small and continues to blossom freely as it becomes larger. Also does well in a partly shaded place. Don't fail to try it, ladies, if you want something nice. It will please you. Each 25c, 3 for 60c. Large size, 35c each.

PONDEROSA LEMON OR AMERICAN WONDER.

A novelty which has been largely advertised in the east and it is really a desirable pot plant of tropical appearance and bearing profusely, the immense fruit, weighing sometimes three to four pounds each, or about ten times as large as an ordinary lemon. It is a true ever-bearing sort, a good sized plant showing fruit in all stages of development, from the open flower to ripe lemons. Blossoms are waxy white like a tuberose and as fragrant as orange blossoms. Wonderfully attractive. Each 20c.

ORNAMENTAL JAPANESE PEPPER.

In Japan this small brilliant colored variety is highly valued as a pot plant and has attracted much attention in our greenhouses. Each 15c.

ASPARAGUS SPRENGERI.

Also called Emerald Feather and Abyssinian Parlor Fern.

This is considered one of the handsomest and most valuable plants for house and conservatory culture ever introduced. It is especially desirable for pots, vases, baskets, etc.; covering all with its beautiful sprays of lovely green, feathery foliage, which can be cut freely, and are very useful for bouquets, wreaths, and all kinds of floral decoration. It makes a charming ornamental plant for the window or conservatory in winter, and is equally as valuable for vases, baskets and porch boxes in summer. It is a strong, vigorous plant, very easily grown, requires but little care, bears cutting well and keeps on growing fresh and green the whole year. White, delicately scented flowers. Each 15c.

THUNBERGIA FRAGRANS.

A magnificent perennial variety from India, of a slender, graceful climbing habit, similar to the annual sorts, with deep green waxy leaves, which are cordate at the base, giving them a very distinct appearance. Its crowning feature, however is its flowers, each of which is as large as a silver dollar, of pure waxy whiteness, with a delicate lemon yellow spot in center or throat. Fine for either pot or open ground culture. Each 20c.



WM. LANGGUTH GERANIUM.



ASPARAGUS SPRENGERI

WM. LANGGUTH GERANIUM.

This new silver-leaved geranium is one of the handsomest varieties which has been brought out for many years. The plant is of 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 the most free flowering of any fancy foliage variety and just think of it, the flowers are double, and this makes it a decided novelty. Clusters are extra large and of bright red color. Shows magnificently against the white foliage. Each 25c, 3 for 60c.

ABUTILON SAVITZI.

One of the most beautiful new variegated-leaved plants in existence. Its large, maple-like leaves are almost white, being blotched here and there only with clear, bright green, a most charming contrast, heightened still more by the very large orange, bell-shaped flowers with which the plant is always covered. This is one of our best novelties, both for a pot plant in the house and for bedding out, as it retains its variegation in the hottest sun. It is most admirably adapted as a border for Cannas, Geraniums and other taller growing plants. Each 15c. 4 for 50c.

CLARA BEDMAN SALVIA.—A dwarf, early and very free blooming variety, the plants appearing to be almost completely hidden by the mass of brilliant scarlet flowers. Fine for rows or borders. Each 10c.



NIGHT BLOOMING JASMINE.

DOUBLE NEW LIFE GERANIUM.

A great novelty in the plant line. The sensation which the Single New Life Geranium created when introduced in England is well remembered. The *Double New Life*, as may be judged from our illustration, is a much greater sensational departure in every way. The outer florets are large, of a brilliant red. In the center of these appear another semi-double floret, a pure white in color, effecting a very charming contrast, difficult to realize unless seen, and having the appearance of being produced artificially. This very novel geranium was lately sent out in England by subscription at a fabulous price. Last year it was almost impossible to supply the demand. Don't fail to have it, if you like rare beautiful flowers. Each 15c.

BLACK CALLA.

(SOLOMON'S LILY.)

This is the wonderful Black Lily of Palestine. The flowers are large sometimes a foot long and of velvety black. The bulbs are from near Jerusalem, making each one a souvenir of the Holy Land. Each 30c.



NEW ABUTILON SAVITZI

ANTIGONON.

This splendid climbing plant is sometimes called the "Queen's Wreath" and "Mountain Rose." It is a native of Central Mexico and is hardly throughout the southern states but requires some protection in the north. The vines are killed down by the frost but it comes up again from the roots in the spring. It is a rather rapid grower and produces long racemes of carmine colored flowers which somewhat resemble bunches of grapes. These flowers are produced in great profusion from June until frost. Strong plants Each 15 cents.

FANCY LEAVED CALADIUMS.

Of all the ornamental plants in greenhouses there are none more strikingly beautiful than the Fancy Leaved Caladiums and they are unrivaled for decorative purposes. Their beautifully shaped and glossy foliage is elegantly variegated in the most telling manner. One, perhaps, is regularly dotted with round raised spots of white, another is ribbed and veined with pink or scarlet or yellow while still another is flashed or marbled with white or shaded almost black. In fact, the immense leaves are so marked with delicate and vivid colors, as to make them as showy as great and peculiar flowers. The small early leaves do not always show all the fine colors of the large ones which come later. Start bulbs early in a warm place and do not put out doors before last of May. Many choice varieties mixed, only 15¢ each, \$1.50 per dozen.

**FANCY LEAVED CALADIUMS.****CHAMELEON GERANIUM.**

This charming novelty was first sent out a number of years ago, but owing to its being slow of propagation the stock was nearly lost, and it has not been prominently offered recently. Our stock is not large this year but we hope to have sufficient to supply the demand. When first introduced it sold at \$5.00 per plant. It is what might be called a "sport" or "freak" of nature, as it is quite erratic in its growth as shown by our illustration. Some flowers are red, some white, some pinkish salmon, and some clearly striped with the three colors. Frequently one plant will have on it flowers of all these colors at the same time. Other plants will bloom for months showing only one of the colors, then suddenly changing to some other hue. It is a free bloomer, bearing many trusses of large single flowers. The name Chameleon was suggested by its peculiar manner of changing color. Every one who grows Geraniums, and that means almost everybody, should try it. Each 25¢.

OLD GLORY GERANIUM

This grand novelty which we introduced is a seedling from a careful cross made by a florist in the employ of the U. S. government and had never been named until we purchased the stock through the mediation of a friend of his. In the Government floral gardens at Washington there were many rare plants, but none attracted our attention as much as a beautiful new variety of geranium which occupied a large bed near the Washington Monument. When seen at a distance it was a most beautiful sight, being apparently a solid mass of clear bright, beautiful pink. Has immense trusses, sometimes six inches in diameter, of magnificent large, semi-double flowers, which cover it so as to almost hide the foliage. Color is a clear, bright rosy pink, the upper petals are spotted with pure white which adds to the brilliancy of the pink. During the hottest dryest midsummer weather "Old Glory," for this was the specially appropriate name we gave it, was as fresh and sweet as if just watered by an April shower. Each 15¢.

NEW JUBILEE ROSE

One of the finest rose novelties which has ever been introduced. It is a perfectly hardy Hybrid Perpetual, blooming in the fall as well as in the early summer. The flowers are very large, reaching six inches across under good culture, and they last a long time cut. The buds are long and rounded. The fragrance strong, delightfully rich and lasting. Color is of most deep rich velvety crimson, glowing warmth of color, hard to describe. Each 20¢.

CLERODENDRON BALFOURI.

A unique and beautiful climbing plant. It presents a splendid combination of colors, having bright, scarlet flowers, with creamy white calyx; a profuse bloomer, young plants a foot high often bearing several clusters. A strong and rapid grower; can be grown with success as a pot plant in the house or planted for summer climber in the garden. 10¢ each.

Anthericum Picturatum.

A fine decorative plant for vases or baskets and as a pot plant it will enrich any collection. The long leaves are deep green, broadly striped with pure white, thus giving it a splendid effect. It is a strong, vigorous, rapid grower and bears many long spikes of small, star-like flowers which are pretty and attractive. Each 15¢.

**CLERODENDRON BALFOURI.****ANTIGONON.****PEPPERMINT****GERANIUM.**

This is a rare variety of scented geranium, and in fact few would think that it belonged to this class of plants. Plant is of trailing, spreading habit, soon covering a large space. Leaves large, thick, velvety and have an appearance as if covered with minute hairs of grayish green color. Has a refreshing peppermint fragrance. Every one will be pleased with it. Each 25¢.

NEW HARDY VARIET-GATED ROSE.

Roger Lamberlin.—One of the most remarkable Roses yet offered. The petals are irregular on the edges like a double Petunia; the color is glowing crimson throughout, except the edges of the petals, which are all distinctly marked with a white band, forming a sharp contrast and the most unique combination of colors known in Roses. The growth is free and vigorous, and the fragrance is delightful, equal to the finest of the hardy Roses. This is a "novelty of the most striking order." Each 20¢, 3 for 50¢.

**NEW GERANIUM****CHAMELEON**



The Fairy Water Lily.

Leaves strikingly like a Water Lily, but of a yellowish color, with darker veins, dark purple underneath and curiously rough and pitted. Its flowers, which are produced freely the year round, are white with a yellow center like miniature Water Lilies, and curiously borne on the same stem which bears the leaves. Will grow in either deep or shallow water, and is a charming plant for the aquarium. Our cut gives a very poor idea of what a pretty thing it is. Nice plants, 10c. each, 3 for 25c.

ALASKA CARNATION.

This variety is beyond doubt the most beautiful white variety in existence. Our cut shows its peculiar form. As will be noticed the petals are fringed in a delicately regular manner and curves inwards thus helping the large double flower to appear still more double. The flower is of enormous size, perfect form, has good firm calyx and is of pure snowy white. Blooms freely. Is also of special value for winter blooming in the house. A strong, vigorous, erect grower and promises to become very popular. Each 15c.

WHITE PHENOMENAL FUCHSIA.

Most of our patrons are acquainted with Fuchsia Phenomenal, and know what a very desirable variety it is. This variety is fully as large, sometimes three inches across, and the flowers are double white, veined at base with carmine. Tube and sepals bright carmine. It is of strong, robust habit, the flowers being borne in the greatest profusion, and it may be called a perpetual bloomer. These flowers have been grown to the size of a small tea cup and plants are so full of handsome blooms as to resemble a perfect ball in shape. You will be amazed at the rare qualities possessed by this magnificent Fuchsia for words cannot convey half the beauties of this floral gem. Never out of bloom, and weighted down with flowers. Each 15c.

EGYPTIAN PAPYRUS.

This fine plant which is frequently called the "Egyptian Paper Plant," is an aquatic in its native country, growing in low, swampy ground or shallow water, but it does well with ordinary culture. It somewhat resembles the Cyperus or Umbrella Palm, but the stems are crowned with tufts of fine grass-like foliage which droops gracefully around the stem. Each 15c, 4 for 50c.

June 6, 1901.—Plants arrived in good shape and I am much pleased with them. Thank you for the extras.—Mrs. A. E. C. Gilmore, Crafton, Penn

April 12, 1901.—The roses and plants came to hand in fine condition.—Frank H. Owen, Marion, Ohio

Alfred Neuner Bouvardia.

This magnificent and showy plant is the ideal Bouvardia. It is a stout, erect, strong grower making charming shaped plants, producing great clusters of the most beautiful, waxy, double, pure white flowers, resembling bunches of miniature tuberose. It blooms well during the summer beginning early in July, but its greatest value is for winter flowering. Some consider it the best of all winter blooming plants. They are quite rare and will attract attention anywhere. Each 20c.



ALFRED NEUNER
BOUARDIA.



ALASKA CARNATION

CZAR HELIOTROPE

This new giant flowered sort is a very dwarf growing variety, with black stems and enormous panicles of dark velvety violet flowers. Color is very rich and is sure to please. Each 15c.

CZARINA HELIOTROPE.

A fine companion for the above. It grows a trifle taller and bears an enormous truss of deep indigo blue flowers with clear white eye. Each 15c.

May 3, 1901.—Plants just received in good condition. Thanks for the extras sent.—Mrs. H. J. Walker, Hendersonville, N. C.

May 27, 1901.—The plants received from you have given entire satisfaction.—Miss P. Hale, Oran, Texas

WHITE PHENOMENAL FUCHSIA.

Unique Lily of the Valley.

When on our annual trip among our seed growers we noticed in an out-of-the-way place a cluster of Lily of the Valley which was of most beautiful and unique appearance. The flowers were as large and fully as numerous as any other variety, while the leaves are dark green, handsomely striped with broad bands of pure white.

Lily of the Valley is one of the most beautiful flowers in existence and would be very popular were it not that they are in bloom for such a short time and during the balance of the year the bed is not very ornamental. This new variety makes a charming bed at all seasons of the year. Each 10c. per doz. \$1.00.

RED MARECHAL NIEL ROSE.

Who ever heard of a Red Marechal Niel? In this Rose we have one which is identical with the Yellow Marechal Niel in everything except color of the flower which is a carmine-red shading to a deep pink; very fragrant. Received Gold Medal at the Rose Exposition at Frankfort-on-Main. Do not fail to include this grand rose in your collection. Each 20c.

CHOICE MIXED PAEONIES.

We have a few hundred paeony roots of choice varieties of which the names have been lost, and we therefore offer these in mixtures at 20 cents each, \$2.00 per doz.

May 25, 1901.—Plants arrived safe and sound and are growing finely.—Jacob Steucke, Albuquerque, N. M.



UNIQUE LILY OF THE
VALLEY.



THE BOSTON FERN.

BOSTON FERN.

This is a wonderfully healthy, rapid growing and graceful house plant. It has been in great demand everywhere. Many people buy it in preference to the finest Palms or Rubber Plants. Its long, broad fronds are more graceful than the old Sword Fern and seem to grow faster. Thrives in all rooms, gas or furnace heat do not seem to injure it. It is one of the most beautiful and useful of house plants. It is of easy culture and its sword-like fronds, on large specimens, attain a length of five to six feet, produced in a bewildering mass, arching, curving, and interlacing in every conceivable direction. Each 15c.

PEERLESS MIXED DAHLIAS.

Last spring we ran short of Dahlias and were obliged to purchase a large number of named varieties from other growers. At the close of the season we had a few hundred of these left on hand which we set out on our own place. Owing to a very unfavorable season they did not bloom and we are therefore obliged to offer them in mixture at a low price. We believe, however, that our customers will be pleased with the outcome if they plant this mixture. Each 10c, \$1.00 per dozen.

School Boys and Girls.

We like boys as we were boys once ourselves, you know, and we still feel youthful. We like the girls also as we have some of our own. There is nothing which we enjoy so much as making the children happy. They must have amusement and if it can be turned in such a way as to be instructive and beneficial at the same time so much the better. So much benefit is derived by young men and women who attend the agricultural colleges and experiment stations by the practical knowledge they gain on the trial grounds of these training schools that we want to help the boys and girls of our public schools to a like opportunity. There will also be much pleasure as well as benefit derived by having little trial grounds at home and experimenting with various kinds of seed. It requires but a small piece of ground to try a great many kinds of seed and there is nothing more healthful than working in the fresh soil. In order to help you we have made up the following collections at just about the actual cost of seeds and labor of putting up. The seeds are mixed in each packet but the names on the outside of packet will enable you to find out what they are as they grow, by referring to description in our catalogue. This will be a kind of experimental instruction which you will never forget.

SCHOOL FLORAL COLLECTION.—Large packet containing 12 different varieties of Flower Seeds; kinds suited for growing together which will make a showy bed. Price 10c.

SCHOOL VINE COLLECTION.—Large packet containing seeds of 10 different kinds of Ornamental Climbing Vines. Price 10c.

SCHOOL GARDEN COLLECTION.—Large packet containing seeds of 12 kinds of vegetables including the most prominent and popular sorts. If well grown a bright boy could sell several dollars worth of vegetables from this collection. Price 10c.

SCHOOL NOVELTY GARDEN COLLECTION.—Large packet containing seeds of 12 rare, curious and seldom grown vegetables. Price 10c.

SCHOOL FIELD COLLECTION.—Large packet containing seeds of 20 kinds of clover and grass seeds, making a study for any one. Price 10c.

SCHOOL FARM COLLECTION.—Large packet containing seeds of 20 different kinds of grain and farm seeds. Every farmer's boy in the country should try this. Price 10c.

The above six collections containing 86 varieties which would cost fully \$6.00 to \$7.00 if purchased in separate packages we offer for only 50c.

NEW PEACHBLOW HIBISCUS.

This is one of the finest free flowering plant novelties offered in recent years. It is a "sport" from the double red Hibiscus Rosea-Sinensis; the flowers are double and from four to five inches in diameter; of a charming rich clear pink color, with a small deep crimson center; in entirely new and most beautiful shade. It blooms abundantly and continuously even on small plants during the entire summer and fall months; may be easily wintered in the house. Large plants, two to three years old make a magnificent show. It will give great satisfaction to all who grow it, either in pots or planted out in the garden. It is a good winter bloomer. Each 20c.

ANTHERICUM PICTURATUM

One of the finest decorative plants for vases or baskets and as a pot plant it will enrich any collection. The long leaves are deep green broadly striped with pure white, thus giving it a splendid effect. It is a strong, vigorous, rapid grower and bears many long spikes of small, star-like flowers which are very pretty and attractive. Sometimes small plants will be produced on these flower stems which subsist mainly on the moisture in the atmosphere and this gives the plant a peculiar and unique appearance. Each 15c.



PEACHBLOSSOM HIBISCUS.

BLUE BEAUTY GERANIUM.

Great Novelty and a New Color.

Each year we import many European novelties for testing on our trial grounds and among others we received a number of new geraniums some of which were unnamed. We were surprised to find among the number a new color heretofore unknown in geraniums, being of a most beautiful violet or purplish crimson with a blue sheen over the surface. The flower is double and the three upper outside petals have a spot of clear vermilion near the base which makes the flowers more brilliant. Out of one hundred varieties of geraniums on our place this year there was none which approached it in color. It is a vigorous grower and free bloomer even during the driest summer weather. The blue tint shows better after flower is fully out. Each 25c.

RUSSELLIA MULTIFLORA.

A great improvement on Russellia Juncea as it blooms more continuously, being loaded with hundreds of small brilliant scarlet flowers. The flower panicles are extremely long and it makes a very desirable little plant for growing in pots or hanging baskets. Each 10c, 3 for 25c.

Plants arrived this morning. They could not have been in better condition and they were perfectly satisfactory.—Mrs. J. T. Lobnett, Deer Park, Missouri.

"Choice Iowa Seeds have always given me the best of satisfaction, in fact I believe every seed grows."—Mrs. E. M. Norman, West Elizabeth, Penn.



COUNTLESS LOUISE ERDODY BEGONIA.

This variety is sometimes called "Snail Begonia" on account of the peculiar formation of the leaves. The form is exceedingly odd and unique. The striking peculiarity which distinguishes it from all other Begonias consists in 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 lustre, dark silvery in the center, shading into coppery rose toward the margin, which is broadly and evenly edged with the same hue, but darker and more brilliant. Very curious. Each 25c.

BRYOPHYLLUM.—(Sprouting Leaf.)

One of the most curious plants it has ever been our privilege to grow. The leaves are thick and heavy. When cut and placed in moist soil little plants start from the notches in them, and make very strong plants in a very short time. When in bloom it presents a very odd and interesting appearance; first, long, green, red-striped pods are formed, through this breaks a pointed tube of a dull red shade. Blooms are produced in great profusion. Each 15c.

NEW VARIEGATED MYRTLE.

Every one knows and loves the old fashioned Myrtle with its dark green leaves and vine forming a carpet. It has always been a favorite for cemetery planting and its bright blue flowers peek up to say "good morning" to the passerby. This charming new variety has the same characteristics, but the foliage is beautifully variegated with pure white, thus making it very showy and "taking." It is the plant of plants for cemetery use, and bound to be a favorite. A decided novelty, for which, if they had it, eastern florists would doubtless ask 50c but we have propagated a good stock and offer plants at 20 cents each, doz. \$2.00.

GREVILLEA or SILK OAK.

One of the quickest growing of ornamental house plants. It is easy to manage, grows rapidly and is pretty in all stages of growth. With its long, drooping silky foliage, it reminds one of a palm or fern. The young growths are of a light bronze color, the tips being covered with a soft down, closely resembling raw silk. Each 15c.

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 distances makes it a plant of rare value for house or conservatory decoration. Must be sent by express, too large to mail. Each \$1.00, \$2.00 and \$3.00.

GOLDEN LEAVED HONEYSUCKLE.

A remarkably pretty little vine bearing a great number of sprays of the most perfect little leaves that are covered with a net-work of gold and green, often marked with pink also. The gold deepens at the tip of the sprays and there is nothing finer to combine with corsage bouquets, while for trimming floral baskets they are the finest thing we know of. A strong grower with white blossoms. A unique vine. Each 10c.

DOUBLE NASTURTIUM.

Did you ever see one? Very few people have, but we have a fine lot of them this year and are offering them at a low price. It is a most charming novelty which is really difficult to properly describe. The flowers are large and fully double like a Camellia or Rose which gives them a very different appearance from any others. They have a rich spicy fragrance and are of a rich dark orange crimson with shading of deep mahogany red. It is not a "freak" with a few small insignificant flowers, but a really good double flower, 2 to 2½ inches across, which will instantly attract the attention of everyone who sees them. Plant is a strong vigorous grower of climbing habit, and fine for trellises, window boxes, vases, etc. It is a constant bloomer all summer and fall, and if taken in the house is an excellent winter bloomer also. Never produces seed. Our cut was made from a flower left on the plant out doors very late in the season and does not do justice to it as the flower is usually so double that the petals lay flat and overlap each other. Ea. 15c, 4 for 50c.

CHENILLE PLANT. (Acalypha Sanderii.)

A most striking ornamental plant. Is a native of the South Sea Islands, of rapid growth and blooms continuously. The plant is of branching habit, healthy foliage and flower spikes which appear in pairs from the axils of the leaves, grow from two to three feet in length. They are of bright crimson color, drooping and mixing among the green foliage with charming effect. It will be extensively used as a pot plant. You will find it a most unique and sensational bedding plant on the lawn or borders. Do not plant too close together or too near others or its striking effect will be lessened. Can be lifted in fall and will make a fine show in the house during the winter; strong, well established plants 25c ea, 5 for \$1.00.

THE BABY PRIMROSE. (Primula Forbesii.)

It is a wonderfully free-blooming plant, commencing to flower as soon as born. It forms a dense rosette of somewhat fleshy leaves, from which spring the flowering stems, twelve, fifteen and even twenty inches tall, supporting three tiers or whorls of dainty flowers of a delicate rosy-lilac, with eye of pale gold. The flowers are not more than a half an inch in diameter, but they are produced in such great abundance that a few plants present a dense mass of bloom from September until June. As a pot plant it cannot be surpassed, as it is a vigorous grower and thrives either in shade or sunshine. Each 10c.

AUREOLE GERANIUM.

Mad. Bruant.—A fancy flowered sort, remarkable colors, quite distinct and almost startling in effect, no other variety equalling it for bedding. Plant is loaded with blooms and each floret is large, center being white beautifully veined with carmine lake, radiating into a handsome aureole, each petal being bordered with bright solferino. A fine pot plant and constant bloomer. Each 15c.



BRYOPHYLLUM.



GREVILLEA OR SILK OAK.

Double
Nasturtium.

AUREOLE GERANIUM.



LOUISE ERDODY BEGONIA.



ARAUCARIA



CHENILLE PLANTS.



BABY PRIMROSE.

FLOWER SEEDS.

Our floral beauties come in for their full share of attention, and we have in our employ an experienced specialist in this line, who, under our supervision, attends to growing whatever can be grown to advantage in this country, tests all novelties offered in this country or Europe, and is 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. The manager of this company has also visited the leading flower seed growers of various European countries to secure the choicest varieties brought out by foreign specialists. All who truly love the beautiful and prize all things new and valuable in the floral kingdom, will be interested in the following pages, and also in looking over the flower plant and bulb list. Don't fail to notice also the novelties listed on the colored pages of this book.

Our flower seeds are all fresh and we know they 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 list all the varieties alphabetically together—annuals, biennials, perennials, climbers, everlastings and ornamental grasses, but we mention in the description the class they belong to if they are not annuals. This will make it easier to find any sort named.

DIRECTIONS FOR SOWING, ETC.—To insure success the conditions and requirements of the several species as to soil, moisture, heat, etc., should be studied and then observed in culture. Below we give a few general directions for their culture, though more complete directions will be found printed on many of the 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 as smooth and fine as possible, sow seeds in rows, covering each sort of seed in proportion to its size (a good general rule being to cover twice the diameter of the seed) and press the soil down firmly over it. Do not plant any seeds when the ground is wet. Many varieties such as pansy, verbena, daisy, hollyhock and the fine green-house-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 them too wet and as soon as they are large enough to handle transplant to boxes from one to three inches apart, where they are to remain until time to transplant to permanent beds. We will always be glad to answer any questions from our customers relative to the cultivation of any kind of plants.

OUR PRICES.—The cost of raising the various sorts of flower seeds varies greatly, from such as mignonette, of which we can grow a hundred pounds at but comparatively only a few dollars expense, up to double petunia, which costs us over one hundred dollars per ounce, and some other kinds which are still more expensive. There are but few who care for more than one good sized bed of any sort; therefore we have filled our packets with a sufficient amount and made prices as low as possible, some being only two or three cents each, and we are certain customers will be well pleased with the quantity they contain. We have carefully compared our packets with those of the many leading seed dealers and are convinced that our packets on an average are better filled than any of them. We are growers and sell flower seeds to many of the largest seedsmen in this country and Europe, and can afford to sell at low prices to our customers.

DISCOUNTS.—In spite of our very low prices by the packet, we still offer flower seeds in *packets only*, to the amount of \$1.25 for \$1.00. This discount does not apply to collections of seeds nor to seeds by weight or measure. All flower seeds are sent free by mail on receipt of price.

ACROCLINIUM.

Elegant summer flowering annuals forming plants about one foot high, bearing quantities of large double flowers of white, rose, etc., 1 to 2 inches across. Splendid everlastings for winter bouquets. Mixed colors. Pkt. 3c.

AGROSTEMMA.

COELI ROSA.—A very hardy plant introduced from Russia, producing pretty pink-like blossoms on long slender stems. Very useful for cutting for bouquets and pretty for masses in beds. Also known as Rose of Heaven. About 1½ feet high. Deep rose color. Pkt. 3c.

MAMMOTH BROWALLIA.

This new sort is without doubt the most beautiful of all the Browallias. The plants grow only about a foot high, form dense little bushes, which are covered with an abundance of the most delightful sky blue flowers, much larger than those of the other varieties. For beds, borders or pots there is hardly another plant with blue flowers that compare with it. Per pkt. 10c.



GRASS PINKS.



MAMMOTH FLOWERED BROWALLIA.

best foreign and American strains and their beauty is truly marvelous. Flower are double and of all known colors, and plants are loaded with hundreds of flowers. Pkt. 10c.

ALL VARIETIES MIXED.—A nice mixture of the older sorts. Pkt. 4c. oz. 25c.

ABRONIA.

Trailing habit, similar to verbenas, bearing clusters of sweet scented flowers. Effective for bedding in masses and very desirable for rock work and hanging baskets. In beds sometimes one plant covers a yard square and is full of bloom. Rose color. Per pkt. 3c.

AGERATUM.

MEXICANUM.—Very desirable for bouquets; produces a great many blue flowers and blooms a long time; largely used by florists; start seeds early. Pkt. 4c.

ALBIFLORUM.—Like above, only white. Pkt. 8c.

BALLOON VINE.

A very pretty, rapid growing climber, succeeding best in a warm situation. Remarkable for its inflated semi-transparent capsules; sometimes called "Love in a Puff." Flowers white. Pkt. 5c.

GRASS PINKS.

The hardy and pretty clove scented flowers which were so much loved by our grandmothers. Their fragrance is quickly noted by any one passing by the yard where they are grown, before seeing the flowers. There has been quite a call for these among our customers, and for several years we have tried to obtain seed of this old garden favorite and have at last succeeded in obtaining a fine crop of seed. The flowers from seed are some double, some semi-double and some single; range from pure white to a dark pink, most of them, however, being a clear, delicate pink color. A hardy perennial very desirable borders. Per 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 as the rose, very striking in their rich coloring, ranging from pure white to rich dark crimson. The packets contain about 50 seeds.

CAMELIA—FLOWERED—MIXED.—Very double, resembling the camelia in form, of unusual size, perfect shape, and our mixture contains all the best colors. Pkt. 5c.

WHITE DOUBLE.—Very desirable and largely used by florists. Pkt. 8c.

PEERLESS MIXED.—This new mixture is made up from the best foreign and American strains and their beauty is truly marvelous. Flower are double and of all known colors, and plants are loaded with hundreds of flowers. Pkt. 10c.

ALL VARIETIES MIXED.—A nice mixture of the older sorts. Pkt. 4c. oz. 25c.



ABRONIA.



ASTERS.

The numerous forms of the aster, and the now great variety of rich colors of its perfectly double flowers make it a leading favorite. For a late summer and fall display it has no equal. Sow seed early and give deep, rich soil, with plenty of mulching.

NEW DIAMOND.—(See cut No. 1.) The flowers are extremely beautiful, 2 to 2½ inches across, and the plants grow 18 to 20 inches high. All the stems and branches are terminated by perfect flowers, the plant appearing as a mass of bloom. The colors range from pure white to blackish purple, and dark, rich crimson. Pkt. 10c.

NEW TRIUMPH.—(No. 2.) The most beautiful and most perfect of all dwarf asters. Each plant forms an elegant bouquet of itself. The individual flowers measure from 2½ to 3 inches across. When beginning to bloom it is a pure scarlet, but when in full bloom it changes to a magnificent, satiny, deep scarlet. Pkt. 10c.

SNOWBALL.—(No. 3.) A beautiful and distinct variety and the best white. The flowers are semi-spherical, as shown in our engraving; of refined and faultless form; pure white, beautifully imbricated and very freely produced, as many as 30 flowers being frequently borne on a single plant. Fine for pot culture. Pkt. 15c.

PERFECTION.—(No. 4.) *Truffant's Improved Poony Flowered.* A favorite class; thrifty, upright growers; flowers large (4 inches across) and almost perfectly round, with incurved petals; height 15 inches to 2 feet. Our mixture contains many exquisite colors. Pkt. 5c.

CROWN.—(No. 5.) The center of each flower is white, surrounded by a broad margin of color, such as crimson, rose, violet, etc.; flowers large, freely produced. Beautiful and showy; mixed colors. Pkt. 5c.

GIANT COMET MIXED.—(No. 6.) The shape of this new variety differs from all others, resembling closely the large-flowered Japanese chrysanthemums. The flowers are from 3½ to 4½ inches in diameter, perfectly double, many handsome colors mixed. Pkt. 10c.

GOLDEN BALL.—The long-sought novelty—a yellow aster—has finally been produced and will be warmly welcomed by all flower lovers. The double flower is of light yellow. Pkt. 10c.

NEW BRANCHING.—One of the best floral novelties, and one which every flower lover should try. The flowers are borne on very long stems and are of extraordinary size, being four inches or more in diameter. Mixed colors. Pkt. 10c.

CHRISTMAS TREE.—One of the most popular European novelties; of pyramidal shape, covered with 70 to 100 flowers. Mixed colors. Pkt. 10c.

DWARF BOUQUET.—Very fine, mixed colors. Each plant forms a bouquet. Pkt. 5c.

HARLEQUIN.—New dwarf strain of great beauty, with oddly spotted and striped, very double flowers of red and blue, the same plant having a great variety of flowers on it. Pkt. 10c.

SEMPLER'S BRANCHING.—A beautiful class of Asters, useful for cut flowers. The flowers are very large and double, sometimes 4 inches across, borne on large stiff stems and the colors are clear and handsome. Mixed colors. Pkt. 5c.

SEMPLER'S White, Crimson, Lavender, Pink and Purple in separate colors, each per pkt. 5c. 6 for 25c.

DAYBREAK.—This beautiful Aster is as round as a ball, very large and full, on long stems; color charming sea-shell pink; very early, continuous free bloomer, compact, strong grower, and in all respects a desirable acquisition. Pkt. 10c.

BETTERIDGE'S QUILLED.—Perfectly double tube or quill-shaped petals; valuable for bouquets and bedding. Mixed colors. Pkt. 3c.

SINGLE FLOWERING.—Globular plants bearing a mass of star-shaped flowers which appear early and continue late into the autumn. Very effective in beds or borders; mixed colors. Pkt. 5c.

VICTORIA.—This is a magnificent sort, 20 inches high, vigorous in growth, of pyramidal habit, a very free bloomer; its flowers are double to the center. Very large, brilliant colors; mixed. Pkt. 10c.

WASHINGTON.—The largest aster in cultivation, its flowers often measuring five inches across; perfectly double, fine form and of many exquisite colors; mixed colors. Packet 10 cents.

PERENNIAL MIXED.—Single flowering; hardy, herbaceous plants, thriving in any good garden soil. If sown early in the spring they will flower first season. Pkt. 5c.

COLLECTION OF ASTERS.—One packet each of above 21 varieties \$1.10.

ALL KINDS MIXED.—Seeds of most of above kinds. Pkt. 5c.

ROYAL MIXED.—A very choice selection of all the best sorts. No second grades. Packet 10 cents.

ALYSSUM.

SWEET.—Has pretty little white flowers, useful for making up in all kinds of 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. 3c.

LITTLE GEM.—The plants are very dwarf and remarkably uniform in growth, grows only 3 or 4 inches high, and each plant spreads so as to completely cover a circular space 12 to 20 inches in diameter. The plants begin to flower while quite young and soon become one mass of white, remaining in full bloom from spring till fall. Deliciously fragrant. More than four hundred clusters of flowers in full bloom have been counted on a single plant. Pkt. 5c.

The Tuberoses and flower plants arrived in fine condition and I was both surprised and pleased with them as they are much larger and better than I supposed they would be.—Mrs. Addie Ogden, Blockton, Ind.



SWEET ALYSSUM.



HARLEQUIN
ASTER.



ABUTILON.—A well-known green house shrub, also called Flowering Maple or Chinese Bell Flower. They are pretty plants, useful for pots in summer and the bell-shaped flowers are beautifully dotted and handsomely veined. Are of easy culture; bloom readily from seed the first summer if seed is started early in the house. Finest varieties mixed. Pkt. 10c.

AMARANTHUS, Tricolor.—Leaves yellow, red and green; well known as "Joseph's Coat." Very showy in beds alone. Hardy annual; two feet high. Pkt. 3c.

Sunrise.—The most brilliant and showy variety. Top of plant brilliant crimson, lower leaves dark maroon. Worthy a place in every garden. Pkt. 10c.

Caudatus.—(Love Lies Bleeding.) Produces long, drooping chains of brilliant flowers. Pkt. 3c.

Mixed Varieties.—A great assortment. Pkt. 5c.

ASPERULA AZUREA SETOSA.—Produces many small light blue fragrant flowers. Pkt. 5c.

AMOBIA ALATUM GRANDIFLOSUM.—A pretty double white everlasting. Pkt. 4c.

ARABIS ALPINA.—Pure white early flowering plants. Perennial. Pkt. 10c.

ADLUMIA.—(Mountain Fringe.)—A beautiful hardy perennial vine, with fern-like foliage of a pale green color, with pretty flesh colored blossoms; called Allegheny Vine. Pkt. 7c.

ANTIRRHINUM.—(Snapdragon.)—One of the most beautiful and useful border plants. blooming profusely the first season from seed, until after frost. Our mixtures contain all the new and choice colors, including the beautiful, striped, variegated and margined,

Tall Varieties Mixed.—Pkt. 3c.

Tom Thumb.—A collection of the most beautiful, very dwarf varieties. Pkt. 5c.

Giant Flowered.—A most beautiful new class, having all the finest colors and markings. Immense spikes and flowers. Pkt. 10c.

AQUILEGIA (Columbine) CHRYSANTHA.—Yellow flowered. Pkt. 5c. **COERULA.**—Large blue and white flowers. Pkt. 5c. **WHITE.**—Desirable for cemetery. Pkt. 10c.

DOUBLE MIXED.—Pkt. 5c.

BEGONIA.—Seeds should be sown on top of the soil in a box, pressing soil evenly with a block. Cover box with a glass and give partial shade until up.

Vernon.—Comes absolutely true from seed. The plants grow rapidly and thrive amazingly under our hot summer sun. Pkt. 10c.

Rex.—The king of Begonias and will always be very elegant and popular. Ornamental leaved varieties. Extra fine mixed. Pkt. 15c.

Mixed Varieties.—Many excellent flowering varieties. Pkt. 15c.

Erfordia.—A most profuse bloomer from early summer until late autumn. Color of flower is a lovely soft pink. Leaves and leaf stalks are of a coppery bronze. Pkt. 1 c.

Tuberous Rooted.—Covered the whole summer with bright large and elegant flowers, blooming the first season from seed, if sown in February or March in a temperature of 60 degrees. Single and double mixed. Pkt. 15c.

BRACHYCOME.—Pretty for borders. Blue and white. Mixed. Pkt. 5c.

BYRONOPSIS.—A hardy climbing annual, with nice ivy like foliage. Pkt. 5c.

CANTERBURY BELLS.—Single and double, mixed colors. Pkt. 5c.

CUPHEA-PLATYCENTRA.—(Cigar Plant.)—Pretty, bright scarlet flowers. Pkt. 10c.

CALLIOPSIS OR COREOPSIS—Mixed Colors.—Flowers of every shade of yellow, orange, crimson, red and brown. Pkt. 5c.

Lanceolata.—(New Golden Coreopsis.)—One of the most showy hardy perennials grown, bearing in great profusion for a long period during the summer, large flowers of bright golden yellow. Grows anywhere. Pkt. 10c.

Golden Wave.—Plant very bushy and compact, reaching two feet in height, and covered from July to October with hundreds of beautiful golden blossoms, two inches in diameter with small dark centers. It is indeed a wave of gold. Pk 8c.

Double.—A grand novelty, bearing double flowers. Pkt. 10c.

CALENDULA—Meteor.—A new variety; very fine for pot culture, bearing large light yellow flowers, striped with bright orange. Pkt. 5c.

Oreole.—The extra large double flowers are indescribably rich and glowing in tone of intensely bright golden yellow; wonderfully free flowering plant. Pkt. 5c.

Fine Mixed.—Many nice varieties. Pkt. 3c.

CARNATION—Double Extra Mixed.—The best green house varieties. Very fragrant. Our seed is unsurpassed. Pkt. 10c.

Marguerite.—These lovely, fragrant flowers are in full bloom in about four months after sowing the seed. The plants succeed alike in the open garden or in pots, and the flowers are of high type, exquisitely sweet, fully 80 per cent perfectly double. The range of color, marking, variegations and shading are simply wonderful. Pkt. 5c.

CINERARIA.—As will be seen by the illustration from a single plant, the Cineraria is a wonder for wealth of bloom. The plants grow perfectly circular in shape and are entirely covered with brilliant blossoms of all shades of blue, purple and crimson. Most of the varieties have a well-defined white eye and are unsurpassed for attractiveness. Large flowering. Pkt. 15c.

CROCOLARIA.—Betula.—A handsome, interesting and easily grown plant. The flowers are of rich golden yellow color with a spot of velvety brown in the center. The flowers are in long spikes and the separate blooms greatly resemble sweet peas in form and some call them Yellow Sweet Peas. Start seed early and it will bloom the first year. Per pkt. 10c.

COBOEA SCANDENS.—Magnificent climber of rapid growth and beautiful blue flowers. The seed should be planted edgewise in moist earth. Pkt. 10c.

CYPRESS VINE.—A beautiful rapid climber with delicate, dark green foliage, and an abundance of bright star-shaped scarlet and white blossoms, which in the bright sunshine present a mass of beauty.

Scarlet.—Very bright. Pkt. 5c. **White.**—Pretty in contrast with scarlet. Pkt. 5c.

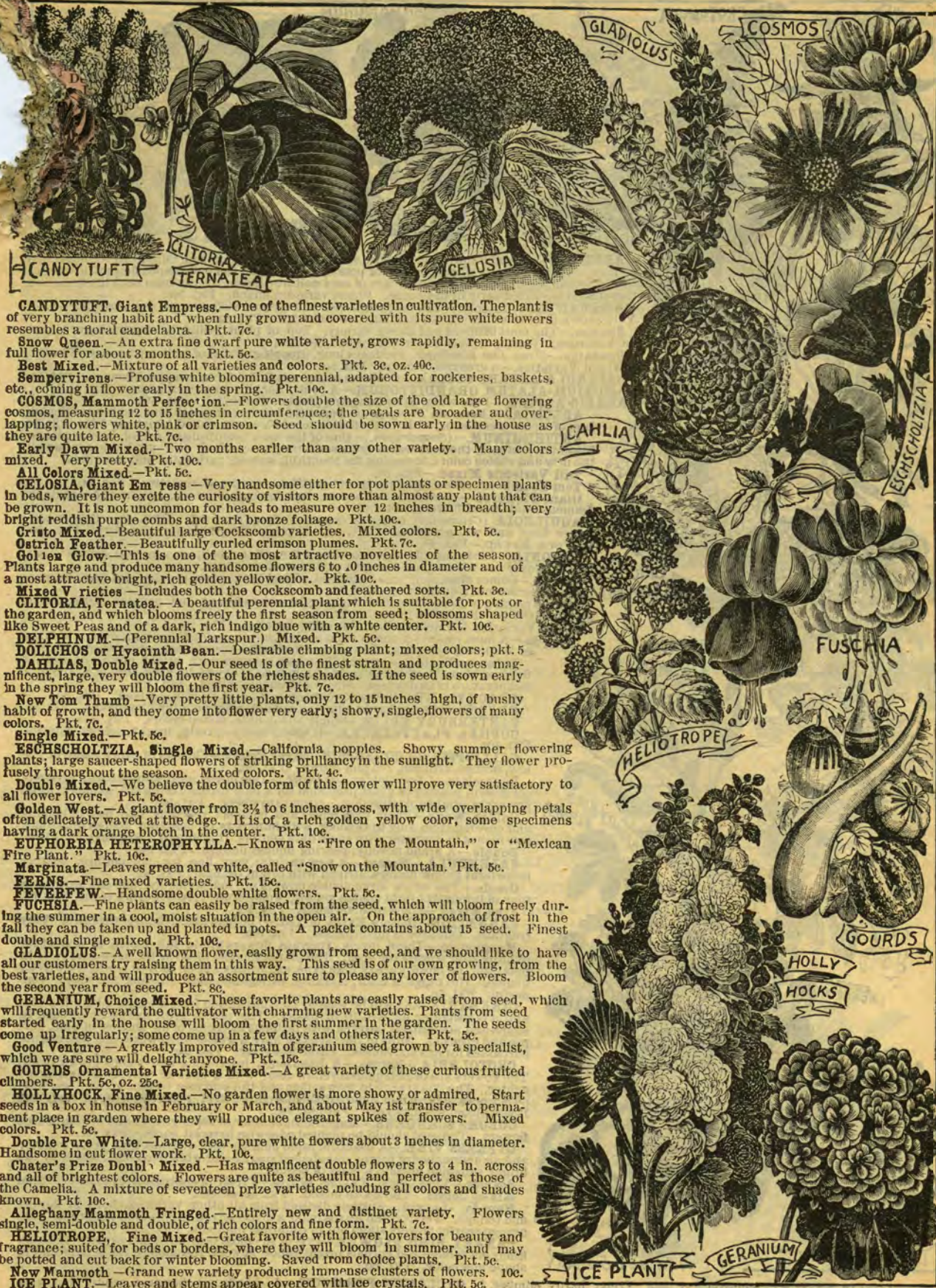
Mixed Colors.—The above mixed. Pkt. 5c. oz. 30c.

New Ivy Leaved.—Entirely distinct from all other varieties, both in flowers and foliage. The ivy-like leaves make a dense screen from which the pretty fiery orange-scarlet flowers stand out in countless numbers. Pkt. 7c.

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.

AMPELOPLIS VEITCHI.—(Boston Ivy.)—A Pretty hardy climber. Pkt. 5c.

CYCLAMEN PERSICUM.—A handsome flowered winter blooming plant. Pkt. 10c.



CANDYTUFT, Giant Empress.—One of the finest varieties in cultivation. The plant is of very branching habit and when fully grown and covered with its pure white flowers resembles a floral candelabra. Pkt. 7c.

Snow Queen.—An extra fine dwarf pure white variety, grows rapidly, remaining in full flower for about 3 months. Pkt. 5c.

Best Mixed.—Mixture of all varieties and colors. Pkt. 3c, oz. 40c.

Sempervirens.—Profuse white blooming perennial, adapted for rockeries, baskets, etc., coming in flower early in the spring. Pkt. 10c.

COSMOS, Mammoth Perfection.—Flowers double the size of the old large flowering cosmos, measuring 12 to 15 inches in circumference; the petals are broader and overlapping; flowers white, pink or crimson. Seed should be sown early in the house as they are quite late. Pkt. 7c.

Early Dawn Mixed.—Two months earlier than any other variety. Many colors mixed. Very pretty. Pkt. 10c.

All Colors Mixed.—Pkt. 5c.

CELOSIA, Giant Emress.—Very handsome either for pot plants or specimen plants in beds, where they excite the curiosity of visitors more than almost any plant that can be grown. It is not uncommon for heads to measure over 12 inches in breadth; very bright reddish purple combs and dark bronze foliage. Pkt. 10c.

Cristo Mixed.—Beautiful large Cockscomb varieties. Mixed colors. Pkt. 5c.

Ostrich Feather.—Beautifully curled crimson plumes. Pkt. 7c.

Golden Glow.—This is one of the most attractive novelties of the season. Plants large and produce many handsome flowers 6 to 10 inches in diameter and of a most attractive bright, rich golden yellow color. Pkt. 10c.

Mixed Varieties.—Includes both the Cockscomb and feathered sorts. Pkt. 2c.

CLITORIA, Ternatea.—A beautiful perennial plant which is suitable for pots or the garden, and which blooms freely the first season from seed; blossoms shaped like Sweet Peas and of a dark, rich indigo blue with a white center. Pkt. 10c.

DELPHINIUM.—(Perennial Larkspur.) Mixed. Pkt. 5c.

DOLICHOS or Hyacinth Bean.—Desirable climbing plant; mixed colors; pkt. 5

DAHLIAS, Double Mixed.—Our seed is of the finest strain and produces magnificent, large, very double flowers of the richest shades. If the seed is sown early in the spring they will bloom the first year. Pkt. 7c.

New Tom Thumb.—Very pretty little plants, only 12 to 15 inches high, of bushy habit of growth, and they come into flower very early; showy, single, flowers of many colors. Pkt. 7c.

Single Mixed.—Pkt. 5c.

ESCHSCHOLTZIA, Single Mixed.—California poppies. Showy summer flowering plants; large saucer-shaped flowers of striking brilliancy in the sunlight. They flower profusely throughout the season. Mixed colors. Pkt. 4c.

Double Mixed.—We believe the double form of this flower will prove very satisfactory to all flower lovers. Pkt. 5c.

Golden West.—A giant flower from 3 1/4 to 6 inches across, with wide overlapping petals often delicately waved at the edge. It is of a rich golden yellow color, some specimens having a dark orange blotch in the center. Pkt. 10c.

EUPHORBIA HETEROPHYLLA.—Known as "Fire on the Mountain," or "Mexican Fire Plant." Pkt. 10c.

Marginata.—Leaves green and white, called "Snow on the Mountain." Pkt. 5c.

FERNs.—Fine mixed varieties. Pkt. 15c.

FEVERFEW.—Handsome double white flowers. Pkt. 5c.

FUSCHIA.—Fine plants can easily be raised from the seed, which will bloom freely during the summer in a cool, moist situation in the open air. On the approach of frost in the fall they can be taken up and planted in pots. A packet contains about 15 seed. Finest double and single mixed. Pkt. 10c.

GLADIOLUS.—A well known flower, easily grown from seed, and we should 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 an assortment sure to please any lover of flowers. Bloom the second year from seed. Pkt. 8c.

GERANIUM, Choice Mixed.—These favorite plants are easily raised from seed, which will frequently reward the cultivator with charming new varieties. Plants from seed started early in the house will bloom the first summer in the garden. The seeds come up irregularly; some come up in a few days and others later. Pkt. 5c.

Good Venture.—A greatly improved strain of geranium seed grown by a specialist, which we are sure will delight anyone. Pkt. 15c.

GOURDS, Ornamental Varieties Mixed.—A great variety of these curious fruited climbers. Pkt. 5c, oz. 25c.

HOLLYHOCK, Fine Mixed.—No garden flower is more showy or admired. Start seeds in a box in house in February or March, and about May 1st transfer to permanent place in garden where they will produce elegant spikes of flowers. Mixed colors. Pkt. 5c.

Double Pure White.—Large, clear, pure white flowers about 3 inches in diameter. Handsome in cut flower work. Pkt. 10c.

Chater's Prize Double Mixed.—Has magnificent double flowers 3 to 4 in. across and all of brightest colors. Flowers are quite as beautiful and perfect as those of the Camellia. A mixture of seventeen prize varieties including all colors and shades known. Pkt. 10c.

Alleghany Mammoth Fringed.—Entirely new and distinct variety. Flowers single, semi-double and double, of rich colors and fine form. Pkt. 7c.

HELIOTROPE, Fine Mixed.—Great favorite with flower lovers for beauty and fragrance; suited for beds or borders, where they will bloom in summer, and may be potted and cut back for winter blooming. Saved from choice plants. Pkt. 5c.

New Mammoth.—Grand new variety producing immense clusters of flowers. 10c.

ICE PLANT.—Leaves and stems appear covered with ice crystals. Pkt. 5c.

MORNING GLORIES.

These "glories" of the old home gardens are again coming into popular favor, and the improved sorts are so bright, fresh and beautiful that we cannot help loving them, and like the children they are glory and brightness of our home.

IMPROVED CLIMBING.—Everybody knows the common Morning Glory, but many of the new varieties contained in this mixture are indeed rare. It will be found to include spotted and striped sorts, varieties with marbled and lacinated foliage, the ivy-leaf—in short, the largest variety of Morning Glories ever offered in one package. The plants are of large size, and plants climb to a height of twenty to forty feet in one season from seed, giving thousands of flowers. Pkt. 5c, oz. 20c, ¼ lb. 60c.

IMPERIAL JAPANESE.—Most magnificently large flowers of exquisite new colors. They are rich and velvety; single and double mixed. Pkt. 8c, oz. 25c.

FINE MIXED.—A mixture of the old varieties. Pkt. 2c, oz. 10c, ¼ lb. 20c.

BRAZZILIAN.—(*Ipomoea Setosa*).—One of the grandest and most luxuriant ever grown, very showy and graceful, with rose-colored flowers from three to four inches in diameter, and a huge leaf ten to twelve inches across. The density of the shade is remarkable, as the leaves overlap one another like shingles. Pkt. 10c.

NEW DOUBLE-FLOWERING.—A splendid novelty of rapid growth, and produces its double flowers very freely. They are white with a slight spot of red or blue at the base of the larger petals. About 80 per cent of the seedlings will reproduce themselves true from seed; when sown early in the spring, a long season of beautiful double flowers will repay you. Pkt. 10c.

DWARF.—See Convolvulus.

LEMON VERBENA.

Everybody knows the Lemon Verbena and all should have a few specimens of it, for its fragrant foliage is so fine to use in bouquets and floral work. Pkt. 10c.

LARKSPUR.

DWARF GERMAN ROCKET.—An old and well known annual. The flowers are borne in compact spikes and are hardy, showy and desirable any where. Mixed colors. Pkt. 5c.

TALL GERMAN ROCKET.—Mixed colors. Pkt. 3c.

AMERICAN BANNER.—Combines the national colors—red, white and blue—in each flower. Pkt. 10c.



DOUBLE FLOWERING MORNING GLORY.



OUR HOME MORNING GLORIES.

NIGELLA. (*Love in the Mist*).—Hardy annuals, about one foot in height, finely cut leaves and handsome double flowers, blue, white and purple, beautifully veiled with feathery, delicate appearing foliage. Pkt. 4c.

NIEREMBERGIA.—Half-hardy perennial, perpetually in bloom, flowering the first year if sown early; white tinted with lilac. Pkt. 5c.

MAURANDIA.—Delicate climber for windows or conservatories. Admirable to hang from vases, to cover stumps and low trellises, flowering freely; height 6 to 10 feet. Mixed colors. Pkt. 8c.

QUADRICOLOR JAPANESE MAIZE.—An ornamental foliage plant of rapid growth, giving immediate effect, and one which would be 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. The variegation does not begin to show until the fourth or fifth leaf, when the leaves become striped with broad bands of white, changing soon to narrow stripes or ribbons of alternate clear white and brightest green, also striped with rose and carmine. The leaves are waxy and gracefully recurved. Our illustration does not do it justice. Desirable for groups on the lawn or ribbon beds or a back border to the lawn. Pkt. 5c, oz. 15c.



QUADRICOLOR JAPANESE MAIZE.



MOURNING CLOAK DIANTHUS

DIANTHUS.

This has long been a great garden favorite furnishing abundance of gay and pretty flowers.

FIREBALL.—Flowers are perfectly double, and color a rich velvety blood red. Continue to bloom profusely all summer and fall. Pkt. 10c.

SNOWBALL.—Flowers large, pure white, double finely fringed and of perfect form. Pkt. 8c.

CROWN.—Flowers average six inches in circumference, densely double. Colors from purest satiny white to deep and intensely brilliant, soft pinks and flesh tints more dainty than brush could lay; and a large proportion of flowers hieroglyphically marked with various hues. Pkt. 8c.

MOURNING CLOAK.—A very double large flower of a very dark mahogany, almost black, each petal edged with a clear cut margin of pure white. Pkt. 5c.

HEDDEWIGI.—Finest selected single mixed. Pkt. 5c.

DOUBLE DIADEM PINK.—Superb large double flower. Hieroglyphically marked, like the original Chinese pinks. Pkt. 7c.

CHINENSIS.—(*Double Chinese Pink*).—Finest double mixed. Pkt. 3c.

MIXED VARIETIES AND COLORS. Pkt. 5c



DOUBLE ANNUAL CHRYSANTHEMUM.

CHRYSANTHEMUMS.—Single Mixed.—One of the prettiest annuals grown. The colors have the appearance of being laid on with a brush, and for this reason they are frequently called "painted daisies," and are indeed charming. Sow seed early in open ground and they will bloom all summer. Pkt. 3c.

New Double Annual.—A valuable and most unique novelty. They are extremely variable and it is impossible to describe the beautiful forms which have been produced. A great variety of colors, markings and pencillings. Although mostly very double, there will be an occasional semi-double, or even single, but these are almost equally charming. Pkt. 5c.

Perennial.—Double mixed. This is the most popular greenhouse variety. Very showy and desirable for fall and early winter blooming. Plants potted in the fall make a continuous bouquet for many weeks. Sow seeds early. Pkt. 10c.

OENOTHERA. (*Evening Primrose*).—Interesting half hardy annual, opening its flowers toward evening with a snap that is sure to attract attention, especially of the children. Mixed colors. Pkt. 6c.

DAISIES.—*Giant Snowball.*—A grand, large, pure white variety. Per pkt. 10c.

Best Double Mixed.—All colors. Pkt. 5c.

GAILARDIA.—*Perfection Mixed.*—Beautiful large double flowers. Pkt. 5c.

Grandiflora.—The best perennial sort. Pkt. 8c.

DATURA.—*Cornucopia.*—A fine flower 5 inches long. Double, fragrant. Pkt. 10c.

Double Mixed Colors.—Pkt. 5c.

CANNA.—*Crozy's Mixed.*—One of the finest bedding plants. Pkt. 7c, oz. 25c. **Fine Mixed.**—Saved from the older sorts. Pkt. 3c, oz. 15c.

HUMULUS.—*Japanese Variegated.*—(*Hop*).—A prettily variegated vine. Pkt. 6c.

NASTURTIIUMS.

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 of new color. The plant forms a perfect globe and is literally covered with flowers, completely hiding the foliage when in full bloom. The flower is of deep chrome yellow, the lower petals blotched with purplish carmine and finely marked with bright carmine veining. Pkt. 5c, oz. 15c.

BEAUTY.—An extra fine dwarf variety, having handsome scarlet flowers splashed with canary yellow. Pkt. 5c, oz. 10c.

DWARF CHAMELEON.—The flowers of this new Tom Thumb nasturtium are in color crimson, gold and bronze, bordered and flamed, changing in hue almost daily, hence named "Chameleon." No variety could be more satisfactory, and as our crop was good we have reduced our price this year so that all can try it. Pkt. 5c, oz. 15c.

CLOTH OF GOLD.—Foliage is of a clear, bright yellow color. The plant is of dwarf, compact habit; flowers scarlet. Pkt. 5c, oz. 10c.

EMPRESS OF INDIA.—Of dwarf, bushy habit the leaves of a dark, purplish blue color, making a suitable background for the brilliant crimson-scarlet flowers. Its profusion of bloom and dazzling richness of color are remarkable. Pkt. 5c, oz. 15c.

LADYBIRD.—Of dwarf, neat, compact habit of growth. Flowers rich golden yellow, each petal barred with bright ruby crimson. Pkt. 5c, oz. 10c.

KING THEODORE.—The darkest color in nasturtiums, deep scarlet maroon. Pkt. 5c, oz. 15c.

GAY AND FESTIVE.—A new and greatly improved strain of dwarf nasturtiums from California, showing a most charming combination of colors. Flowers unusually large and very beautiful. Thirty distinct varieties mixed. Per pkt. 10c, oz. 25c.

PEARL.—A most charming dwarf white variety. Pkt. 5c, oz. 10c.

IMPERIAL MIXED.—Includes about twenty of the dwarf varieties, selected from both American and foreign growers. The varieties are so selected that the colors harmonize beautifully and delight flower lovers, as they are of neat, compact habit of growth, and bloom freely when planted in beds, producing a mass of colors. Pkt. 5c, oz. 15c, ¼ lb. 50c.

DWARF VARIETIES MIXED.—A nice mixture of colors of this free blooming class. Each plant forms a small compact bush laden with bloom. Owing to the immense quantity we grow of this we are enabled to make the low price, Pkt. 3c, oz. 10c, ¼ lb. 20c, ½ lb. 65c.

CLIMBING NASTURTIIUMS.

CAPRICE.—A charming novelty with flowers of changeable colors. A single plant frequently showing a dozen different colors or markings. Pkt. 10c, oz. 35c.

KING OF THE BLACKS.—A very handsome climbing variety, with flowers of a very rich dark brown, almost black. Pkt. 5c, oz. 15c.

SPITFIRE.—A most brilliant new variety of bright cardinal red. A most glowing color. Pkt. 5c, oz. 15c.

NAPOLEON III.—A beautiful climbing variety with golden yellow flowers, striped with rosy scarlet. Pkt. 5c, oz. 15c.

TALL VARIETIES MIXED.—Pkt. 3c, oz. 10c, ¼ lb. 20c, ½ lb. 65c.

POPPIES.

This grand old flower has kept pace with the march of improvement, and now comes around and surprises us with its new forms, new sizes and new colors.

ROSY MORN.—This new Poppy is really superb. The flowers are extremely

double and of good size, forming perfect balls of a unique and beautiful shade of rose—a new and distinct color in Poppies. It is of the easiest possible culture, belonging to the annual peony-flowered section and merely requires to be sown where the plants are to flower. Per pkt. 7c.

BRILLIANT.—The flowers present a variety of bright colors, pure white, scarlet, rose

purple and various other shades. The ends of the petals or fringes are of a deeper tint, and the beautiful flowers are so bright as to be dazzling to the eye. Pkt. 5c.

FAIRY BLUSH.—Flowers perfectly double, and measure from ten to thirteen inches in circumference. Petals elegantly fringed, pure white, tipped with rosy cream. Pkt. 6c.

SHIRLEY.—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.

AMERICAN FLAG.—Flowers extra large very double, snow white, bordered with scarlet, thus making an extra choice, very showy variety, that should be very popular. Pkt. 6c.

SNOWDRIFT.—A beautiful new large double pure white variety. Pkt. 5c.

DOUBLE CARNATION.—A splendid assortment of the best double carnation-flowered sorts. The most popular variety, and will make an attractive bed. Pkt. 5c.

ALL VARIETIES MIXED.—Per pkt. 3c.



IMPERIAL MIXED NASTURTIIUM.



EMPRESS OF INDIA.

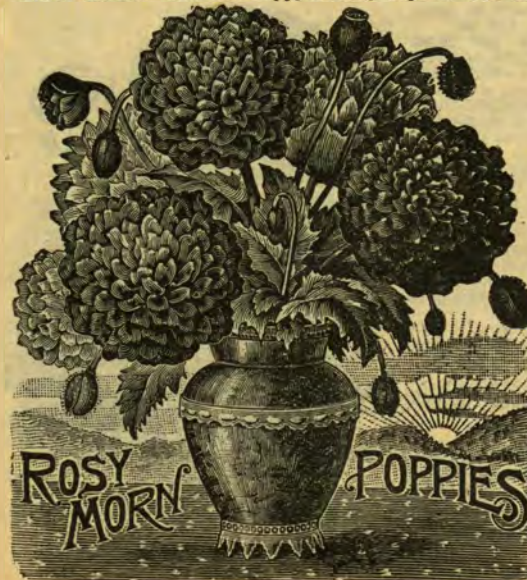


MADAM GUNTER'S HYBRID NASTURTIIUM.

MADAM GUNTER'S HYBRIDS.—For richness and variety of colors these new hybrids have no equals among the nasturtiums. The foliage is mostly dark, contrasts very effectively with the flowers. They are 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 the deepest brown and maroon—nearly black, all striped, shaded and blotched in an indescribable manner. Per pkt. 5c, oz. 10c, ¼ lb. 35c.

LOBB'S NASTURTIIUM.—These are much superior to the ordinary tall nasturtiums in brilliancy of flowers, height and rapid growth. Our mixture includes all the best named sorts. Per pkt. 5c, oz. 15c.

CLIMBING CHAMELEON.—A decided novelty, producing yellow, scarlet, crimson and maroon in different flowers at the same time on the same plant, giving them a very fantastic appearance. Plant is of vigorous climbing or trailing habit of growth. Pkt. 6c, oz. 20c.



AMERICAN FLAG POPPY.



LANTANA.—One of the most satisfactory plants grown. It is the flower for everybody both for outdoor bedding, and blooming all winter in the house. The flowers somewhat resemble the Verbena, and 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. Pkt. 10c.

GILLA.—Small, delicate flowers, white, lilac and rose colors. Pkt. 5c.
GLOBE AMARANTH.—"Bachelor's Buttons. Mixed colors. Pkt. 5c.
GLOXINIA.—Greenhouse plants. Brilliant flowers. Mixed. Pkt. 25c.
GYPSOPHILA or **Angels Breath**.—Tiny little flowers born in abundance, on long graceful, branching stems. Pkt. 5c.

LINUM.—(Flowering Flax).—Showy annual. Scarlet flowers. Pkt. 5c.

LUPINUS.—Bright colored flowers. Fine bedding plant. Pkt. 5c.

LOBELIA.—Handsome trailing plants, profuse bloomers; elegant for baskets, vases and borders. All sorts mixed Pkt. 6c.

LATHYRUS.—A beautiful, showy, free flowering perennial known commonly as the Everlasting or Hardy Sweet Peas. Pkt. 5c.

MARTYRIA.—(Devil's Claws).—Gloxinia-like flowers. Pkt. 5c.

MARIGOLD-AFRICAN.—These old favorites have been greatly improved recently in size and doubleness of its flowers. Double mixed, Pkt. 3c.

Dwarf French.—Double mixed, colors. Pkt. 3c.

Legion of Honor.—Of dwarf, compact pyramidal growth, with dark green fern-like leaves. The blooms are of medium size, rich golden yellow with the center of each petal broadly marked with velvety crimson brown. Per pkt. 5c.

Eldorado.—Immense flowers, 9 to 14 inches around; double; primrose, lemon, orange and golden shades. 3 feet high. Pkt. 5c.

MOON FLOWER-White.—One of the grandest of summer climbers, growing 25 to 40 feet high, and covered nightly and on dull days with beautiful white, moon-like flowers from five to six inches in diameter. Rich, jessamine-like odor. Pkt. of 10 seeds, 5c.

Blue Flowering.—A beautiful and striking contrast to the true White Moon Flower described above. The color is exquisite, clear, satiny blue with crimson bars. Pkt. 10c.

MIMULUS-Tigrinus.—(Monkey Flower).—Very showy and free flowering. The hardy kinds are well suited for out-door culture. Mixed varieties, Pkt. 10c.

Moschatus.—The well-known musk plant, quite pretty, and has a strong musk fragrance—the odor is pleasant and refreshing. A nice plant also for pot culture Pkt. 8c.

MIRABILIS.—The marvel of Peru, or Four-o'clock, is one of the most brilliant and showy of annuals. Presents a gorgeous sight during the afternoon.

Tom Thumb Mixed.—Very handsome, compact dwarf, bushy plants, with golden variegated foliage; numerous brilliant yellow, red, and striped flowers, Pkt. 5c.

Mixed Colors and Varieties.—Contains a fine assortment of colors and is always satisfactory. Pkt. 3c.

OXALIS.—Free-flowering little plants useful for edgings; mixed. Pkt. 5c.

MIGNONETTE-Sweet Scented.—The delicious fragrance of the Mignonette makes it indispensable for bouquets and cutting. It is best to sow seed early in the garden, and they will commence blooming the first of June. Pkt. 3c, oz. 15c.

Allen's Defiance.—A remarkable and valuable variety with mammoth spikes 12 to 15 inches long, and more fragrant than any other variety. Florets are of immense size and the cut flower frequently keeps for three weeks. Per pkt. 10c.

Machet.—Distinct sort of great merit. It is of dwarf and vigorous growth, and throws up numerous stout flower stalks, terminated by massive spikes of deliciously scented red flowers. Pkt. 5c.

Golden Queen.—A very distinct new variety with bright golden flowers. Pkt. 3c.

Miles' White Spiral.—Is very showy in growth, and the grand spikes of bloom can be seen for a long distance; attracts the attention of everyone. Pkt. 4c.

SCARLET RUNNER BEAN.—Dark scarlet flowers and pods. Pkt. 5c.

VENUS' LOOKING GLASS.—Handsome for masses. Double. Pkt. 5c.

NICOTIANA-Affinis.—This plant is literally covered with large white, star shaped flowers, which, after being cut, will remain perfect for a week. A few plants will perfume the whole yard or garden. Pkt. 5c.

Sylvestris.—An improvement on the above, and one of the most ornamental and fragrant plants grown. Pkt. 10c.

PASSION FLOWER.—One of the most desirable of all climbing plants. Sow seed early, and if well cared for and seasons are favorable, vines will send out magnificent blossoms the first year. Its color is odd, comprising a combination of blue, pink and white, which is beautiful, very large and showy, of a feathery and velvet like appearance. Pkt. 7c.

VIOLA ODORATA.—Well known Sweet violet; mixed colors. Pkt. 10c.

WALLFLOWER.—Fragrant flowers, single and double mixed. Pkt. 5c.

WHITLAVIA.—Drooping bell-shaped flowers. Mixed colors. Pkt. 5c.

XERANTHEMUM.—Easily grown, blooms freely; mixed. Pkt. 5c.

PLATYCODON.—(Wahlenbergia).—Blue and white flowered. Pkt. 7c.

RHODANTHE.—Fine everlastings; rosy crimson, yellow center. Pkt. 5c.

SWEET SULTAN.—Large fragrant flowers; mixed colors. Pkt. 5c.

SMILAX.—One of the prettiest house climbers for winter. Pkt. 8c.

HELICHRYSUM.—Large, double flowers ranging from white to bright yellow, rich red and scarlet. Best of "everlastings" and fine for winter bouquets. Pkt. 5c.

FORGET-ME-NOT.—Palustris. True blue forget-me-not. Pkt. 7c.

Victoria.—Globular plant, best for pot culture. Pkt. 7c.

FOXGLOVE.—Showy plant for borders. Mixed colors. Pkt. 3c.

GOLDEN ROD.—State flower of New York. Pkt. 5c.

CASSIA.—Native Iowa flower often called Partridge Pea. Pkt. 7c.

VINCA.—Elegant shining foliage, pretty flowers. Pkt. 5c.

CONVOLVULUS, Minor.—These beautiful dwarf Morning Glories make a fine bedding plant. Mixed colors. Pkt. 3c.

CLARKIA.—Pretty and desirable, hardy annual. Mixed colors. Pkt. 3c.

PANSIES.

These little beauties need no extended description, as it would be hard to find even a child whose heart has not been gladdened by their bright faces. Pansies are a speciality with us, and we use the greatest care in growing, selecting and importing the best strains of universal favorites. Pansies like moist, rather shady location and rich soil. Should be freely in dry weather. Seed started in February or March will produce early plants. Circular giving full direction for growing pansies will be sent free if requesters contain 100 to 250 seeds.

MADES.—When traveling in England we found this charming novelty growing on a leading specialist who had been selecting and hybridizing the finest large sorts which all have the richest, most velvety wine shade in some part of the flower are fully 75 distinct varieties in the collection. We purchased the stock and now send to our customers. Pkt. 25c.

PIECE.—A new variety with such crimped and ruffled petals that it has the appearance of a double pansy. Flowers of enormous size. Pkt. 20c.

NEW RAINBOW.—The best novelty in Pansies and the most charming variety ever sent out. We have given it the name New Rainbow, and consider it very appropriate owing to its beautiful iridescent colors. They will both astonish and delight "pansy fanciers." Packet of 100 seeds 25 cents.

FANCY STRIPED.—A beautiful variety from Belgium with good sized flowers which are striped and mottled in various tints on contrasting ground colors. Pkt. 10c.

FIRE KING.—This novelty comes almost absolutely true, scarcely a plant bearing a flower at variance from type, which is very distinct and striking. The three lower petals each have large blotch of deep brown-red or magenta margined with yellow, while upper petals are of bright red, of really fiery shade, warranting name of Fire King. Pkt. 10c.

PEACOCK.—This fine new variety has been named the Peacock because the upper petals of the flower most nearly resemble in color, the peculiar shade seen only in feather of the peacock, a beautiful ultra-marine blue. Petals are edged with a thin white line, within which it is purplish crimson, passing into a rich central blotch of deep blue, shading to black. Pkt. 10c.

QUADRICOLOR or PHEASANT'S EYE.—One of the prettiest. Upper petals sky-blue edged with violet; lower petals spotted and marbled. Pkt. 5c.

MAHOGANY.—A beautiful, rich mottled mahogany color. Pkt. 5c.

SNOW QUEEN.—Flowers of a delicate, pure, satiny white, handsome and attractive. Makes fine showing in beds or for cut flower work, and beautiful for cemetery use. Pkt. 5c.

KING OF THE BLACKS or FAUST.—Flowers intensely dark almost coal-black. Pkt. 5c.

GOLDEN YELLOW.—Best of the yellow varieties. Desirable as a contrast. Pkt. 5c.

AZURE BLUE.—Very fine shade of sky blue; pkt. 5c.

ENGLISH FACE.—A popular variety in England. Most of the flowers are distinctly marked with a "face." Pkt. 10c.

CASSIER' GIANT ODIER.—The flowers, of immense size, are of the popular Odier type, being all three-spotted or five-spotted on back-grounds of very rich colors. The flowers of the Cassier's are of good substance and fine form, while the plants are of neat, compact growth. Pkt. 15c.

IMPERIAL GERMAN MIXED.—Magnificent large velvety flowers of richest hues and colors. This has for many years been one of our most popular sorts and we have taken pains to keep up its high standard of excellence. Pkt. 10c, oz. \$3.50.

LORD BEACONSFIELD.—Fine, large flowers of deep purple violet, shading off in the petals to a white hue. Pkt. 5c.

MAMMOTH BUTTERFLY.—A strain of pansy which for variety and beauty has never been excelled. Of matchless forms, colors and markings, with flowers half as large again as ordinary pansies. They will both astonish and delight "pansy fanciers." There is a great variety of colors and peculiar markings, reminding one of varied hues of the butterfly. Pkt. 10c.

VIOLET SCENTED.—This new type is a cross between the pansy and violet, combining the ideal properties of each. Flowers are much larger than the violet, more like pansies, but with delicious fragrance of former. Range of color runs through canary, buff, white and azure-blue and coloring of each is exceedingly delicate and charming. Pkt. 15c.

LARGE FLOWERING MIXED.—A choice mixture of large sorts. Pkt. 7c, oz. \$2.75.

FINE MIXED.—This contains many good sorts. Pkt. 5c, oz. \$1.00.

COLLECTION.—One packet each of above 23 sorts for \$1.75.



SPECIMEN INTERNATIONAL PANSY.

INTERNATIONAL MIXED.—In almost every country in the world there are pansy specialists, notably those of Scotland, Belgium, France, Germany and Switzerland. Each have their idea of perfection. This mixture consists of a grand assortment from the world's leading growers. Here will be found the beautiful German pansies, with their rich, soft, velvety colors; the lovely striped and mottled pansies from Belgium, which contrast so strongly with all others; the face pansies of England, in which one can almost see the human face because of their peculiar spottings; the self colors of Switzerland are very attractive because of their pure coloring; the fancy show pansies of Scotland, of bright, contrasting colors and rare spotting, flaking, feathering and edging; the mammoth pansies of France, which have been grown to the enormous size of four inches in diameter, and are decidedly showy; and also the many choice American strains, which are mainly made up by selecting and crossing the foreign sorts. If you like pansies you must have the International mixture. Pkt. 20c, ¼ oz. \$3.00, oz. \$10.00.

GIANT TRIMARDEAU.—An altogether distinct and beautiful class of pansy, the flowers of which are of very large size, some have measured four inches in diameter. Each flower is marked with three large blotches or spots and stands well above the foliage. Choice mixed colors. Pkt. 10c.

GIANT BUGNOT.—This is one of the finest strains of pansies in existence. The flowers are of enormous size, perfectly round, of great substance and of the most varied and attractive markings and colors; each petal bears a blotch that runs out in delicate veins to the edge of the petal. Pkt. 20c.

PANSY PLANTS.—We have a splendid stock of large strong, one-year old pansy plants at 50 cts. per dozen, also spring grown at 25 cts. per dozen.



MAMMOTH BUTTERFLY.



INTERNATIONAL MIXED.



ELECTRIC COLLECTION

- | | |
|---------------------------------|---------|
| 1 WINE SHADES PANSY | 25¢ Pkt |
| 2 ELECTRIC LIGHT PLANT | 15¢ " |
| 3 LITTLE PET PETUNIA | 10¢ " |
| 4 PENTSTEMON GLOXINOIDES | 15¢ " |
| 5 NEW MAMMOTH HELIOTROPE | 10¢ " |
| 5 PKTS. WORTH 75¢, FOR ONLY 40¢ | |



SUCCESS FLORAL COLLECTION.

- | | |
|--------------------------|----------|
| 1 CAMELIA VINE | 25¢ Each |
| 2 FANCY LEAVED CALADIUM | 15¢ " |
| 3 NIGHT BLOOMING JASMINE | 20¢ " |
| 4 ASPARAGUS SPRENGERI | 15¢ " |
| 5 PHRYNIUM | 15¢ " |

THE 5 PLANTS FOR 40 CENTS

ELECTRIC COLLECTION.

Selection of flower seeds illustrated in colors on the other side of this sheet we prefer popularly for, and are sure that it will greatly please all who try it.

NEW MAMMOTH HELIOTROPE.

A wonderful new Heliotrope ranges through all shades of violet and blue to frequently producing flower-heads almost white, which are more than twice the size of the varieties. Many of the heads measuring (when fully expanded) 10 to 12 inches in diameter. The fragrance is simply lovely. Easily grown from seed, which should be sown in the house. Per packet of 100 seeds, 10 cents.

WINE SHADE PANSY.

For certain parts of England pansy specialists have for generations past endeavored to improve certain characteristics of the pansy, and when driving through Essex, last summer we saw one bed of about a quarter of an acre of pansies peculiarly different from other fields. On making inquiry we found that the grower had been at selecting the most choice, showy pansies containing wine shades in the flowers. In a large plot we found hundreds of varieties of pansies with almost all imaginable markings, shadings and stripings including some which were beautifully margined with distinct colors, but we could not find a flower in the entire patch but what showed the rich velvety wine shades which is a characteristic of this plant. This novelty is specially distinct from other pansies by the plant being full and spreading with very broad, extremely dark green leaves, and it holds the flowers well above the foliage on straight, stiff stems and there are hundreds of them of extraordinary size, sometimes as large as 3 to 3½ inches in diameter. The face of flower is sometimes regular in color, while in other sorts it is lined and striped, ranging through all shades of red from pink to a fine deep purple, a great many of the flowers being edged with white but all showing the rich wine color. These characteristics all unite to make a novelty of first rank and one which is sure to be sought after by lovers of pansies. It produces very little seed and consequently will always be expensive. Price per pkt. 25c.



LITTLE PET PETUNIA.

LITTLE PET PETUNIA.

One of the prettiest little flowers we saw in looking over the thousands of acres of flowers in Germany, France and other countries of Europe were these small flowered, compact growing, free blooming petunias. They are round, bushy little plants about 8 inches high covered for months with beautiful flowers which are widely open and always look so 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 and we are sure every flower lover will be delighted with them. Try them for solid beds, edgings or growing in pots. Pkt. 10c.

ELECTRIC LIGHT PLANT.

During the summer of 1900 there was a large bed of flowers near the entrance in Greenwood Park of this city which attracted universal attention. It bloomed constantly throughout the season and thousands of persons stopped to admire the peculiar beauty of the flowers. The seed from which they were grown was sent to the park under the fanciful name of "Electric Light Plant" and that was the name they went by all summer, although they are evidently some improved variety of *Cleome*. We were of course interested and secured the seed which these plants produced and last summer grew a fine crop of it on our farm. It is a sturdy, bushy plant growing to a height of about 4 feet and covered constantly from early summer until October with hundreds of large spikes of flowers 6 to 9 inches long which are pure white at base and ranging through the shades of rose to bright red at apex. Grows readily from seed which should be planted in open ground early in spring and it is so robust that it does well with any soil or treatment, blooming freely last summer when other vegetation was parched and almost dead. Grows luxuriantly and makes one of the most showy, ornamental plants imaginable. Don't fail to try it if you want your flower garden to attract attention; fine for clumps and massing. Pkt. 15c.

PENSTEMON GLOXINOIDES.

We have always thought very highly of the *Penstemon* but when we saw this grand variety growing near Hartz Mts. in Germany we were surprised and delighted with it. It was truly grand and we purchased the stock at once. It is one of the most useful hardy perennials we know of and if sown fairly early will bloom the first year. Of graceful growth, having numerous large spikes of showy *Gloxinia*-like flowers 2 inches across, of many brilliant colors, blooms from June till October. Give rich soil and good culture. Pkt. 15c.

Collection: One pkt. each of the above 5 varieties for 40 cents. Three collections for \$1.00.

Success Floral Collection.

The five varieties which comprise this collection are grand sorts which it will pay everyone to grow.

CAMELIA VINE.

Our illustration gives but a faint idea of the great beauty of this elegant climbing plant from China, and our artist in his colored plate could not do it justice. The *Camellia*, which for many years was even more popular than the rose for the most elegant cut flower work in large cities, is a plant so difficult to grow and flower satisfactorily that the florists have most of them discontinued their culture, although when obtainable they are still, and always will be, considered the ideal flower for noble shape and rich coloring. In the *Camellia Vine* (*Calystegia Pubescens*) we have a flower of true *camellia* shape and size, nearly three inches in diameter, perfectly double and of most beautiful delicate rose color. Of easiest culture, growing well in any soil or location, but it appreciates and amply repays good treatment. Vine is of rapid growth, quickly covering trellis or porch and growing to a height of 15 to 20 feet. For best results vines should be set 12 to 18 inches apart around porch. Perfectly hardy, roots living over winter in ground and have withstood a temperature of 30 degrees below zero without protection. Leaves are lance shaped, of dark green color, and lap over each other like shingles so as to soon form a dense screen. Very few people can succeed in growing the old fashioned *Camellias* without a hothouse, but no one can fail with the *Camellia Vine*. Sure to grow, sure to bloom continuously from May to October and sure to please everyone. We could not supply half the demand last year. 25c ea., doz. \$2.00.

FANCY LEAVED CALADIUM.

See description on page 55. Each 15c, doz. \$1.50.

NIGHT BLOOMING JASMINE.

Everyone who likes beautiful, fragrant flowers should have this beauty. Plant is loaded with white blossoms which after nightfall exhale a delightful fragrance. See description on page 54. Each 20c, doz. \$2.00.

ASPARAGUS SPRENGERI.

For an elegant ornament for the parlor or conservatory there is no plant superior to this. Foliage is graceful and finely cut as a fern and makes as fine a showing. Easiest culture. 15c each, large plants 25c to \$1.00 each.

PHRYNIUM VARIEGATUM.

One of most satisfactory variegated leaved foliage plants we know of. Somewhat like a canna in habit of growth; leaves of oblong lanceolate form, in color, clear pale green, beautifully variegated with white and pale gold. Markings much varied. It thrives in sun or shade, in pots or open ground. Tuber starts quickly and grows well, and the plants prove to be very ornamental. Each 15c, doz. \$1.25.

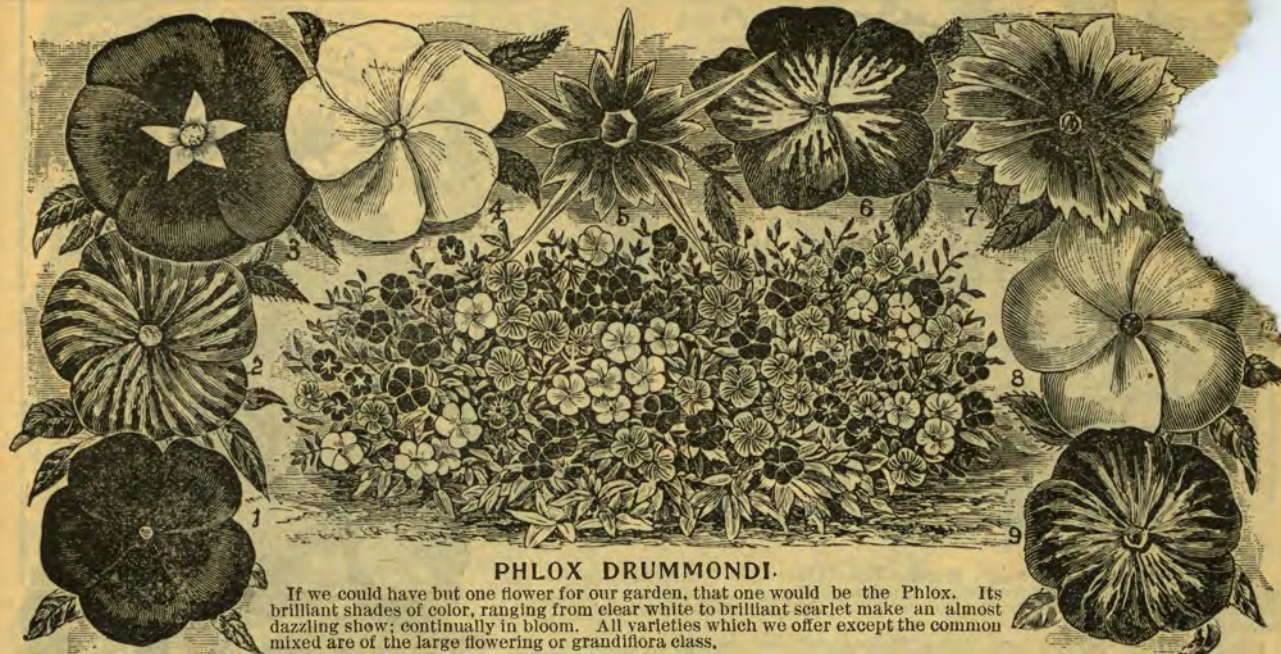
Collection: One strong plant each of the above five varieties for only 40c; 3 collections for \$1.00 if sent together.



NEW MAMMOTH FLOWERING HELIOTROPE



CAMELIA VINE.



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 or grandiflora class.

FIREBALL.—(Cut No. 1.) Brilliant, dazzling scarlet; very handsome dwarf, compact growing. Pkt. 5c.

STRIATA.—(No. 2.) Bright, rich scarlet, sharply striped with white. Pkt. 5c.

STELLATA CARMINEA.—(No. 3.) Very handsome carmine flowers, with pure white star-like eye. Pkt. 5c.

GRANDIFLORA ALBA.—(No. 4.) Pure white, very large. Pkt. 5c.

CUSPIDATA OR STAR.—(No. 5.) The growth is more dwarf and compact than the common. The pointed center teeth of the petals (five in number) are long and project like little spines, one-quarter to one-third inch long. Thus the flowers appear to have a splendid, regular star-like form, whose beauty is improved by the broad, white margins which border the edge of the petals. Pkt. 10c.

SUNRISE.—(No. 6.) Beautiful rosy crimson, shaded carmine, with light center. Pkt. 5c.

FRINGED MIXED.—(No. 7.) Very handsome. The flowers are of the most velvety colors and handsomely fringed. Pkt. 7c.

JUBILEE, YELLOW.—(No. 8.) A decided novelty, being an entirely new color in Phlox, a bright yellow; of strong, bushy, erect habit, each plant presenting a mass of dazzling flowers, each of which is nearly the size of a twenty-dollar gold coin and of perfect form. Pkt. 10c.

RADOWITZII.—(No. 9.)—Handsome flowers of rose, crimson, violet, etc., striped with white. Pkt. 5c.

DOUBLE PEARL.—A grand variety introduced by us in 1888. By constant selection each year we have improved it so that almost every plant produces handsome, double, pure white flowers. It is very pretty, and will prove a splendid acquisition for bouquet work. Pkt. 10c.

GRANDIFLORA MIXED.—This special large flowering strain has been selected with great care for many years until we now have an ideal flower of immense size and for beauty of colors they are unsurpassed. They produce a great profusion of large trusses of flowers, and if cut freely will continue a mass of bloom until severe freezing weather. The colors range from the purest white to nearly black, including all shades of pink, red, violet, crimson, purple, yellow, blue, scarlet and brown, striped and blended in an indescribable manner, some of the flowers are very nearly as large as a half dollar. Pkt. 8c.

MIXED VARIETIES.—A mixture of the common varieties. Pkt. 5c.

Phlox Collection. One packet each of the above varieties, making a grand assortment for only 50c.

PERENNIAL PHLOX MIXED.—Splendid hardy plants which bloom continuously after the second year. Pkt. 5c.



IOWA SEED CO.'S SINGLE AND DOUBLE PETUNIA.

PYRETHENUM.

GOLDEN FEATHER.—Beautiful golden leaved foliage plants of special value for borders and ribbon beds. Pkt. 5c.

ROSEUM.—It is from this the *Persian Insect Powder* is made. Flowers large, yellow and rose colored; handsome. Pkt. 8c.

HYBRIDUM.—A perennial of great beauty which is as yet so rare as to be almost a novelty. The foliage is feathery and of a rich green, while the flowers are shaped like those of Cosmos, and are as brilliantly colored, white, rose, scarlet, crimson, etc., borne on long, handsome stems. Anyone can grow these plants from seeds, and when once established they will care for themselves and bloom year after year. It grows two feet high and its gaudy flowers are held well above the foliage in great abundance. Likes a sunny bed and a deep, rich, moist soil. Started early the plants will bloom the first season. Beautiful as vase or corsage flowers. Pkt. 10c.

PETUNIA

Surely there is no garden 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; easily cultivated, requiring rich soil and a sunny situation. Of late years 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. The double varieties require more care and should be started in the house.

FINE MIXED.—Best of older sorts carefully mixed. Contains some extra fine striped and blotched varieties. Pkt. 3c.

DOUBLE INIMITABLE.—A splendid mixture. Our seed is the best German grown, and will produce a large percentage of fine double-flowering plants. Pkt. 25c.

LITTLE PET.—A novelty of superior merit. It is a very dwarf, compact growing plant, densely covered with small, bright colored flowers, many of which have a large white star in the center. Pkt. 10c.

GRANDIFLORA MIXED.—Very large, elegant flowers; a great improvement and fully twice the size of the old sorts, with the most beautiful shades of crimson, white, rose, maroon, etc., blotched, striped, veined, bordered, marked and fringed. Pkt. of 200 seeds 10c.

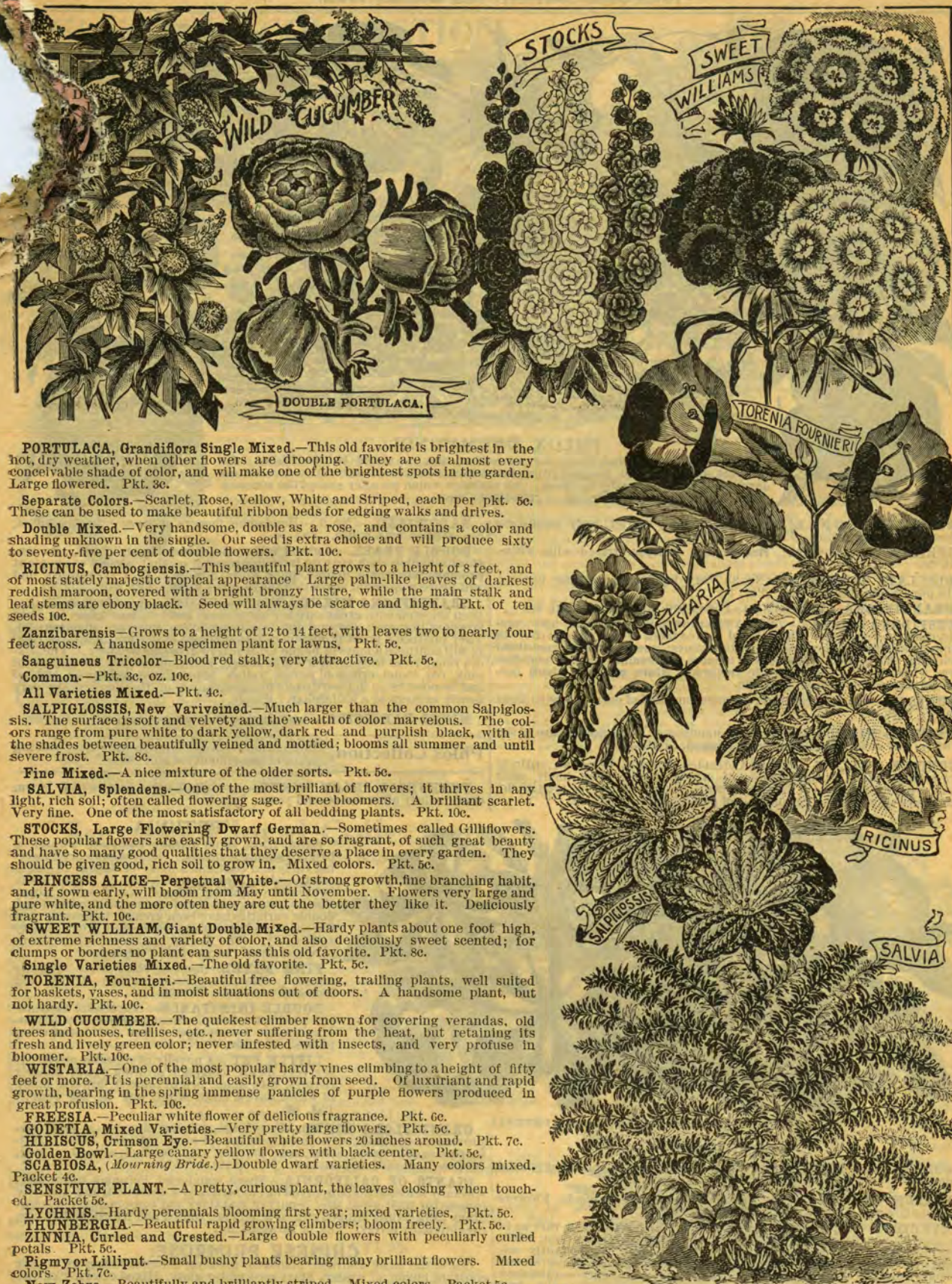
GIANTS OF CALIFORNIA.—These wonderful Petunias have been specially selected and improved in California by a specialist, and are now famous for their great size, beauty of markings and combinations of color. Many have dainty fringed edges, others are ruffled and frilled, and all are exceptionally lovely. Pkt. of 100 seeds 15c.

CHINESE PRIMROSE.

One of the most desirable plants for growing indoors, being in almost constant bloom all winter. Start seed under glass. Mixed colors. Pkt. 15c.

PERILLA.

Has a broad, serrated leaf, of purplish mulberry color. Plant is 18 inches or more in height. Very desirable for the center of a bed of ornamental leaved plants, and also for a low screen or hedge. Pkt. 5c.



PORTULACA, Grandiflora Single Mixed.—This old favorite is brightest in the hot, dry weather, when other flowers are drooping. They are of almost every conceivable shade of color, and will make one of the brightest spots in the garden. Large flowered. Pkt. 3c.

Separate Colors.—Scarlet, Rose, Yellow, White and Striped, each per pkt. 5c. These can be used to make beautiful ribbon beds for edging walks and drives.

Double Mixed.—Very handsome, double as a rose, and contains a color and shading unknown in the single. Our seed is extra choice and will produce sixty to seventy-five per cent of double flowers. Pkt. 10c.

RICINUS, Cambogiensis.—This beautiful plant grows to a height of 8 feet, and of most stately majestic tropical appearance. Large palm-like leaves of darkest reddish maroon, covered with a bright bronzy lustre, while the main stalk and leaf stems are ebony black. Seed will always be scarce and high. Pkt. of ten seeds 10c.

Zanzibarensis.—Grows to a height of 12 to 14 feet, with leaves two to nearly four feet across. A handsome specimen plant for lawns. Pkt. 5c.

Sanguineus Tricolor.—Blood red stalk; very attractive. Pkt. 5c.

Common.—Pkt. 3c, oz. 10c.

All Varieties Mixed.—Pkt. 4c.

SALPIGLOSSIS, New Variveined.—Much larger than the common Salpiglossis. The surface is soft and velvety and the wealth of color marvelous. The colors range from pure white to dark yellow, dark red and purplish black, with all the shades between beautifully veined and mottled; blooms all summer and until severe frost. Pkt. 8c.

Fine Mixed.—A nice mixture of the older sorts. Pkt. 5c.

SALVIA, Splendens.—One of the most brilliant of flowers; it thrives in any light, rich soil; often called flowering sage. Free bloomers. A brilliant scarlet. Very fine. One of the most satisfactory of all bedding plants. Pkt. 10c.

STOCKS, Large Flowering Dwarf German.—Sometimes called Gilliflowers. These popular flowers are easily grown, and are so fragrant, of such great beauty and have so many good qualities that they deserve a place in every garden. They should be given good, rich soil to grow in. Mixed colors. Pkt. 5c.

PRINCESS ALICE—Perpetual White.—Of strong growth, fine branching habit, and, if sown early, will bloom from May until November. Flowers very large and pure white, and the more often they are cut the better they like it. Deliciously fragrant. Pkt. 10c.

SWEET WILLIAM, Giant Double Mixed.—Hardy plants about one foot high, of extreme richness and variety of color, and also deliciously sweet scented; for clumps or borders no plant can surpass this old favorite. Pkt. 8c.

Single Varieties Mixed.—The old favorite. Pkt. 5c.

TORENIA, Fournieri.—Beautiful free flowering, trailing plants, well suited for baskets, vases, and in moist situations out of doors. A handsome plant, but not hardy. Pkt. 10c.

WILD CUCUMBER.—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, and very profuse in bloomer. Pkt. 10c.

WISTARIA.—One of the most popular hardy vines climbing to a height of fifty feet or more. It is perennial and easily grown from seed. Of luxurious and rapid growth, bearing in the spring immense panicles of purple flowers produced in great profusion. Pkt. 10c.

FREESIA.—Peculiar white flower of delicious fragrance. Pkt. 6c.

GOETIA, Mixed Varieties.—Very pretty large flowers. Pkt. 5c.

HIBISCUS, Crimson Eye.—Beautiful white flowers 20 inches around. Pkt. 7c.

Golden Bowl.—Large canary yellow flowers with black center. Pkt. 5c.

SCABIOSA, (Mourning Bride.)—Double dwarf varieties. Many colors mixed. Packet 4c.

SENSITIVE PLANT.—A pretty, curious plant, the leaves closing when touched. Packet 5c.

LYCHNIS.—Hardy perennials blooming first year; mixed varieties. Pkt. 5c.

THUNBERGIA.—Beautiful rapid growing climbers; bloom freely. Pkt. 5c.

ZINNIA, Curled and Crested.—Large double flowers with peculiarly curled petals. Pkt. 5c.

Pigmy or Lilliput.—Small bushy plants bearing many brilliant flowers. Mixed colors. Pkt. 7c.

New Zebra.—Beautifully and brilliantly striped. Mixed colors. Packet 5c.

Finest Double Mixed.—All colors. Pkt. 3c.

CACALIA, Coccinea.—Pretty little scarlet tassel flowers. Pkt. 5c.

IMPERIAL MIXED.

Imperial Mixed Sweet Peas

Sixty of the best varieties carefully selected so as to get the proper proportion of each color in the assortment. This makes the choicest mixture ever offered. Our illustration shows a bunch of the various colors and we are sure our customers will be greatly pleased with them. Per pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.



SWEET PEAS.

May well be called America's favorite, as it is such a popular and easily grown flower that rich and poor alike can enjoy its fragrance and beauty. Out of nearly 200 varieties which we carefully examined on the trial grounds we selected the following as being the VERY BEST, and they include all desirable colors, shades and markings. Our seed was grown for us by the most prominent Sweet Pea specialists in America and cannot fail to please the most fastidious. Ask for circular giving instructions for growing.

AURORA—Extra large flowers flaked and striped bright salmon on a white ground. Pkt. 5c, oz. 10c, ¼ lb. 20c.

BLACK KNIGHT—A superb novelty, flowers large of rich glossy blackish maroon. Pkt. 5c, oz. 15c, ¼ lb. 40c.

BLANCHE BURPEE—The finest pure white; blooms freely. Per pkt. 5c, oz. 10c, ¼ lb. 20c.

BOREATION—Very fine dark variety, with immense, bold attractive flowers, borne in great profusion. Color red, mahogany and maroon. Very beautiful. Per pkt. 5c, oz. 10c, ¼ lb. 25c.

HON. F. BOUVERIE—A grand new variety with pinkish salmon at base of standard and wings shading to light salmon and buff at edges. Pkt. 5c, oz. 15c, ¼ lb. 50c.

CAPTAIN OF THE BLUES—Large shell-shaped purplish flowers, wings deep blue. Pkt. 5c, oz. 10c, ¼ lb. 20c.

COUNTESS OF RADNOR—One of the handsomest, Standard rich lavender mauve, wings lighter. Per pkt. 5c, oz. 10c, ¼ lb. 25c.

CUPID—A unique novelty of dwarf, shrubby growth, and therefore desirable for bedding. Flowers very pretty and freely produced. Mixed colors. Per pkt. 5c, oz. 10c, ¼ lb. 25c.

EMILY HENDERSON—The earliest blooming standard pure white variety. It begins to flower nearly as soon as the Extra Early Blanche Ferry. Flowers of snowy whiteness, with reflexed standards. Per pkt. 5c, oz. 10c, ¼ lb. 20c.

EMILY ECKFORD—A superb large flower of rosy heliotrope color. Pkt. 5c, oz. 10c, ¼ lb. 20c.

EX. EARLY BLANCHE FERRY—Earliest of all. An improvement on Painted Lady. Delicately handsome and a profuse bloomer. Pkt. 5c, oz. 10c, ¼ lb. 20c.

GRAY FRIAR—White clouded and dotted lilac. A decidedly odd and attractive variety which is quite popular. Pkt. 5c, oz. 10c, ¼ lb. 25c.

LOTTIE ECKFORD—White suffused with rosy lilac, while whole flower is edged blue. Beautiful. Pkt. 5c, oz. 10c, ¼ lb. 20c.

LOVELY—The most beautiful shades of soft shell-pink, shading to very faint rose at the outer edges. Grand flowers of large size, most aptly named. It is "lovely!" Per pkt. 5c, oz. 10c, ¼ lb. 20c.

LADY MARY CURRIE—Flowers of large size. Standards large, heavily veined with salmon-pink, lower portion shaded with carmine wings recurved and

of a soft rose pink. Pkt. 5c, oz. 10c, ¼ lb. 30c.

LOTTIE HUTCHINS—A novelty of straw color, striped and clouded light pink. Pkt. 5c, oz. 15c, ¼ lb. 45c.

MRS. DUGDALE—One of Eckford's latest novelties, standard rose, wings, primose, shaded and splashed rose, Grand large flower. Pkt. 5c, oz. 10c, ¼ lb. 35c.

NAVY BLUE—A grand novelty and the darkest and truest blue of any variety in existence. A free bloomer. Pkt. 5c, oz. 15c, ¼ lb. 40c.

PRINCE OF WALES—A bright, self-colored, deep-rose flower of grand size and beautifully hooded form; frequently four on a stem. Pkt. 5c, oz. 10c, ¼ lb. 30c.

PAMONA—A most beautiful creamy-white flower, striped and flaked blush pink. Pkt. 5c, oz. 10c, ¼ lb. 20c.

ROYAL ROSE—An immense sized, beautiful clear rose colored flower. Pkt. 5c, oz. 10c, ¼ lb. 20c.

SALOPIAN—By far the best of the red varieties, of immense size, full open flower of most brilliant color. Has long stems and is in every way an ideal which cannot be surpassed. Pkt. 5c, oz. 10c, ¼ lb. 20c.

SADIE BURPEE—A novelty of superior merit. Of perfect form and substance large size and purest white. Don't fail to try it. Pkt. 5c, oz. 15c, ¼ lb. 50c.

SPLENDOR—Flowers of large size and fine form; a soft shade of bright rose-pink, with deeper coloring in center of standard and inner portion of the wings. Per pkt. 5c, oz. 10c, ¼ lb. 20c.

DOUBLE MIXED—Saved from the best double flowered plants, and will produce a large proportion of flowers with double or triple standards. Better try them. Per pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 85c.

PERFECTED MIXED—Of graceful form, charming color, exquisite fragrance, and simple loveliness. This mixture contains many choice new varieties and some of the old favorites. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

FINE MIXED—A nice mixture for a very low price. Why not plant a pound of the seed and revel in Sweet Peas this year. Per pkt. 2c, oz. 5c, ¼ lb. 15c, lb. 35c, postpaid.

COLLECTION—One packet each of above 28 varieties for 80 cts.

PERENNIAL—(Lathyrus.)—A very popular perennial variety wherever known and it should be more generally used. Mixed colors. Blooms second year. Pkt. 5c.

VERBENA.

Verbena is deservedly a universal favorite, unrivaled in the splendor of its brilliancy of flower. A constant bloomer and if grown from seed its fragrance. Treat as tender annuals. Plant seed in boxes or in March, and transplant when a few inches high. In this way the verbenas grow from seed as early as any annual, and will produce much more cuttings. Seed sown in open ground will flower in August.

VERBENA MAMMOTH.—Most beautiful colors, largest flowers and most vigorous. It is a variety which will please everyone. Every flower truss measures over nine inches in circumference. The flowerets are as large as a twenty-five cent piece; more vigorous than the ordinary verbena. Contains a great assortment of colors showing a flower of dark scarlet with white eye. No one can fail to be pleased with these grand flowers. Pkt. 15c.

VERBENA SIMA.—Large trusses of pure white flowers; beautiful. Pkt. 6c.

VERBENA ROSE.—A true scarlet; extra fine. Pkt. 10c.

VERBENA LOW.—Splendid novelty, which it will pay flower lovers to try; pkt. 10c.

VERBENA EXTRA CHOICE MIXED.—From the finest German collection of named varieties. Pkt. 7c.

VERBENA FINE MIXED.—Contains a nice variety of colors. Pkt. 4c.

SUNFLOWER.

Some varieties of this well known plant are very ornamental, and are effective in proper situations in shrubbery borders or as screens.

GLOBE OF GOLD.—Dwarf well branched plant growing about 3 feet high and 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. They are easily grown from seed and produce handsome, symmetrical plants very effective on lawns or in the garden. Pkt. 7c.

EXCELSIOR BRANCHING.—This new plant caused great attention in Europe last year, being known there as *H. Cucumerifolius Grandiflorus*. It has a single flower about 5 in. across producing a pyramid of bloom. Pkt. 10c.

SILVER LEAVED.—But few who see this splendid new plant would imagine that it was a sunflower. It grows 3 or 4 feet high, forming a perfect pyramid. The leaves are long and densely covered with long white hairs which give it a peculiar shining, silvery appearance. The flowers are a clear golden yellow, 3 to 4 in. across, with a dark brown center. In the morning while covered with dewdrops it is really magnificent. Pkt. 5c.

PEERLESS MIXED.—Is a splendid assortment of 15 of the best varieties grown together on our grounds. It includes some which are both curious and desirable. Pkt. 5c, oz. 15c.

MAMMOTH RUSSIAN.—Largest of all, quite showy and the most profitable to grow for feeding purposes. Pkt. 5c, lb. 25c.

BLACK GIANT. Pkt. 5c.

WHITE BEAUTY.—Pkt. 5c.



GLOBE OF GOLD SUNFLOWER.

LOW GROWING ANNUALS.—This mixture contains seeds 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. 10c.

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.

INTERNATIONAL NOVELTIES MIXED.—Each year we make a grand test of floral novelties, obtaining seed therefrom 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, but by far the larger number are valuable acquisitions, we would like our customers to try them. 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. Everyone will be pleased with this mixture as it adds greatly to the beautiful appearance of the lawn. Price per ounce package only 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 in to 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.

All of the above mixtures are carefully prepared from choice fresh seeds, and cannot fail to give satisfaction. The packets are liberally filled, and in no other manner can so many seeds be obtained at such light cost.

Am much pleased with the flower seeds and plants purchased from you.—Robert Eccles, New Haven, Penn.



CENTURY MAMMOTH VERBENA.

Special Mixture of Flower Seeds.

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 of them are also suitable for cutting. Pkt. 10c.

MIXTURE OF CLIMBERS.—This is a liberally filled packet of seed of many beautiful annual climbers suitable for growing together. Pkt. 10c.

WILD GARDEN MIXTURE.—Over 400 kinds of such flower seeds as 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 in growing flowers from this mixture. Select a light, rich soil, as free from weeds as possible; plant in this latitude about the 1st of May. Pkt. 5c, ½ oz. 20c, oz. 35c.

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.

MIXED EVERLASTINGS.—A grand assortment of all sorts of everlasting flowers, suitable for bouquets, etc. Per packet 10 cents.



FLOWER BULBS.

Many of the most showy, attractive, inexpensive and easiest grown of all summer and autumn flowers are contained in this important class. Our bulbs are large and strong, and will be sent well packed postpaid on receipt of price, except where noted.

DISCOUNTS.—Your selection of bulbs to the amount of \$1.20 at catalogue prices will be sent postpaid for \$1.00, \$2.50 for \$2.00.

AMARYLLIS FORMOSISSIMI.—(Jacobean Lily.) Dark velvet crimson. Bulbs may be potted any time in spring. Bloom year after year. Each 15c, 3 for 40c, doz. \$1.25.

AMARYLLIS JOHNSONII.—Of strong and vigorous growth bearing from three to six brilliant red flowers on each stem. The petals are striped with white, rendering flowers very attractive. Very fragrant. Each 50c.

AMARYLLIS ATAMASCO.—The flowers are upright with broad petals, either pink or white. Each 7c, doz. 60c.

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. Very showy leaves often growing 3 feet long. Of easy culture; roots can be stored in cellar in fall, and grow larger and more showy each year. Medium sized bulbs 10c, 3 for 25c; large bulbs 25c, 3 for 60c; mammoth 40c, 3 for \$1.00.

SPOTTED CALLA.—Leaves deep green, with numerous white spots, which give the plant a magnificent appearance. They grow freely in any soil. Can be planted out in the spring like a gladiolus, and blooms well during the summer. The flowers are pure white with a black center, and are very beautiful. Each 10c, 3 for 25c.

LITTLE GEM CALLA.—Beautiful little floral gem originated in the Guernsey Islands, and is in appearance a true miniature specimen of the old Calla, rarely growing over 10 to 12 inches high and commences to bloom when 6 to 9 inches. This is highly regarded in some places, but has not proved a good bloomer at our place. Each 15c, 3 for 40c.

BLACK CALLA.—The wonderful Black Lily of Palestine. Flowers sometimes a foot long. Each 30c.



CALADIUM.

MAMMOTH WHITE CALLA.

—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 superb white flowers. Monster bulbs, each 25c, 3 for 60c. Medium size, each 15c, 3 for 4c.

APIOS, Tuberosa.—A quick growing vine bearing lovely clusters of rich, deep purple flowers. Each 5c, doz. 40c.

DAHLIAS.

These showy flowers are again becoming popular favorites. Specialists have been quietly at work improving them for many years past and the result has been some most grand varieties. Don't fail to try a few. There is such an endless variety that we think best to list only a few of the best sorts. For best results start roots early in house.

NYMPHÆA.—(The Pink Water Lily Dahlia.)—Flowers are of perfect form and exquisite finish, being soft, delicate, waxy and graceful. The color is a clear, bright, shrimp pink, shading slightly darker toward the outer petals. The plant is strong, vigorous, and produces flowers in the



LILY OF THE VALLEY.

greatest profusion. Each 20c, 3 for 50c.

SNOWBALL.—Large, double, pure white. Handsome and best of all white sorts. Each 20c, or 3 for 50c.

FERN LEAF BEAUTY.—This grand novelty has fern-like foliage and flowers of creamy white with a distinct marking of bright crimson on each petal. Entirely different from any other variety. Each 25c, 3 for 60c.

GOLDEN BALL.—A most beautiful, large, pure deep yellow flower, shaded with old gold. Perfectly double. No assortment is complete without this excellent variety. Each 20c, 3 for 50c.

CRIMSON KING.—A large ball shaped flower of most handsome, rich dark crimson glowing color, very double. Each 20c, 3 for 50c.

DOUBLE MIXED VARIETIES.—Contains a good proportion of best scarlet, yellow and white varieties, besides many other shades which are popular. Each 15c, doz. \$1.25.

FANCY DOUBLE MIXED.—The handsome tipped, striped, spotted variegated sorts in a splendid mixture. Each 25c, doz. \$2.25.

SINGLE MIXED.—Valuable for table or corsage bouquets. Each 15c, doz. \$1.25.

DOUBLE CACTUS MIXED.—Flowers very beautiful, though peculiar in form, somewhat resembling Cactus bloom. Each 15c, doz. \$1.50.

DAHLIA PLANTS.—Well rooted plants any above varieties, \$1.00 per doz. \$6.00 per 100, postpaid.

DAHLIA BOOK.—Complete and beautifully illustrated; price 3c.

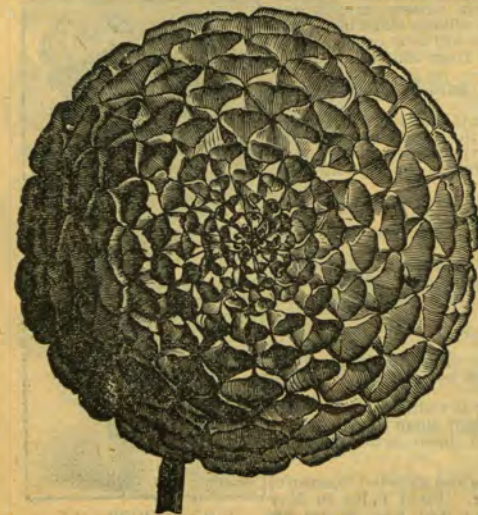


SPOTTED CALLA.

LILY OF THE VALLEY.

Well known and universally admired spring flowering plants; flowers bell-shaped, freely produced and powerfully fragrant. To grow in open ground, select a partly shaded rather moist situation, and they are 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. doz. 40c.

MADIERA VINE.—A rapid growing vine, covering a large space in a short time. Fleshy, heart-shaped leaves of a light green, and numerous racemes of feathery flowers of delicious fragrance. A beautiful vine. Each 5c, doz. 40c.



GOLDEN BALL DAHLIA.



FERN LEAF BEAUTY DAHLIA.



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. We grow the largest number and the largest variety to be found in this part of the country. It is the most desirable of all bulbs, and claimed by many who are well acquainted with their varied beauty to be the flower of flowers. Our bulbs will produce immense spikes of bloom and they are of easiest culture. The unfavorable season has caused a great shortage in crop of bulbs.

ROYAL QUEEN.—Immense spike of white flowers, striped and splashed with rich carmine. Each 35c; 3 for \$1.00.

AUGUSTA.—The best pure white variety. Blue antlers. Each 15c; doz. \$1.50.

MEYERBEER.—Rose scarlet with amaranth red blotch. Each 10c; doz. \$1.00.

NAPOLÉON III.—Beautiful bright scarlet made more brilliant by a white line on each petal. Each 10c; doz. 85c.

BRENCHLEYENSIS.—Deep vermillion scarlet. Each 4c; doz. 40c.

CERES.—Beautiful bluish white, marbled and striped with rosy carmine. Each 5c; doz. 50c.

ISAAC BUCHANAN.—Best of yellow varieties. Each 5c; doz. 50c.

EUGÈNE SOUCHET.—Has large spike of bright rose colored flowers, striped white. Each 5c; doz. 50c.

GROFF'S HYBRIDS MIXED.—A magnificent new strain of vigorous growth and large size. Each 10c; doz. \$1.00.

STRIPED AND VARIEGATED VARIETIES MIXED. Each 6c; dozen 50c.

RED VARIETIES MIXED.—Each 4c; doz. 30c.

WHITE, PINK AND LIGHT VARIETIES MIXED.—Each 5c, doz. 40c.

YELLOW VARIETIES MIXED.—Each 6c; doz. 50c.

CHOICEST MIXTURE.—Made up mainly from best named sorts. We have dropped all inferior varieties and are sure our customers will be pleased with this mixture. Large bulbs. Each 5c; doz. 50c; 100 for \$3.00. Second size each 3c; doz. 25c; 100 for \$1.40 postpaid.

WINTER BLOOMING BULBS.

Some of the most beautiful and fragrant of all the flowers grown belong to this class, and when potted in the house, they come in bloom just at the time when flowers are most wanted and most difficult to obtain. Our bulbs arrive from Holland about Sept. 15. The best way is to order during the spring or summer, then your order will be filled as soon as bulbs are received. We name only a few kinds here. You should send for full catalogue which contains a full descriptive list. Ready Sept. 1st.

Hyacinths.—Either double or single mixed. Each 8c, doz. 85c.

Tulips.—Double or single mixed. Each 5c, doz. 30c.

Narcissus, or Daffodils.—Mixed varieties. Each 5c, doz. 50c.

Crocus.—Mixed colors. Doz. 10c. *Scilla Siberica.*—Each 4c, doz. 35c.

Snowdrops.—Single—extra fine bulbs, 20c per doz. Double—extra fine bulbs, 30c. per doz.

OXALIS DEIPII ALBA.—Nothing so valuable for edging the borders of walks or flower beds as the beautiful summer oxalis. Bulbs when planted three inches apart, produce an unbroken row of elegant foliage and pure white flowers, and as they bloom very quickly after planting, furnish a neat and attractive border the whole season. Doz. 10c, 100 for 30c.

OXALIS DEIPII ROSA.—Somewhat larger flowers and foliage than above. Leaves greatly resemble four-leaved clover; flowers rose color. Doz. 10c, 100 for 50c.

OXALIS LASIANDRA.—Leaves more finely cut than Delpii and flowers rosy crimson. Doz. 15c, 100 75c.

HYACINTHUS CANDICANS.—Has a stem 3 or 4 feet high, which bears quantities of drooping, ivory-white, bell-shaped flowers of delicate fragrance. Strong bulbs, giving two or more spikes; the number of flowers varies from 20 to 60 each. The appearance is like giant snow drops. Very suitable for cemetery decoration. Each 5c, 3 for 12c, doz. 40c.

LILIES.

No class of plants capable of being cultivated out of doors possess so many charms; rich and varied in color; stately and handsome in habit, profuse in variety, and of delicious fragrance. They thrive best in dry, rich soil, where water will not stand in winter.

SIBERIAN CORAL LILY. (*Tennifolium*.)—The flowers are a brilliant crimson, and have a peculiar waxy or coral-like appearance, quite distinct from all other flowers. Each 15c; 3 for 40c.

CANDIDUM.—Everyone likes the old fashioned pure white garden or Easter lily; flowers pure white; hardy and free blooming. Each 15c; 3 for 40c.

AURATUM or JAPANESE GOLD-BANDED LILY.—This is justly entitled to the name often given it—the Queen of Lilies—and it is decidedly the most beautiful of all lilies. Immense flowers, deliciously fragrant; the large white petals are thickly spotted with chocolate crimson and have golden yellow band through the center. Succeeds everywhere. Each 20c; 3 for 50c.

SPECIOSUM ALBUM.—Large, pure white flowers of great substance and beautifully recurved. For garden or potting. Hardy. Each 15c; 3 for 40c.

SPECIOSUM ROSEUM.—White, stained and spotted rose. Very beautiful. Each 15c; 3 for 40c.

CANADENSE.—This pretty lily is one of our hardy native sorts, and bears a graceful stem of drooping, bell-shaped yellow and red flowers. Each 10c; doz. \$1.00.

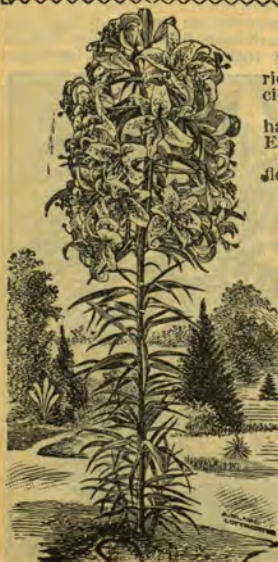
DOUBLE TIGER LILY.—A double form of the old fashioned Tiger Lily; quite popular where known. Each 12c; doz. \$1.20.

SINGLE TIGER LILY.—An old favorite. Flowers orange yellow; black spots. Each 10c; dozen \$1.00.

THUNBERGIA ELEGANS.—Strong grower, dense foliage; three feet high; flowers upright, cup-shape and borne in clusters of 5 to 12. Color a dark orange spotted brown. Perfectly hardy. Each 15c, dozen \$1.50.

CHINESE SACRED LILY.—Very handsome. The flower is white, with a yellow tinted cup. Usually grown in a bowl of water. We can furnish them till the last of March, when the supply is usually exhausted, and we do not have more until fall. Is really a variety of Narcissus. Each 15c, 3 for 40c.

TIGRIDA.—These are beautiful flowers, delicate as orchids and showing wonderful blending of colors and bloom freely throughout the summer. Plant bulbs in May and give the same care as to Gladiolus for winter. All colors mixed. Each 5c, doz. 50c.



AURATUM LILY.



DOUBLE TIGER LILY.

GLORIOUS CANNAS.

Such a great improvement has been made in Cannas during the past few years that they may well be called "Glorious." They are now generally considered the most showy and effective bedding plants. They have grand tropical appearing foliage and wonderfully showy flowers, some of which are truly orchid-like. Each year we increase our acreage in these plants but the demand usually exceeds the supply. The following were selected from the immense variety which we had growing on our place last summer, and they are kinds which we are sure will please every one.

GLORIOSA.—One of the grandest and most beautiful varieties ever brought out. It is a dwarf growing sort, with long spikes of bloom and the individual flowers are immense. Color is rich crimson scarlet with a distinct golden band around each petal blending so as to make a "perfect symphony of crimson and gold." It is a perpetual bloomer especially suited to plant as a border around the beds of taller sorts and for pot culture, as the plants are only two feet in height when in full flower. Green foliage. Each 25c, 3 for 60c.

LEONARD VAUGHAN.—Height 5 feet. Rich, deep bronze foliage. Very strong robust grower, flowers freely. Color, bright scarlet without marking and with very wide petals, measuring 1½ inches. The best dark foliage, good flowering canna to date. Each 20c, 3 for 50c.

ITALIA.—Height 5 feet. Large foliage, deep green, bordered white; very large iris-shaped flowers, bright red, bordered with golden yellow. Belongs to what is called the orchid-flowered section. A grand sort. Each 20c, 3 for 50c.

ALSACE, THE WHITE CANNA. Height 3½ feet. Green foliage. In this variety we have the nearest approach to a pure white Canna. A wonderfully free bloomer and a fine, erect grower. Each 15c, 3 for 40c.

PAUL MARQUARD.—Height 4 feet. Green foliage. Flower spike very large, and the flower is as fine as the finest Orchid. Color bright salmon, with carmine tints. Each 15c, 3 for 40c.

AMERICA.—Height 4½ feet. The beautiful foliage has a dark back ground, shaded and flamed with green, bronze and purple and shines as if varnished. Flowers are enormous with a yellow throat and petals of glowing red, flamed and streaked with purple—a rare combination of colors. Each 25c, 3 for 60c.

QUEEN CHARLOTTE.—Height 4 feet. A choice variety with green foliage. Flowers rich orange scarlet with gold band. Each 20c, 3 for 50c.

CHARLES HENDERSON.—Height 4 feet. Green foliage. This we consider one of the finest bedding varieties in existence as it is of compact vigorous growth and a free bloomer throughout the season. Heads are very large and symmetrical and color a deep rich crimson. Each 10c, doz. \$1.00.

FLAMINGO.—Height 2½ feet. Green foliage. Flowers large and of most intense clear solid crimson. Blooms freely and constantly. Each 25c.

FLORENCE VAUGHAN.—Height 5 feet. Dark green foliage. A most striking and beautiful yellow canna, spotted with bright red. Fine for collections. Each 10c, doz. \$1.10.

CHICAGO.—Height 5 feet. Of largest size; color a brilliant vermillion, inclined to orange. Erect trusses of bloom and blooms constantly. Each 15c, 3 for 40c.

DISCOLOR.—Height 8 to 10 feet. Its mammoth leaves are of green marbled creamy yellow and bordered with rich, bronze red. Flowers small. This and Robusta are fine plants for center of beds. Each 20c, 3 for 50c.

J. D. CABOS.—One of the best dark foliage varieties. Has dark greenish maroon foliage, with bronze metallic luster. Flowers bright orange or apricot. A very distinct variety, a fine early and late, profuse bloomer. Each 20c, 3 for 50c.

J. W. ELLIOTT.—Flowers orange scarlet, borne on strong erect stems. Deep green foliage. Of vigorous habit. A splendid variety for all collections. Each 20c, 3 for 50c.

CHEVALIER BESSON.—Deep red flower, very attractive. The plant is of sturdy and vigorous habit, with bright green foliage and good size trusses of flowers on erect flower spikes. Each 15c, 3 for 40c.

AMI PICHON.—Large, bright red flowers, borne erect in fine well filled trusses. Plant of dwarf habit with beautiful dark green foliage, edged with a pleasing shade of pinkish red. Each 15c, 3 for 40c.

TUBEROSES.

NEW EXCELSIOR PEARL.—The Tuberose is justly a universal favorite and very easily grown. The New Excelsior Pearl Tuberoses have been selected with great care and are superior to the ordinary Pearl Tuberoses. This variety is characterized by its 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. You will be greatly pleased with them. Choicest, large bulbs each 5c, doz. 40c, 100 for \$2.65, postpaid.

DWARF PEARL.—These are similar to the above, but not as carefully selected and grown. We sold many thousands of them however, last year and customers everywhere were pleased. Each 3c, doz. 25c, 100 for \$1.50 postpaid.

VARIEGATED-LEAVED.—Leaves are bordered with creamy white; flowers single, but very large and of exquisite fragrance. Bulbs continue to grow and bloom year after year. Blooms several weeks earlier than the other sorts, which adds greatly to its value. Each 5c, doz. 4 c.

ARMSTRONG'S EVERBLOOMING.—A single flowering variety which branches freely and blooms year after year. Each 10c, doz. \$1.00.



BURBANK.

BURBANK—5 feet. Green foliage. The new American Orchid Flowering Canna. The flowers are truly gigantic in size, the upper petals spreading fully 7 inches and the form is really semi-double. Toward the inner part the petals show fine crimson spots, all the rest of the flower is of a most beautiful, rich canary-yellow.

Each 15c, 3 for 40c, doz. \$1.20.

MADAM CROZY.—Height 3½ feet. Green foliage. Immense flower heads of deepest vermillion red, gold bordered. Produces a succession of closely filled trusses of flowers. Each 15c, 3 for 40c.

PRESIDENT FAIVRE.—Height 6 feet. Flowers amaranth red; foliage bronze. A strong, erect grower, especially adapted to massing and as centers of beds. Each 10c, doz. \$1.00.

ROBUSTA.—Height 8 feet. One of the older varieties. Flowers rather small. Fine for center of beds. Each 15c, 3 for 40c.



GLORIOSA CANNA.



EXCELSIOR PEARL TUBEROSE.



NEW FANCY CANNAS.

FLOWER PLANTS.

EVENTEEN

NEW

De houses.

claim to
portest num-
es devoted
owing of plants
the mail order trade
in the entire west,

For the past few years we have devoted special attention to the growing of flower plants 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 grown in the high temperature at which most florists are obliged to keep their houses in order to produce cut flowers, grow so rapidly that they are soft, succulent and not fit for sending through the mail. The common hothouse grown plants are ill prepared to stand shipment or the great change of temperature to ordinary house culture or outdoor bedding. This year we have added several new greenhouses to our place, besides cool storage rooms for dormant plants. We are filling orders constantly from every state and also from various parts of Canada, Mexico, etc. 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. Orders for plants must amount to at least 25c. We will furnish plants amounting to \$1.20 for \$1.00, \$2.50 for \$2.00, \$7.00 for \$5.00.

WE GUARANTEE—That plants ordered from this list will reach purchasers in any part of United States in good order if sent by mail or express.

NOTICE—We ship all plants as soon after order is received as weather permits. Bedding plants we will hold until the usual season for setting out. If ordered for immediate shipment they will be sent at purchaser's risk.

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 entire list. Easily grown even in a north window. Leaves are bright green, gracefully arched and finely woven as finest sliken mesh; their lasting qualities, when cut, are remarkable, retaining their freshness for weeks, hence it ranks as most valuable plant we have for this purpose, surpassing Maiden Hair Ferns in many respects. Each 15c, large 25c.

ALTERNANTHERAS.—A very bright colored, dwarf growing foliage plant, largely used for carpet bedding, borders, etc. Four best varieties. Each 10c, doz. 75c.

ARTILERY PLANT.—A very neat and pretty plant, resembling some of the ferns in general appearance. Its graceful habit makes it very desirable for baskets and vases. Quite interesting and of easy culture. Two varieties. Each 10c.

ACHYRANTHES.—Dwarf growing foliage plants, valuable on account of their beautiful colored leaves. They are most effective when massed on the lawn or used with coleus. Color, a deep blood red. Each 10c, doz. 75c.

ABUTILON, ECLIPSE.—A most charming trailing variety, well shown by our illustration. The foliage is elegantly pencilled, marked with dark green and yellow—a fine contrast, while the pendulous bell-shaped flowers are bright yellow with crimson throat. An excellent plant for vases and hanging baskets as well as for rockeries. Each 15c.

ABUTILON, SOUVENIR DE BONN.—A striking decorative foliage plant with beautiful variegated leaves of good size, regularly and evenly marked with white and green. Amid these leaves the graceful drooping, orange-colored flowers are produced in great abundance, forming a clear and brilliant contrast. Each 15c.

NEW DOUBLE ABUTILON.—*Thompsonii Plena*.—Instead of a single bell-shaped bloom like all other kinds, this has a perfectly double flower resembling a double hollyhock in form and of rich deep orange color shaded and streaked with crimson. Foliage handsomely variegated. It is a very attractive plant which should be in every collection and we recommend it highly. Each 15c.

WANDERING JEW.—An old, well known trailing plant, nice for growing in hanging baskets, vases, pots or window boxes. Several varieties, with variegated foliage. Each 10c, 4 for 25c.



PRINCESS PAULINE AGERATUM.



ASPARAGUS PLUMOSUS NANUS.

ASPARAGUS SPRENGERI.—A splendid new plant for hanging baskets or pots, making great pendulous masses of fine feathery foliage, exceedingly graceful and beautiful, in a very short time. The stems grow several feet in length, and are valuable for use in cut flower work. Grown in hanging baskets or large pots, it makes one of the most graceful plants imaginable. As a house plant it has no superior, as it withstands the indoor temperature well. Each 15c; large plants 25c; extra strong plants 50c.

JASMINE.—*MAID OF ORLEANS*.—This beautiful plant we place as peer over existing sorts of Jasmine. Easy culture, fine grower, good bloomer, very fragrant and of elegant waxy-white appearance. Each 20c.

CRIMSON VELVET PLANT.—(*Gynura Aurantiaca*).—This is one of the rarest and most beautiful foliage plants in cultivation. Of very robust and branching growth, yet remains dwarf and compact. The leaves and stems are entirely covered with minute hairs, which reflect the new and beautiful shades of colors—such as orange, crimson, purple, blue, green—a veritable kaleidoscope, changing its hues with every movement of the foliage, which appears thick and long lasting. It is so strangely beautiful that flowers seem superfluous, yet they are produced in brilliant orange clusters. Desirable for pot culture, vases or bedding. Each 25c.

OUR PLANTS PLEASE.

Plants received in fine condition and I thank you for the extras.—*M. S. Wittle, Columbia, Penn.*

Have received the plants in good order and am well pleased.—*Rev. A. Groerich, Pinkneyville, Ill.*

Plants just received are lovely. Thanks for your promptness in filling order.—*Mrs. John Scott, Acton, N. D.*

Plants received in good condition and they are fine. Thanks for the many extras.—*Miss Martha Casteel, Huey, Ill.*

Am very much pleased with the roses just received from you.—*Susie L. nd, Oak Grove, Mo.*

Received plants and everything satisfactory. Thank you for the extras.—*Daisy Winter, Wahoo, Neb.*

WHITE SWEET ALYSSUM.—Nice little pure white flowers. Valuable for baskets, vases and borders. Each 10c.

VARIEGATED SWEET ALYSSUM.—A charming little novelty, the flower having all the sweet grace and beauty of the common Sweet Alyssum, being pure white and produced in numerous spikes which cover the plant. Quite fragrant. It has the further advantage of beautifully variegated green and white foliage and is attractive at all times for borders, bedding or pot culture. Each 10c, doz. 90c.

PRINCESS PAULINE AGERATUM.—A most distinct and novel variety of dwarf compact habit, rarely exceeding five inches in height, its peculiarity being that both colors, blue and white, are combined in the same flower. This pretty variegation gives the flower a most charming appearance, and it is one of the most distinct and beautiful new bedding plants now on the market. It is free flowering the entire season and very bright and pretty. Each 10c.

MUSK PLANT.—Many persons are fond of the musk odor though it is not as much used for perfume as it was 25 years ago. This is the true Musk Plant and has a refreshing, delightful fragrance which becomes quite strong and pervading when the leaves are rubbed. It is a pretty little plant and of much value for pot culture and bedding. Flowers yellow. Each 10c.

FOR PERMANENT IMPROVEMENTS

Notice the Hardy Roses, Shrubs, Vines, Etc., listed on pages 86 to 92 of this book.



VARIEGATED SWEET ALYSSUM

BEGONIA.



VERNON BEGONIA.

COBOEA SCANDENS.—A well known summer climber. Foliage green; large, purple, bell-shaped flowers. Each 15c.

COCOLOBA.—A pretty little plant having curious flat jointed stems. Each 10c.

CYCLAMEN.—One of the finest plants in cultivation for winter blooming. Great variety of colors. Each 25c.

EUONYMUS.—A pretty, shrubby plant; variegated foliage. Each 20c.

CYCAS REVOLUTA. *Sago Palm*—Magnificent plants of noble and majestic habit, and most impressive. They are probably the most valuable decorative plants grown; their heavy, glossy, deep green fronds resist alike the gas, dust and cold. Strong young plants 60c each postpaid. Large specimen plants \$1.00 to \$15.00 each by express at purchaser's expense.

ENGLISH IVY.—A showy vine. Each 10c

ENGLISH IVY, VARIEGATED.—Foliage very prettily marked with pure white on a dark green ground. Handsome as a pot plant in the window or for trailing from edges of boxes or baskets. Each 15c.

GERMAN IVY.—A popular vine for hanging baskets and window boxes. Each 10c.

FICUS REPENS.—A pretty dwarf trailer. Each 15c.

FERNS.—We have many choice varieties of these delicate appearing, attractive plants at prices from 10c to \$1.00 each.

SWORD FERN.—One of the most popular sorts. Splendid for pots, vases or hanging baskets but especially desirable grown in the wire hanging baskets in which they thrive well and make wonderfully ornamental plants. Each 15c.



REX BEGONIA.



CINERARIA.

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 vari-colored rugs spread at short intervals on the smooth lawn. These are formed of Coleus. The following are the very best varieties:

ECLIPSE.—A grand new variety of rich warm brown, shading to royal crimson, with a light edging; also fine as a pot plant. **BECKWITH GEM.**—Crimson blotched with purple maroon, green border spotted creamy yellow; very strong grower. **AUTUMN GLOW.**—Has all the beautiful tints of autumn leaves. **GOLDEN BEDDER.**—Color yellow. This is the best yellow coleus for bedding. Deep gold in the sun. **FIREBRAND.**—New, maroon flamed and shaded with brilliant fiery red. **VERSCHAFFELTI.**—The oldest, still one of the best, dark rich velvety crimson.

LITTLE GEM.—Long, narrow leaves, creamy white with dark green border. **VELVET MANTLE.**—Deep rose and chocolate, pale olive border, nicely blended. **CRIMSON BEDDER.**—Deep purple and red. **LITTLE BEAUTY.**—A very attractive dwarf variety. Leaves green with white center. Fine for borders. **HAWKEYE GIANT.**—A new variety of surpassing beauty. It is a seedling of ours which has caused many exclamations of wonder. The leaves are of immense size, beautifully curled and serrated and the color is royally rich and brilliant. **CONIVER.**—Bronze veined pink, mottled light crimson. **LOUIS PALDET.**—Rich deep crimson with red veins and green edge. **MRS. F. SANDER.**—Large creamy white center bordered with green, blotched crimson and purple. Fine for pots. **BLACKBIRD.**—Leaves and stem almost a jet black. **HOPE.**—Bronze crimson with gold edge. **SUNSET.**—Center of leaf brownish purple shading to crimson, edge yellow.

All of above varieties each 10c, doz. 85c. Entire set of 17 for \$1.00. Mixed varieties suitable for bedding, unnamed, 75c per dozen, \$4.25 per 100, postpaid.

VERNON.—A variety of unusual value for bedding, as it will stand the hot summer sun. The flowers are of a brilliant deep red color; the foliage is very abundant, deep and glossy and of a fine green color, spotted and margined with bronzed purple. It thrives everywhere and is equally good as a winter bloomer. Each 10c.

MADAM DE LESSEPS.—This grand new French variety is a decided improvement on *Argentea Guttata*, the leaf being four times the size seen in that variety, while the silky texture is the same, and it is beautifully spotted with silver. A very strong, free-growing variety, sending out quantities of beautiful pink and white flowers. Each 15c.

TUBEROUS ROOTED.—The giant-flowered, tuberous-rooted begonias have been brought to wonderful perfection. These flowers sometimes grow six inches in diameter, are borne upright on stiff stems, and of the richest colors, embracing every shade of white, rose, pink, red, scarlet, crimson, maroon, lake, yellow and orange. Tuberous begonias are well adapted to house culture and make splendid beds on the lawn. Choice double and single varieties mixed. Each 15c, doz. \$1.50.

BERTHA.—An upright growing variety, with small, bright green leaves, and flowers of a beautiful curran-red. Very floriferous and a charming variety. Each 15c.

MCBETHII.—Foliage fern-like. Panicles of pure white flowers produced in the greatest profusion. It is the most persistent bloomer of the Begonias. Each 10c.

REX.—The Rex or King Begonias may well be called the king of foliage plants and they make a magnificent showing with their rich, lustrous tints, tropical looking leaves. Choice varieties. Each. 20c.

LOUISE ERDODY.—One of the finest of the Rex class. Each 25c.

THURSTONI.—A beautiful stately plant. Under side of the leaves is a rich, purplish red, the veinings very prominent; upper side bronzy green shaded with crimson olive; flowers rosy white; large clusters. Each 15 cents.

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 white. Each 10c.

RUBRA.—Fine constant bloomer, rosy scarlet. Each 10c.

SEMPER FLORENS GIGANTEA ROSEA.—Superb variety, strong and upright; large cardinal red flowers. Each 15c.

ARGENTEA GUTTATA.—Purple bronze leaves with silvery markings. White flowers; splendid for house. Each 10c.

COLLECTION.—One plant each of the above dozen kinds of Begonias for only \$1.25.

CINERARIA.—Magnificent flowering plants in winter and spring for windows and conservatories. The flowers of this large flowering type measure two inches across, are of white, blue, violet, crimson, etc., covering the plant with a sheet of blooms. Each 25c.

FEVERFEW.—Well known popular plant loaded with pure white, double, button-like flowers. Each 10c, doz. 75c.

HIBISCUS.—A large, shrub-like, woody plant bearing immense double or single flowers. Various colors. Each 15c. Large, strong plants 35c each.

HYDRANGEA, THOMAS HOGG.—The immense trusses of flowers are at first slightly tinged with green, becoming of the purest white. Each 15c. **HORTENSIS.**—Bears large trusses of beautiful bright pink flowers. Each 10c. **OTASKA.**—Handsome, rosy carmine flowers. Each 15c.



NEW VARIETIES OF COLEUS.

CHRYSANTHEMUMS.

These are now, and deservedly, the most fashionable of all autumn flowers. All these are excellent for pot culture. Price 10c. each except where noted.

ILLUMINATION.—A grand new variety of most robust, sturdy growth and claimed to be the best white yet introduced. Plant is erect; branching so as to make a perfect shaped bush, covered with a great number of beautiful, snow white flowers which are full and deep. Each 15c.

MAJOR BONNAFFON.—Bright clear yellow; the yellow for all purposes. Produces flowers six to seven inches across on straight stiff stems of good length. An ideal Chrysanthemum, should be included in every collection. Each 15c.

GEO. S. KALB.—A very pretty white early sort; dwarf with nice, stiff stems. Fine for sprays. Each 10c.

MARION HENDERSON.—The earliest golden yellow; center incurved, outer petals reflexed, flowers six inches in diameter. Each 10c.

MRS. J. G. WHILDEN.—One of the finest very early yellows. Each 10c.

GETTYSBURG.—This variety excels in its color, as Golden Wedding does in yellow. Deep, rich crimson, which in the flower itself is soft and velvet-like. Outer petals are broad and drooping; have a lustrous sheen in the sunlight. Each 10c.

CASCO.—A beautiful quilled variety of clear wine color. One of the most desirable. Each 15c.

ILLUMINATION CHRYSANTHEMUM.

GLORY OF THE PACIFIC.—The earliest flowering light pink variety. Each 10c.

MRS. HENRY ROBINSON.—A perfect form of exceptional merit, large and well finished, medium early white, blooming with us October 5th. Fine substance and very lasting. Each 10c.

GOLDEN WEDDING.—Of a rich golden yellow color, intense, dazzling, flowers 10 to 12 in. in diameter; petals broad and long, double to center. Each 15c.

SILVER WEDDING.—Very much like the above but of pure silvery white. A grand novelty. Each 20c.

PHILADELPHIA.—A magnificent variety of graceful, globular form, color white, illuminated with lemon yellow, giving it a peculiarly pleasing appearance not seen in any other variety. Each 10c.

PHENOMENAL.—Clear chamois yellow shading pink at base of petals. An enormous flower with broad incurved petals. Flower, while very large, never seems at all coarse. Each 15c.

NIVIUS.—A grand snow-white variety. Center irregularly incurving with outer petals reflexing nearly to the stem. Keeping qualities of the flowers are unsurpassed. Each 10c.

GOLDEN GATE.—Tawny yellow, distinct strikingly handsome spreading flowers slightly whorled; regular form, stout stem, broad, long petals, fine exhibition bloom of great size. Each 10c.

PRESIDENT WM. R. SMITH.—Delicate pure pink, very heavy in substance, strong stiff stems. Each 10c.

WILLOW BROOK.—Early; profuse bloomer; pure white. Each 15c.



CASCO.



MERRY CHRISTMAS CHRYSANTHEMUM.

MERRY CHRISTMAS.—The latest of all white chrysanthemums. Flowers of immense size borne on long stems, and very desirable both as a pot plant and for cutting as they are good keepers. If you want a plant to be a comfort and joy to you during the season when the outside world is cold and looks desolate, be sure to try the Merry Christmas Chrysanthemum. It will please you. Each 15c.

Ostrich Plume Set.

The flowers of this class are large and graceful, having a fine downy appearance, produced by the glandular hairs on the petals.

LOUIS BÖHMER.—The splendid new pink Ostrich Plume Chrysanthemum. Grand flowers of globular form; Petals broad and lasting and thickly covered with fine downy hairs so much admired. Color deep rich pink; solid and fine. Strong and vigorous plant. Each 10c.

CHILD OF TWO WORLDS.—An exquisitely beautiful variety like above but pure snowy white. Each 10c.

GOLDEN PLUME.—A clear golden-yellow, without any shading; flowers large and incurved, heavy petals. Ea. 10c.

BRONZE PLUME.—A beautiful bronze variety Ea. 10c.

One plant each of the above four Ostrich Plume Varieties for 30 cents.



LOUIS BÖHMER CHRYSANTHEMUM.



LADY HARRIETT.

CARNATIONS.

Fragrant flowers are always sought after and the spicy, odor of the carnation, combined with various leaves little to be desired. Easily grown and blooming.

EVELINA. (Cut. No. 1.)—A grand, pure white free flowering carnation of healthy, vigorous makes fine bushy plants and bears an abundance on long stems; petals finely fringed and very excellent variety for general use. Each 10c.

AMERICAN FLAG. (Cut No. 2.)—An in vigorous grower and profuse bloomer; very or is different from any other variety, being regularly striped vivid scarlet and pure white, most novel and striking effect. Each 10c.

MRS. FRANCES JOOST.—The most free flowering carnation we have, commencing to flower in August and continuing all season. Flowers large; color beautiful pink, very fragrant. Each 10c.

ALASKA.—A grand new pure white variety with finely fringed petals. Each 15c.

WM. SCOTT.—Greatest cut-flower carnation. Strong, rich pink with a shade of salmon, giving it a warmth of color; finely fringed, flowers of large size, with long stems that hold it erect. Each 15c.

MRS. GEO. M. BRADT.—Color clear white, heavily edged and striped with bright scarlet; flowers enormous and full, center petals standing erect, giving the bloom a well-rounded; form strong and vigorous. Each 10c.

JUBILEE.—Color intense scarlet of richest shade. One of largest among reds; flowers full and well built; free, continuous bloomer. Each 10c.

EMPRESS.—Magnificently fringed large flower, of rich velvety purplish crimson; very fragrant. Each 10c.



CARNATIONS—1, *Evelina*. 2, *American Flag*.
CARNATIONS.—Continued.

GOLD NUGGET.—Rich golden yellow, in fact the best yellow known among carnations. Strong, vigorous grower with long stems; very full, double flower; free flowering. Ea. 15c.

LIZZIE MCGOWAN.—Favorite variety; pure white with good size flowers of delightful fragrance. Each 10c.

FLORA HILL.—Considered by florists the best pure white variety. Flower is of enormous size and rounded build; wonderfully free in bloom; good calyx. Each 10c.

TRIUMPH.—Exceptionally strong, healthy grower with extra large blooms 2½ to 3 inches across, on heavy, stiff stems. Flower very full, of fine form and deliciously fragrant. Color clear, bright pink. Each 10c.

G. H. CRANE.—Of the most intensely brilliant scarlet, showing no tendency to fade; stems long and firm, holding flowers upright. Each 10c.

A Baker's Dozen: One plant each of above 13 splendid carnations for only 90 cents.

CROWN OF THORNS EUPHORBIA.—Very curious and remarkable window plant; strong-growing creeper or climbing plant that can be trained over any desired form, and when full of its large, bright scarlet flowers, which almost cover the deep, glossy green leaves it is an object of rare and striking beauty. Easily grown. Grows wild in Judea and it is claimed that it was from this plant that the crown of thorns was made which was worn by our Savior. Each 25c.



MEXICAN PRIMROSE.



CUPHEA TRICOLOR.

CUPHEA TRICOLOR.—This interesting flowering plant belongs to the same family as the well known Cigar Plant. The flowers are tubular in shape, about 2 inches long, and combine three distinct colors in each flower—scarlet, white and blue. In bloom continually. 10 cts. each.

CUPHEA PLATYCENTRA.—This is the old-fashioned Cigar Plant, with narrow tubular scarlet flowers, tipped with purple; always in bloom. 10 cts. each.

HELIOTROPE, SNOW WREATH.—Superb large clusters of deliciously fragrant flowers of nearly pure white. Each 15c.

JERSEY BEAUTY.—Very large trusses of blue flowers. Each 10c.

MAD. BLONAY.—Immense truss of very light colored flowers. Each 10c.

PRESIDENT GARFIELD.—The finest dark variety in cultivation. Blooms well. Each 10c.

HOYA, CARNOSA, (Wax Plant.)—The well known house climber, with thick fleshy leaves and curious, waxy flowers. Each 25c.

SEDUM.—Nice plant for rock-work. Six kinds, each 10c.



CROWN OF THORNS.

MEXICAN PRIMROSE.—Is a perpetual bloomer, in flower all times of the year, a good specimen showing always from ten to thirty large, saucer-shaped blossoms two to three inches across, of several beautiful colors. Each blossom keeps perfect many days before fading, and when it droops others are out to take its place, and this succession of beauty is continued. The plant is a free grower, succeeding in almost any soil or situation. Each 10c.

MANETTA BICOLOR.—One of the handsomest little vines in existence. Is easily and quickly grown, blooms continuously and is well adapted for hanging baskets, pot culture, vases or bedding. Flower is of size and shape shown in our illustration and of brilliant scarlet tipped with clear golden yellow making it wonderfully attractive. Blooms constantly and profusely all summer outdoors and all winter when taken into the house. Each 10c. Large size 25c.

ICE PLANT.—Interesting from its being covered with ice-like crystals. Flowers very pretty. Each 10c.



MANETTA—BICOLOR.



JUPITER FUCHSIA.

MIKADO FERN BALL.—The fine Japanese novelty. This beautiful novelty is an importation from Japan and is certainly the finest addition to the Fernery yet introduced. The ball, 6 to 8 inches in diameter, is composed of the Japanese Island Fern Roots and Sphagnum Moss, and so constructed as to throw out leaves of beautiful emerald green from every point. They grow rapidly and make a handsome ornament for the home, conservatory or greenhouse. Place the ball in water for 15 minutes and then suspend in any desired position; repeat every two days until growth is started, after which sprinkle occasionally as required. Price in dormant state each 75c, 3 for \$2.00.

LOBELIA.—Pretty and well known. Each 10 cents.

MAURANDIA.—Graceful climbers for window or conservatories, or open ground in summer; admirable to hang from vases, cover stumps and low trellises, flowering freely. Each 10c.

MOUNTAIN PINK.—A fine plant for basket or rockeries. Flowers bright pink, two inches in diameter. Each 10c.



"MIKADO" FERN BALL.—IN LEAF.

FORGET-ME-NOT.—Every one 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 will continue to thrive and bloom year after year, being perennial and perfectly hardy, with only a slight covering. Plants grow to 12 inches high and will thrive in most soils, though they prefer moist, sandy situations. Each 10c, doz. 75c.

LEMON VERBENA.—A universal favorite, invaluable for its fragrant leaves. They will retain their fragrance for years when dried. 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.

OLEANDERS.—Well known tree-like plants bearing handsome flowers. Each 25c; larger size 50c.

PHEASANT'S BREAST ALOE.—An elegant appearing, slow growing plant, highly prized wherever its true value is known. Each 75c, small 25c.

PRIMULA OBCONICA.—A lovely perpetual blooming primrose. The flowers are of a delicate rose lilac, shading to white. Each 10 cents.

PASSION FLOWER.—An attractive vine bearing beautiful flowers. Can furnish either the white or blue at 15c each.

SMILAX.—Well known handsome climber and the most popular of all vines with the florists. Each 10c.

FUCHSIAS.—These, when in full bloom, are the most graceful of all cultivated plants; nothing surpasses the beauty of well grown specimens.

WHITE PHENOMENAL.—The grandest double white variety in existence and one which should be in every home. Each 15c.

JUPITER.—A new giant flowered variety from France. The flowers are of really mammoth size with very large rich violet purple double corolla. Tube and sepals bright crimson. Plant is a strong, hardy, free grower, which everyone can succeed with and will attract attention everywhere. Each 15c.

PHENOMENAL.—This is usually considered the largest Fuchsia in cultivation, being same size as the Jupiter but of much darker color. The flowers are of enormous size, a single flower measuring three inches across; sepals bright scarlet with rich purple corolla, very double, flaked with red. Attracts universal attention in any collection, as it is one of most beautiful sorts in existence. Each 10c.

MONARCH.—This new Fuchsia is by far the largest of all the single flowering varieties. It is an exceptionally strong grower, bearing immense bloom of a very dark purple. It ranks among the singles the same as the Phenomenal does among the doubles. Each 15c.

BLACK PRINCE.—Tube and sepals bright waxy carmine, sepals large and broad with pale green tips; large, open, pale pink corolla. Easily grown in tree form and we had at one time a plant seven feet high loaded with two thousand flowers at once. Each 10c.

STORM KING.—Large double flowers. The sepals are glowing scarlet crimson, corolla delicate waxy white, elegantly penciled with deep, bright crimson. Each 10c.

TRAILING QUEEN.—Of beautiful trailing habit; fine for hanging baskets. Bright rich scarlet and purple flowers. Each 15c.

SPECIOSA.—Sepals bluish, corolla carmine. Best winter bloomer. Each 10c.

LITTLE BEAUTY.—Charming variety; begins to bloom when only 2 or 3 inches high, and continues to bloom the year round. Tube and sepals bright red, corolla deep purple. Each 10c.

LOTTIE.—Very handsome flower with carmine corolla; tender rose sepals and cream colored tube. Each 10c.

ROSE OF CASTLE.—The best single summer blooming Fuchsia. Blush pink with violet corolla. Each 10c.

COLLECTION.—One plant each of the above 11 varieties of Fuchsias for only \$1.00.

JUSTICIA.—A strong growing plant bearing large, feathery, plume-like pink flowers. Each 15c.

LEOPARD PLANT. (Farfugium.)—A beautiful ornamental foliage plant, either for pot culture or for planting in open border in a shaded position; the wide leaves are of a thick, leathery texture, dark green in color with bright yellow spots. 25c each.

MOON FLOWER.—A handsome climber growing to height of 25 to 40 feet, and covered nightly and on dull days with its white, moon-like flowers 5 to 6 inches in diameter. Each 15c.

NIGHT-BLOOMING CEREUS.—This gorgeous cactus bears abundant blossoms measuring 12 inches across. Very fragrant. Each 25c.

OTTHONA.—A pretty plant for basket culture. Each 10c.

OXALIS.—A fine plant for pots or baskets. Several varieties. Each 10c, 4 for 25c.

GOLDEN STAR OXALIS. (Oregma.)—Is a shrubby plant like a geranium or fuchsia, about 12 inches in height, branching freely, loaded at all times with clusters of bright golden star-shaped flowers, which do not close at night like other Oxalis.

OLD MAN'S BEARD.—Curious and quite decorative plant having a very fine hair-like foliage of steel blue or bluish gray color. Fine for edgings, window boxes, etc. Each 15c, 5 for 50c.



DOUBLE GERANIUMS.

For constancy of bloom the geranium is unequalled. We have tested a multitude of ties and have selected only those which we are sure will please our customers.

BLUE BEAUTY.—See novelties. Each 25c.

DOUBLE NEW LIFE.—See novelties. Each 15c.

REMARKABLE.—As will be seen by our illustration, the habit of growth is compact, making this variety one of the most desirable for pot culture. Has a profusion of miniature rosebud florets, which are wonderfully attractive and pleasing. Color is a possible scarlet crimson. Each 10c.

OLD GLORY.—This grand novelty which we introduced is a seedling from a plant made by a florist in the employ of the U. S. government. When seen at a public exhibition, it was the most beautiful sight, being an apparently solid mass of clear bright, beautiful flowers, sometimes six inches in diameter, of magnificent large, semi-double flowers, which cover it so as to almost hide the foliage. Color is a clear, bright rosy pink. Each 15c.

VERA VEND.—A novelty hard to describe—principally noted for its odd color and flowers are both of good size. Plant of finest habit, semi-double, very open and free, the borders of which are rosy orange; large center, striped with white and deep red, marbled and striped with orange. One of the finest and most beautiful in the collection. Each 10c.

BRUANTI.—Fine double bedding geranium; light vermillion red; trusses exceptionally large and borne in immense balls often eight inches in diameter. Each 10c.

MRS. E. G. HILL.—A most distinct and pleasing shade of salmon with light shading at the center. Each 10c.

S. A. NUTT.—The best crimson bedding Geranium. This, the finest of dark crimson Geraniums, has now taken the lead as a bedding Geranium, 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, as it does not make the long, straggly growth so many other Geraniums do in the winter. We sell many thousands of these for borders and large beds. Each 10c, doz. 85c. By express not prepaid 50 for \$2.75, 100 for \$5.00.

CONTRASTE.—Among the most beautiful of new double Geraniums is Contraste. The flowers and trusses are very large. Lower petals orange and carmine, upper petals clear orange, making a striking contrast of colors that is beautiful. Each 15c.

BRUANTI.

LA FAVORITE.—What S. A. Nutt is among dark crimson, La Favorite is among whites, without doubt the best double white Geranium ever offered. It is a strong grower, a profuse bloomer, always coming perfect in color and substance; the trusses are very large, flowers beautifully formed, of the purest white, retaining their color in the sun, not drawing to a pinkish color. Each 10c, doz. 85c. By express not prepaid 50 for \$2.75, 100 for \$5.00.

HARRIET THORP.—A most beautiful flower of delicate blush color shaded with pearl pink. Each 10c.

GLORY DE FRANCE.—Large, round flowers of waxy appearance, color white, with carmine center, each petal delicately edged with carmine. An excellent pot variety, to which its habit is finely suited. It is one of the prettiest Geraniums we know. This is the most beautiful of the parti-colored Geraniums, which appear so bewitching to the eye. Each 10c.

COLOSSUS.—Floret quite circular, semi-double, two and a half inches in diameter; truss also fine. The color is very beautiful, a rich shade of rosy crimson. Very free in bloom. One of the very largest and finest. Each 10c.

DE ROY MITTING.—An elegant novelty having double red flower and yellow foliage. Each 15c.

LA FAVORITE.

IVY LEAVED GERANIUMS.

EDEN MARCHI.—Handsome of the ivy leaved sorts. Has enormous sized flowers, resembling some of the finest double Zonale Geraniums in size and shape; color, beautiful salmon rose, slightly shaded violet. It is an improvement on the Charles Turner. 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; color rich, deep pink. Each 10c.

VARIEGATED IVY GERANIUM.—This is quite a novelty and will attract attention anywhere. Leaves are handsomely variegated pure white and dark green. Each 20c.

JEAN DE ARCH.—Very large and finest white in existence. A beautiful flower of best form, a good bloomer and very satisfactory. Foliage is dense and glossy-green. Each 10c.

P. CROZY.—A hybrid between the Zonales and Ivies. Color soft, bright scarlet, with veins of maroon. Each 10c.

GARDEN'S GLORY.—Fine, bright scarlet; large, bold full flowers; constant bloomer; one of the very best. Each 10c.

Any of the above 10 cents each, except as noted. Set of 6 Ivy Leaved sorts for 50 Cents.

We Ship Plants Everywhere.—Plants arrived by mail to-day in good condition.—*Pedro D. L. Santos, Saltillo, Mexico*
Plants came in fine condition.—*Mrs. R. S. Chaffee, Springfield, Mass.*

Plants received in perfect order and I am much pleased with them.—*Wm. H. Foss, South Berwick, Maine.*



IVY GERANIUM—EDEN MARCHI. (One-natural size.)

SINGLE GERANIUMS.

profusion of bloom and size of truss many customers consider the singles superior to the doubles. After testing a great number of sorts we have selected the following as by far the best.

SOLE.—See novelties. Each 15c.

LEON.—See novelties. Each 35c.

BERNARDIN.—A novelty in geraniums. Color is very at petals are half white, succeeded by pink; lower petals edged by soft rosy pink with soft scarlet edge; is a good bedder to the sun. Each 15c.

Flowers produced in the greatest profusion upon medium-sized plants; they are brilliant scarlet with large, strong trusses; a geranium will cause a sensation wherever grown; the habit of growth is compact, and it may be classed as one of the freest bloomers in the class. Each 10c.

DER.—One of the finest that has ever been offered. It came in a lot of fine sorts, and is supposed to be a sport from the geranium *Athlete*, it being so intense in color, such a wonderful and strong grower that it was styled the "Wonder." The flowers are the most intense dazzling scarlet, and are borne in great trusses of enormous size, measuring from 18 to 20 inches in circumference, with sin-florets measuring 7 inches in circumference. Each 10c.

ETOILE DE NANCY.—A grand new single scarlet variety with bluish shade at center. Each 15c.

RENOMMIE LYONASIE.—A grand new sort. The flowers are a beautiful combination of bright scarlet, clear rose and white; center of florets white, surrounded by a rose and broad scarlet border, giving it a very brilliant effect. Ea. 15c

MAD. POIRER.—A new favorite bearing beautiful flowers of rich violet carmine color. Immense sized floret and truss. A strikingly beautiful variety. Each 10 cents.

EMPRESS EUGENE.—Deep rich pink with base of upper petals white. Each 10c.

MODJESKA.—A novelty in single geraniums of decided merit. Truss of fair size and the separate florets are immense. Color delicate salmon pink with distinct white eye. Ea. 10 cents.

JOHN P. CLEARY.—Enormous trusses composed of immense, round, individual florets; single flower measuring upwards of 2 in. in diameter. Color a most brilliant shade of deep orange scarlet, so brilliant as to completely dazzle the eye. Ea. 15c

AMERICA.—Ideal variety for pot culture or bedding, white with salmon center. 25c each.

CARMEN SYLVA.—The grandest single pure white geranium in existence. It is of vigorous healthy growth and blooms profusely, the plant being loaded with immense trusses of bloom which do not turn pink even in the most severe weather, but remain spotless snow white. Very desirable for bedding or pot culture. Each 15c.

FLEUR POITEVINE.—Extra large single flowers, brilliant rosy carmine, marked and striped with pure white, center deep orange scarlet; a dwarf robust grower and very free-flowering. Each 10c.

MARS.—A superb bedding and pot Geranium. Of dwarf, compact habit and a profuse bloomer, producing a quantity of flowers completely hiding the foliage. Color a deep salmon rose at the center, changing to white on the edge, forming compact flower heads. Each 10c.

MAD. M. HERBERT.—A fancy variety of light pink color, shaded to dark pink at center with clear white eye. Profuse bloomer. Each 10c.

BLACK PRINCE.—Very dark, rich velvety crimson. The nearest black known in single Geraniums. Large truss. Each 10c.

CHAMPION.—Elegant large flower, carmine crimson. Each 10c.

ELECTRIC.—Very large flower of most brilliant scarlet color with distinct white eye. A free bloomer. Each 10c.

SOUVENIR DE MIRANDE.—One of the handsomest and most satisfactory of all recent introductions. It has nicely formed, round florets, upper petals cream white, with distinct salmon rose border; lower petals salmon rose, streaked with pure white; very free flowering and produces fine trusses of magnificent blooms. Each 10c, doz. 85c. By express 100 for \$5.00.



SOUVENIR DE MIRANDE.

PELARGONIUMS.

Commonly known as Lady Washington geraniums, and the improved large flowering sorts are undoubtedly the most beautiful of all geraniums. Is highly prized everywhere for house culture and for winter blooming. We grow many of the choicest new sorts in our mixture, some of the novelties which we secured directly from the originators this year being superbly grand. Each 25c, 5 for \$1.00.

PANSY GERANIUMS. Flowers of medium size and have ad toward the center with a rich lavender pink and a dark maroon blotch in the center. Very handsome; will attract attention. This new and beautiful geranium is of easiest growth, dwarf in habit, and literally covered with flowers all the time; and as it requires little or no attention, it is invaluable as a window plant. Color and markings of flowers are most extraordinary. Each 25c.

FANCY LEAVED GERANIUM.

MRS. POLLOCK.—Magnificent. Green leaf disc overlaid by beautiful bronze red, belted with bright crimson, outwardly margined with golden yellow. Each 15c.

MARSHAL McMAHON.—Golden yellow, marked with a deep chocolate zone. A splendid bedding variety. Each 15c.

SNOW STORM.—Dark green foliage, distinct white margin; robust grower; improvement on Mountain of Snow. Each 15c

MAD. SALLEROL.—A very compact variety of silvery geranium; fine for massing or bordering; thrifty; leaves green, edged white. Each 10c.

ZULU.—The darkest foliaged variety, the zone being so large as to nearly cover the entire leaf, and it is of very dark chocolate color, at times appearing almost black. Each 15c.

CRYSTAL PALACE GEM.—Yellow with green disc, fine bedder; ea. 10c

DISTINCTION.—Round green leaves, with clear black circle. Ea. 10c.

MOUNTAIN OF SNOW.—Finest of this class for ribbon lines or massing; center of leaf bright green, outer margin broadly marked silver white; scarlet flowers. Each 10c.

HAPPY THOUGHT.—A tri-colored geranium with dark green foliage, light cream white center with dark band about the light zone. Flowers bright scarlet. Each 10c.

GOLDEN CIRCLE.—Green foliage, narrow golden yellow edging, flower scarlet. Each 10c. Set of 10 fancy geraniums 85c.

SWEET SCENTED GERANIUM.

LADY PLYMOUTH.—A beautifully variegated variety of the Rose geranium. Propagates slowly, and the demand usually exceeds the supply. Each 20c.

NUTMEG.—Small leaves, with nutmeg perfume. Each 10c.

OAK-LEAVED.—Beautiful foliage resembling oak leaves; black center with green border. Each 15c.

ROSE SCENTED.—Two kinds, broad leaf and cut leaf; this is the most popular of all scented Geraniums. Each 10c.

SKELETON-LEAVED.—Leaves very finely cut; rose fragrance. Each 10c.

BALM.—Has delicious balm fragrance. Each 10c.

LEMON.—A nice little plant of bushy growth, with delightful lemon fragrance to the leaves. Makes a nice pot plant the year round and the odor is quite refreshing. Each 10c.

FERN LEAVED.—The most delicate of all the cut leaved Geraniums, of delightful fragrance, very free growing. The leaves are valuable for mixing with cut flowers. Each 20c.

MRS. TAYLOR.—A scarlet flowered rose geranium. The blooms resemble the Pelargonium but are smaller and of bright scarlet color; blooms constantly. Each 10c.

SKELETON LEAF.—Fine for cut flower work. Each 15c.

ORANGE SCENTED.—Quite fragrant. Each 10c.

PEPPERMINT.—A rare variety with thick "hairy" leaves and refreshing peppermint fragrance. Each 20c.



PANSY GERANIUM.



OTAHEITE ORANGE.

INDIA RUBBER TREE. FIGUS.—During the past few years there has sprung up an immense demand for Rubber plants and they are highly valued everywhere for their tropical appearance. Leaves are large, very 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 always remain high in price. Each 60c. Larger size \$1.00 and \$1.50 each.

WE SHIP EVERYWHERE.

Your collection of 12 rare and beautiful roses arrived in excellent condition. I am more than pleased with them.—*Mrs. H. A. Contwell, San Francisco, Cal.*

I am much pleased with the collection of Cacti which arrived in fine condition this morning.—*E. C. Turner, Appleton, Mass.*

The shipment of plants arrived yesterday and everything was in perfect order. The rhubarb had made so much of a growth that we had a sufficient amount to make us a pie. The berry plants were sprouted and in good condition, and the moss in which they were packed was quite moist. I desire to thank you for the care you took in filling my order.—*Eva. H. Field, Seoul, Corea, Asia.*

Your seeds have given me perfect satisfaction for several years past. The collection of Begonias received from you last spring were marked twice what you charged for them.—*Mollie Markberry, Mo.*

Plants just received in good condition. Thanks for extras sent.—*Mrs. H. J. Walker, Hendersonville, N. C.*

CACTUS—To some persons these curious plants are more interesting and attractive than any others and we therefore offer them here. We have many choice varieties such as the Old Man cactus, shown in center of cut, which is covered with long snowy white hair, giving it a most remarkable appearance. Price 60c. The Night Blooming Cereus, bearing immense flowers, 25c each and many other varieties at 10c to 25c each. A collection of 10 varieties for \$1.00 postpaid.



CACTUS COLLECTION.

OTAHEITE ORANGE—The most hardy of the orange family and is desirable for pot culture. It is dwarf of a low, shrubby growth, with beautiful, glossy green leaves and an abundance of large, white, sweet scented blossoms borne almost continually. Fruit is small and bright orange red in color. A great beauty. Each 25c.

LANTANA—We consider this one of the most satisfactory plants grown. It is the flower for everybody both for outdoor bedding and blooming all winter in house. Has a flower somewhat resembling 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. **JAVOI**.—Best, largest and freest blooming white variety. **HARKET'S PERFECTION**.—New variety with beautiful flesh and yellow flower and golden variegated foliage. **MICHAEL SCHMIDT**.—Flowers fresh and sparkling, of a brilliant yellow passing into purple vermillion. **FRANCIENNE**.—Handsomer rosy lilac. **PATRIOT**.—Elegant rich orange color, changing to maroon as flower grows older. **GOLD CUP**.—A dwarf compact grower, with very pretty lemon yellow flowers having golden yellow center. Any of above each 10c; set of six varieties 50c.

WEeping LANTANA.—A beautiful trailing variety, 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 in the fall. Each 15c.

IMPATIENS SULTANA—Most beautiful flowering plant, producing waxy, bright flowers almost continually, winter and summer; suitable for either pot or garden culture. Plant is compact growth and almost a perpetual bloomer. Flowers are 1 to 1½ inches in diameter and vary from a delicate pink to brilliant rose scarlet. Each 15c.



INDIA RUBBER TREE.

PLUMBAGO CAPENSIS.—No plant in our greenhouse has caused more exclamations of delight than these beautiful heavenly blue Plumbagoes. They are most excellent pot plants, flowering freely at all times of the year. South of Central Missouri they are hardy in the open ground, and make desirable garden plants. Flowers are borne in large clusters and are exceedingly beautiful in color. They are of very easy culture, growing in any situation as freely as Geraniums. In fact few pot plants can be found that will prove so easy to manage, and furnish such an abundance of exceedingly handsome flowers. They are of a rare shade of light azure blue. Each 10c.

LADY LARPENT PLUMBAGO.—The plants are strong, upright in habit, growing to a height of twelve to fifteen inches in compact clumps, and from the middle of July until severe frost are covered with lovely rich violet blue-colored flowers, borne in close terminal heads. Each 20c.

WHITE PARIS DAISY.—A French improvement on the old White Marguerite which has for years been so popular. Is of much larger size and will produce ten times as many flowers. Each 10c.

YELLOW PARIS DAISY.—Similar to the above, but of a very pretty canary yellow color. Blooms freely and continuously if flowers are cut frequently. Each 10c.

BLUE PARIS DAISY.—A striking beautiful flowering plant, producing an abundance of clear sky blue flowers. Plants are fairly loaded with the flowers which are very desirable for cutting. Each 10c.

RESURRECTION PLANT.—A curiosity. Looks like a ball of dried moss, but when dropped into a bowl of tepid water, it quickly opens into a beautiful fern-like plant. Each 10c, 3 for 25c.

ROYAL PURPLE STROBILANTHE.—An excellent bedding plant as well as a beautiful foliage plant for pot culture. It forms a compact bush 18 inches high, with leaves 6 to 9 inches long; of a beautiful, metallic purple, shading into light rose, with a light green margin, a combination unapproached by any other plant. The flowers are violet blue, borne in immense racemes. 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 the reach of all. The following are the most desirable for house culture.

LATANIA BORBONICA, or Fan Palm.—(See cut). One of the most popular varieties grown, prized especially for its beautiful, large, fan-shaped leaves of deep glossy green. 25c each. Large plants by express \$1.00 to \$10.00 each.

KENTIA.—This is considered one of the hardiest and best palms in cultivation. A rapid grower. 35c each. Large plants by express \$1.00 to \$5.00 each.

CHAMÆROPS.—Handsome fan-leaf palm of rapid, easy culture. Very valuable and useful for outdoors during the summer. 25c each.

WASHINGTONIA FILIFERA.—Has elegant dark green fan-shaped leaves, from which hang thread like filaments. 15c and 25c each.

ARECA.—One of the most graceful palms in cultivation. The foliage is a bright glossy green, stems a rich golden yellow splashed with brown. Each 40c.



LATANIA BORR NICA PALMS.



LANTANA.



SOLANUM.

SHOWER OF GOLD.—*Genista*.—A most desirable plant which has been given the name "Shower of Gold" or "Fountain of Gold," from its peculiar fountain shape and brilliant color. 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 10c.

RUSSELLIA JUNCIEA.—A rare plant, suitable either for garden or pot culture, and requiring the same treatment as a geranium. It produces numerous long, wiry stems and upon these stems and branches the flowers are borne, which are long, trumpet-shaped, brilliant scarlet in color, and borne in wonderful profusion during most of the year. A magnificent novelty which will please those who admire trailing plants. Each 15c.

CRAPE MYRTLE.—A handsome free flowering half-hardy shrub from India. The flowers are of very curious shape and about two inches in diameter. Color rich pink. Each 15c.



MAMMOTH VERBENAS.

EXHIBITION PANSIES.—We wish you could see our pansy plants as they are now put away snugly in winter quarters. There are about 65,000 of them which were all grown from the best seed sown in August, and they are all strong, large plants and kept in cold frames covered with straw during the winter so that in the spring they will be ready to bloom at once and be far superior to spring grown plants. Only 50c per dozen, 4 doz. for \$1.50 postpaid. Smaller spring grown plants 25c per doz., 5 doz. \$1.00.



PANSIES.

SOLANUM, *Jasminoides Grandiflorum*.—This beautiful plant is of trailing or climbing habit, but if desired can be cut back to a bush form. It has star-shaped flowers, borne in large clusters or panicles frequently a foot across. They are pure white with violet tinge on the back; it is equally a good bloomer in summer and winter, and is wonderfully effective when planted to cover a low wall or trellis, showing hundreds of magnificent panicles of bloom which remain perfect a long time before fading. Each 10c; 6 for 50c.

SANSEVIERIA, *Zelanica*.—A singular plant, eminently adapted for decorative purposes in parlors, etc. Dark green, beautifully striped crosswise with white and flowers white. Each 15c. Large size 50c.

SANTOLINA.—A very pretty, dwarf-growing little evergreen shrub. The foliage is finely cut and of a silvery gray color thus making it particularly useful and valuable for edgings and ribbon beds, as it contrasts finely with plants of darker color or larger leaves like Coleus. Each 10c, doz. 75c.

DOUBLE PETUNIA.—One of the grandest most beautiful plants for massing, mixed borders and vases. The brilliancy and variety of its colors, combined with the duration of its blooming period, render it invaluable for garden decoration. We devote special attention to the cultivation of the Double Petunia, we spare no pains or expense to obtain the best results, and as a consequence our stock is unsurpassed and includes best blotched and fringed sorts. Mixed varieties, Each 10c, doz. 90c.

HELEN GOULD PETUNIA.—A beautifully fringed clear pink variety. Each 10c.

FRITZ PETUNIA.—This is a decided novelty. The ground work of the flower is a deep purple, which is beautifully marked and pencilled with cream, white and pink, the whole forming a most gorgeous combination. Each 15c.

SNOW QUEEN PETUNIA.—White varieties are always scarce. This is an extra choice new double white Petunia which for profuse flowering qualities is unsurpassed and for keeping has no equal. Plant grows about two feet high and often has two to three hundred flowers on at a time and blooms throughout the season. Flower is of medium size, scalloped, pure snow white and of great substance. Each 15c.

SEA FOAM PETUNIA.—A grand new double white fringed variety; unsurpassed among the new fringed sorts for purity of color, size, form and vigor of growth. Each 15c.

SALVIA, *Splendens*.—Rich and abundant flowering plants, and indispensable in autumnal gardens. Scarlet. 10c ea. White. Like the above except that flowers are pure white. Each 10c. Chance—A novelty striped scarlet and white. Each 10c. Blue—A choice blue flowered sort. Each 15c. Golden—Handsomeness yellow leaved variety. Each 10c.

Pineapple.—The leaves have a strong, pleasant pineapple odor even on a small plant long before it begins to bloom. Brilliant scarlet flowers. Each 10c. Silver Spot—Pretty foliage. Each 15c.

VINCA MAJOR.—Beautiful trailing plant. Leaves glossy green broadly margined with creamy white. The flowers are a handsome blue. Free bloomer. Each 10c. **VINCA HARRISON.**—Similar to above with darker variegation. 10c.

SEDUM.—(*Stonecrop*.)—Six varieties. Each 10c. Doz. 75c.

SAXAFRAGA.—The well known, much used old basket plant, with long, strawberry-like runners. Each 10c.



DOUBLE PETUNIA.

MAMMOTH VERBENAS.

Everybody likes verbenas, as no one can help enjoying the sight of a nice bed carpeted with the dark green leaves and brilliant blossoms. The following mammoth flowering varieties bloom freely and have the finest colors.

AURORA BOREALIS.—Beautifully and irregularly striped white, pink, crimson and scarlet.

WHITE BEAUTY.—Very large flower, large truss, and pure white.

AMERICAN FLAG.—Pure white tipped with most brilliant crimson.

CLIMAXER.—Extra large flower of bright scarlet; really dazzling when in full bloom.

BEAUTY OF OXFORD.—The most popular pink variety. Color rich and flower of immense size.

BLUE BOY.—Of pure deep heavenly blue color.

MACHADON.—Of deep, velvety, blood red color.

DOLORES.—The richest deep purple color.

SAMBO.—The nearest pure black that appears in verbenas, has just a slight shading of maroon.

BEAUTY.—A fine lavender colored variety.

GARNET.—A beautiful shade of red.

PRINCESS.—A handsome wine colored flower.

Any of above Verbenas 10c each, 75c per dozen. One plant each of the 12 kinds for 75c. Mixed verbenas 50c per dozen.

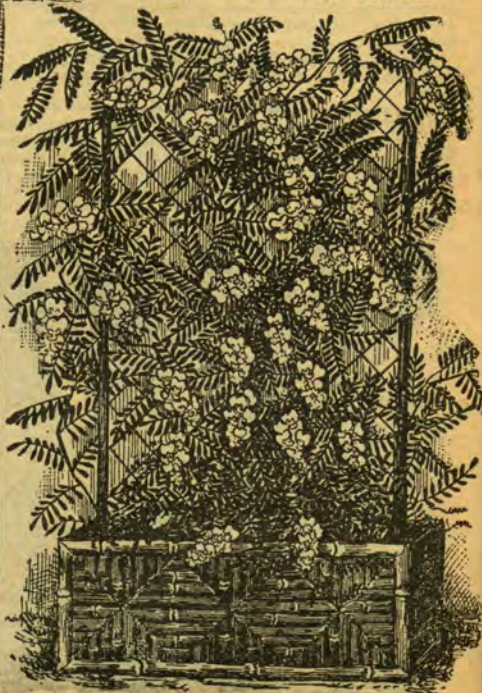


SANSEVIERIA.

CAREX JAPONICA.—A first class novelty and an excellent plant for house and table decorations; forms a mass of erect-growing, fine spray-like foliage, drooping gracefully from the center. The delicate dark green leaves are beautifully edged, as with a band of gold. Each 15c.

WHITE SWAINSONIA.—A most beautiful new climbing plant. The habit of growth is extremely graceful and the vine 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 and under favorable conditions is almost a perpetual bloomer. 10c.

PINK SWAINSONIA.—A beautiful new sort quite similar to above except that flowers are a clear pink color. Each 15c.



SWAINSONIA.

AQUATIC PLANTS.

The constantly increasing demand proves the coming popularity of Aquatics. Their requirements are very simple, only sunshine, shallow rich soil being necessary. Artificial ponds can easily be made or you can grow them in tubs or tanks. In winter most of the varieties should be kept from injury by frost. Nothing will give more pleasure than a pond or fountain basin fixed up in your lawn to hold aquatic gold fish. Most of the varieties we offer are also adapted for growing in aquariums in the house.

FAIRY WATER LILY.—This resembles a miniature water lily bearing small white flowers the year round. Fine for aquariums. See description with novelties. Each 15 cents.

WHITE POND LILY. (*Nymphaea Odorata*).—The praises of our fragrant water lily can never be too highly sung. Its lovely pure white flowers are worthy a place beside the most costly exotics and its beautiful flowers attain a size of five to six inches across. A tub or half barrel may be utilized to grow it in if you do not have a pond or pool of water. Plant the roots in muck or loam, covering the latter with about two inches of sand or fine gravel to hold them in position. The roots should be barely covered. Give plenty of sunshine. Strong roots 30c ea.; doz. \$3.00.

PINK POND LILY. (*Nymphaea Rosea*).—The famous pink water lily of Cape Cod, and is a grand acquisition. It possesses all the desirable qualities of white-flowered species, hardiness, freedom of bloom and delicious fragrance, with the added charm of deep pink color. Flowers average larger size than white. Large roots 75c each.

YELLOW POND LILY. (*Nymphaea Flava*).—A charming variety which has proved hardy in central Iowa. Flowers of bright golden yellow color and delicious fragrance. Each 50c.

EGYPTIAN LOTUS. *Nelumbium Speciosum*.—A noble aquatic known in Egypt, India and China as the "Sacred Lotus." Has gigantic leaves of most tropical appearance and flowers sometime a foot in diameter. Color white shading to pink. Easily grown either in tubs or ponds and have lived through the winter even where ice 3 to 8 inches thick formed on the pond. Each \$1.00.

AQUATIC COLLECTION One plant each of above five for \$2.25, prepaid.

SAGITARIA.—A grass-like plant quite desirable for growing in aquariums. When well established it is a very satisfactory plant, growing rapidly, fine wavy appearance. Propagates slowly, therefore expensive. 25c each.

WATER
HYACINTH.



WATER HYACINTH.—One of the most remarkable, curious and beautiful plants we have ever grown. It floats in water forming a lovely rosette of its curious, shining green leaves, and throws up spikes of most exquisite flowers. Color a beautiful, soft lilac rose, sparkling as if covered with diamond dust. The upper petal has large metallic blue blotch, and in the center of that a small golden yellow spot. Each 15c.

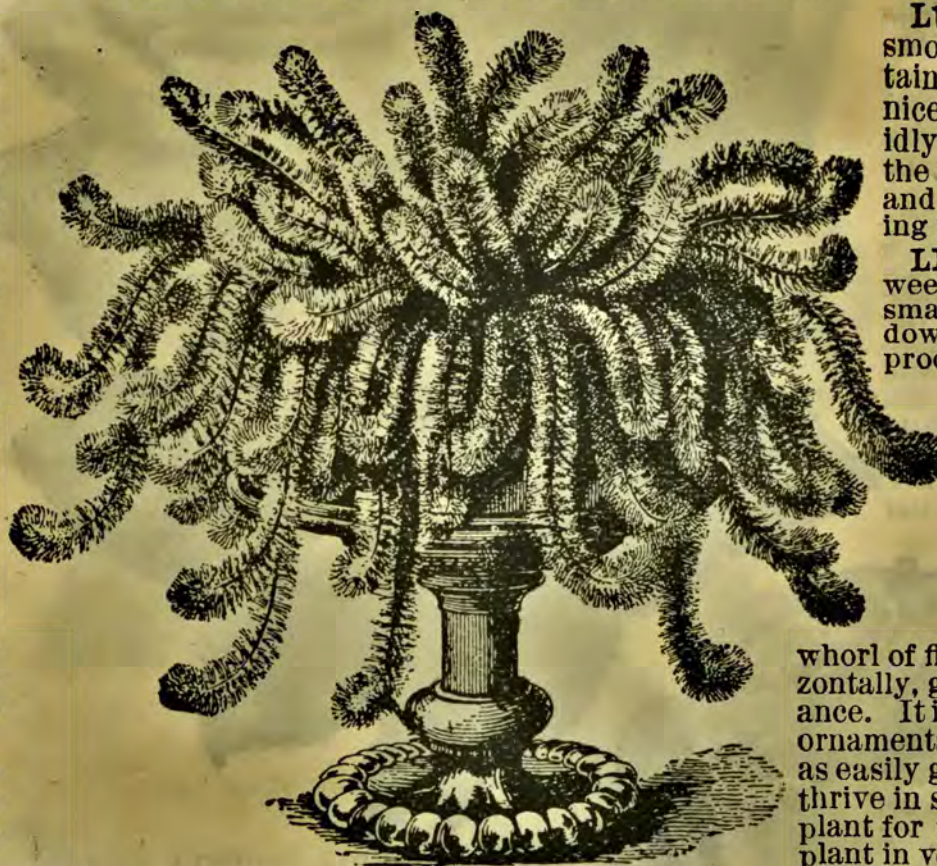
TRAPA NATANS.—The Chinese Horn Nut described with novelties. Grows nicely in aquariums. Pkg. of 4 nuts 15 cents.

VARIEGATED CYPERUS.—A decided novelty which is now offered for the first time. It is a sport which occurred in our greenhouse several years ago and we have since been propagating to try and obtain sufficient stock to offer it to our trade. The plant resembles in every way the Umbrella Palm offered on this page but the foliage is beautifully striped dark green and pure white, thus making one of the most showy and attractive plants. Does nicely for growing either in pots or in the aquarium as it is of easiest culture. Each 40c.

CYPERUS PAPHYRUS.—The true Egyptian Paper Plant. This very pretty rush-like plant grows well in shallow ponds. Each 25c.



CABOMBA, OR AQUARIA MOSS.



PARROT'S FEATHER.

PARROT'S FEATHER.—An aquatic hanging plant is a novelty indeed, and we have it to perfection in this dainty little jewel. Its long, trailing stems are clothed with whorls of most exquisite foliage, as finely cut as leaves of the Cypress Vine, but more delicate. Planted in water tight hanging basket, will trail finely. Each 15c.

CABOMBA or AQUARIA MOSS.—This 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. The leaves are beautifully and regularly cut and resemble a delicate lace fern. It has flowers measuring half an inch in diameter, which are white, with yellow spots at the base. It rarely blooms in the aquaria, but grows all the year round. It looks much better during the fall and winter than during the spring months. It may be broken at any length and roots readily. Should be weighted down so that the base of stems are in the sand. Bunch of ten stems 25c postpaid.

CHINESE SACRED LILY.—While possibly this should not be called an Aquatic plant still in this country they are usually grown in a bowl of water in the house and they grow and bloom just as well without any soil. It is a wonderfully beautiful and attractive white flower with yellow tinted cup; a truss from three to seven, borne on a stem—sometimes single and double on the same stalk. The bulbs are very large, with from three to six various-sized offsets, and nearly every offset bears a flower stalk. We can furnish them until the last of March, when the supply is usually exhausted and we do not have more until fall. Each 15c.



LUDWIGIA.

LUDWIGIA.—A pretty plant, with smooth, green leaves, variegated at certain seasons with yellow and red. It grows nicely in the aquarium and propagates rapidly if set in sand. It is considered one of the best oxygenators of all aquaria plants, and is, therefore, of special value in purifying the water for the fish. Each 10c, 6 for 50c.

LEMNA.—This is sometimes called Duckweed, and is often found floating. It has small, oval leaves, with rootlets hanging down into the water, and the plants are produced very rapidly by off-shoots. It is an ornamental plant and shades the water. The fish seem to be fond of it because of the great amount of animal life which finds lodging in the roots and leaves. Bunch 15c.

UMBRELLA PALM.—*Cyperus*. An ornamental and very striking plant as shown by the cut. It throws up slender, round stems from two to three feet high, surmounted at the top by a whorl of flat, ribbon-like leaves, diverging horizontally, giving the plant a very curious 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, as it will thrive in shade as well as sun. It is an excellent plant for the dining room table; or as a water plant in very moist spots or for aquariums or fountains. It should have an abundance of water. We sell thousands of these plants and they are always satisfactory. Nice plants 15c each. Larger, 25c and 50c each.



CYPERUS, OR UMBRELLA PALM.

ROSES.

Consider this not only the most popular but also the most satisfactory of all flowers and we make roses a leading specialty and are now devoting more space in our greenhouse and in our fields to roses than ever before as the trade has each year far exceeded. As we do not grow cut flowers and our rose growing is exclusively for the young plants we are enabled to use the best and most healthy wood in our propagation. Our stems that have been exhausted by the production of flowers. Our soil here is for rose culture and we are sure that customers will find our plants specially selected and vigorous. The varieties we list are the choicest selections out of several series. We omit all inferior sorts and such sorts as experience has proved to be unsatisfactory. Every variety listed has our most hearty recommendation.

Shipped by mail or express prepaid in perfect condition to the most distant parts of the United States and also to some foreign countries. Directions for Rose Culture sent with each package. **WE FURNISH ONE DOZEN OF ANY VARIETY AT THE PRICE OF TEN DOLLARS.**

WEEN.—A beautiful new variety resembling the Meteor in shape but the flowers are a dark crimson color distinctly striped with pink and pure white. It is a hardy, evergreen variety. See colored illustration on cover of this book. Each 15c.

EMILIE GONIN.—A strong grower and profuse bloomer, bearing large, beautiful, variegated flowers. One of the most attractive varieties in existence See illustration on cover. Each 20c.

ENGLAND'S FAVORITE.—A charming new color in roses, coppery red shading to yellow. Plant is a hardy climber loaded with flowers of delightful fragrance. Each 20c.

SNOWFLAKE.—The freest flowering pure white rose that we know of. Unequaled as a pot plant. Each 15c.

JUBILEE.—A perfectly hardy perpetual blooming variety very desirable for pot culture or out door bedding. Flowers of large size and most beautiful dark, rich, velvety crimson color. Sometimes flowers are six inches in diameter and still of wonderful grace and beauty. See illustration on cover. Each 15c.

Special 1902 Rose Collection

One plant each of the above five varieties for **Only 50 cts.** There will be an immense call for these collections and we advise you to order early and we can delay shipment if desired.

BRIDE.—This is undoubtedly one of the finest white roses ever offered. The buds are very large and of exquisite form and the full flower very double, measuring from 3½ to 4 inches in diameter. The color is a very delicate creamy white. Each 10c.

PRESIDENT CARNOT.—Magnificent new Hybrid Tea Rose, which we consider one of the daintiest and most charming roses in cultivation. Color soft, creamy fawn, overlaid with most delicate shade of pink. As rose expands it discloses a heart of most exquisite blending of cream and glowing pink imaginable. The shape of the bud is full and pointed, while the rose as it expands seems to grow more and more beautiful, the tinting growing more pronounced as it approaches the center, while the petals curl and expand in a bewildering manner. Its fragrance is delicious (that is the only word which will do). A vigorous, sturdy grower and free bloomer. Each 15c.



KAISERIN AUGUSTA VICTORIA.



SOUVENIR
DE WOOTON.

SOUVENIR DE WOOTON.—Color a beautiful shade of velvety crimson, equal to the noted General Jacqueminot, deliciously fragrant, a constant and most prolific bloomer, and the full open flowers are frequently 6 inches across. Each 10c.

KAISERIN AUGUSTA VICTORIA.—The finest white ever-blooming hardy garden rose. A Hybrid Tea Rose, soft pearly white, lightly tinted with lemon in the centre, just enough to relieve the white, remarkably fragrant, a strong, healthy grower, with bold, beautiful foliage. The habit is free; the beautiful, perfectly shaped flowers are borne in profusion on long, graceful stems, so that it will be invaluable for cut flowers and it is a continuous bloomer. Professional florists have been quick to perceive the great value of this peerless variety, and it is more eagerly sought after than almost any rose on the market. Each 15c.

BRIDESMAID.—An exquisite bright clear pink, a lovely shade; flowers very large and perfectly double. The buds are large and solid, with long, stiff stems and handsome glossy foliage. Strong, healthy growing, free from disease. It is also an excellent bedding variety for outside flowering in summer. Each 10c.

PERLE DES JARDINS.—Fine straw-yellow; very large and perfect. Blooms freely and we consider it one of the most satisfactory varieties. Each 10c.

EVERGREEN MEMORIAL ROSES.

These hardy and lasting Roses creep over the ground like Ivy. The leaves are glossy dark green. The flowers are borne in clusters profusely during July and August. Used extensively for covering graves, rock work, embankments, etc.

EVERGREEN GEM.—A single plant four years old covered a space of 240 square feet, with long shoots and completely covering the ground with its bright, glossy foliage, which is not only evergreen, but growing during mild weather in Winter. Flowers are creamy white; perfectly double and of a delightful Sweet Briar fragrance. Each 15c.

SOUTH ORANGE PERFECTION.—Produces multitudes of the most perfectly formed double flowers; color, soft blush pink at tips. Each 15c.

PINK ROAMER.—The single flowers, which are produced in close heads, are nearly 2 inches in diameter bright, rich pink. Each 10c.

WHITE MEMORIAL. *Wichuriana*.—The finest rose for cemetery planting. Has dark green leaves, and creeps on the ground like an ivy rapidly branching and quickly covers any surface. The flowers are single, pure white with golden yellow stamens; perfectly hardy. Each 10c. Strong, dormant plants 25c.

GARDENIA.—Buds bright yellow, open flowers cream color, 3 to 3½ inches in diameter, incurving towards evening to the shape and color of a Cape Jessamine, hence its name; delightfully fragrant and freely produced. Each 10c.

Set of 5 Evergreen Memorial Roses for only 45 cts.

HERMOSA.—An excellent rose, blooms in fine clusters; large, very double and fragrant; color a beautiful clear rose; a constant bloomer, hardy, one of the best. Each 10c.

BEAUTY INCONSTANT.—A wonderful new variety, producing flowers of many shades of pink, red, crimson and yellow all on the same bush at once. Its beauty is indescribable; fragrant; each 15c.

VERDIFLORA.—The wonderful green rose which cannot fail to attract attention and cause surprise wherever seen. It is a perfect flower with deep green petals and a free bloomer. A curiosity. Each 15c.

VICK'S CAPRICE.—Rich glossy pink, dashed and flaked with carmine stripes. Each 15c.

GOLDEN GATE.—Creamy white, tinged with golden yellow and clear rose. Each 10c.



PRESIDENT CARNOT.



BEAUTIFUL AND FAMOUS LA FRANCE ROSES.

Collection of Four Varieties
for only 35 Cts.

The La France Roses are certainly nearest perfection of flowers, and nothing can compare with them in the eye of the true Rose lover. Distinctive characteristics of the set are the true La France fragrance and their beautiful form by which every one may be known. They are hardy, free blooming and in every way desirable.

PINK LA FRANCE.—For beauty, profusion of bloom and fragrance La France stands at the head of our hardy Roses. It is of beautiful form, both in bud and full bloom; very large, full and globular; a most constant bloomer, and the sweetest of all Roses. The color is a pink or silvery rose—that is, there is apparently a silvery bloom overlaying the pink and rose color—a satiny sheen, as it has been termed. 15c. each.

WHITE LA FRANCE.—It is identical with La France except the color. It is pearly white, sometimes tinted fawn 10c. ea.

STRIPED LA FRANCE.—Imagine a lovely Rose with the shape and fragrance of La France, of a rich creamy pink, with a silvery gloss, growing deeper at base of petals, the whole beautifully etched and streaked with delicate carmine 15c. each.

RED LA FRANCE.—Deep rose pink hue. Flowers are produced in wonderful profusion upon long stems; are very large, double and of superb form 10c. each.

FOR 35 CTS. We will send postpaid, one good, strong plant each of the Red, White, Pink and Striped La France Roses offered above.

METEOR.—We have no red Rose that is better for general purposes or that gives as many perfect shaped flowers on nice, long stems. They are of large size, very double and perfect in shape both when in bud and when fully expanded. The color is rich, velvety crimson, exceedingly bright and attractive. The plant is of vigorous growth, and very free flowering; a constant bloomer. Fine for summer bedding or pot culture. 10 cents each.

RAINBOW.—An elegant striped Tea rose; strong, healthy growth and exceedingly free flowering habit. The buds are large on strong stiff stems. Color is a lovely shade of pink, striped and mottled in a most unique manner with intense crimson, and elegantly colored with rich golden amber at center and base of petals. It makes beautiful buds, and the flowers are extra large, very sweet and of great depth and substance. A most charming variety. Each 15c.

MARECHAL NEIL.—Very bright, rich golden yellow; very large, full and perfect form; of vigorous climbing growth and a free bloomer. Unquestionably the finest of all Tea Roses. We have seen greenhouses devoted to a single plant of this variety, from which it was not unusual to cut 500 to 2,000 flowers per day. Each 15c.

RED MARECHAL NEIL.—Identical with its noted namesake but of carmine red color. Beautiful and fragrant. Each 20c.



METEOR.

CHAMPION OF THE WORLD.—The champion bloomer, commencing to bloom as soon as potted from the propagating bench, and continues in the greatest profusion all the time. It is claimed that one plant of it will produce more flowers during the year than ten plants of any Tea rose. Blossoms are perfectly double to the center, of good shape, color a degree of loveliness which few roses can equal, rich, deep, rosy pink. Each 15c.

PSYCHE.—A seedling of the famous Crimson Rambler. Blooms in clusters of from 8 to 25 flowers each, of a delicate rosy pink shade, suffused salmon and yellow at the base. Of vigorous climbing habit. Each 15c.

GLOIRE DE DIJON.—A climbing variety for indoor growing; amber color and very large. Each 15c.

MADAM HOSTE.—Creamy white, with amber center, a prodigious bloomer both summer and winter. Each 10c.

ISABELLE SPRUNT.—Bright canary yellow. Each 10c.

LIBERTY.—A grand new Hybrid Tea of warm, deep, rich crimson color. Flowers of immense size. Each 20 cents.

ADMIRAL DEWEY.—Flowers are extra large, full, double and globular in form, with heavy thick petals. Color of flowers is a delicate shade of pink, delightfully fringed. A strong grower and free-flowering rose. Each 15 cents.

XAVIER OLIVO.—Handsome velvety black shaded amaranth. Each 15c.

BARONESS ROTHSCHILD.—A magnificent rose of rich satiny pink. Each 15c.

CLIMBING METEOR.—Might almost be called a "Perpetual Blooming Climbing Jacqueminot;" buds exquisite, flowers large, beautifully shaped, rich, dark, velvety crimson. Each 15c.

RAINBOW.

SUNSET.—This exquisite orange yellow variety is one of the finest Tea Roses grown. The flowers are large and double. Fragrant, strong growing and free flowering. Each 10c.

GOLDEN GATE.—This is a beautiful free blooming and healthy Tea Rose that we can recommend to everyone desiring large flowers, long stems and continuous bloom. The buds are long and pointed, opening out into a well shaped flower of creamy white, delicately tinged with golden yellow and bright rose color. Each 10c.

FAIRY ROSES.

Small roses which are marvels of grace and beauty; bloom in clusters of 25 to 50 on a single stem.

MOSELLA.—A choice novelty. Flowers very double, ball-shaped and open like a Camellia flower. The petals are tinted white, on beautiful light yellow ground extending to the middle of petal. Each 15c.

PRINCESS BONNIE.—Another charming novelty; flowers large and perfectly formed; a rich, solid crimson. Each 10c.

LITTLE WHITE PET.—Very handsome pure white; perfect shaded. Hardy. Each 10c.

MIGNONETTE.—Clear, soft pink passing to white tinged with pale rose. The flowers full and regular, perfectly double, delightfully perfumed. Each 10c.

CLOTHILDE SOUPERT.—This hybrid polyantha Tea rose has become one of the most popular. Flowers full double, pure white shading to a center of rosy pink. Blooms constantly. Each 10c.



CHAMPION OF THE WORLD.



MOSELLA FAIRY ROSE.

BEAUTIFUL HARDY ROSES.

The most satisfactory of all flowering plants, making a permanent improvement which is constantly growing in value. Nothing is more beautiful than a nice hedge of these roses. In the newer varieties the season of bloom is extended throughout the summer although the grandest show of flowers is still made in the spring and autumn. The cheaper roses below named are growing plants, from pots, while the larger sizes are *strong, hardy, out door grown plants* which have been kept dormant. These can be planted outside early in 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. We can supply these from the time this catalogue is issued up to May 15. The following varieties have proved to be the most satisfactory and we have discarded many varieties largely advertised by others, believing that it is to our customers' interest to plant only the best. REMEMBER WE PREPAY THE POSTAGE or express charges on all these plants at price named.

GLORIE DE MARGOTTIN.—This grand new Hybrid Perpetual Rose is believed to be one of the very finest varieties of recent years. Flowers very large, of symmetrical form, somewhat globular, very full and deliciously scented. The color is a clear dazzling red. Certainly one of the most brilliant Roses ever seen. It is a free bloomer and vigorous grower, and is recommended for great beauty and wonderful color. Each 15c. Dormant 30c.

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, makes magnificent buds, very hardy, a constant bloomer. Each 15c. Dormant 35c.

GENERAL JACQUEMINOT.—One of the grandest roses in existence. Sure to delight every lover of the beautiful, as nothing can surpass them in beauty. Color a rich dazzling scarlet, shaded with deep, velvety crimson, making a superb glowing color. Flowers large; free bloomer. Each 15c. Dormant 30c.

LA FRANCE.—Peach blossom pink, the model garden Rose; blooms all summer. Undoubtedly the most perfect type of a cut-flower rose. No variety surpasses it in delicate coloring—silvery roses, shaded pink with satiny sheen. Each 15c. Dormant 30c.

BARON DE BONSTETTEN. *The Black Rose.*—Has splendid large flowers, very double and full. The color of this rose is a rich dark red, passing to a deep velvety maroon, nearly black. It is highly scented and very beautiful. Each 15c. Dormant 35c.

MADAME PLANTIER.—Flowers borne in great profusion, pure white, hardy as an oak, and as certain to grow as grass. Blooms in June. Each 15c. Dormant 30c.

PERSIAN YELLOW.—Perfectly hardy; flowers double and full, deep golden yellow in color. Blooms very freely in June. Dormant 35c.

ENGLISH SWEET BRIAR.—(Lord Penzance Hybrids)—Flowers bright pink, white, crimson and yellow. They are single, but the exquisite fragrance of the flowers, leaves and young branches in spring frequently perfume a whole neighborhood. Dormant 30c. small 15c.

JUBILEE.—One of the grandest varieties. Color dark crimson shaded velvety maroon. Each 15c. Dormant 35c.

JOHN HOPPER.—Most reliable and satisfactory Rose; flowers large, regular and full, brilliant rose, shaded rich crimson; very sweet. Each 15c. Dormant 30c.

MRS. JOHN LAING.—Constant bloomer from spring until after hard frost, most exquisite shade of silvery pink. Each 15c. Dormant 30c.

PAUL NEYRON.—Double flowers of shining carmine-pink, largest rose known, perfectly grand. Each 15c. Dormant 30c.

ULRICH BRUNNER.—Rich, glowing crimson scarlet; flowers exquisite shape. Each 15c. Dormant 30c.

GENERAL WASHINGTON.—Brilliant crimson, very rich and beautiful; large, perfectly double and free bloomer. Each 15c. Dormant 30c.

DUCHESS OF ALBANY.—Deep pink, very large and full, highly perfumed; of strong, healthy growth, blooms abundantly. Each 15c. Dormant 30c.

COQUETTE DES ALPS.—One of finest Hybrid Perpetuals; flower large, full, finely formed, pure white, sometimes faintly tinged with pale blush; profuse bloomer. Each 15c. Dormant 30c.

MOSS ROSES.—Acknowledged queen of all roses; moss-covered stems and buds show off delicate loveliness of blossom to great advantage. Hardy, bloom freely, of easiest culture and succeed on any soil. Can furnish crimson, pink or white in strong dormant plants at 30c each.



GENERAL JACQUEMINOT ROSE.

DINSMORE.—We cannot praise this enough. Always in bloom, with large, finely imbricated flowers of a rich, bright crimson. Rather bushy and compact growth. Each 15c. Dormant 30c.

MAGNA CHARTA.—Dark pink; very pretty. Each 15c. Dormant 30c.

SET OF RAMBLER ROSES.

CRIMSON RAMBLER.—This beautiful rose is truly a most desirable climbing variety. When the shoots are fastened down or it is grown in bush form, marvelous heads of bloom are the result. As a pot plant it is unequalled for decorative purposes. It is exceedingly hardy. Flowers with which the plant is covered in spring are produced in large trusses of pyramidal form and of the brightest crimson color. The blooms remain on the plant for a great length of time without losing their brightness. Each 10c. Strong dormant plants 30c.

YELLOW RAMBLER.—Grand new variety like above except that it is golden yellow and is one of the most satisfactory sorts. Each 15c. Dormant 30c.

WHITE RAMBLER.—Quite similar to above except that it is pure white, very fragrant. Each 15c. Dormant 30c.

PINK RAMBLER.—Of vigorous climbing habit with flowers of shining rose color. Each 15c. Dormant 30c.

SPECIAL.—Set of four Ramblers for only 40 cents or in large dormant plants for only 90 cents prepaid.



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CRIMSON RAMBLER ROSE.

HARDY CLIMBING ROSES.

MARY WASHINGTON.—A 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 after his mother, Mary Washington. The original bush can yet be seen at Mt. Vernon. Each 15c. Dormant 30c.

MANDA'S TRIUMPH.—A beautiful white climbing rose. It is a very rapid, sturdy grower, and bears a profusion of double, pure white, beautifully imbricated flowers; elegant for cemetery. Each 15c. Dormant 30c.

PINK ROAMER.—Single; flowers pink with white center. Strong, vigorous grower; quite similar to the White Memorial. Each 10c. Dormant 30c.

BALTIMORE BELLE.—Very double blush white, in large clusters, completely enveloping the whole plant with bloom. Each 10c. Dormant 30c.

PRAIRIE QUEEN.—An old standard variety, and one that will always be popular. Bright rosy red, large, compact and globular flower. Each 15c. Dormant 30c.

RUSSEL'S COTTAGE.—Dark crimson, very double and full; extra strong, rampant grower. Each 15c. Dormant 30c.

SEVEN SISTERS.—Crimson, changing all shades to white; blooms in clusters. Each 15c. Dormant 30c.



MARY WASHINGTON ROSE.



MOSS ROSE.

HARDY SHRUBS.

If you have a home of your own better add permanent improvements by setting out an assortment of Hardy Shrubs. It costs but little to begin with and you will in a few years have a place to be proud of. There is nothing which so quickly, and for so little cost, adds so much to the beauty, cheerfulness and homelike appearance of a place as an assortment of hardy shrubs. Our price is for strong, healthy plants sent by mail or express prepaid.

LILY OF VALLEY SHRUB. (*Andromeda*).—One of the most beautiful flowering shrubs and one which is very highly prized and sought after in Europe where they consider it one of the finest of all American plants. It is of dwarf, compact growth (2 to 3 feet high) the foliage is a rich dark green similar to Privet and in June it is loaded with a great profusion of spikes of bloom three to eight inches in length. The flowers are pure waxy white, drooping like little bells and bear a great resemblance to Lily of the Valley. It is almost an evergreen, but should be protected with straw during coldest winter weather. Each 40c.

AZALEA MOLLIS.—Showy, hardy plants, used extensively in parks and public grounds. The brilliancy of their yellow, orange and carmine flowers is not approached by anything in the line of hardy shrubs. Excellent for the front of borders or clumps of taller growing shrubs. Each 35 cents; larger size 60 cents.

ALTHEA. (*Rose of Sharon*).—Strong, erect-growing shrubs of the easiest culture bearing a profusion of large, showy flowers in the fall when but few other shrubs are in bloom. We can furnish either the Double White, Double Red or Double Variegated at 25c each.

CALYCANTHUS.—A beautiful sweet-scented shrub; flowers purple, quite double, exquisitely fragrant and borne in profusion during the entire season. Each 20c.

FLOWERING ALMOND.—One of the earliest flowering and finest shrubs. Loaded with double pink and white flowers which attract a great deal of attention, and no one can help admiring them. Either color 35c.

SNOWBALL.—A well known and popular shrub, which grows to large size, covered with dense, spherical clusters of white flowers, which gives it its name. Each 25c.

JAPAN SNOWBALL.—A valuable improvement on the above, the flowers being smaller and more numerous, there frequently being as many as twenty balls on a stem 18 inches long. Balls all face upwards and thus better show their beauty. Each 35c.

LILAC, Persian.—A well-known, strong-growing shrub, bearing large, fragrant clusters of purple flowers early in spring. Each 20c.

LILAC, White.—Like above but has white flowers, making it more desired by some. Each 25c.

WEIGELA.—Superb, large trumpet-shaped flowers in June and July, of all shades from white to dark red. It is robust but graceful in habit of growth, and blooms with a degree of profusion that is truly wonderful. Either as a single specimen or in groups it is certainly one of the most effective and most satisfactory shrubs we know of. Each 25c.

SWEET PEA SHRUB.—The shrub of shrubs for bouquet makers. When it is in bloom it is really but a big bouquet itself, so full is it of dainty sprays of large, lovely rose-pink blooms which are of the size and shape of the most lovely sweet peas. Each 35c.

SAMBUCUS AUREA.—The beautiful golden leaved Elder, so showy on lawns. Each 25c.

FORSYTHIA. (*Golden Bell*).—A fine, hardy shrub of weeping or pendulous habit; glossy, deep green leaves and bright yellow flowers. Blooms early in spring. Each 20c.

SPIRAEA VAN HOUTTI.—The hardiest of all the Spiraeas. The bushes form fine, compact clumps. The pure white flowers are borne in such masses that they form great plumes, drooping gracefully, giving the clumps the appearance of "a snow bank of white bloom." Each 25c.

DEUTZIA, PRIDE OF ROCHESTER.—By far the handsomest variety of Deutzias. It is a very desirable shrub of strong, hardy growth with nice luxuriant foliage and bearing an abundance of beautiful racemes of double, pure white flowers. Must be seen to be appreciated. Every one of our customers should have at least one of these choice shrubs in their yard, and we have made the prices so low that all can purchase. Strong plants. Each 25c.

SPIRAEA PRUNIFOLIA. *Bridal Wreath.*—Very beautiful; erect habit of growth; flowers pure white, borne in great profusion. Each 20c.

SPIRAEA, ANTHONY WATERER.—A new and remarkably valuable and distinct variety. It outshines all other spiraeas in brilliancy of color, being of a bright crimson; it is of dwarf and denser growth, never exceeding 15 in. in height and a profuse and persistent bloomer the entire summer and fall. Ea. 25c.

SYRINGIA. (*Mock Orange*).—A handsome foliaged shrub bearing immense masses of pure white, intensely fragrant flowers in June. Each 25c.

PURPLE FRINGE. (*Snee Tree*).—Have very curious blooms which when covered with dew greatly resemble a cloud of smoke or mist. Each 25c.

DWARF POMEGRANATE.—A beautiful shrub bearing large double bright scarlet flowers. Very popular in the south, but must be kept in the cellar over winter in northern states. Each 25c.

XANTHOCERAS.—A pretty shrub producing long racemes of beautiful, pure white flowers with copper-colored streaks at base of petals. When plant blooms, in May, flowers are so numerous as to almost conceal foliage. Foliage handsome light green resembling Mountain Ash. Each 25c.

TAMARIX.—One of finest additions to our list of hardy shrubs. Foliage light, feathery, graceful; sage blue in color; very ornamental; blooms through summer and autumn. Does equally well in city yards where exposed to smoke and dust. Each 15 and 25 cents.



AZALEA MOLLIS.

ELEAGNUS LONGIPES.—A very desirable nearly evergreen shrub; the branches are thickly studded with tiny brown dots or scales, giving a rusty appearance, contrasting strikingly with the light hue of the foliage, which is silvery on the under surface with little white scales. The abundant crop of orange-colored fruit dotted with small ferruginous specks, an attractive feature during summer; 25c ea.

HYDRANGEA PANICULATA GRANDIFLORA.—The grandest as well as the most popular of all shrubs, and hundreds of thousands of them are sold every year and the demand is constantly increasing. Unsurpassed for the lawn, as a hedge or for cemetery planting. It readily attains a height of 5 to 7 feet; hardy in all localities, needs no protection in winter; blooms the first and every season in July and August and continues in bloom for two or three months, the flowers are massive, cone-shaped, often measuring 10 inches in length, and have a pleasing variation of color, changing from the original pure white to pink, and finally a beautiful, rich coppery red. Each 15c, doz. \$1.25; Large dormant plants each 35c, doz. \$2.50.



HYDRANGEA PANICULATA GRANDIFLORA.



PRIDE OF ROCHESTER DEUTZIA.



LILY OF VALLEY SHRUB.

HARDY VINES.

The following varieties are hardy and very satisfactory. They improve in size and blooming qualities year after year. We prepay the postage or express charges at these prices.

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.

CLEMATIS, 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. Perfectly hardy; blooms the entire season from July to October, bearing beautiful and lasting flowers. Small plants 25c each, strong field grown 50c each. Extra large three year old roots \$1.00 each.

CLEMATIS, HENRYII.—This may be briefly described as a white flowered Jackmanii. It is the finest of all the white sorts the same size as Jackmanii. Each 25 cts; extra large strong plants 75c, ea.

CLEMATIS, MAD. EDOUARD ANDRE.—An entirely distinct and beautiful new variety, being the nearest approach to 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 25c. Extra large strong plants 75c each.

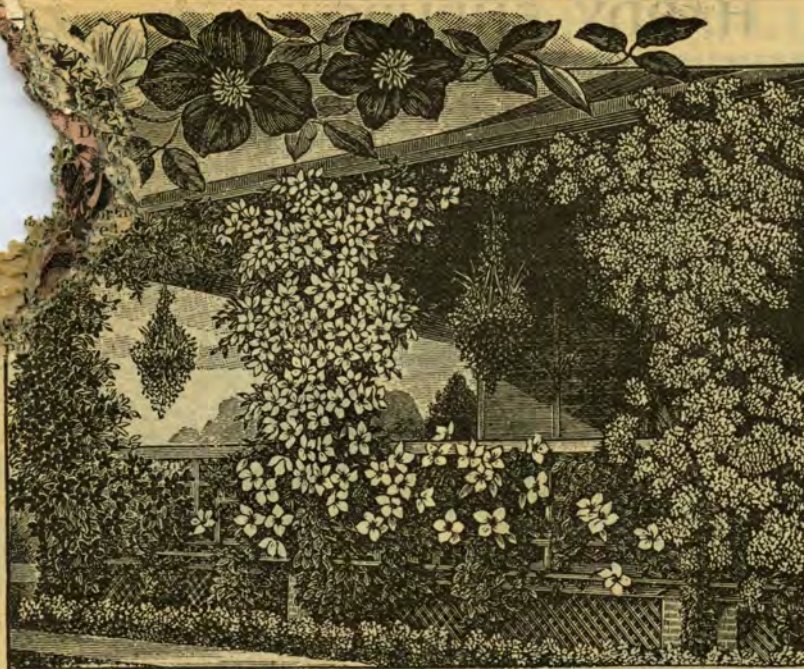
CLEMATIS, PANICULATA.—This small-flowered variety of Clematis is one of our most beautiful, hardy fall blooming vines. The flowers which are of pure snowy white, are produced in immense clusters fairly covering the plant with a mass of fleecy white. They have a delicious fragrance. The plant is of extreme rapidity of growth. Each 20 cts. Large, extra strong plants each 35 cts.

CLEMATIS, GRAVEOLENS.—A somewhat rare variety which greatly resembles the *Paniculata* in shape and size of flower but does not bloom as freely. Flowers yellow. An attractive plant which should become more popular. Each 35 cts.

CLEMATIS, COCCINEA.—A charming variety of Clematis. Flowers are bell-shaped and of a brilliant coral red color. A rapid grower and free bloomer, flowering from June until frost. It is a herbaceous perennial, growing about 12 feet high. Each 25c.

VIRGIN'S BOWER.—A very handsome variety of the Clematis, growing to a height of 20 feet and making a nice shade for porches, arbors, etc. The first season the plant grows 10 to 12 feet and it is covered with thousands of pure white flowers, which are delightfully fragrant, and it blooms from July to September. The vine is perfectly hardy, rapid growing, graceful, and will succeed everywhere. Each 15c.

COLLECTION A nice plant of each of the above seven kinds of Clematis for only \$1.15 postpaid. A great bargain. Regular price \$1.70.



CLEMATIS JACKMANII.

CLEMATIS HENRYII.

CLEMATIS PANICULATA.

APIOS TUBEROSA.—A valuable hardy tuberous-rooted climber, resembling in miniature the common 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 near together to produce a mass of vines and flowers. Each 5c, doz 40c.

AMPELOPSIS-VEITCHI. (*Boston Ivy*).—This is one of the finest climbers we know of for covering walls, as it clings firmly to the smoothest surface. The leaves, which at first are of an olive green color, change to bright scarlet in the autumn. This variety becomes more popular every season, and is without question one of the very best climbing plants for covering brick, stone or wooden walls, that can be grown. Each 15c; Large plants 25c.

BIGNONIA RADICANS. (*Trumpet Creeper*).—Another good, old fashioned hardy climber. It has clusters of large, trumpet-shaped, crimson-orange flowers. Grows in almost any soil and under trying conditions; hardy. Each 10c. Large plants 25c.

AMPELOPSIS SAULI.—A novelty in the Ampelopsis, which is a much more rapid grower than almost any other sort and has more handsome foliage. It is a decided novelty and very desirable but we do not think that it will prove hardy in the far north. Each 20c, large size 35c.

CINNAMON VINE.—Perfectly hardy, a rapid grower, has beautiful heart-shaped bright green leaves, and clusters of white flowers. Large tubers. Ea 10c, doz. 75c.

CALYSTEGIA.—An excellent rapid growing hardy vine coming up from the roots each year. Bears a profusion of beautiful double pink flowers. Ea. 15c, doz. \$1.50.

CHINESE MATRIMONY VINE.—A vigorous, hardy plant which sends out numerous side branches, so that it covers a great amount of space. Bright, purple flowers succeeded by scarlet berries. Each 15c, doz. \$1.25.

BLUE CHINESE WISTARIA.—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 is magnificent. Each 20c.

WHITE WISTARIA.—Like above but has pure white flowers and is a lovely climber. It is a strong vigorous grower and flowers are freely produced in long pendant clusters. Each 25 cents.

WOODBINE. (*Virginia Creeper*).—A strong, rapid grower; foliage large dark green; in autumn bronze and bright crimson. This is an old favorite and quite common in most localities. Valuable for covering back porches, out-buildings, arbors, etc. Each 15 cents, dozen \$1.25.

RED CORAL HONEYSUCKLE. (*Scarlet Trumpet*).—There is nothing prettier than this; the foliage is pretty, neat and clean; the bright red, trumpet-shaped, fragrant flowers nearly continuous. Each 25c.

HALL'S JAPAN HONEYSUCKLE.—A constant bloomer; flowers pure white changing to yellow, fragrant; for trellis or pillar. Each 20c.

HARDY BLUE SOLANUM.—A beautiful perennial vine of rapid growth. The handsomely cut foliage makes a beautiful shade for porch or arbor and is also desirable to train along fences, etc. It is covered during the summer months with hundreds of clusters of blue flowers, brightly set off with golden stamens, clusters measuring 15 inches in circumference, and often attaining a length of 12 inches. It is a superior plant of ironclad hardiness. The flowers are succeeded by bright scarlet berries. When you consider its handsome foliage, beautiful flowers and berries and hardiness it is difficult to find a more satisfactory climber. Strong, one-year-old plants of above 25c each; doz. \$2.00.



APIOS TUBEROSA.



HARDY PERENNIAL PLANTS

It is really wonderful the immense demand which there has been during the past year in our trade in this line multiplying fourfold every year. Our customers are learning to require less care and are more satisfactory with ordinary culture than most other classes. When once set out they bloom year after year, the flowers really becoming better as they grow older. These varieties are all hardy, the tops dying down every winter, again in the spring. It is well to cover with leaves or litter after ground is frozen, postage on all of these and you may select \$1.25 worth at the single rate for \$1.00.

ACHILLEA, The Pearl.—Beyond question the finest of all plants for cemetery flowers are good sized, forming a beautiful plant eighteen inches high, completely pure white flowers from July till frost. We cannot too highly recommend this for cutting. Our cut shows one of the numerous heads of bloom with which the plant is covered. 10 cents, dozen 75 cents.

ACHILLEA MILLEFOLIUM ROSEUM.—Finely cut deep green foliage. Bears handsome bright pink flowers in heads or umbels. Well worth growing, both as a border and for cutting. 15 cents each, \$1.50 per dozen.

AQUILEGIA.—These beautiful flowers, often called Columbines, are always beautiful and attractive, reminding one of the woods. We have many handsome colors in our mixture. 15 cents, dozen \$1.25.

BLUE BELLS.—No one can help loving the beautiful "Blue Bells of Scotland" and they are just as beautiful when grown here. Poets have sung their praises more than almost any other flower. Each 15c, dozen \$1.25.



PEARL ACHILLEA.

BABY'S BREATH or MIST (*Gypsophila Paniculata*).—Beautiful old-fashioned perennial, possessing a grace not found in any other perennial, and attracting the eye of everyone. When in bloom it forms a symmetrical mass 2 to 3 feet in height, of minute pure white flowers, giving it a beautiful gauze-like appearance. For cutting purposes it is exquisite, especially in combination with high-colored flowers, and some lovely effects can be produced with it. 10c ea.; doz. \$1.00.

CRIMSON EYE HIBISCUS.—This elegant Hibiscus is a robust grower, with dark red stems and foliage. The flowers are immense in size, often measuring twenty inches in circumference. The color is of the purest white, with a large spot of deep velvety crimson in the center of each flower. It will succeed anywhere and is perfectly hardy. Each 15c, doz. \$1.25; extra large 30c each.

LILY OF THE VALLEY.—A bed of these planted in some shady nook will prove satisfactory as their pure white flowers are always desirable. 4 for 15c, doz. 35c.

CANTERBURY BELLS.—We can furnish both double and single in assorted colors. Each 15c, dozen \$1.25.

JAPANESE IRIS.—(*Kaempferi*).—These magnificent Iris are among the most beautiful of our summer flowering plants and are marvels of elegance and stateliness. Think of a plant sending up to a height of three feet a dozen flower spikes, each spike bearing two to four blossoms eight or ten inches across, and of the most delicate and beautiful colors, markings and combinations. Think of a bed of all colors—white, indigo, violet, lavender, mauve, sky blue, royal purple, blush, yellow, etc. Your imagination can conceive of nothing grander, and they are even more grand and beautiful than your imagination can portray. Once planted in your garden they are a joy for a lifetime, blooming profusely in June and July. Double and single mixed. Each 15c, doz. \$1.25.

GERMAN IRIS.—The true "Fleur-de-Lis," the national flower of France; perfectly hardy—grow and bloom luxuriantly, particularly in moist situations. Mixed colors. Each 10c, doz. 85c.

HOLLYHOOKS.—We have the choicest varieties of these stately plants; mixed colors. Strong plants each 20c, doz. \$2.00.

LYSIMACHIA.—A small creeping plant sometimes called "Creeping Jenny;" quite useful for borders and cemetery planting, forming a close mat of green foliage. Each 10c, doz. 75c.

GAILARDIA GRANDIFLORA.—These are among the showiest and most effective of hardy perennial plants; beginning to flower in June, they continue one mass of bloom the entire season. They will thrive in almost any position or in any soil, but respond freely to liberal feeding. Being perfectly hardy they require absolutely no protection, taking care of themselves. The flowers are large, from 2½ to 3½ inches in diameter. They are produced on long stems, and are excellent for cutting, and of the most gorgeous coloring. The center is a dark reddish brown, while the petals are variously marked with rings of brilliant scarlet crimson, orange and vermilion, and often a combination of all these colors in one flower. Each 15c, doz. \$1.50.

PARDANTHUS. (*Blackberry Lily*).—Quite curious and handsome. Flowers orange color spotted with brown, about two inches in diameter. The blossoms are followed by seed clusters exactly like a blackberry in size, shape and color. Each 10c, 3 for 25c, doz. 85c.

MONARDIA DIDIMA. (*Oswego Tea*).—Flowers bright scarlet, produced in spikes. Each 10c, doz. 75c.

MYRTLE.—A handsome trailing plant largely used for cemetery planting. Has beautiful, glossy dark green leaves forming a mat over the surface of the ground. Flowers heavenly blue. We know of one lawn made of these plants which is very showy and attracts the attention and admiration of every passer-by. Each 10c doz. 75c, \$4.00 per 100.

GLECOMA. (*Variegated Ground-Ivy*).—The foliage is a bright green, marked with pure white, and has a refreshing fragrance similar to mint. Graceful and beautiful for hanging baskets. Entirely hardy when planted out and makes an ornamental, dense mat on the ground. Each 10c.

IBERIS SEMPERVIRENS. (*Perennial Candytuft*).—A dwarf plant producing large clusters of handsome flowers. Each 20c.



CRIMSON EYE HIBISCUS.

NEW GOLDEN COREOPSIS. (*Lanceolata*).—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, and until cut down by severe freezing weather, large flowers of bright golden yellow. The flowers, which are of graceful form, are invaluable for cutting for decorative purposes; it is easily grown, is perfectly hardy and succeeds in almost any position and after once planted takes care of itself. Ea. 15c, dozen \$1.25.

GRASS PINKS.—The hardy and pretty clove-scented flowers which our grandmothers loved. Their fragrance is quickly noticed by anyone passing by the yard where they are grown, before seeing the flowers. Flowers are double, semi-double and single, and range from pure white to dark pink and red. Each 15c, dozen \$1.25.

ORNAMENTAL GRASS.—The common striped grass—no two leaves alike. Pretty for clumps or borders. Each 10c, dozen 75c.

LATHYRUS. (*Perennial Sweet Peas*).—A hardy perennial which blooms all summer. A good plant for cutting. Each 20c.



BLACKBERRY LILY.



GAILARDIA GRANDIFLORA.

SUBULATA. Moss Pink.—One of the finest of low, turfy-growing plants, fine for carpet-trees, around rock work, edging beds, etc. Early in spring is very showy with its cloud pink blossoms. We do not understand why this is not more widely grown, for it is perennial and will care for itself. Each 10c, dozen 50c.

PERENNIAL PHLOXES.—These are among the most useful and desirable of our plants, and should be planted largely. They succeed in any position, and can be raised, either as single specimens in the mixed border, or as large clumps or beds in lawn. Our collection embraces best new and old varieties mixed. Each 10c, doz. \$1.00.

GREEN PHLOX.—The most beautiful pure white variety ever sent out. The truss-are of immense size and each floret is large and beautifully fringed or feathered. Each 10c, doz. \$2.25.

MOSERIANUM.—One of the very best herbaceous plants of recent introduction. The plant is free and graceful; it produces long, slender stems, drooping, apparently without the flowers and buds, although the flowers face so none of their beauty is lost. Free flowering, of large size, measuring from 2 to 2½ inches in diameter, in color a pale yellow, which is rendered still more effective by numerous yellow stamens and crimson anthers continuously the entire season. Each 15c, doz. \$1.50.

THUS MULTIFLORUS PLENUS.—A plant that should be in every garden and one that gives entire satisfaction. The flowers are from three to four inches in diameter, as double as a double Dahlia, and cover the plant from the ground to the top. Color a bright golden yellow. It should have a sunny position and rich soil. Each 10c; dozen 75c.

DAY LILY. White.—Pure white bell-shaped flowers borne in large clusters. This is sometimes quite scarce but we have a good supply this year. Each 15c, doz. \$1.50.

DAY LILY. Blue.—Like above only flowers are of a lovely blue color borne on tall spikes. Each 15 cents, dozen \$1.25.

DAY LILY. Variegated.—Charming variety with beautifully mottled dark green and pure white leaves, lilac flowers. Each 20 cents, doz. \$2.00.

LEMON LILY. Hemerocalis Florida.—This handsome flower is not a true lily as the root is of different shape but flower is very much like *Lilium Speciosum* in form about 3 inches in diameter. A clear lemon yellow, very bright, pleasing appearance. Has most delightful lemon fragrance; each flower stem bearing 7 to 20 flowers; hardy. Each 15 cts., dozen \$1 50.



RUDBECKIA.



DOUBLE HARDY PÆONIES.

MIXED PÆONIES.—Many sorts, but mostly pink. Each 20c; doz. \$1.65.

YUCCA FILAMENTOSA (Adam's Needle).—A tropical looking plant with long, narrow leaves that remain green the entire year. It grows in clumps and throws up a flower stalk from three to four feet in height, from which hang from 100 to 300 creamy white, bell-shaped flowers. It blooms a long time. Strong 2-year plants. Each 20c, doz. \$1.75.

LILIES.—See descriptive list with bulbs.

SAPONARIA.—An old fashioned perennial with pink flowers. Often called *Bouncing Betsy*. Each 10c.

VIOLETS.

Of all delightful perfumes that of Violets is the most delicate and pleasant and places the modest little blue flowers among our greatest favorites. Violets grow and bloom freely if given a cool situation, but will not succeed in a warm place. Should be well covered to protect in winter.

SWANLY WHITE.—Unquestionably the finest double variety in existence, and a decided acquisition. The plants are of vigorous growth, producing a great many of the pure snowy white double flowers. It has such a delightful odor that it has been called the "Queen of Fragrance." Each 10c, doz. \$1.00.

MARIE LOUISE.—To contrast with the white we offer this, the finest double blue violet grown. Color deep violet blue, very fragrant, continual bloomer. It is of easy growth. Each 10c, doz. \$1.00.

CALIFORNIA.—Grand new single variety. A sturdy grower, dense, heavy foliage, free from disease. Flowers fragrant, a clear, unfading, violet purple. Flowers large and borne on stems ten to twelve inches long. Hardest of all. Each 10c, doz. \$1.00.



PHLOX SUBULATA OR MOSS PINK.

ORANGE LILY. Hemerocalis Dermorteri.—Similar to Lemon Lily but of a fine orange color. Each 15 cents; dozen \$1.50.

VIOLETS.—No one can help liking Violets, as the love for them began in childhood when we gathered the wild violets or "Johnny-jump-ups" in the woods. The new varieties are much improved having very large and sometimes double flowers. We have several choice kinds. See page 83. Each 10c, doz. \$1.00.

RUDBECKIA, GOLDEN GLOW.—A glorious new hardy plant that should find a place in every garden. It is of fine habit, vigorous growth, with early continuous and immense blooming qualities. It will be found excellent also for cut flower purposes. The stems are long and gracefully poised. The foliage is abundant and ornamental. It attains a height of from six to eight feet and a small plant set out in the spring will produce hundreds of blossoms during August and September, each one as large as a fair sized chrysanthemum. Thousands of flower lovers have admired this plant on our place. It is of easiest culture and sure to please all. Nice for a screen row at back of lawn. Price 10c, doz. \$1.00.

DISCENTRA SPECTABILIS.—The old Bleeding Heart, the flower of our childhood, which is as lovely to-day as then, though not so common. Bears in early spring long chains of pendulous bloom of exquisite beauty. Each 20 cents.

DELPHINIUM FORMOSUM. Hardy Larkspur.—This is certainly one of the handsomest and most satisfactory of all the hardy herbaceous plants and should be planted extensively, even in the smallest garden; its long spikes of bright blue flowers are produced continually from June until frost. 20c each; \$1.75 per dozen.

DOUBLE PÆONIES.

These hardy herbaceous Paeonies are again becoming quite popular and some of the varieties are truly magnificent, almost rivaling the rose in brilliancy of color and perfection of bloom. Some of the varieties are very fragrant. They are perfectly hardy, require little or no care, and produce larger and finer blooms when well established. During the past few years there has been a great demand for these in the east and some wealthy persons have 600 or 700 varieties on their home place. There are some grand new sorts recently imported from Japan and Europe. The following kinds will please every one:

FRAGRANS.—Large double flowers of a rich pink color, exquisite fragrance. Each 25c.

DOUBLE WHITE.—Pure and fragrant; enormous size; very double. Always a great call for these and they are scarce. Each 35c.

CRIMSON.—The true, old, large, double crimson scarlet Pæony of our grandmother's garden. Flower of rich dark color. Each 35c.

ELEGANTISSIMA.—Outside petals pink, center bright straw color; very beautiful. Each 25c.

PURPLE CROWN.—The finest double purple variety, shaded crimson. Each 35c.

HUMEL.—The largest variety in existence; handsome light rose color; late. Each 25c.

One plant each of the Five Pæonies for \$1.00



SWANLEY WHITE VIOLET.



YUCCA FILAMENTOSA.



CUMBERLAND RASPBERRY.

GRAPES.

CAMPBELL'S EARLY.—This is considered by far the best early black grape in existence. It is very early and productive. It is claimed that it will produce three times as much fruit to the vine as Moore's Early and ripens equally as early. Clusters large and usually shouldered. Berry very large, often over an inch in diameter, flavor rich and sweet. Hangs on the vines well. Our stock is direct from the introducer and true to name. 2-year No. 1 each 50c; \$4.50 per dozen postpaid, 1-year No. 1 plants each 30c; dozen \$3.00 prepaid.

MOORE'S EARLY.—Splendid early variety two weeks earlier than Concord. It ripens its entire crop in a short time and commands a high price. Each 25c, dozen \$1.75 postpaid; by express \$5.00 per 100.

NIAGARA.—Best white grape. Each 25c, dozen \$1.75, postpaid; by express \$5.00 per 100.

OTHER VARIETIES.—Concord, the old standard; Worden; Improved Concord, earlier and larger; Agawam and Brighton, best red varieties; Golden Pocklington, golden yellow, any of above 20c each, \$1.50 per dozen postpaid; by express \$4.00 per 100.

CURRANTS.

POMONA.—The most productive and vigorous red currant ever introduced, ripens early, but remains on the bush longer than any other sort. Of remarkably fine quality. Each 20c, doz. \$1.75 prepaid.

FAY'S PROLIFIC.—One of the most prolific and of excellent quality. Each 15c, dozen \$1.25 postpaid.

WHITE GRAPE, RED DUTCH AND VICTORIA.—Each 15c, dozen \$1.00 prepaid.

TREES.

The following are too large to mail. We deliver, carefully packed, on cars, but purchaser pays freight or express charges.

APPLES—Ingram and Akins Red are the two best newer sorts of winter apples.

INGRAM—Is from the seed of Rawles Janette but is larger; tree very productive; valuable for a long keeper. Each 35c, \$3.00 per dozen.

AKINS RED—Tree hardy, thrifty and a great bearer. Medium to large, flesh crisp, tender and juicy. One of the finest winter apples ever introduced. Valuable for home or market. Keeps till May. Each 35c, doz. \$3.00.

OTHER STANDARD VARIETIES.—Grimes Golden, Gano, Iowa Blush, Duchess, Red June, Ben Davis, Benoni, Jonathan, Missouri Pippin, Roman Stem, Wolf River, Wealthy, Walbridge, Winesap, and other standard sorts, 4 to 6 ft. Each 25c, doz. \$2.50.

CHERRIES.—Early Richmond, Montmorency, Wragg, Dyehouse and others. Each 50c; doz. \$4.50.

PLUMS.—TATGE—A new plum of the Domestic type of the Lombard family. Fruit large and of superior quality; is immensely productive; don't fail to get a Tatge. We offer them at 60c each, dozen \$6.00.

AMERICAN—Wolfe, Hawkeye, Wyant, DeSoto and Stoddard. 50c each; dozen \$4.50.

EUROPEAN OR JAPANESE—Burbank, Abundance, Lombard and German Prune. Each 50c; dozen \$5.00.

PEACHES.—Crosby, Champion, Bokara and Elberta. Each 30c; dozen \$2.75.

If you desire to purchase any thing in the line of trees, send list of needs and we will quote you our best prices.

CLYDE (s).—One of the most valuable varieties and planted more largely throughout the west the past two years than any other sort. Gives universal satisfaction, strong grower, very productive and of excellent quality. Doz. 40c, 100 \$1.25, prepaid; by express 100 \$1.00, 1000 \$5.00.



CLYDE.

SMALL FRUIT PLAN

Nothing is more healthful than fruit, and nothing more easy. Most of our customers can spare room for a small bed of strawberries, a few rows of raspberries, blackberries, currants, grape fruits and what is more delicious than a dish of fruit from their own garden? Following prices are all for first-class fruit, fully packed and charges prepaid except where otherwise noted. Fifty or more of any variety at the 100 rate. Orders for small amount to at least 50c. Ask for special prices and send list of wants.

RASPBERRIES.

CUMBERLAND.—The largest raspberry grown in Pennsylvania, but has been tested throughout the state and given excellent results in Iowa. Many of the berries are three eighths of an inch in diameter. The berry is long, somewhat shaped, firm, good quality, ripens mid-season or somewhat earlier than the Gregg. Very productive and hardy. It will pay you to cure some of these plants. Price each 25c, doz. \$1.50 prepaid, by express \$4.50 per 100.

CONRATH.—Similar to Gregg, but about two weeks earlier, hardier, less subject to disease, more productive and equal in quality. It is being largely planted and gives general satisfaction. Each 15c, doz. \$1.00 postpaid. By express \$2.25 per 100.

REDFIELD.—A fine red variety introduced by us in 1895, and is now becoming one of the standard red sorts. Canes very vigorous and productive. Propagates from the tips. It holds together better than the Shafter, and is of superior quality. Each 20c, doz. \$1.25 prepaid; by express \$8.00 per 100.

WALLACE RED.—Considered by many to be the best flavored red raspberry grown. Is healthy and hardy; roots from tips, does not sucker; stands up well under heavy load. Commences to ripen about July 1st and lasts till August, making it one of the best for home use. Price, each 25c, doz. \$2.00 prepaid. By express \$4.00 per 100.

OTHER VARIETIES.—Gregg, Kansas, Ohio, Cuthbert and Shaffer's Colossal. Each 15c, dozen 65c, prepaid; by express \$2.00 per 100. Ask for prices in large quantities if desired.

BLACKBERRIES.

RATHBUN.—A new blackberry of recent introduction. Has been tested over a wide area and is said to surpass any blackberry yet introduced. Berries very large, of superior quality and an intense jet black. Propagated from tips like raspberries. Don't fail to try this variety. Each 20c, doz. \$1.25 prepaid.

ERIE.—Very productive, fruit large and of fine quality. Each 15c, doz. \$1.00 prepaid; by express \$3.00 per 100.

SNYDER and STONES HARDY.—Each 15c, dozen 75c, prepaid. By express \$2.25 per 100.

GOOSEBERRIES.

JOSSSELYN.—A new variety of gooseberry of superior merit. Very large, hardy, productive and free from mildew. Regarded the best of recent introduction. Be sure to secure one or more plants of this variety. Price 35c each; dozen \$2.75, prepaid.

PEARL.—One of the most prolific gooseberries known, very hardy, entirely free from mildew. Superior in size and productiveness to Downing. One of the best of recent introduction. Each 25c, doz. \$2.25 prepaid.

INDUSTRY.—The best English sort yet introduced in this country. Each 25c doz., \$2.25 prepaid.

DOWNING and HOUGHTON.—Each 20c, doz. \$1.25 prepaid.

STAWBERRIES.

SENATOR DUNLAP.—(s) Introduced in 1899 by Matthew Crawford. A medium sized berry of the Warfield type. Is hardy and will stand neglect better than any other berry. Is very productive and berries keep up in size throughout the season. A strong grower and makes numerous plants. Price, dozen 50c, 100 \$2.25 prepaid. By express, not prepaid, per 100 \$1.50; per 1,000 \$8.00.

BRANDYWINE.—(s) Large berry, bright color, quite firm, of excellent quality and of remarkably vigorous growth. Mid-season to late. Doz. 50c, 100 \$1.50 postpaid; by express not prepaid, per 100 \$1.00, 1,000 \$6.00.

PARKER EARLE.—(s) An excellent variety for family use. Requires rich soil and makes but few runners. It is best cultivated in hills. Doz. 50c, 100 \$1.50 prepaid. By express, not prepaid, 100 \$1.00, 1,000 \$6.00.

BISMARCK.—(s) Late. Resembles Bubach, but not so large; much better in shape color and quality. Doz. 50c, 100 \$1.50, by mail; by express not prepaid, per 100 \$1.00, per 1,000 \$6.00.

SEAFORD.—(p) A grand new variety of extraordinary merit; begins ripening early and continues late. Doz. 50c, 100 \$1.50 by mail. By express, not prepaid, \$1.00 per 100, \$6.00 per 1,000.

OTHER VARIETIES.—Bubach (p) Warfield (p), Crescent (p), Lovetts Early (s), Bederwood (s), Wilson (s) Gardner (s) doz. 30c, 100 \$1.00 mailed, by express 100 75c, 1000 \$4.00.

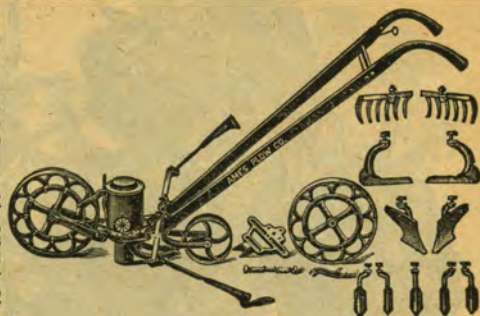


SENATOR DUNLAP.

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 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 and descriptive circular of Planet Jr., and Matthews' tools.

MATTHEWS' UNIVERSAL MODEL COMBINED DRILL. We are convinced that this new tool is one of the best. For many years we used the Matthews' Seed Drill on our own farm, and this is improved in many ways. It sows perfectly all kinds of seeds at any depth with mechanical precision, covering and rolling it down in the most approved manner; has a very complete set of cultivating attachments consisting of plows, hoes, rakes and cultivator teeth as shown in cut. Can be used either with one or two wheels and the seed hopper is detachable. Price only \$8.00; thus making it the cheapest combined drill and cultivator on the market.



MATTHEWS' UNIVERSAL MODEL COMBINED DRILL.

UNIVERSAL DOUBLE WHEEL HOE.

UNIVERSAL DOUBLE WHEEL HOE.—A greatly improved implement which will work both sides of the row at once in a most thorough manner. It has all the attachments shown in cut, consisting of one pair each of hoes, plows, rakes, narrow cultivator teeth, and wide cultivator teeth. Also a pair of leaf lifters or vine guards which are quite a help when plants become large. The adjustable arch not only forms a means for gauging the depth of work to be performed; but, by an ingenious device enables the teeth to be pitched at any angle desired. This is especially advantageous for the hoe attachments, which are by far the most used of all. It is thoroughly well made and does all kinds of small cultivating to perfection. Price only \$5.25. We can also furnish this tool with only one pair of hoe blades for \$3.00.

PLANET JR. NO. 17 SINGLE WHEEL HOE.—Has one pair of hoes three cultivator teeth and a plow. This is just the right assortment of tools for a family garden and the new No. 17 will doubtless be very popular. Price only \$4.50.

PLANET JR. NO. 16 SINGLE WHEEL HOE.—This is like No. 17 except it has leaf lifter attached to wheel and pair of rakes. Price \$3.25.

PLANET JR. NO. 12 DOUBLE WHEEL HOE.—This most practical tool is made for gardeners. The arch is high enough to enable the operator to work both sides of the row at once until the plants are eighteen inches high, then the wheels can be set close together and work between the rows. It will do the work of six men with ordinary hand hoes. Price \$6.00. Rakes extra 75c per pair.

MATTHEWS' NEW UNIVERSAL MODEL GARDEN DRILL.—A new one wheel drill of superior merit. It is adapted to planting all kinds of garden seeds. The depth may be gauged to any required space and will make a uniform deposit of the seed. It has a patent indicator bearing the names of different kinds of seeds, and conveniently located. Has the improved marker, and all late improvements. The single wheel seeder is considered by many to be superior to any double wheel drill Price \$6.25.

PLANET JR. NO. 4, COMBINED SEEDER AND CULTIVATOR.—This latest improved tool is giving good satisfaction and it has many good points. It will drop the seed either in a continuous row or in hills 6, 9, 12, 18 and 36 inches apart. The drill is easily detached and the tool frame substituted. Has all the attachments shown in cut except the rakes. Price \$9.50; rakes if desired \$1.00 extra. Price for plain drill without cultivating attachments, \$7.50.

PLANET JR. NO. 1 COMBINED DRILL AND CULTIVATOR.—This is the most popular tool we have ever sold. As a plow it opens furrows, covers them, hills, plows to and from, etc. As a hoe, it works safely 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. It sows all garden seed accurately at the desired depth. Each machine is sent out with the tools shown in the cut except the rakes. Price \$8.50, or with rakes \$9.00.



PLANET JR. NO. 8. HORSE HOE.

NO. 17 SINGLE WHEEL HOE.

NO. 12 DOUBLE WHEEL HOE.

NO. 1 COMBINED DRILL.

NO. 4 COMBINED SEEDER AND CULTIVATOR.

PLANET JR. NO. 8 HORSE HOE.—Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and cultivator, for it is in use throughout the civilized world. It is so strongly built as to stand incredible strain, yet it is light and easy to handle. The No. 8 combines all the latest improvements, levers adjusting it in width and regulating the depth. Ask for circular giving full description. Price \$7.50.

M'GEE GARDEN CULTIVATOR, OR SPRING HOE.—Has two wheels connected by an arch attached to frames by a lateral spring, enabling the user to almost "finger weed" the crop, as the machine is under such complete control. Onion growers claim that this is the best cultivator for onions. With each tool there is a pair of knives that operate as hoes, and a pair of cultivators. Price \$4.50.

FIRE FLY PLOW.—This is one of the nicest little tools imaginable. With it you can plow the ground, even if hard, by attaching ropes to the eyelet holes on each side of the wheel. It makes the care of the vegetable garden a pleasure. Will both plow the garden and attend to the cultivating and weeding throughout the season. The moldboard is tempered and polished steel. Price only \$2.25.

DAISY WHEEL HOE.—A new tool which has been thoroughly tested and we are sure it will please everyone. The blade, which is of best steel, has two cutting edges and is pivoted so that it cuts with both the forward and backward stroke. It will cut out between plants in the row, and is adapted to all work required of such a tool. Price only \$1.50.

PLANET JR. TWELVE-TOOTH HARROW.—For fine cultivation either deep or shallow, this has no equal. The recurved throat and high frame prevent clogging, and the reverse position is given to the teeth in a very short time by changing a single bolt in each. It is provided with a pulverizer which leaves the ground in fine condition. Price \$7.50, or without pulverizer \$6.00. The strawberry runner cutter (also good for sweet potato vines) shown in cut is an extra. Price \$1.75.



PLANET JR. TWELVE TOOTH HARROW AND PULVERIZER.

PLANET JR. NO. 3 SEED DRILL.—We regard this drill as the acme of perfection, and most decidedly the best seed sower made. It will sow perfectly either in a continuous row or drop the seed in hills either 4, 6, 8, 12 or 24 inches apart. It opens the furrow, drops in hills or drills, covers, rolls down and marks the next row all at one operation. It has a force feed, sows equally well whether the hopper is full or contains only a paper of seed. Price \$9.50.

ACME SEED DRILL.—A nice little machine which has been tested in all parts of the U. S. It will sow beet, cabbage, carrot, celery, lettuce, radish, turnip and all such seeds with perfect regularity. It is simple in construction and by its use you will save time, save seed, make the work easier and get a better stand. If a longer handle is desired it can easily be attached, but we make them short for convenience in shipping. Price \$1.25 or to persons who order seeds from us also, the price will be only \$1.00, charges prepaid.



CLIPPER SEED CLEANER.—This is an up-draft fanning mill and does the best work in cleaning all kinds of seed and grain, more of these are used by seed dealers than all other makes combined, and farmers would in many cases save the price of a mill by cleaning and grading up their grain before selling. Price only \$22.00, or if sent direct from the factory in Michigan, only \$19.40.

FARM FANNING MILL.—A good straight blast machine. Price \$15.00.

SPECIAL PRICES.—If you want any of these tools and also some seed, please send list and let us make you special quotations.



RIPPLEY'S COMPRESSED AIR SPRAYER

After careful examination and tests of a number of Compressed Air Sprayers we have decided to offer the Rippley, having been convinced that it is the best constructed and most durable of any on the market. Compressed Sprayers are coming rapidly into use and are the most satisfactory for ordinary work, especially for plants of all kinds and trees that are not more than 25 feet high. It is claimed by the manufacturer that it will stand a greater pressure and force a finer spray or a continuous stream a greater distance than any other compressed sprayer made. It is made to strap to body and a person can walk along and spray at leisure by simply turning the stop-cock off and on.

Price 3 gal. galvanized, with interchangeable nozzle, \$5.00.

Price 3 gal. heavy copper, \$7.00.

Price 5 gal. galvanized, \$5.50.

Price 5 gal. heavy copper \$8.00.

Will furnish table giving formulas for making mixtures also directions for application of same free upon request.

LIGHTNING ATOMIZER NO. 2



LIGHTNING

2.—Decidedly the terminator on the reservoir is made of with double tube and the capacity of any other that we know of, though covering a very wide space.

each action of the handle, and the spray is so fine that it thoroughly enters both under and upper side of leaves, and everywhere that insects find lodgment. The spray is so fine that one quart of liquid will spray 1,000 hills of potatoes. Invaluable for spraying plums, grapes, currants, melons and all other fruit and vegetable plants. We consider it fully equal to the more expensive machines for this purpose which are sold at \$12.00 to \$15.00 each. Price only \$1.00, postage 25c additional.

THE LITTLE GIANT BRASS BUCKET SPRAY PUMP.

This pump is constructed entirely of brass and is not effected by the poisonous arsenites used in different formulas for spraying fruit trees, vines and shrubbery. It is so arranged that the labor of pumping is all done on the downward stroke of the piston. Is provided with a large air chamber and has ball valves. The pressure is held uniformly in the air chamber and on the hose, so that the nozzle throws a continuous spray and is not effected by the movement of the plunger. The operator is enabled to keep a constant pressure on the nozzle of from 50 to 100 lbs. with very ordinary exertion. Will throw solid stream 50 to 60 feet. Price with hose and Imperial combination fine, coarse, spray and solid stream nozzle and malleable foot rest, \$5.00. With 8 foot pipe extension, \$5.50.

LEVER BUCKET OR BARREL SPRAY PUMP.—Similar to the Little Giant but has lever handle and can be attached to barrel or used as bucket pump. Price \$6.00, with 8 foot extension pipe \$6.50.

FAULTLESS INSECT SPRAYER.—An all brass hand sprayer. Will not rust. The best sprayer for applying liquids to poultry houses and live stock. Price \$1.00 by exp.



**ALL BRASS.
CANNOT RUST**

SPRAGUE'S FLY BOUNCER.—It instantly drives away flies, mosquitoes and all other insect pests. It is a relief to cows, horses, etc. Stock of any kind sprayed with Fly Bouncer will not be bothered with insects while feeding. Price 1/2 gal. can 75c, 1 gal. can \$1.25.

FLY CURE.—Is a perfect cure for the fly plague. By its use you will not need to use fly nets on your horses when driving. The feed saved by above remedies will more than pay for the cost. Use a brass hand sprayer in applying as the work can be done much more economically than with cloth or brush. Price 1 qt. can 50c, 2 qt. 75c, 1 gal. \$1.25.



TRADE MARK.

HAMMOND'S SLUG SHOT.—A combination of the most potent insecticides and soluble plant food. It destroys all insects injurious to house and garden plants, shrubs, trees, vines, potatoes, melons, cabbages, currants and vegetables and fruit of all kinds. This preparation though poisonous to insects, does not injure the foliage in the least. When you order your seeds if you have not tried Hammond's Slug Shot, order a five or ten lb. pkg. and use it as per directions given with each pkg. Not prepaid, 5 lbs. 30c; 10 lbs. 60c; 25 lbs. or more at 5c per lb.; postpaid 1 lb. 25c, 4 lbs. 95c.

DUSTERS.—For Hammond's Slug Shot, each 35c.

SULPHO-TOBACCO SOAP.—In our test this has proved the most effective of any insecticide and is perfectly safe to use. Its chief ingredient is the gum of the richest Virginia and Kentucky leaf tobacco. It is formed with whale oil and sulphur, in a soluble state into a soap. The soap is easily dissolved in warm or cold water. Per 8 oz. pkg. 25c, or by mail 35c; trial pkg. 10c or by mail 13c.

BELLOWS.—Useful for applying Slug Shot or any kind of Insect powder. It is thoroughly well made and works well. Length 23 inches. Holds 6 ounces of powder. Price \$1.00. Postage, if sent by mail, 30c extra. Spreader, distributing powder more evenly, 25c each.

STAR INSECT POWDER GUN.—Handy size for house use, 10 cents each; postpaid 13c.

ANT EXTERMINATOR.—A non-poisonous powder which, when sprinkled around, will kill or drive away ants from lawns, trees, houses, etc. Price 25c, by mail 30c; large pkg 50c, by mail 60c.

BRASS SYRINGES.—Used by florists, \$3.00 each.

PERFECT PLANT FOOD.—An unsurpassed fertilizer for plants, which is prepared especially for plants grown in the house, garden or conservatory; largely soluble in water, producing healthy plants, free from vermin and early and abundant blossoms. Per lb. pkg. 25c, postpaid 40c; 1/2 lb. pkg. 15c, postpaid 25c.

GARDEN FERTILIZER.—A plant food which is a very desirable and beneficial fertilizer for garden use. It is highly concentrated, and should also be used for flower beds. 10 lbs. 60c, 25 lbs. \$1.00, 50 lbs. \$1.85, 100 lbs. \$3.50, by freight or express

DAISY SPRAYING PUMP.

—This popular little sprayer is shown by our illustration. We sell hundreds of these pumps which are used for spraying insecticides and whitewash in the poultry house, also for spraying fruit trees and plants. Can be changed so as to throw a solid stream of water 20 to 30 feet high and used for washing windows, buggies, etc. Price only \$1.00. Can be sent by express only.



WALKER'S EXCELSIOR PLANT FOOD.—A soluble food for house plants containing all the elements necessary to nourish and make beautiful both flowers and plants. It makes brighter flowers and prolongs the period of blooming. Large box containing sufficient for 25 plants one year 25c, or postpaid 40c; small pkg. 15c, postpaid 25c.

JAPANESE PALM FOOD.—A chemically prepared fertilizer that will make healthy plants and beautiful foliage. Odorless, soluble and readily assimilated. Endorsed by all plant lovers who have used it. Excellent for Palms, Ferns, Rubber Plants, etc. Price 25 cents, postpaid 45 cents.

DALMATIAN INSECT POWDER.

—The best grade, fresh and nice. It does not pay to use the cheap ordinary grades. Per lb. 40c, 5 lbs or more at 35c; postage 16c lb. extra.

FLUTED FLOWER POTS.—These are of a handsome new pattern. The price is the same as for common, plain pots, so they are sure to be popular. The following prices per dozen are for pots and saucers: 4-inch 60c; 5-inch 75c; 6-inch \$1.00; 7-inch \$1.50; 8-inch \$2.40; 9-inch \$3.00. We make no charge for packing and delivering at the depot here. All orders for these must amount to at least \$1.00. Many styles of handsome pots, hanging baskets, jardiniere and vases at very low prices.



BOWKER'S AMMONIATED FOOD FOR FLOWERS.

—A fertilizer made especially for plants grown in the house, garden or conservatory; clean, free from offensive odor, largely soluble in water, producing healthy plants, and early and abundant blossoms, to which it imparts a rich and brilliant color. It starts plants at once into a vigorous and healthy growth, drives worms and insects from the soil. Large box containing sufficient for 20 plants for one year, 25c. or postpaid 40c; small pkg. 10c, postpaid 25c.



TYRIAN PLANT SPRINKLER.—With it you can, without injuring the plants or soaking the earth, quickly sprinkle them. It will render valuable aid in keeping the foliage fresh and healthy and free from insects of all kinds. The bent neck enables you to spray the under side of the leaves which are usually the insect's hiding place. Each 75 cents postpaid.



TYRIAN PLANT SPRINKLER.

SCOLLAY'S RUBBER SPRINKLERS.—Indispensable for floral work. Excellent for washing the foliage of house plants and used largely for sprinkling clothes. Standard size \$1.00; same postpaid \$1.10. Small 60c; prepaid 70c.

LITTLE GIANT BROADCAST SEED SOWER.

Simple in construction, light, strong and durable, and the easiest running machine known having no feed plate to carry, and only weighing three pounds complete. Will sow orchard grass, clover, timothy, wheat, etc. Even if you have only a small field to sow, it will pay you to have one of these so as to get it distributed evenly. Each \$1.25.

IOWA BROADCAST SOWER.—An improvement on the Little Giant in that it retains its valuable characteristics, but instead of working with a fiddle bow, it is operated with a crank. Price \$2.

"HANDY" CORN SHELLER.—Sheller is simple, strong, convenient and cheap. Can be used for shelling seed corn, pop corn, corn for chickens, etc. Weight 15 lbs. Price \$1.75.

HOTBED THERMOMETER.—A tested ten inch thermometer, incased in a round wood tube with open face, pointed brass bottom. Each \$1.00.

GARDEN TROWELS.—5 inch 10c. by mail 15c, 6 inch 15c, by mail 20c.

LANG'S HAND WEEDER.—It is in our opinion the best weeder made. Its special advantage over all other weeders of this class is that it has a band which passes over the fingers, which when the tool is not in use, gives full use to the hand for pulling weeds and thinning out plants without laying down the tool. Price 25c, \$2.50 per doz., or 30c each postpaid.



LANG'S WEEDER.

EUREKA POTATO PLANTER.—The best hand potato planter that we know of as it does the work perfectly. Also plants beans and seed corn equal to any corn planter. See illustration. You will be pleased with this planter, as it is giving complete satisfaction wherever introduced. Price \$1.25.



EUREKA POTATO PLANTER.

HAND PRUNING SHEAR.—The most convenient hand shears for pruning grape vines, berry or rose bushes. Made of the finest steel throughout with removable blades. Price 75c, postpaid 90c.

MALLEABLE PRUNING SHEAR.—Similar to above. Has malleable handles, but steel blades, which can be removed. A good article. Price 50c, postpaid 65c.

SCREW BIRD CAGE HOOKS.—The most popular style as it is inconspicuous, neat, cheap and makes only one hole in casing. Nice for bird cages or hanging baskets. Each 5c, postpaid 12c.

TRELLISES.—Many patterns of wood and wire trellises. 15c to \$2.00 each.

EXCELSIOR WEEDING HOOK.—Can be used to great advantage among small and tender plants. Price 10c, doz. \$1.10 or postpaid for 20c each.

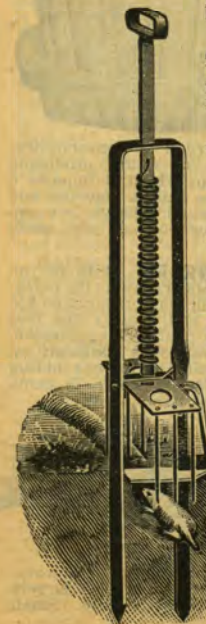


EXCELSIOR WEEDING HOOK.

SPHAGNUM MOSS.—Clean, nice moss which is used largely for packing fruit, plants for shipment. It is put up in large bales. Price \$1.25 per bale; 5 bales or more at \$1.10; 10 bales \$1.00.

WATER'S TREE PRUNER.—The standard make; with 6 ft. pole, 85c; 8 ft. \$1.00; 10 ft. \$1.20.

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. We have used this trap on our own place for three years and consider it by far the best pattern on the market. Price only \$1.00.



REDDICK MOLE TRAP.

RAFFIA.—Excellent for tying asparagus and other vegetables. Gardeners should try this for bunching vegetables as there is nothing equal to it. Nurserymen use it for budding. Per lb. 25c, 10 lbs. \$2.00. By mail, lb. 45c.

HORSE RADISH GRATERS.—Large size \$2.00; small 85c each.

TREE LABELS.—3½ inch, notched, 1,000 50c.

POT LABELS.—4 inch, pointed, 1,000 60c.

FLORIST TROWELS.—Extra heavy 40c, by mail 50c.

WIRE BRACKET.—This new pattern is a very cheap and handsome bracket, made of tinned wire. It is easily put up, adjustable, can be instantly removed, is simple, practical and durable. Price, 4-inch, 10c each, \$1.00 per doz.; 5-inch, 12c each, per doz. \$1.25; 6-inch, 15c each, \$1.50 per doz.; postage 8 cents each extra.



WIRE BRACKET.

GARDENING TOOLS.

We have a great variety of ordinary and new shapes of hoes, rakes, lawn rakes, spades and all kinds of garden tools at reasonable prices.

INDIANA BROADCAST SEED SOWER.

Has a solid malleable iron frame but the hopper and most of the balance of the machine is of steel. The bag will hold half a bushel. It is equipped with an agitator thus making a practical force feed, and also with a seed gauge for adjusting the quantity of seed sown. A special feature of this machine different from all others is that the crank can be used either on the right or left side. It is therefore the only seeder that we know of that a left handed operator can use with ease. It weighs only 3½ pounds; will sow 50 feet of wheat or rye at a round, 30 to 36 feet of flax, clover, timothy or millet, light grass seeds 15 to 30 feet. Price only \$1.50.



ROTARY CORN PLANTER.—Decidedly the best hand corn planter made, and a very desirable implement for those who have but a small field, or need to replant their ground. It puts the corn exactly where you want it and at a proper depth. It is easily worked and a most satisfactory tool in every way. Price \$1.50.

DANDELION PULLER.—Each 25 cents, by mail 40 cents.

DIBBER.—With steel point, desirable for transplanting vegetable plants. Each 30 cents, by mail 40 cents.

MAGNIFYING GLASSES.—For examining and testing all kinds of seeds. A powerful magnifying glass about 2¼ inches in diameter. Wood frame 2¼x4¼, with legs. Price 75 cents each, or 80 cents each postpaid.

CLIMAX LAWN WEEDER.—A simple and easy working device for removing noxious weeds and plants from lawns. Easily operated and does effective work. The full length is forty-two inches, enabling the operator to stand erect. Push the chisel under the plant at an angle that will sever the roots. A slight pull on the trigger brings the grab down which securely holds the plant, lifting it out and leaving only a slight mark. Price \$1.00.

CLEVELAND LAWN WEEDER.—"Extracting the root" is easy with this little tool and its use saves time and a great amount of back aching work. Price 75c.

GALVANIZED WIRE TRELLIS.—The wire poultry netting listed page 98, is the nicest trellis for garden peas and also for sweet peas and other vines. It is also very cheap, a 10-foot length of the netting 48 inches wide, costing only 40c, 3 lengths for \$1.00. Other sizes at proportionate rates.

CANE PLANT STAKES.—Desirable for plant supports. \$1.00 per 100.

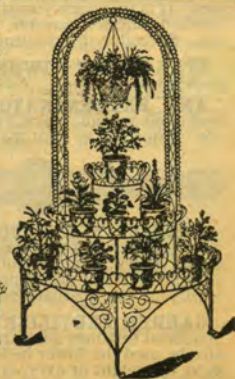
OUT O' SIGHT MOLE TRAP.—Moles are one of the worst nuisances in the lawn or garden. This trap catches them every time if properly set. Directions sent with each trap. Price \$1.25 postpaid, or \$1.00 if by freight with other goods.

WIRE PLANT STANDS.—For strength, beauty of design and superior finish our stands are unexcelled, if equaled. The No. 10, illustrated herewith, is a very popular style. Price only \$4.50, or without the arch for \$3.50. Other styles at low prices. Illustrated list free.

WIRE WINDOW SHELF.—These can be fastened to window frames either inside or outside. They are strong and attractive, 26 inches long, 6 or 7 inches wide. The border is not as high as shown in the engraving. Price \$1.00 each.



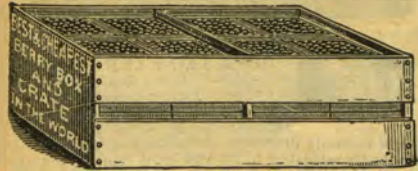
WIRE PLANT SHELF.



NO. 10 PLANT STAND.

FRUIT PACKAGES.

BEING the oldest as well as the largest dealers in berry boxes and other fruit packages in the west, 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 and give instructions for cutting so that it will suit our trade. It pays to have bright, smoothly cut stock which will make the fruit look nicer and sell better. Prices named here subject to change during season.



BERRY BOXES.

Made of the best white wood (poplar) heart stock, cut smoothly, and perfect shape; size $4\frac{1}{2} \times 4\frac{1}{2} \times 3\frac{3}{4}$, and will hold a wine measure quart. The bottom is set up for ventilation. They are usually put up in bundles of 500 boxes complete for shipment and are all ready for putting together, which can be done very rapidly. We furnish 500 at the 1,000 rate; broken bundles at the 100 rate. Price per 100 35c; 1,000 \$2.75. If a large lot is wanted ask for prices.

ANNEALED TACKS. Made of the best Swedes iron. One pound will make 1,000 boxes. Per lb. 25c, 5 lbs. \$1.00, 10 lbs. \$1.75.

FORMS.—To make boxes on 25c each.

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 and 24 quart boxes. 16-qt. crates per 100 85c, per 100 \$7.00; 24-qt. crates per 100 \$1.00, per 100 \$8.00.

CRATE NAILS.—Of barbed wire and far superior to any other. 12 lbs. (will make 100 crates) for \$1.00.

STANDARD WIRE STAPLING MACHINE.—The latest improved. Price \$35.00. We can also furnish a cheaper make for \$25.00.

STAPLING WIRE.—To use with the above machine for making boxes. Per lb. 15c, per coil of 12 lbs. \$1.00. 5 coils or more at 85c per coil.

MAGNETIC TACK HAMMER.—Picks up the tacks and saves much of the labor. 12c each.

CLIMAX GRAPE BASKET.—The best package for shipping grapes, cherries, plums, etc. It is the standard 8 lb. size, making a strong but light package. Baskets are made of the best material. They are nested for shipment with the covers and bent handles in separate packages. Price for 10 40c, 25 for 80c, 100 for \$2.75, 1,000 for \$26.00. Ask for prices in large lots.



SMALL CLIMAX GRAPE BASKETS.—For fancy grapes, etc. Hold about four pounds. 40c for 10, 90c for 25, \$3.00 per 100.

DIAMOND MARKET BASKETS.—Per doz. 40c, 10 doz. \$3.50.

WARREN'S BERRY PICKING CRATE.—A new device which has been tested by fruit growers near this city for several years, and has proven of great merit. It enables the berry picker to make use of both hands in picking, and it pays for itself in half a day's time. Price 25 cents each, \$2.50 per dozen, or 50c each postpaid.

JADOO FIBER.

We most highly recommend this material for growing plants in. It is a light, spongy substance and plants grow in it very vigorously, stocky and show more brilliant foliage and finer, more continuous bloom. There is no manure in any form in its constitution therefore it is clean as well as free from weeds. It can be mixed with soil if desired, but if used alone smaller pots may be used than would otherwise be employed. Press it tight around the roots when potting and water seldom, as the fibre retains more than double the moisture that ordinary soil will. Price 30c per lb., 3 lbs 75c postpaid. By express or freight per lb. 10c, 3 lbs. 25c, 10 lbs. 60c, 25 lbs. \$1.00.



✂ CUT FLOWERS. ✂

Owing to the fluctuation in the value of cut flowers at various seasons of the year, it is impossible to give a list of prices in this catalogue, but we will quote lowest prices on any list of flowers desired, by mail. Roses vary from \$1.00 to \$4.00 per dozen, and Carnations from 25 cents to \$1.00 per dozen. They are always much higher at Christmas and Easter than at any other time.

BOUQUETS OF FLOWERS.—\$1.00 to \$5.00 each.

BUTTONIERS FOR GENTLEMEN.—75 cents to \$2.00 per dozen.

FLORAL BASKETS.—Tastefully filled at \$1.00 to \$15.00 each.

WEDDING EMBLEMS AND FUNERAL DESIGNS.—A great number of styles at \$1.50 to \$25.00 each.

TERMS on Cut Flowers are strictly cash with order. We do not care to ship C. O. D. Have bank telegraph for you if time is limited.

BEE SUPPLIES

BEE KEEPING is yearly becoming more important. The demand is always larger than the supply, and if properly managed, it pays a handsome profit. Most of the goods we handle are of our own manufacture and everything is of the best quality. If a large lot is wanted send list and obtain our special prices.

NO. 1 DOVETAILED HIVE.— $1\frac{1}{2}$ story hive for comb honey; a body with eight improved Hoffman thick-top frames and plain division board; one super with a follower and wedge; six section holders with slotted separators, section and foundation starters for frames and sections, and nails. This is what all beginners should order as it is ready for immediate use. Price, made and painted, \$2.10 each. The same in flat (not put together) \$1.65 each, or in an original package of five for \$7.25.

NO. 1 HIVE EMPTY.—Is the same hive leaving



out sections and starters, everything else mentioned is included. Price, made, \$1.75 each, flat \$1.40. Package of 5 for \$6.75.

SUPERS.—Either the shallow or deep, 45c, each made, or 35c each in flat.

HONEY SECTIONS.—Made of best quality bright pine wood, $4\frac{1}{2}$ inches sq. Per 100 50c; 250 for \$1.00; 500 \$1.75; 1,000 \$3.50.

COMB FOUNDATION.—Brood, 50c per lb., 5 lbs. or more @ 48c; surplus 60c per lb., 5 lbs. or more @ 58c.

PARKER'S FOUNDATION FASTENER.—A convenient little tool for beginners. Each 25c, by mail 40c.

DAISY FOUNDATION FASTENER.—With lamp \$1.00 without 70c.

DAISY FOUNDATION ROLLER.—Each 15c, by mail 18c.

SPUR WIRE IMBEDDER.—Each 15c, by mail 18c.

COWAN'S HONEY EXTRACTOR.—Very popular, \$11.00 each.

CLARK'S SMOKER.—A good bee smoker is almost indispensable and we sell more of this cheap make than any other. It works well. Each 50c, by mail 70c.

CORNEIL SMOKER.—By many considered superior to above. Each 75c, by mail \$1.00.

BEE VEILS.—No. 2, the most popular. Each 50c, by mail postpaid 70c.



CORNEIL SMOKER.

PORTER'S BEE ESCAPE.—Each 25c, postpaid. The same with board 35c, not prepaid.

TESTED QUEENS.—Can ship after April 1st, \$1.50 each.

ALLEY'S QUEEN TRAP.—Each 50c, by mail 65c.

A B C OF BEE CULTURE.—Best book on the subject, 475 pages. Price \$1.20 postpaid.

Other bee supplies delivered cars at Des Moines at Root's prices.

VALUABLE BOOKS.

It will pay you to read some of the following books which are sent postpaid on receipt of price.

HENDERSON'S GARDENING FOR PROFIT.—New edition. By Peter Henderson. Price \$2.00.

ONIONS: HOW TO RAISE THEM PROFITABLY. Being the practical details by seventeen practical onion growers. Price 20c, revised.

THE A B C OF POTATO CULTURE.—By T. B. Terry. Price 40c.

TOMATO CULTURE.—By A. I. Root, 135 pages. Price 35c.

CELERY FOR PROFIT.—A new book by T. Greiner. Price 20c.

VEGETABLE GARDENING.—By S. B. Green. A most practical book which is thoroughly up to date. Every market gardener should have a copy. 220 pages. Price \$1.25.

NEW ONION CULTURE.—How to produce big crops by the new system. By T. Greiner. Price 50c.

ASPARAGUS CULTURE.—A quite complete book. Price 50c.

FITZ'S SWEET POTATO CULTURE.—Cloth. Price 60c.

E. P. ROE'S PLAY AND PROFIT IN MY GARDEN.—Price \$1.50.

HENDERSON'S PRACTICAL FLORICULTURE.—New edition. Price \$1.50.

FULLER'S GRAPE CULTURIST.—By A. S. Fuller. Price \$1.50.

FULLER'S SMALL FRUIT CULTURIST. Price \$1.50.

CLOVER FARMING.—A complete handbook on Clover. by Henry Wallace. Price 35c.

UNCLE HENRY'S LETTERS TO FARM BOYS.—Farmers should present a copy of this book to their boys to help them for life. Price 3c.

CANNING AND PRESERVING.—By Mrs. S. T. Rorer. Price 40c.

THE DALHIA.—A clear, concise, yet comprehensive treatise. Beautifully illustrated. Price 50c. Our price only 25c.

FEATHERED PETS.—A most complete new book on Canaries, Parrots, and all kinds of cage birds. 141 pages. Cloth 75c; paper 25c.

AQUARIA.—A 64-page book on the care of Gold Fish, Aquariums, breeding fish profitably, etc. Cloth 50c; paper 15c.

PRACTICAL POULTRY KEEPER.—A very popular little book. Price 10c.

LOW COST POULTRY HOUSES.—Plans and specifications. Price 25c.

FORAGE CROPS.—By Prof. Thos. Shaw. A practical book for stock farmers. 300 pp. Price \$1.00.

HORTICULTURIST'S RULE BOOK.—By Prof. Bailey. Price 75c.

HOW TO GROW MUSHROOMS. Price 10c.

BROOMCORN AND BROOM MAKING.—Price 60c.

PROFITABLE POULTRY FARMING by Boyer. Price 25c.

A LIVING FROM POULTRY by Boyer. Price 25c.

MONEY IN HENS by Boyer. Price 25c.

RELIABLE POULTRY REMEDIES. Price 25c.

CABBAGE, CAULIFLOWER AND ALLIED VEGETABLES by C. L. Alley. Price (cloth) 50c.

POULTRY SUPPLIES

TAL GRIT.—This has proved to be the market. It is hard, sharp, grinding smooth like an ordinary off in such a way that it stays equal for poultry, pigeons and 10 lbs. 25c; 25 lbs. 40c; 100 lbs. more @ 75c per 100 lbs.

TAL CHICK GRIT.—A small grit for young chicks. Everyone who raises chickens should have a good supply. 10 lbs. 40c, 25 lbs. 55c, 100 lbs. \$1.00.

ED OYSTER SHELL.—This is a most valuable article for the poultry yard and should be applied to the fowls liberally. Of superior quality. Your hens will keep healthier, lay better and eggs will be more fertile if supplied with this. Price 10 lbs. 25c, 25 lbs. 40c, 100 lbs. 85c, 500 lbs. or more @ 75c.

CRUSHED RAW BONE.—Really better than the shell, but it will pay to use both. Of the best quality, being made from fresh bones. 10 lbs. 50c, 25 lbs. \$1.00, 100 lbs. \$3.00.

FINE BONE MEAL.—Ground fine for feeding small chickens, also used as a lawn fertilizer. Price, 10 lbs. 45c, 25 lbs. 85c, 100 lbs. \$2.50.

CLOVER MEAL.—An excellent and very popular food for poultry. Of special value during the winter. 10 lbs. 40c, 25 lbs. 65c, 100 lbs. \$2.00.

CUT CLOVER.—Put up in 50 lbs. bags. Cut from best clover hay. A very necessary feed when your fowls cannot secure green feed out of doors. 50 lbs. 90c, 100 lbs. \$1.60.

GROUND BEEF SCRAPS.—Made from fresh beef thoroughly cooked and dried. A most excellent food for young chicks or laying hens. 10 lbs. 50c, 25 lbs. \$1.00, 100 lbs. \$3.50.



PHILADELPHIA
POULTRY MARKER.

PHILADELPHIA POULTRY MARKER.—This is a very convenient little spring punch, as shown in the cut, for marking chickens by making a small hole in the web of the foot. In this way they can be easily identified or followed by their peculiar track. 25c each postpaid.

HALL'S GUARANTEED ROUP CURE.—It is claimed that it will positively cure Roup in all its forms, when given a fair trial. Guaranteed to cure or money refunded. Small size 25c, large size 50c postpaid.

HALL'S CHOLERA CURE AND POULTRY TONIC.—A reliable remedy for chicken cholera. Price 50c per box postpaid.

HALL'S AIR CELL EGG MODEL.—Valuable when testing eggs in incubation. No one operating an incubator should be without one. 50c postpaid.

SPONGIA TABLETS.—For Roup. Dozen 10c, 4 dozen for 25c, postpaid.

GAPE WORM EXTRACTOR.—Price, each 15c, 4 for 50c postpaid.

PRATT'S POULTRY FOOD.—Will keep hens in good health and cure chicken cholera and other diseases of chickens and turkeys. It is a splendid egg food, endorsed by leading poultry raisers. It makes larger fowls, quickens the growth of young chicks, and sickly broods are never seen where it is used. Per 5 lb. pkg. 60c, 26 oz. pkg. 25c, postpaid 55c. Trial size 10c, postpaid 19c.

CAPONIZING INSTRUMENTS.—Set \$2.50 prepaid.

TESTED THERMOMETER.—For incubators. Each 83c by mail.

POULTRY WIRE NETTING.—The best make, thoroughly galvanized to prevent rusting, properly twisted.

Made of No. 19 wire and 2-inch mesh; put up in rolls of 150 feet in length.

width per inches roll	width per inches roll	width per inches roll	width per inches roll	width per inches roll	width per inches roll	width per inches roll	width per inches roll
12..... 75	36..... 2 25	12..... \$1 85	30..... 4 60	12..... 18	2 65	36..... 5 50	24..... 3 70
18..... \$1 15	48..... 3 00	18..... 2 65	36..... 5 50	24..... 3 70	Other widths if desired.		
24..... 1 50	60..... 3 75						
30..... 1 90	72..... 4 50						

Will allow 5 per ct. discount on 5 roll lots, or 10 per ct. on 10 roll lots.

Cut rolls, any width, of 2 inch mesh, 1c per sq. ft. Cut rolls, any width, of 1 inch mesh 2½c sq. ft.

GALVANIZED STAPLES.—For fastening wire poultry netting; 10c per lb.

WILSON'S BONE MILL NO. 1.—Will grind either shell or dry bone and crack wheat or corn. The usual price is \$5.00 but we are now selling them at \$4.50 each.



CROWN CUTTER.

Price per dozen \$2.40 to \$4.60.

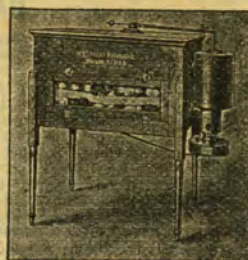
EYRIE EGG BOX.—Made of corrugated paper. Very strong, light and durable. Self-locking. No. 1 holds 15 eggs per doz. \$1.25; No. 2, holds 30 eggs per doz. \$1.90.

CLIMAX BASKET.—Used largely for shipping fruit but they are also desirable for shipping eggs for setting. Will hold 2 setting of Leghorns, etc., or 1 of Asiatics. Price per 10, 40c; 50 for \$1.50; 100 for \$2.75.



GLASS NEST EGGS.—5c each, 35c per doz., 4 dozen for \$1.00.

LAMBERT'S DEATH TO LICE.—A cheap and effectual remedy for all kinds of poultry vermin, moths, lice on horses, cattle or plants, fleas on dogs, etc. Pkg. of about 1 lb. 25c, or by mail 40c. Trial size 10c, or 20c postpaid.



INCUBATORS.—No. 0, 60 egg capacity..... \$14.00
No. 1, 120 egg capacity..... 20.00
No. 2, 240 egg capacity..... 29.00
No. 3, 260 egg capacity..... 37.00

LEE'S LICE KILLER.—This is the result of several years' experimenting with various insecticides, in search of a liquid that would eradicate lice, mites and chiggers, by applying to roost and nest boxes. It is now regarded as the standard liquid lice killer made. Per qt. 35c, ½ gal. 60c, gal. \$1.00.

SPRAGUE'S LICE AND INSECT KILLER.—Will absolutely destroy all lice, mites and insects where properly applied. Also an excellent disinfectant. This is a liquid put up in cans. Can be applied with brush or insect sprayer. Price ½ gal. 60c, gal. \$1.00.

DEODORIZED BLOOD MEAL.—SUMNER'S PROCESS.—A superior supplemental food. Each two ounces of Blood Meal is said to represent one quart of raw blood. Those raising chicks hatched in incubators, who had formerly met with heavy loss from breaking down or leg weakness, say that blood meal mixed with their rations has been instrumental in stopping loss in this way entirely. 10 lb. sack 50c, 50 lb. sack \$2.00.

SANITARY DETACHABLE FOUNTAIN.—Chicks can drink all round. Easily cleaned. 2 qt. 25c, doz. \$2.50, gal. 35c, doz. \$3.50, 2 gal. 50c, doz. \$5.00.

STONEWARE DRINKING FOUNTAIN.—To keep the water cool and clean and prevent the birds from getting wet. Price, two-quart size, 25c, dozen \$2.50; gallon size 35c, per doz. \$3.50; two gallon size 50c, dozen \$5.00.

We handle a complete line of poultry supplies of the best quality. Prices are subject to important market changes. We will be glad to name special figures on large lots. Transportation charges to be paid by purchaser except where noted. Complete list sent on request. Ask for it.



IOWA LEG BAND.—Made of soft pliable brass band which is far superior to any other material. The loop is bent up in such a shape that the strap part of the band is easily inserted and fastened and can be instantly adjusted to fit any bird from a pigeon to a turkey. Numbered with plain figures. Price 20c per doz, \$1.00 per 100 postpaid.



CLIMAX LEG BAND.—The "Stay on" kind. These bands have no sharp edges or exposed ends of wire to cut your fingers or injure the fowl, are very easy to put on. Six sizes. State breed of fowls you have and we will send suitable size. Dozen 25c, 25 for 40c, 50 for 75c, 100 for \$1.35 postpaid.

CONKEY'S ROUP CURE.—This is an excellent remedy that has been thoroughly tried and meets with a ready sale, as it has given excellent satisfaction. Per box 50c, by mail 55c.

FAULTLESS INSECT SPRAYER.—An all brass hand sprayer. Will not rust. The best sprayer for applying liquids to poultry houses and live stock. Price \$1.00 by express.

RUST'S CONDITION POWDER.—A highly concentrated food for poultry. Excellent remedy for cholera, gapes and mild cases of roup and catarrh. Superior for keeping fowls in good condition as it enriches the blood, promotes digestion and restores the appetite. Price 13 oz. box 25c, by mail 40c, 30 oz. box 50c, by mail 85c.

RUST'S EGG PRODUCER.—Recommended by many of the well known fanciers and poultrymen in the east. It increases fertility of eggs produced as well as number. Price 1b. box 25c, by mail 40c, 2½ lbs. 50c, by mail 94c.

RUST'S LICE KILLING POWDER.—For dusting on fowls and in the nests. Price 25c, postpaid 40c.

RUST'S LICE KILLING PAINT.—Put up in cans dry and can easily be mixed for use. Apply with brush. Can 25c, postpaid 40c.

FRENCH POULTRY KILLING KNIFE.—Best and most humane method of killing all kinds of poultry. 50c postpaid.



INCUBATORS AND BROODERS.

It is our aim to furnish our customers with the very best that can be obtained in every department of our business. After careful investigation we have found the Cyphers Incubators and Brooders have given better satisfaction than any other incubators and brooders on the market. The incubators are self-regulating, self-ventilating, require no supplied moisture, fire proof and will hatch a larger per cent of fertile eggs than any other machine we know of. Send for catalogue. We save you freight



BROODERS.—Style O, Indoor..... \$ 8.00
Style O, Outdoor..... 9.00
Style B, Indoor..... 10.00
Style A, Outdoor..... 12.00



DETACHABLE FOUNTAIN.

THE AQUARIUM.



GLASS FISH GLOBE.

GOLD FISH.—While there are many varieties of gold fish, as shown in our illustration, in this list we refer to the plain variety only by this name. These are more popular than the fancy sorts, being hardy and generally satisfactory. They are a species of carp, 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 and 50c each according to size. Extra choice three-color specimens, when obtainable, \$1.00 each. The 25c size (5 for \$1.00) is the most popular. The largest size is only suitable for outdoor ponds or fountains.

ORIOLE FISH.—These are gold fish which are beautifully variegated golden red and clear black. Medium size 25 cts. each; 5 for \$1.00.

PEARL FISH.—These elegant fish are either of clear pearly white color or the white is variegated with gold markings. Medium size 25c each; 5 for \$1.00.

SILVER FISH.—This is simply an uncolored gold fish of dark silvery color. Nice for a variety. Medium size 10 cents each; 6 for 50 cents.

JAPANESE FRINGETAIL FISH.—These aristocratic fish are undoubtedly the most beautiful of all aquaria fish, having extremely long, drooping tail and fins. Choice specimens are very rare and when obtainable sell at \$10.00 to \$50.00 each. We can furnish nice young specimens at \$1.50 each; select at \$2.50.

TELESCOPE FISH.—A very curious appearing fish which always attracts attention from its "extreme ugliness." Eyes are abnormally large and bulging. Price \$1.00 to \$1.50. Black Telescopes, which are quite rare, \$3.00 each.

GLASS FISH GLOBES.—These are neat, cheap and consequently more popular than the large aquariums. The 8, 9, 10 and 11 inch are the sizes most used.

DIAMETER.	CAPACITY.	EACH.
5 inches	1 quart	\$.25
6 inches	2 quarts	.40
7 inches	3 quarts	.50
8 inches	4 quarts	.60
9 inches	6 quarts	.75
10 inches	8 quarts	1.00
11 inches	12 quarts	1.25
12 inches	16 quarts	1.75
15 inches	30 quarts	3.00



ZANZIBAR HARP.—A peculiar shell admired by all and not easily forgotten. 25c, 40c and 60c each.

SILVER LIP.—A pretty shell from Mauritius. 10c.
WHITE MUREX.—No collection is complete without one of these. 15c, 25c, 50c and 75c each.

BLACK MUREX.—White with projecting black horns. Striking and handsome. Each 15, 25 and 50c.

SHELLS FOR FLOWER BEDS.—Many of our customers think there is no border for a flower bed so nice as a row of shells, and we have them at low prices.

A well regulated aquarium adds an elegance to any place and is one of the most desirable ornaments for the parlor, library, sitting or dining room. It offers a wide opportunity for the study of nature, the motion of animal life eliciting the admiration of all, while affording instructive amusement for the children. The fishes require very little attention, and live a great many years. We ship gold fish to all parts of the United States from Maine to California and from Canada to the Gulf. They can be shipped at all seasons of the year; cold weather does not affect them unless bucket containing them freezes solid. The express charges are always paid by the purchaser. We have thousands of aquaria customers in the country as well as in the city, and therefore devote space in this catalogue to gold fish, knowing that they are the hand-somest parlor ornaments which can be obtained. Ask for our Aquaria catalogue. It contains valuable information on Fish, Globes, Aquariums and Supplies.

COMET FISH.—Also called "Gorgeous Tails," "Long Tailed Beauties," and "Fancy Gold Fish." They are without doubt the most graceful in their movements of all aquaria fish, their tails being extremely long, so that when turning in the water the head and tail nearly meet. They were originally from Japan, but are now mostly bred in this country. Small, 25c each, medium size 35c 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 long and of delicate lace-like substance. The tail is V-shape and frequently divided so that it might be called two distinct tails. They are beautifully variegated usually with golden red and pearly white or black. Nice specimens 50c each. Choice 75c each. Fancy, some showing three colors, \$1.00.

AMERICAN FANTAIL FISH.—These are bred from the imported Japanese fish and are very handsome, some of them rivaling the imported, but usually their tails are not so long and spreading. Quite ornamental as well as hardy. Price, according to size, shape and color, 25c, 35c, 50c and 75c each.

SHIPPING BUCKETS.

Unless you order a fish globe with fish it will be necessary to ship them in a bucket or can. For this purpose we offer 2 or 3 qt. tin buckets suitable for holding 6 medium size fishes or 10 small. @ 10c each; 4 qt. @ 15c; 6 qt., will hold 12 medium sized fishes, for 20c. Can for 25 fishes, 50c.

AQUARIUM CASTLES.—A great variety of styles and sizes from 10c to \$2.50.

AQUARIUM PLANTS.—See list on page 86.

PREPARED FISH FOOD.—The best food 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, \$1.00 per dozen, postpaid.

AQUARIA BOOK.

ILLUSTRATES and describes all the best kinds of fancy fish for aquariums. How to breed and care for Gold Fish, etc. 64 pages. 15 cents; cloth bound 50 cents, postpaid.

JAPANESE FANTAIL. JAPANESE FRINGETAIL. COMMON GOLD FISH.

COMET. TELESCOPE.

STANDING FISH GLOBES.—These are raised up on glass base and are handsomer than the ordinary fish globes, but are not as satisfactory, owing to their liability to crack at the juncture of bowl and base.

CAPACITY ABOUT.	EACH.
1/2 gallon	\$1.00
1 gallon	1.25
1 1/2 gallons	1.50
2 gallons	2.25
3 gallons	3.00

EUREKA AQUARIUM.—A strong iron-frame tank. Capacity about 7 1/2 gallons. Price only \$5.00. Rockwork, plants, fish, etc., \$3.35 extra.

Fancy Sea Shells.

THE PROPRIETORS of the Iowa Seed Store have always been greatly interested in these beautiful wonders of the ocean, and we devote one department of our store to them. We have a large stock on hand, some of which were collected by us at the sea shore and others were received from dealers in all parts of the world. We request those interested in the subject to send for our complete illustrated catalogue of sea shells. It is free. We prepay postage at the prices named below.

MAMMOTH BAHAMA STAR FISH.—Very popular. Price 25c, 50c and 75c each.

TIGER COWRY.—From Australia. 10c, 15c and 20c each.

PEARLY NAUTILUS.—One of the most beautiful and wonderful shells. Quite rare and somewhat expensive. We can furnish three sizes: \$1.25; \$2.00 and \$3.00 each.

MEXICAN OPALS.—Finely polished opals for setting in rings, etc. 15c, 25c, 35c, 50c and \$1.00 each.

POLISHED AGATES.—Choice stock of thin slabs of fine agates, one side finely polished; about 1x1 1/2 in. in size. Price 25c each; 6 all different, for \$1.00.

INDIAN ARROW HEADS.—These are nice for helping to ornament the shell cabinet and add to the interest. Price 5c, 10c, 15c, 25c, and 50c each.

SMALL SHELLS.—An endless variety. Best mixture 25c per 1/2 pt. Aquarium mixture 20c per 1/2 pint postpaid.



MAMMOTH STAR FISH.

LARGE ILLUSTRATED SHELL CATALOGUE FREE ON REQUEST.

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. At all seasons of the year our stock is the best obtainable and we specially invite the patronage of those who are well posted and can appreciate a bird of superior quality. Our bird department is as complete as any bird store in the country and our prices are lower than most others. Ask for complete illustrated catalogue. We ship birds safely to the most distant parts of the United States. Express charges to be paid by purchaser on all goods on this page except where stated. Prices are subject to change.

HARTZ MOUNTAIN CANARIES.—These are a specialty with us. They are bred in Germany, high up among the Hartz Mountains, and are famous for their clear, pure, beautiful song, which is a restful melody. There is no comparison between these and the common American "screeching" canary, whose choppy notes are at times almost ear-splitting. They are perfectly happy in the cage, require little care and are more hardy than any other bird. Choicest male birds \$3.00 each; second grade birds \$2.25 each. **FEMALE CANARIES.**—For breeding, \$1.00 and \$1.50 each, according to plumage.



HARTZ MOUNTAIN CANARY.

ST. ANDEASBERG ROLLER CANARIES

—These birds are without doubt the finest songsters in the world. Their tones are sweet, round and full, consisting of delightful bell-notes, low water bubble, charming flute notes, long, silvery trills and whistling. They can be taught to whistle a tune and their most restful music continually delights and surprises one by its many changes. They are an ideal bird for an invalid and are often presented by our customers to sick friends; \$5.00.

RED BIRD OR CARDINAL.—A handsome bird with bright red plumage. Whistles so nicely it is sometimes called the Virginia Nightingale. \$2.50 each; females \$2.00 each.

EUROPEAN GOLDFINCH.—The most delightful of parlor birds. Has brilliant plumage and usually an excellent song. \$2.50 each.

NONPAREIL.—Sometimes called "Painted Bunting" on account of its brilliant coloring. \$2.00 each.

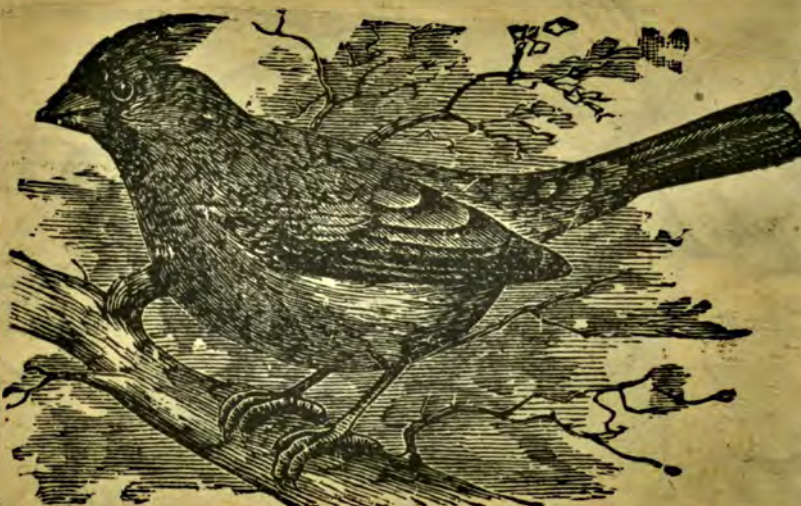


ROUND PARROT CAGE.

MEXICAN DOUBLE YELLOW HEAD PARROT.—This is the most popular and most generally satisfactory of all species of parrots. If the teaching of these birds begins when they are young, they learn to talk quite readily and become very fluent. This bird is frequently called the operatic star owing to his natural gift of song. Usual price \$15.00 each. During the summer, price for young birds is lower.

OTHER PARROTS.—We can usually furnish other breeds at \$5.00 to \$25.00 each. Educated parrots \$15.00 to \$40.00 each. When you are ready to buy ask for list of birds in stock and prices.

ROUND PARROT CAGES.—Strong, handsome and thoroughly well made. 12 inches in diameter \$1.50; 13 in. \$2.00; 14 in. \$2.50; 16 in. \$3.25; 18 in. \$4.25.



RED BIRD OR CARDINAL.

MOCKING BIRD.—The most beautiful songster of all American birds and has wonderful powers of mimicry. It is a general favorite the world over, and will imitate any sound it hears, whether it be a canary, nightingale, the cry of the katydid, the squeaking of a pump-handle, the squealing of a pig or the midnight call of a cat. Nice healthy young birds \$3.00 each; older birds beginning to sing, \$7.50 each.

BIRD SEED.

But few persons are aware how much a bird's health and consequently its song, depends upon the selection of seed. To the eye of the inexperienced buyer there appears to be but little difference. The mixed bird seed in most stores is the cheapest quality obtainable—often old, hard or musty. As you value the life of your bird, feed only our superior bird seed.

SUPERIOR MIXED BIRD SEED.—This is a specialty with us and we sell tons of it. Per lb. 10c, 3 lbs. 25c, 13 lbs. \$1.00, 50 lbs. \$3.50, 100 lbs. \$6.75. Postage 10c per lb. extra.

GERMAN SUMMER RAPE.—Fed largely to trained canaries. Same price as above.

SICILY CANARY.—Best cleaned. Same price.

MAMMOTH RUSSIAN SUNFLOWER.—Same price.

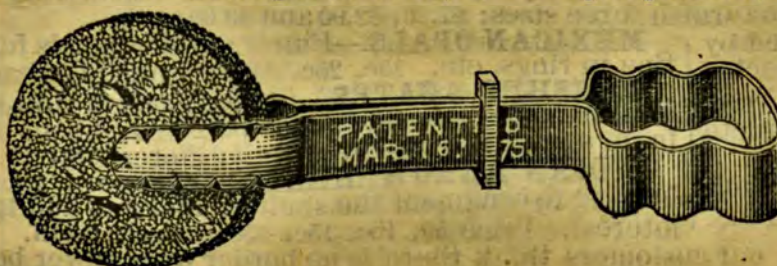
MIXED PARROT SEED.—Best. Same price.

PREPARED MOCKING BIRD FOOD.—Best food on the market for all soft billed birds. Per large can 35 cents, postpaid 50 cents.

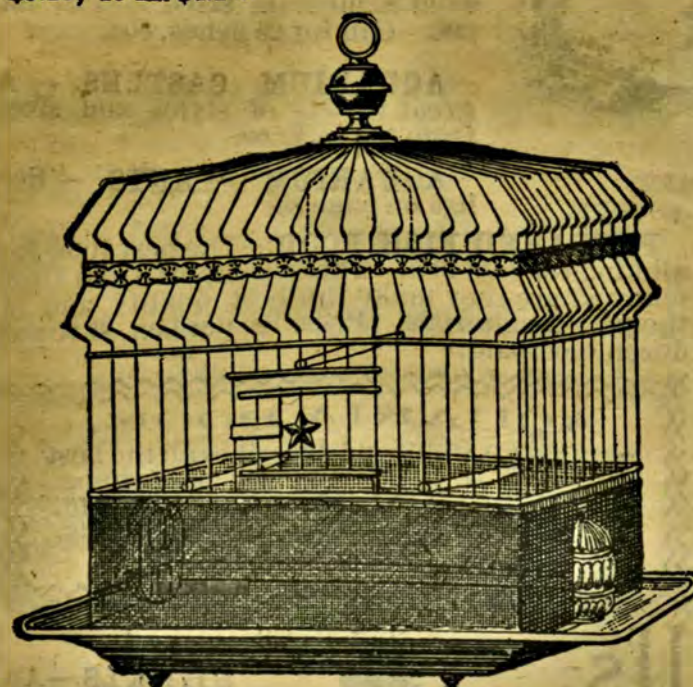
IDEAL BIRD GRAVEL.—Of superior quality. Per 2 lb. can 10c, \$1.00 per doz. Postage 32c per can extra.

RED BIRD MIXTURE.—Consists of about eight kinds of seeds mixed in proper proportion for the use of Red Birds, Grosbeaks, etc. Per lb. 10c, 3 lbs. 25c, 13 lbs. \$1.00. Postage 10c. per lb. extra.

TONQUILLA.—A condition powder of great value. Thousands of bird keepers have used it with the greatest success. Price per box 10c.; by mail postpaid 13c.



FOOD HOLDER SHOWING SONG RESTORER.



IDEAL BRASS CAGE.

IDEAL BRASS CAGE.—One of the most elegant cages ever sent out. The brass screen cloth around the bottom prevents scattering of seed or gravel. Size 6x9, \$2.00; 7x10, \$2.75; 8x11 1/2, \$3.25; 8x11 1/2 fancy top like cut, \$5.00.

MOCKING BIRD CAGES.—Wood frame 17 inches long \$2.00; 19 in. \$2.25; 21 in. \$2.50; 24 in. \$2.75; 26 in. \$3.00.

BIRD CAGE SPRINGS.—Brass 10 cents each postpaid.

CUTTLE BONE.—Large piece with holder 7c; dozen 60c postpaid.

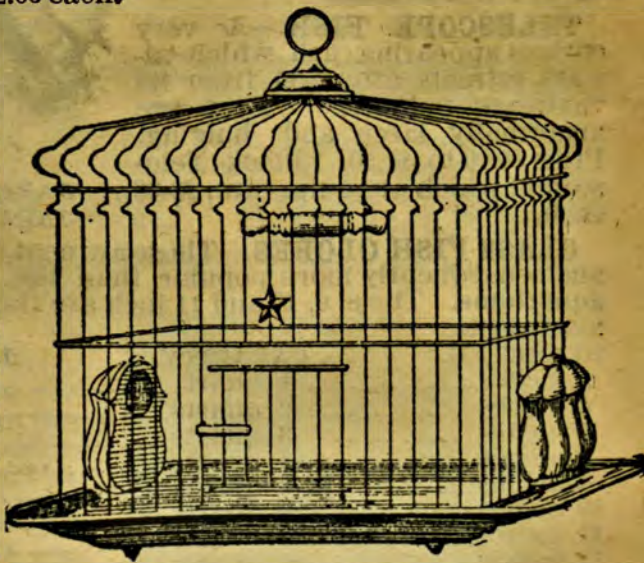
WIRE NESTS.—10 cents postpaid.

BIRD NESTING.—10c per pkg. postpaid.

TOY BELLS.—For birds, 7 cents postpaid.

PILOT CRACKERS.—Made especially for parrots, without yeast, salt or shortening. Also a desirable food for dyspeptics. 15 cts per lb. By mail 30 cts per lb.

FOOD HOLDER.—Fastens between the wires of the cage. Is nice for holding Song Restorer, Cuttle Bone, lettuce, apple or other food. Usually made with bent arm to hold food down beside the wires of cage. Price 10c each, \$1.00 per dozen postpaid.



IMPROVED BRASS CAGE.

IMPROVED BRASS CAGES.—Thoroughly well made and decidedly better than painted cages for birds. Sizes 5 1/4 x 8 1/2 in. 75c; 6 x 9 \$1.00; 6 1/2 x 9 1/2 \$1.25; 7 x 10 \$1.50; 7 1/2 x 10 1/2 \$2.00; 8 1/4 x 11 1/2 \$2.50. Fancy styles and larger sizes \$2.00 to \$5.00 each.

BIRD INSECT DESTROYER.—Pkg. 10 cents postpaid.

SONG RESTORER.—This bird food is an excellent tonic as well. Very good to sustain the voice as well as to restore it. Successful in nearly every case of loss of voice from cold or moulting. Small cakes 5c ea, doz. 50c postpaid.

FEATHERED PETS.

The most complete and practical book on Canaries, Parrots and other cage birds ever published for less than \$2.00. How to train and care for them. 140 pages, fully illustrated, 25 cents; cloth bound 75 cents, postpaid.

I. S. CO.'S BIRD TONIC.—An excellent remedy for colds, asthma, hoarseness and other throat ailments, restoring the voice and making it clearer. It is an invigorating tonic for cage birds of all kinds. Price per bottle 15c, postpaid 25c.

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STRAWBERRIES.



If you only knew the enjoyment you would have from a bed of strawberries we are sure you would delay no longer. A bed 6 x 10 feet will accommodate two dozen plants and the writer had a bed double that size which supplied all the strawberries desired for a family of six during the season. The following varieties should be planted together for best results as the Rough Rider will pollinize the Sample which is an imperfect flowered sort.

ROUGH RIDER.—This grand new variety has proved to be one of the most vigorous growing and productive varieties ever sent out and of excellent keeping qualities thus making it of great value for shipping. The fruit is very large and although somewhat irregular in shape is attractive and of most excellent quality. See illustration. Price 50cts. per dozen; 2 doz. 75cts; 100 \$2.25 by mail, postpaid. By express, not prepaid, per 100 \$1.75.

SAMPLE.—Said to be the most valuable and productive strawberry yet introduced. It is of large size, fine shape, good quality, and remarkably productive. We are sure that every one will be greatly pleased with this fine sort for family use as well as for market. Price 50cts. per dozen; 2 doz. 75c; 100 for \$2.25, by mail, postpaid, or \$1.75 per 100 by express.

R. D. McGeehan, the noted strawberry specialist writes us: "The Sample strawberry bears anything I had old or new and I believe that I can truthfully say it beat anything I have ever fruited. It holds its size well up to the last picking. I had four rows of it fifteen rods long which produced more fruit than sixteen rows beside it of other prominent varieties and the berry was as large and quality as good as any of them."

ROUGH RIDER

SAMPLE



THE TWO BEST
NEW
STRAWBERRIES

UNEQUALED
IN
PRODUCTION

UNSURPASSED
FOR
FLAVOR

50¢ per DOZEN Postpaid
ONE DOZEN OF EACH FOR ONLY 75¢



2



3

1902
**VEGETABLE
NOVELTY
COLLECTION**

- | | |
|------------------------|----------|
| 1 Golden Nugget Tomato | 15¢ pkt. |
| 2 Alexandria Squash | 10 " |
| 3 Cumberland Cucumber | 10 " |
| 4 Golden Globe Onion | 10 " |
| 5 Continuity Lettuce | 10 " |

5 PACKETS
FOR ONLY
30 CTS.



1



5



4