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Vaughan's

CHICAGO

New York

1921

HOME EDITION

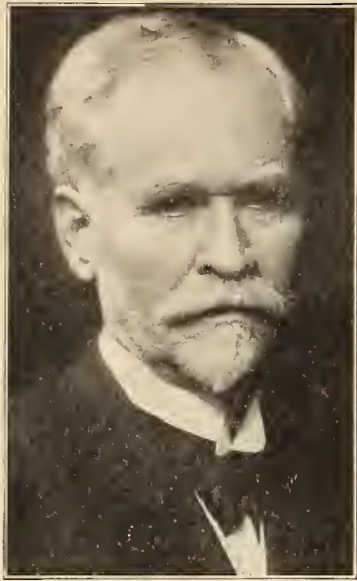
GARDENING Illustrated

WAR

DETROIT
See Inside
Cover.

V-46





J. C. VAUGHAN

WHAT Vaughan's Seed Store SERVICE MEANS

*You Buy More Than Seed When
You Join the Circle of
Our Customers*

VAUGHAN'S SEED STORE was founded in 1876. Its knowledge of the seed business and equipment for conducting it are the product of forty-four years' experience.

Each year of the forty-four has contributed something toward the complete service which its customers receive today, and the forty-fifth year, now beginning, finds this organization studying, testing, seeking, and we believe learning, more than in any year past.

In a commerce so vast, which has endured since civilization began, forty-four years merely brings to maturity and enables a house to take its rank with the other seasoned institutions that serve food-producing mankind.

A seed house of proved worth is more than a store, and the service it renders is more than commercial.

The seedsman is a naturalist and is pre-eminently a conservator, all his activities being devoted to conserving, increasing and improving, rather than exploiting and destroying our natural inheritances.

Great seed houses have so well performed the tasks society lays upon them that, in their respective countries they, and not government or educational institutions, are looked to for authoritative judgment on horticultural subjects. Seed catalogues of the better houses are used as reference books, because they contain accurate information to be found nowhere else.

For Forty-Four Years a Leader.

IN the seed trade of America, the position of Vaughan's Seed Store as a house of the first rank, is undisputed. At the time this is written, the founder, John Charles Vaughan, is actively directing the business he began in 1876. He has been prominent in the allied horticultural trades of this country throughout his career. He has served as president of the American Seed Trade Association and the Society of American Florists. Leonard H. Vaughan,

vice president, directs the vegetable seed department, and supervises testing work, trial grounds and experiments in breeding and selection. Carl Cropp, treasurer, is a specialist with life-long experience in annual and perennial flower seeds.

The very first seeds sold by Mr. J. C. Vaughan were provided at the urgent request of satisfied customer friends, buyers of fruit and shade trees. These worthy gardeners had been sadly disappointed at the poor crops harvested from commission box seeds at that time, 1875, and urged that Mr. Vaughan provide them seeds dependable in vitality, type and productive-

it seemed wisest to incorporate the business so that trained employes could be made part owners, and the officials then chosen still remain in charge of its affairs. From this date the annual volume has increased steadily, passing several years ago a million dollar annual turnover.

During these years, through technical improvements in testing seeds and proving types, higher purity and germination standards have been established and with them Vaughan's Seed Store, through its officials and employes has constantly kept pace.

The latest methods for cleaning and analyzing seed, testing for germination and analyzing for purity, are practiced; while at the same time the advantages acquired from forty-four years in business are retained. Not the least of these, is a thorough knowledge of seed production the world over, and connections of years' standing with expert seed growers in this and other countries.

Searching the World for Seed

AN example of what this means may be given. A buyer of silk, let us say, can easily inspect a sample and determine its quality, so his purchases may be made of who ever offers suitable goods. But inspection will not assure a seed buyer that a sample is as represented. The life germs within the seed may contain all

the excellent qualities of the parent stock he seeks, but the only proof he has is the word of the seller.

It follows that seedsman cannot buy of everyone. They must assure themselves that the growers of the seed they handle are expert and reliable; that they operate in districts favorable to the production of the best seed of their specialties; that their original stocks are sound, and their methods of selection and "rogueing"—or discarding plants untrue to type—are thorough. All good seed are pedigreed—the product of skillful plant breeding—and plantations in seed farms must be carefully watched to see

WHEN you buy SEED, you pay for the PLANTS it may produce. Two packets may be identical in size; but if one is only 10 per cent fertile, while 90 per cent of the second produces plants, then in value to you the second is nine times as large as the first. YOU may easily pay as much for the poor seed, as for the good; and never, we venture to say, is the difference in cost as great as the difference in quality.

THIS is so well known, that expert advice always emphasizes the importance of buying seed from the best source available. In no other line is it so true that "the best is cheapest."

IN some states, laws have been passed, seeking to protect buyers by requiring the labeling of seed, much after the manner of pure food laws. But laws cannot insure quality in seed, as they do in food. Seeds are not manufactured. Nature produces them, the good and the bad. Many conditions which affect their growth are not in the control of men, and laws cannot reach Nature.

THE seed user's only protection is found in purchasing seed from a house whose equipment, experience, size and standards of business are such as to insure its patrons the very best seed that the current world crops afford.

VAUGHAN'S SEED STORE is such a house. Why it is, the article on this page and the next attempt to show you. The best proof is a trial order of our specialties.

ness. The good results from seed thus provided secured these customers and came yearly many more, until the larger part of the gardening fields were sown with Vaughan's seeds. From 1885, the Vaughan's catalogues were distributed annually to many thousands of home gardeners throughout the Middle West.

The critical inspection and requirements that all seeds be true to type and of highest germination had laid a broad foundation for the building of a business.

In 1901, with the growth of the business from a volume of a few thousand dollars yearly to several hundred thousand,

Special Cover Collection

front cover), Schwaben, Europe, Margaret, Martha Washington, Primulinus Sunbeam, Panama, Baron J. Hulot, Princes, Pink Perfection and Ruffled Glory. Sent prepaid in the United States for \$2.50.

TWELVE BULBS, one each of the following splendid varieties, including Detroit, which sells for \$1.00 per Bulb, and War (pictured with Detroit on

that no throwbacks or unworthy specimens of the family intrude themselves.

The combination of favorable soil and climatic conditions and expert skill in seed growing is not found everywhere. The good seedsman must roam the world in search of the best products for his warehouses. Many more vegetable seed are now produced in this country than before the war; but flower seed are still nearly all imported from France and Germany. Spring flowering bulbs, of which Vaughan's Seed Store is the largest American importer, are brought from Holland, England, France and Japan. Almost every country has some specialty which cannot be obtained elsewhere in the finest quality.

An example is the exclusive strain of Chinese cabbage, of the variety called PeTsai, which Vaughan's Seed Store controls in this country. This seed is obtained from a Chinese family which has developed it by expert selection for fifty years, in order to produce the tall, slender beautifully bleached heads which are so tempting to the appetite (see the illustration on our back cover).

Trial Grounds and Seed Farms

WHILE keeping up his supply of tried varieties, the seedsman must be ever on the lookout for new; and the house which values its reputation carefully avoids recommending novelties which have not been thoroughly proved. This requires expensive trial grounds. In Vaughan's seed farms in Michigan and Illinois, all novelties not proven on the grounds of the introducer are tested for one or more years before being catalogued, and here, also, seed of the old varieties are tried out year after year to make sure that our stocks are suffering no deterioration.

Here, also, we grow much of the seed we sell, of varieties for which the soil and climate are favorable. Peas, beans, melons, cucumbers, sweet corn and gladioli are grown on our Michigan farm.

On the front cover of this catalogue is an illustration of one of our fields

For 35 Years Our Chicago Downtown Store Has Been Near State and Randolph Streets, the Center of the Greatest Shopping District in This Country. Below is Our Present Chicago Retail Store, a 4-Story Building at 10-12 W. Randolph Street, Two Doors From State Street.



Harvesting Rosen Rye on our Michigan Farm.



of gladioli in bloom. One hundred and twenty acres are grown in Michigan, and fifty more at our farm near Homewood, Ill.

Both in Michigan and Illinois we maintain large warehouses for the storage of seeds, bulbs and onion sets; for the scientific storage of these wares, between the harvest and the planting season, is an important part of the seedsman's service.

Testing and Distributing

OF the ten cents you pay for a packet of seed, not all is required to pay the actual cost of the seed, as you may have surmised. The greatest expense of the service Vaughan's Seed Store renders you is found in the extreme care with which this seed must be tested, stored, sealed and sorted, and then the particular varieties you want picked out from among the thousand others and mailed to your door, ready for you to plant.

Only by systematizing operations so that they are conducted on a great scale at the smallest unit expense, is it possible to handle so many distinct varieties, of so high a standard, for so small a sum.

Greenhouses and Nurseries

VAUGHAN'S service, as those who have patronized us in past years so well know, does not stop with supplying the gardener with seed. Tools and supplies, as well as plants, trees and nursery stock, are obtainable from us. Our greenhouses and nurseries at Western Springs, Ill., have



View of Vaughan's Nursery Grounds, Western Springs, Ill.



A Scene in Our Seed Laboratory Where All Seeds Purchased Are Tested for Purity and Germination Under Supervision of a Government Trained University Graduate.

long been the chief source of supply for Chicago homes and the suburban communities surrounding this city. For thirty-five years, our retail store in the vicinity of Randolph and State streets, has been a center for the gardeners, both amateur and professional, of this territory. Here they have been supplied with every need, including sound advice in dealing with the problems of planting.

The Best Home Garden Vegetables

By J. C. Vaughan

NOT everyone who is lucky enough to have a home garden realizes his good fortune. Some, perhaps, not understanding their opportunities, fail to enjoy their advantages to the full. But every home gardener has it in his power to place on his table at a fraction of the market cost, vegetables of a quality which no market can offer.

One reason is that market growers are oftentimes unable to make table quality the first consideration in selecting their specialties. They must consider the shipping qualities of vegetables; and this frequently rules out the tenderest varieties. Another handicap to the market grower is popular custom, which leads a buyer to set up arbitrary standards of color and size. Though the reason for these standards is a belief that they insure quality, too often they defeat their aim.

Most gardeners can remember when Golden Bantam sweet corn first began to be known, and encountered opposition from the popular idea that all yellow corn was tough and tasteless. Doubtless thousands even now are ignorant of the fact that some of the tenderest and sweetest of all sweet corns have yellow grains, and are at the height of their deliciousness just when they have begun to reach that tint.

And many of those who know this, and who well understand that the midget Golden Bantam is not surpassed for table quality, would hesitate, we suspect, to pay the market price per dozen for its small ears, if the market grower offered them for sale. Such is the prejudice in favor of size, when we come to buy.

This brings us to another handicap of the market gardener. He cannot produce successfully, save in exceptional cases, vegetables which deteriorate rapidly after being picked. And sweet corn is notably one of these. Government experiments have established that sweet corn begins to lose its sugar content immediately after being picked. In twelve hours 40 per cent of its sweetness has gone, if the ears are subjected to summer temperatures. By placing them on ice deterioration may be checked; but to enjoy to the full the delicious tenderness of sweet corn, it must be eaten within half an hour from the time it has been pulled from the stalk.

Now, only the home gardener can do this. If his garden plot be large enough a few rows of Golden Bantam, and its big brother, Bantam Evergreen, will furnish the pleasantest of summer episodes—a series of feasts such as money, though offered in princely sums in the most regal of our metropolitan restaurants, cannot buy.

When Root Crops Are Tenderest

SWEET corn, perhaps, is the most conspicuous example of the home gardener's advantage, but there is almost no vegetable, on the other hand, that does not deteriorate in some degree after being picked, and which is not better flavored if served very soon. Green peas, for example. The wonder of Laxtonian or Little Marvel peas, served June 1 or even a few days earlier (in the latitude of Chicago) is known in its full flavor only to the home gardener. The exquisite sweetness harbored in these wrinkled pellets, suffers with every hour that passes after they have been taken off the vine; and if they are obliged to lie in the hot sun in a green grocer's display window, the loss of quality which results is, to one who knows them at their best, a crime.

Beans also lose flavor rapidly, and those who are obliged to buy their supplies have no real knowledge of the delightful table quality of Stringless Green Pod, Bountiful or Improved Golden Wax. No home garden is too small for a row or two of these bush varieties. And beans of the sort a home gardener can serve will provide the main dish of a dinner as nourishing and delicious as any that can be planned.

Of the root crops much

the same is true. Deterioration is not so rapid, perhaps, but the home gardener may enjoy many of them at their best because he is able to harvest them half grown. Carrots, beets and turnips, for example, are tenderest when about half the size at which they are usually marketed. The home gardener thins his rows, and prepares from the vegetables he pulls up creamed carrots—Early Chantenay, perhaps; and those he leaves in the row will grow by autumn to be well worth storage care for the winter. Crosby's Egyptian Beets, let us say, harvested when in the infant stage and cooked with their tops as greens, will be a revelation to anyone not accustomed to a home garden.

When it comes to salad vegetables, whose crisp and spicy qualities are so important to the summer menu, the advantages of early serving are not so great. Lettuce, radishes, endive, cucumbers, tomatoes, green onions, all may be kept easily on ice or freshened quickly in cold water, for which flat dwellers may give thanks. But the home gardener still has the advantage of being able to plant his garden with the choicest varieties, and include in his list of supplies a greater assortment than any green grocer carries.

Romaine and Other Lettuces

IN the case of head lettuce alone, the amateur gardener sometimes has difficulty equaling the quality attained by the professional; but this is a question of fertilization and cultivation; and it may be said that once the home gardener has tried and learned the effect of a moderate dose of commercial fertilizer, he will never be without it. There is no other salad crop where, with reasonably good soil and plenty of water and sunshine, the home gardener may not achieve the highest quality.

Grand Rapids, Black Seeded Simpson or Prizehead leaf lettuce, will furnish a sure crop, which will last far into the summer, if succession plantings are provided; while Big Boston and All Seasons head lettuce will respond readily to correct treatment. And if the home gardener finds it difficult to grow head lettuce at its best, he may turn with assurance to Romaine, or Cos lettuce, which many good judges consider to be the most delicious of all. Cos lettuce grows in upright loosely folded heads, and the leaves are bleached by tying the heads up. Express Cos is recommended for northern gardens.

Among the radishes the home gardener may take his choice, and plant a succession of the different types—red or white, round or long. He may suit his individual taste, whether for mild or hot flavor; and may so plan as to harvest one or the other variety each week until after frost, when the winter varieties, including the giant Chinese Mammoth, are at their best.

Endive is a salad rarely sold in the markets, but the home gardener will find it easy to grow, and an excellent addition to the menu. In order to avoid a bitter flavor, which some like, but most persons dislike, it is necessary to bleach the heads by tying them up, and this is most successfully done after a light frost, endive being at its best in the fall. Green Curled Summer is the standard variety for this use, and a well bleached head is a thing of beauty as well as a delight to the palate.

So-called French endive, or Witloof Chicory, provides a delicious winter salad, when the roots are forced in a warm cellar.

Cucumbers cannot be spared from the salad combination, and the home gardener may enjoy specimens of a quality rare, indeed, in the market. The English forcing varieties, long and slender, have long been the models of cucumber quality. By crossing with white spine varieties, which are successful outdoors in this country, there has been produced The Vaughan cucumber, which will bear in the home garden, as well as in the greenhouse, fruits of a remarkable length, slenderness and uniform size.

Tomatoes must be chosen with the requirements of the grower in mind. So unexacting are this vegetable's demands as to soil, that the home gardener may grow what he will. Choose Earliana or John Baer for early, Ponderosa if giant size is wanted in the main crop, or New Globe if smooth roundness is preferred; while Dwarf Stone and Dwarf Champion, both with upright treelike growth, are economical of room, if space is a consideration; and their fruits, of good size and even shape, are excellent.

Cabbages and Chard

CABBAGES are becoming recognized as excellent additions to the salad list, in particular the Chinese cabbage of the type known as Pe Tsai, illustrated on the back cover of this catalogue. It is a beautiful vegetable, tall and slender with compact, well bleached heads; and its crisp, mild flavor makes a dish halfway between a lettuce and a slaw. The seed should be sown late, just in time to get a good start before dry weather, and then with attention through the dry spell, they will mature when cooler weather comes. Savoy cabbages are also of the highest quality, both for salad and for cooking.

Kohlrabi is a crop which the home gardener can grow at its best. It has been called a root crop, which grows above the ground; and will be especially welcomed by those who like turnips, but cannot succeed with them. It must be eaten when half grown to avoid woodiness. Another vegetable which is eaten in infancy is the English vegetable marrow, which is becoming popular in this country. This is a squash, which should be grown rapidly, gathered while the outside skin may be easily broken by the finger, and served hot—boiled, mashed, baked or fried like egg plant. In the latter form it is as delicious as egg plant, and it is far easier to grow.

Swiss chard, a vegetable which no home garden should be without, is seldom to be obtained in the markets. The home gardener will be wise not to plant too much of it, because a row of twenty feet will furnish a whole season's supply, probably as often as he wishes to cut it.

QUANTITY OF SEED REQUIRED FOR PLANTING.

Vegetables.	Seed Required for		Distance for Plants		Ready for Use from Seed in about
	100 Ft. Row.	One Acre.	In Rows	Rows Apart.	
Artichoke	1 oz.	6 ozs.	2 ft.	3 to 4 ft.	8 mos.
Asparagus	2½ oz.	4 lbs.	1 to 2 ft.	3 to 4 ft.	3 to 4 yrs.
Beans, Bush	1 qt.	1½ bush.	6 in.	2 ft.	45 to 65 days
Beans, Pole	1 pt.	10 to 12 qts.	3 ft.	4 ft.	65 to 90 days
Beet, Table	2 ozs.	5 lbs.	4 in.	1 to 1½ ft.	75 to 85 days
Beet, Mangel	1 oz.	5 lbs.	8 in.	2 to 2½ ft.	150 to 180 days
Broccoli	1-3 oz.	2 ozs.	2 ft.	2½ ft.	4 mos.
Brussels Sprouts	1-3 oz.	2 ozs.	2 ft.	2 ft.	100 to 120 days
Cabbage, early	1-3 oz.	6 ozs.	18 in.	2½ ft.	100 to 120 days
Cabbage, late	1-3 oz.	6 ozs.	2½ ft.	3 ft.	125 to 180 days
Carrot	1 oz.	3 to 4 lbs.	4 in.	1½ to 2 ft.	75 to 120 days
Cauliflower	1-3 oz.	½ lb.	2 ft.	2½ ft.	100 to 135 days
Celery	1-3 oz.	2 ozs.	6 in.	3 to 4 ft.	125 to 150 days
Corn-Salad	3 oz.		4 in.	12 to 18 in.	65 days
Corn, Sweet	½ pt. to 100 hill	8 qts.	3 ft.	4 ft.	65 to 100 days
Cress	½ oz.	2 to 3 lbs.	1 in.	1 ft.	30 to 35 days
Cucumber	1 oz.	2 lbs.	4 ft.	4 ft.	60 to 85 days
Egg-Plant	1-3 oz.	4 ozs.	2½ ft.	3 ft.	50 to 75 days
Endive	1 oz.	4 lbs.	1 ft.	1½ ft.	150 to 180 days
Kale	1-3 oz.	2 ozs.	1 ft.	2½ ft.	100 to 120 days
Kohlrabi	1-3 oz.	4 lbs.	6 in.	1½ ft.	75 to 85 days
Leek	1 oz.	4 lbs.	6 in.	1½ ft.	120 to 160 days
Lettuce	1 oz.	3 lbs.	1 ft.	1½ ft.	65 to 100 days
Melons, Musk	½ oz.	2 to 3 lbs.	4 ft.	5 ft.	115 to 140 days
Melons, Water	1 oz.	4 lbs.	8 ft.	8 ft.	120 to 140 days
Okra	2 ozs.	10 lbs.	1½ ft.	2 ft.	90 to 125 days
Onion	1 oz.	5 to 6 lbs.	3 in.	1 ft.	135 to 150 days
Parsley	½ oz.	3 to 5 lbs.	4 in.	1½ ft.	125 to 150 days
Parsnip	½ oz.	3 to 5 lbs.	6 in.	1½ ft.	125 to 150 days
Peas	1 to 2 pts.	2 bu.	2 in.	2 to 4 ft.	50 to 75 days
Pepper	1-3 oz.	½ lb.	2 ft.	2 ft.	140 to 150 days
Potato, cut		7 to 10 bu.	1 ft.	2½ ft.	80 to 140 days
Pumpkin	1 pkt.	4 lbs.	8 ft.	8 ft.	100 to 120 days
Radish	1 oz.	8 to 10 lbs.	2 to 4 in.	1½ ft.	20 to 50 days
Salsify	1 oz.	8 lbs.	6 in.	1½ ft.	125 to 150 days
Spinach	1 oz.	10 lbs.	4 in.	15 in.	30 to 60 days
Squash, Bush	4 lbs.	4 lbs.	3 ft.	4 ft.	60 to 75 days
Squash, Late	4 lbs.	4 lbs.	7 ft.	8 ft.	100 to 125 days
Tomato	2 to 4 ozs.	4 ft.	4 ft.	4 ft.	100 to 125 days
Turnip	½ oz.	2 lbs.	6 in.	1 ft.	60 to 75 days

If the ground lacks humus or vegetable matter, it may be economically supplied by plowing under growing crops. Pure Animal Fertilizers, unlike the chemical products, have a most beneficial effect upon the mechanical condition of the soil. They add humus and tend to make the ground loose and friable. They restore to the soil those elements which were taken from it, and in the purest state, the smallest compass, the most available form, and free from weed seeds or other trouble breeders.

ASPARAGUS

Growing From Seed or Roots

EVERY home garden should have an asparagus bed, for there are few Spring vegetables as palatable. The idea that asparagus is hard to grow is not well founded—it should have very rich soil with good drainage and cultivation; but it is hardy and prolific, has a long season, and bears well for a number of years.

SEED PLANTING.—Asparagus may be raised from seed and a crop obtained in three years. In early Spring sow the seed, after soaking it twenty-four hours in warm water, in drills about one foot apart and one inch deep. The soil should be very rich and well worked. When about three inches high, thin the plants to three or four inches apart in the rows, and cultivate often and thoroughly through the summer. The following Spring, select the best of the roots and place in the permanent bed, which should, for the sake of earliness, have a sunny and sheltered situation.

ROOT PLANTING.—A year may be saved by buying the plants (one year old are greatly to be preferred) and setting them at least two feet apart in the row, and the rows not closer than four feet; see that the roots are well and evenly spread out in planting and that they are not exposed to the air longer than is absolutely necessary, as they deteriorate rapidly. A liberal dressing of manure in the fall, good cultivation, and a spring dressing of truck manure (1,500 pounds to the acre) and nitrate of soda (200 pounds to the acre) will be sure to give good results.

CUTTING.—Asparagus should not be cut until three years old, and not freely till the fourth year. Do not cut after July 1st, but cultivate and let the roots regain their strength. In the fall, when the foliage is yellow, cut and burn it before the berries fall.

Early Giant Argenteuil

Famous Parisian Asparagus, grows to large size, vigorous and fairly free from rust; superb flavor. Our seed is from one of the largest plantations near Paris.

A101 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

Bonvallet's Giant

Equally good, grown white or green. The white grass is produced by planting deeper than for green, the stalks being cut underneath as the tips show above the ground. Bonvallet's Giant is now planted by the market growers in the Middle West to the exclusion of almost all others on account of its extreme vigor and rust resistance.

A105 Pkt., 10c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; lb., \$1.50.

Palmetto. Standard light green.

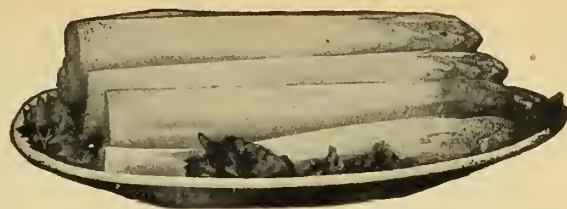
A102 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Columbian Mammoth White. Large semi-white shoots—without earthing up.

A104 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

Conover's Colossal. A large, fast growing variety.

A100 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.



BONVALLET'S GIANT

Washington Rustproof

The result of a plant-breeding campaign started by the United States Department of Agriculture to produce a rust resistant asparagus. Rust resistant and vigorous plants selected from thousands have been crossed with a single male plant "Washington" and most careful re-selection practiced.

A106 Pkt., 25c; oz., 40c; ¼ lb., \$1.25; lb., \$4.00.

Roots—2 year old, dozen, 60c; by mail, 70c; 100, \$3.00; by mail, \$3.50.

Asparagus Roots

	1-Year Old			2-Year Old			3-Year Old		
	Doz.	100	1000	Doz.	100	1000	Doz.	100	1000
Bonvallet's Giant...	\$0.30	\$1.50	\$11.00	\$0.50	\$2.25	\$15.00	\$0.75	\$2.75	\$20.00
Barr's Mammoth .....				.50	2.25	15.00	.75	2.75	20.00
Argenteuil (Giant).....				.50	2.25	15.00	.75	2.75	20.00
Conover's Colossal.....				.30	1.75	12.00	.50	2.50	17.00
Columbian Mammoth .....				.40	2.00	14.00	.50	2.50	17.00
Palmetto .....	.25	1.35	10.00	.30	1.75	12.00	.50	2.50	17.00

If by mail add { (Doz., 5c { (Doz., 8c Roots and transplants postage as follows: { (100, 35c { (100, 50c by express only

Extra heavy 3-year-old transplants for forcing and immediate results. Barr's Mammoth, Argenteuil and Bonvallet's Giant, doz., \$1.00; 100, \$3.50; 1000, \$27.50.

Other sorts, doz., 75c; per 100, \$3.00; per 1000, \$25.00.

Artichoke

Green Globe. Perennial, large-flowering heads, cooked like Asparagus. Matures second year; not hardy in the North.

A1 Pkt., 10c; oz., \$1.00.

Jerusalem Artichoke Roots. Best hog food known. Easily grown. Three bushels plant an acre, enough to keep 20 to 30 hogs from October to April. Cut and plant like potatoes. Lb., 35c; 3 lbs., 85c.

Chicago, freight or express. Pk., 85c; bu., \$2.50; bbl., (2¾ bu.), \$5.50. New York, by freight or express. Pk., \$1.00; bu., \$3.00; bbl., (2¾ bu.), \$6.50.

Use Poles at Least 6 Feet

Pole—LIMA BEANS—Bush

Plant With Eyes Down

Carpinteria Pole Lima

Many expert growers declare Vaughan's "Carpinteria" is the most "perfect Pole Lima Bean." It is as prolific as any white lima; the vines are strong and vigorous, having many stalwart runners bearing great quantities of elegant pods, each containing usually four big, full, fat, juicy beans of delicious flavor.

B171 Pkt., 15c; lb., 45c; 2 lbs., 90c; 10 lbs., \$3.75.

LIMAS should be planted a little later than the other running beans, in the most favorable location possible, as they are very late in maturing. They may be sown in hills, or in rows, and allowed to run on chicken wire or strings and thinned to eight or ten inches apart. The Bush Lima is more easily grown than the tall, and is earlier and more economical of space. Many, however, consider the Tall Lima the best-flavored of all beans.

New Wonder Bush Lima

The recognized standard of bush lima bean quality, so considered by critical experts of highest authority. For general purposes Vaughan's Strain of this splendid sort has now come to be used in all gardens where Bush Limas are planted. Plants are large, prolific, compact and long bearing, maturing in mid-season; the pods are very uniform, slightly curved and usually

contain three seeds. Vaughan's New Wonder, bred from one of the earliest bush limas, is a greatly improved sort in compactness, little tendency to make runners, and in earliness.

B155 Pkt., 10c; lb., 45c; 2 lbs., 85c; 10 lbs., \$3.75.

Fordhook Bush Lima Bean

Is the old "Dreer," "Potato" or "Kummerle" improved. This new sort grows very erect, does not come in contact with the ground as did the older sort, named above; pods are twice the size of the "Kummerle" and contain 4 to 5 large, thick, beautiful green beans. In contrast to the old sort, which was dry and mealy, this new Fordhook is tender, sweet and juicy; a richly palatable bush lima bean.

B154 Pkt., 10c; lb., 50c; 2 lbs., 90c; 10 lbs., \$4.00.

Improved Bush Lima—Burpee's

This improved Burpee's has larger pods and beans than the original. The vines are heavier and produce larger pods than "New Wonder"—and they mature a week earlier. Vaughan's strain of this excellent sort gives the greatest satisfaction to patrons.

B159 Pkt., 15c; lb., 50c; 2 lbs., 90c; 10 lbs., \$4.00.

Bush Lima—Burpee's. Bush 15 to 20 inches high, 24 to 30 inches diameter, large white seeds; thick stems furnish fine support; very productive and splendid quality.

B158 Pkt., 10c; lb., 45c; 2 lbs., 85c; 10 lbs., \$3.75.

Bush Lima—Henderson's. Crop reliable, very productive, compact form, free from mildew.

B156 Pkt., 10c; lb., 40c; 2 lbs., 75c; 10 lbs., \$3.00.

Write for prices on 100 lb. lots or larger on any kind.

Early Leviathan

Exceptionally early, it equals the main crop varieties for large pods; clusters of 5 to 8 grow together and they are full of fine beans of excellent flavor.

B172 Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$3.00.

Siebert's Early Lima

Hardy, early and an enormous producer, a grand variety for northern climates. Pods are dark green, medium long, well filled with 3 or 4 large beans.

B165 Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$3.00.

King of the Garden. A climber that blooms and produces to end of season. Uniform pods, 5 to 8 inches long, filled with beautiful beans of superior quality.

B166 Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$3.00.

Ford's Mammoth. Pods grow in large clusters and contain from 5 to 7 good beans; edible, green or dry.

B170 Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$3.00.

Challenger or Dreer's Improved. Thick pods, good size and flavor.

B169 Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$3.00.

Ideal Pole Lima. Excepting only "Carpinteria," this is best for market in Central States and where main crop can mature. Pods are large, some 8 inches long.

B164 Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$3.00.



NEW WONDER BUSH LIMA



CARPINTERIA—NEW GREEN SEED LIMA



IMPROVED GOLDEN WAX

BUSH BEANS—Wax

The Small Garden Standby

BUSH BEANS are much earlier than Pole Beans, and are usually the main crop in northern gardens. Sow when the ground is warm in rows about fifteen inches apart and thin the plants to about four inches apart in the rows. Keep the surface soil soft and the rows free from weeds. Do not cultivate when the plants are in bloom, as it prevents the flowers from setting pods, and cultivating while the vines are wet or damp with dew spreads disease.

Improved Golden Wax

A medium early and heavy cropper, on vines of vigorous bushy growth, a good rust-resister. The pods are golden yellow, fleshy and solid, brittle, waxy texture, excellent for home and market garden. They have an exquisitely rich butter flavor, make fine eating. May be sown any time to early fall, with assurance.

B136—Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50.



Pencil Pod Black Wax

Bushy vines, very prolific, 15 inches high, bear round, thick, stringless, rich yellow pods, 6 to 7 inches long, containing black seed of excellent quality.

B147—Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50.



Davis Kidney Wax

Vines vigorous and very prolific, bear handsome waxy white pods 7 inches long; the finest appearing of all early wax beans. To make this variety entirely rust-proof we select constantly and with great care. The dried beans are kidney-shaped, clear white, splendid for baking; but grown for Snap Beans they should be used while young, when free from strings.

B144—Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50



Sure Crop Wax

Black Seed. An extra early, perfectly stringless flat Wax Bean. The pods are large and of a golden yellow color, which they assume while still very small.

B142—Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$2.75.



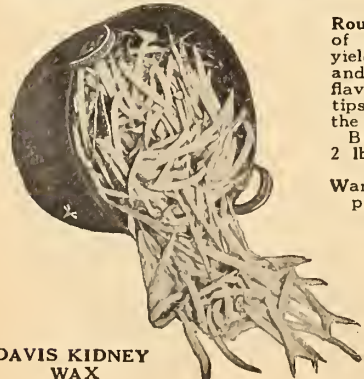
Round Pod Kidney Wax—Is early, of vigorous growth with heavy yielding vines; pods are long, round and entirely stringless; have fine flavor and are edible to the very tips. One of the best of the round pods.

B149—Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$2.75.



Wardwell's Kidney Wax—In western prairie soil this sort is at its best, and gives most gratifying results. The pods are 7 inches long, flat, brittle, stringless, straight, finely shaped, beautiful yellow, distinct and attractive; they make delicious eating.

B131—Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$2.75.



DAVIS KIDNEY WAX

Currie's Golden Wax—Early, hardy, nearly rust-proof. Long, golden yellow pods, crisp and tender. The seed is black. A much planted sort.

B143—Pkt., 10c; lb., 30c; 2 lbs., 60; 10 lbs., \$2.25.

Hodson Wax—The greatest yielder of garden varieties. Season medium early, vines bear a mass of long, straight pods, resembling the Davis Wax.

B150—Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50.

Michigan White Wax—A white seeded high quality Golden Wax type.

B145—Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$2.75.

New Kidney Wax

A flat, long podded, beautiful wax bean, perfectly stringless and of the highest eating quality. Round podded wax beans have generally been regarded as of better quality than the flat sorts; there is a flat podded bean, however, with all that can be desired as regards appearance, tenderness and flavor. In addition to these features the New Kidney Wax is a robust grower and a splendid yielder. Pods 6 to 7 inches long, very thick and meaty. Vines 18 to 20 inches in height.

B137—Pkt., 10c; lb., 40c; 2 lbs., 80c; 10 lbs., \$3.50.

Ten Ways to Cook Beans

IT IS of the greatest importance to the home gardener that the products of his wheel hoe be served properly. A good cook will double the value of a garden.

Most of us know one good way to cook everything but one way becomes monotonous, and we let good vegetables go to waste for lack of knowledge how to make them taste different.

Vaughan's Vegetable Cook Book supplies this knowledge. It contains a collection of tested recipes for preparing garden vegetables. Under the heading of Beans, for example, there are ten recipes. There are 64 pages of solid information and it is sent, if requested, with each order of \$2.00 or over, or sold for 35 cents.

Vegetable Nomenclature

MULTIPLICITY of names in the list of Vegetable Seeds carried by the different Seedsmen causes a great deal of confusion to the amateur and market gardener planters. Vaughan's Seed Store has been and is conducting trials on its own farms and is in consultation with growers and other seedsmen with the object of getting rid of all duplicates.

Rapid Growth is Desirable. Vegetables that are hastened in their growth by the use of fertilizers are usually crisp, succulent and palatable. Slow growth tends to cause a bitter flavor in lettuce, a sharp flavor in onion and a pungent taste in the radish.

Rapid growing vegetables usually bring the highest market prices.

Use Commercial Manures. Livery stables have been converted into garages and animal manures are scarce. Live stock has decreased over twelve million

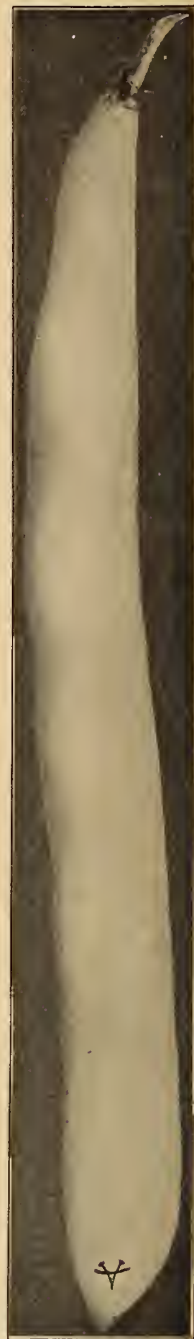
head in the past seventeen years. When you can't get all the manure you need, use Commercial Fertilizers. They furnish the same elements of food, but in more concentrated form; see page 57 for prices, which are lower this year.

Try Nitrate of Soda, 1 oz. to 2 gallons of water, applied to your cabbage when a foot high; the result will surprise you.

BLACK LEAF 40 is a sure destroyer of Aphis or Green Fly and all sucking insects. Keep a careful watch for lice (aphis) under the leaves of your beans and spray with Black Leaf 40 immediately you find any. Full directions on package. See page 59.

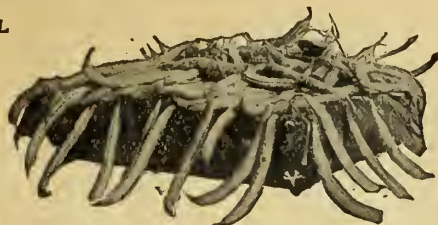
ENCOURAGE GOOD HEALTH BY THE FREE USE OF VEGETABLES

Asparagus assists in the cure of kidney trouble. Beets and Potatoes are fat producing. Carrots aid digestion. Lettuce is a remedy for insomnia. Lettuce, Onions and Celery are good nerve tonics. Parsley and Endive are good for dyspepsia. Parsnips are a good spring medicine. Spinach is excellent for the kidneys. Tomatoes will stimulate the liver. Water Cress is a good braicer. A liberal use of the above will save doctors' bills.



WARDWELL'S WAX

VAUGHAN'S BOUNTIFUL STRINGLESS



Stringless Green Pod

The great leader in green pods for general purposes; it is early, and very prolific, the vines bearing long, round, straight, thick, meaty pods, free from strings or fiber; rich deep green color, very attractive and of excellent quality. For succession plant every two weeks, until September.

B114—Pkt., 10c; lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25.



Bountiful Stringless

A "Long Yellow Six Weeks," improved by earlier growth, hardness, and more prolific yield. The flat pods are better, larger, more tender than the original. They have a distinctly fine quality which makes them desirable for home garden planting.

B118—Pkt., 10c; lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25.



Black Valentine

It is not as early as "Improved Red Valentine," the original strain from which this was developed and improved, but it is suited to both early and late planting; its hardness overcomes light frost. The pods are a third longer than Red Valentine, and grow in clusters perfectly straight and round.

B110—Pkt., 10c; lb., 25c; 2 lbs., 50c; 10 lbs., \$2.00.



Giant Stringless Green Pod

An immense type of "Improved Early Valentine" and nearly as early. The pods have all the excellent qualities of the original with much greater size, which greatly improves the appearance. A splendid succession sort to Stringless Green Pod.

B116—Pkt., 10c; lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25.

Seattle, Washington.

Your Vaughan Cucumber is the best we have ever grown. Ninety per cent of them were fancy grade, bringing the top price in our market.

A. F. HAAS, 2903 Yesten.

**BUSH BEANS
Green Pod**

Other Good Varieties

Refugee Or 1000 To 1—A producer of remarkably large crops. Compared with Valentine it is similar in general qualities, with pods a third longer and tapering to a point; they are perfectly round.

B104—Pkt., 10c; lb., 30c; 2 lb., 60c; 10 lbs., \$2.25.

Full Measure—A new main crop variety of bush bean—a Stringless Round, Green Pod Bean.

B111—Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50.

Extra Early Refugee—Similar to the Refugee; two weeks earlier.

B100—Lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25.

English Broad Windsor—An English Dwarf Bean, eaten shelled, best of class.

B122—Lb., 40c; 2 lbs., 75c; 10 lbs., \$3.50.

Dwarf Horticultural—Late heavy yielding. Flat yellow pods spotted with red.

B123—Lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50.

Sutton's Masterpiece—The best of the greenhouse forcing beans. The pods are flat like Bountiful, but larger and thinner. Early in season and a heavy yielder.

B103—Pkt., 15c; 1 lb., 45c; 2 lbs., 80c; 10 lbs., \$4.00.

Longfellow—(Round Pod)—Very handsome, nearly stringless, beautiful green pods, 7 to 8 inches long, straight and round, very prolific.

B117—Pkt., 10c; lb., 25c; 2 lbs., 50c; 10 lbs., \$2.00.



Improved Early Red Valentine—Is very hardy and early, germinates in cold ground where other sorts would not. Vines are about 15 inches high, yield well; pods are round and fleshy and eaten when young are of good quality; the seed is red spotted.

B107—Pkt., 10c; lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25.

Improved Navy—Fine field sort.

B109—Lb., 15c; 2 lbs., 25c; 10 lbs., \$1.25.

White Kidney—Shell beans.

B105—Lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25.

Red Kidney

B119—Lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25.

Price per packet of above three varieties, 10c.

Vaughan's Specials



We use this sign to indicate sorts which we grow ourselves or stocks which we control absolutely.

THERE ARE NONE BETTER

POLE BEANS—GREEN AND WAX

Try Them if You Have Room and Use at Least 6-foot Poles

POLE varieties are more tender than the bush varieties, and must not be planted until the weather is settled and the ground warm. Set the poles about three to four feet apart, and in each hill plant six to eight beans, thinning when well started to the four strongest.

Kentucky Wonder Wax—The best pole wax bean for northern planting; it is similar in habit of growth to "Kentucky Wonder Green Pod," and bears as early, or when about as high as the average bush bean. Pods are beautiful golden yellow, and so fleshy that often the thickness surpasses the width; make delicious eating.

B183—Pkt., 15c; lb., 45c; 2 lbs., 90c; 10 lbs., \$3.75.

Early Golden Cluster Wax—Long, stringless; fine quality; pods in clusters; pure white seeds.

B184—Pkt., 15c; lb., 45c; 2 lbs., 90c; 10 lbs., \$3.75.

Burger's Stringless Green Pod—Small, white bean; good for baking; long bearing vines.

B190—Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$2.75.

White Creaseback—Early; long, round, green, stringless tender pods; white beans.

B188—Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$2.75.

Kentucky Wonder Or Old Homestead—Green pod. The old reliable Green Pod Pole Bean. The most widely and universally planted of all the pole varieties. The pods are fleshy, saddle backed, green, 7 to 10 inches long and stringless when young. Kept picked, they bear throughout the season.

B191—Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.75.

Dutch Caseknife—Early, long, green, flat pods; white seeds.

B186—Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$3.00.

Horticultural Cranberry—For cool climate; early; flat green pods, white seeds; good snap or shell.

B187—Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.75.

Lazy Wife—Good shell beans; long, thick, stringless pods. Crop very short.

B185—Pkt., 10c; lb., 45c; 2 lbs., 85c; 10 lbs., \$3.75.

Scarlet Runner—Ornamental, bright red flowers; good snap bean.

B189—Pkt., 10c; lb., 40c; 2 lbs., 80c; 10 lbs., \$3.50.

Yard Long—Or French Asparagus Bean. New and Rare Foreign Beans; cannot offer this season.

B195—Pkt., 15c.

Cleveland, Ohio, Feb. 13, 1920

I was in your store last spring and asked one of your clerks what the best sweet corn you had for the home garden. He gave me some of your Bantam Evergreen, and I fully agree with him that it is the best sweet corn ever put on the market.

CHAS. APP.



STRINGLESS GREEN POD

OUR FREE DELIVERY—See inside back cover page explaining FREE DELIVERY to first three postal zones. FOR 5 CENTS PER POUND MORE WE PREPAY TO ALL ZONES.

BEETS

THE soil for Beets, like all root crops, should be light, rich, fine and deeply cultivated. Sow in rows twelve to eighteen inches apart and about one inch deep; thin early to about three inches apart, and in gathering the early beets, pull alternate roots so as to leave about six inches of room for the mature roots. For the home garden a succession planted about three weeks apart will keep the table supplied with young beets throughout the season. Beets intended for winter store should not be sown until late in the summer, the crop being harvested and stored in a cool place, or cellar.

Crosby's Egyptian

This is a beet famous both for shape, color and quality. Vaughan's Crosby beet is very early; has deep red color; is smooth and tender, has sweet flesh that is richly palatable. To retain earliness it should be grown with greatest care—it is worth the attention it demands.

VAUGHAN'S SELECTED STOCK.

B416 Pkt., 10c; oz., 20c; 2 oz., 35c; ¼ lb., 55c; lb., \$1.75. By express, 5 lbs., \$7.50.

STANDARD STOCK.

B411 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00. By express, 5 lbs., \$4.00.

HALF LONG BLOOD. A splendid winter sort, half the length of "Long Smooth Dark Blood," but equally heavy, because thicker. Always smooth, rich dark red; flesh sweet, tender and crisp. Never woody.

B405 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00. By express, 5 lbs., \$4.00.

ECLIPSE. Roots globular, small tap root. Flesh dark red, zones lighter shade, very sweet, crisp and tender, especially when young.

B402 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00. By express, 5 lbs., \$4.00.

ELECTRIC. Early as Egyptian, well liked in Eastern markets. Is almost round, leaves small, color very dark rich crimson.

B404 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00. By express, 5 lbs., \$4.00.

IMPROVED EARLY EGYPTIAN. The best variety for forcing and first early crop. Roots very dark red, rounded on top, flat beneath, small tops.

B400 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00. By express, 5 lbs., \$4.00.

Detroit Dark Red Turnip—Main Crop

Unequaled as a big cropper everywhere. Vaughan's strain of this perfect turnip-shaped beet produces best quality, biggest crops and most profit for growers. Skin, dark blood red, flesh, bright red, sweet, tender and delicious. A friend in any garden for home or market.

B412 Vaughan's Selected Stock. Pkt., 10c; oz., 20c; ¼ lb., 55c; lb., \$1.85. By express, not prepaid, 5 lbs., \$8.00.

B413 STANDARD STOCK. Pkt., 10c; oz., 15c; lb., 35c; lb., \$1.10. By express, 5 lbs., \$4.50.

Vaughan's Fire Ball

It has no superior in quality. It is early, maturing with "Crosby's Egyptian," has fine globe shape, deep red color and the flesh is solid and very sweet. The tops are small and do not hasten rapid bunching, but small tops permit closer planting than sorts with larger tops.

B418 Pkt., 10c; oz., 20c; 2 oz., 35c; ¼ lb., 55c; lb., \$1.85; 5 lbs., \$8.00.

Crimson Globe—Second Early Main Crop

Medium size, about 10 inches around, globe shape, uniform, without rootlets and perfectly smooth. Foliage is small, rich, purple-bronze color. Flesh is rich blood red, sweet, tender and never stringy.

B417 Pkt., 10c; oz., 20c; ¼ lb., 35c; lb., \$1.25.

EDMAND'S BLOOD TURNIP. One of the best, round, well formed, has only one tap root, flesh is deep blood red, very sweet and tender.

B401 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00. By express, 5 lbs., \$4.00.

LONG SMOOTH DARK BLOOD. Long, slender roots seldom more than 2 inches through, matures rather late, but is an excellent keeper.

B408 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00. By express, 5 lbs., \$4.00.

Sugar Beets—Fine for Stock

The kinds offered below are grown from roots the test analysis of which showed high sugar content.

Prices of the following: Oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$3.25.

B472 KLEIN-WANZLEBEN. Wedge shape, tapering to long tail.

B471 LANE'S IMPROVED. Heavy yielder; flesh snow white.

CARROTS FOR STOCK—Best for Horses

MASTODON OR WHITE INTERMEDIATE. Heaviest cropping Carrot. Roots short, white, very heavy at shoulder, easy to harvest without breaking.

C352 Oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$3.25.

LONG WHITE BELGIAN. Similar to Long Orange except in color.

C351 Oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$3.25.

LONG ORANGE BELGIAN. Good heavy cropper for light soils where roots can be easily dug. Exceptionally fine keeper.

C350 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$3.25.

VAUGHAN'S HALF LONG DANVERS. Another broad-shoulder variety. Stump rooted and a wonderful producer. Fine for stock.

C305 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00; 5 lbs., \$4.50.

IMPROVED LONG ORANGE. Extra good yielder. Roots long, tapering from shoulder to a point. Largely grown for stock, good table variety.

C308 Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00; 5 lbs., \$4.50.

For Mangels or Stock Beets see Page 22.

CARROTS

A LIGHT, sandy loam, well tilled, and manured the previous year, best suits the Carrot. For early crop, sow as early as the ground can be worked, in rows a foot apart, and thin eight to ten to the foot for the smaller table kinds. The late sorts, long and half-long varieties (main crop), sow from middle of May until middle of June in drills twelve to fourteen inches apart. Thin out to six inches in the row.

EARLY CHANTENAY

A main crop variety, of reputation with market gardeners; very smooth, stump root, deep red color, fine grained, sugary sweet; not liable to crack when growing, a fine table sort, and good cropper. Buy Vaughan's seed, it is carefully selected.

C302 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.10; 5 lbs., \$4.50.

Vaughan's Select Danvers

For a quarter of a century, our strain of this highly prized variety has seldom been equal in quantity to demand for seed. In addition to its splendid edible qualities and fine appearance, its yield is greater per acre than that of any other sort; in size, shape, color, sweetness and flavor, it is ideal.

C306 Danvers Select Stock. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

C305 HALF LONG DANVERS. Standard Stock—roots more pointed and slightly smaller than Vaughan's Select Danvers.

Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00; 5 lbs., \$4.50.

GUERANDE OR OXHEART. Is a variety of very rapid growth, each attains a weight of more than one pound. It is thick, 5 inches long, has very fine flavor and general good quality and tenderness which make it desirable.

C301 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

IMPROVED LONG ORANGE. A well known sort, roots long, thickest near the crown, tapering regularly to a point, color deep orange.

C308 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00; 5 lbs., \$4.50.

VERY EARLY SCARLET FORCING—(French Horn). Best variety for earliest forcing. Reddish orange colored roots, nearly round.

C303 Pkt., 10c; oz., 20c; ¼ lb., 35c; lb., \$1.25; 5 lbs., \$5.50.

EARLY SHORT SCARLET—(Dutch Horn). Larger than French Horn and almost as early, stump rooted, 1½ inches thick, and about three inches long; fine grained, sweet flavored, color deep rich orange, and fine for bunching.

C304 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.10; 5 lbs., \$4.50.

NANTES HALF LONG SCARLET. For extra sweetness, this is all by itself. It is of good shape and size.

C307 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.10; 5 lbs., \$5.00.



BEET—Crosby's Egyptian



CARROT—Early Chantenary

CABBAGES

Get an Early Start and Watch Out for the Worms

FOR summer use, sow early in the hot bed, an early small and a second early variety, harden the plants off as thoroughly as possible and transplant into the open ground in rows about three feet apart and eighteen inches apart in the row. For second early, sow in April and transplant in May. Savoy Cabbages are good for fall use, the flavor is very delicate and the heads of good size and tender.

When the young plants begin to look thrifty they are sure to be attacked by the cabbage worm. Slug Shot dusted thickly when the dew is on, is effective; alum water, one tablespoon of alum to the gallon, is recommended, sprinkled on with a whisk broom. Or, saltpetre, one ounce to three gallons of water, applied in the same manner.

Vaughan's Select Early Jersey Wakefield

This extra early, conical-shaped head cabbage is the best early hard heading variety for planting in the United States. It is a specialty with us. We confidently offer the best seed that money can buy anywhere. The heads are hard. The outside leaves small, so that close planting is possible.

C1—Pkt., 10c; ½ oz., 20c; oz., 30c; 2 ozs., 60c; ¼ lb., \$1.00; lb., \$3.50.

All Head Early or Faultless

Amateur growers who plant only one variety should select this one. It matures large, uniform heads of handsome appearance and unsurpassed quality. It has few outer leaves, permitting close planting. Our seed is Long Island grown—produced by the expert who originated this variety.

C3—Pkt., 10c; ½ oz., 15c; oz., 25c; 2 ozs., 45c; ¼ lb., 85c; lb., \$3.00.

Copenhagen Market

The earliest flat-head sort, maturing almost with Early Jersey Wakefield. Considering its early season, the heads are large, averaging ten pounds. One of its best features is compactness; its leaves, which are light green, are dish-shaped and fold tightly together. It has few outer leaves, which permits close planting.

C31—Pkt., 10c; ½ oz., 20c; oz., 35c; 2 oz., 65c; ¼ lb., \$1.15; lb., \$4.00.

Chinese Celery Cabbage or Pe-Tsai (See Back Cover)

This new Celery Cabbage has become very popular. It is delicious, either shredded as slaw, cooked as other cabbage or trimmed to be eaten as celery. It should be grown like late cabbage planting in June or July, "turnip planting time," as earlier planting runs quickly to seed. Sow in drills 16 to 20 inches apart, then thin the seedlings.

C26—Pkt., 10c; ½ oz., 30c; oz., 50c; 2 oz., 95c; ¼ lb., \$1.60; lb., \$5.50.

Dutch Winter or Hollander

The heads are medium size, averaging about 8 pounds, very solid, have a distinct, white color coming out as fine and as perfectly solid in the spring, as when put away in the fall; its exceptional keeping quality is a notable characteristic.

C22—Pkt., 10c; ½ oz., 20c; 1 oz., 30c; 2 oz., 60c; ¼ lb., \$1.00; lb., \$3.75.

Other Good Varieties

Charleston Wakefield—Matures a few days later than "Early Wakefield," with heads much larger and uniform. Very popular with Southern growers; it does well on heavy soil.

C6—Pkt., 10c; ½ oz., 20c; oz., 30c; 2 oz., 60c; ¼ lb., \$1.00; lb., \$3.50.

Early Winnigstadt—Sure to head, regular, conical shape, very hard and hardy, a good keeper winter or summer.

C9—Pkt., 10c; ½ oz., 15c; oz., 25c; ¼ lb., 85c; lb., \$3.00.

Extra Early Express—Compact, round thick leaves forming an oval head; remarkably large for size of plant—thicker and less pointed than Jersey Wakefield; matures a short time later.

C5—Pkt., 10c; oz., 25c; 2 ozs., 45c; ¼ lb., 85c; lb., \$3.00.

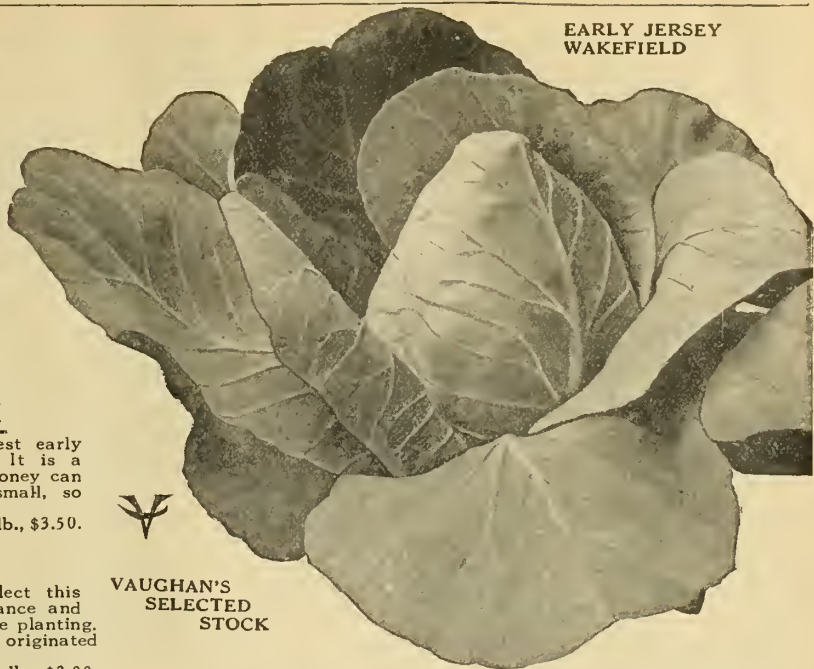
Early Flat Dutch—Sure solid header; weighs 10-12 pounds each head, even size, matures about same time as "Early Summer."

C10—Pkt., 10c; ½ oz., 15c; oz., 25c; 2 oz., 45c; ¼ lb., 80c; lb., \$2.75.

EARLY ALL HEAD



EARLY JERSEY WAKEFIELD



VAUGHAN'S SELECTED STOCK

Early Summer (New York)—The heads are round and flattened. In season follows "Jersey Wakefield." The heads are fair size, very compact; quality good, large outer leaves tinged with blue.

C8—Pkt., 10c; ½ oz., 15c; oz., 25c; ¼ lb., 85c; lb., \$3.00.

Succession—Heads are large, slightly flatter than "Early Summer," two weeks later, but run more uniform.

C2—Pkt., 10c; ½ oz., 15c; oz., 25c; ¼ lb., 85c; lb., \$3.00.

Late Flat Dutch—Smaller than "Premium Flat Dutch," sometimes a better keeper.

C18—Pkt., 5c; ½ oz., 15c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

Fottler's Improved Brunswick—A dwarf growing sort with very large early heads. Valuable both as Second Early and for winter use.

C20—Pkt., 10c; ½ oz., 15c; oz., 25c; ¼ lb., 80c; lb., \$2.75.

Vaughan's All Seasons—Although an early, this is suited to every growing season; under most trying and adverse conditions it is nearly always a sure header. The heads are large and solid, leaves small ribbed; matures about same time as "Early Summer" with larger head. Quality for eating is splendid.

C11—Pkt., 10c; ½ oz., 15c; oz., 25c; ¼ lb., 85c; lb., \$3.00.

Glory of Enkhosen—For home gardens this is very valuable. It is early, globe shape, medium size, sure heading and a splendid keeper.

C25—Pkt., 15c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.15; lb., \$4.00.

Danish Summer Ballhead—A Second Early of superb quality; it resembles "Winter Ballhead," but is smaller and slightly flat on top; the outer leaves are curly, the ribs very fine, and the flavor suggestive of Savoy cabbage.

C12—Pkt., 10c; oz., 35c; 2 ozs., 65c; ¼ lb., \$1.15; lb., \$4.00.

Danish Ballhead, Tall—From Amagar Island, Denmark, comes Vaughan's seed of this most famous and popular of winter cabbages. Because of perfectly solid-head, unequaled keeping and shipping qualities, weighing a fourth more than other sorts of equal size, fine grained leaves which are deliciously tender, this strain has displaced nearly all other winter varieties of cabbage.

C28—Pkt., 15c ½ oz., 20c; oz., 30c; 2 oz., 60c; ¼ lb., \$1.00; lb., \$3.75.

Dwarf Amagar or Short Stemmed Danish Ballhead—This variety is almost identical with "Dutch Winter or Hollander." We import our seed direct from Amagar Island, Denmark and we supply one-year-old proven stock, if wanted.

C29—Pkt., 10c; ½ oz., 20c; oz., 30c; 2 oz., 60c; ¼ lb., \$1; lb., \$3.75.

Bridgeport Drumhead—For slicing, for kraut or for general purposes, it has no superior.

C24—Pkt., 10c; oz., 25c; ¼ lb., 85c; lb., \$3.00.

Improved Stonemason—A large solid, late Drumhead—popular in some sections.

C16—Pkt., 10c; oz., 25c; ¼ lb., 80c; lb., \$2.75.

Vaughan's Sure Head—This is a large, round flathead variety, uniform and weighing 10 to 15 pounds, very solid, of fine quality.

C23—Pkt., 10c; ½ oz., 15c; oz., 25c; 2 oz., 45c; ¼ lb., 85c; lb., \$3.00.

Red Cabbages

Danish Red Stone Head—Hard, round, ball-shaped heads, keep well. The color is intense.

C55—Pkt., 15c; ½ oz., 35c; oz., 60c; 2 ozs., \$1.00; ¼ lb., \$1.75; lb., \$6.00.

Mammoth Rock Red—A sure header of good red color to the center.

C56—Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.15; lb., \$4.00.

Vaughan's Black Diamond—A new second season black-red variety. Head medium; very firm, leaf rib thin and small; few outer leaves.

C51—Pkt., 10c; ½ oz., 25c; oz., 40c; 2 ozs., 75c; ¼ lb., \$1.40; lb., \$5.00.

Early Dark Red Erfurt.

C52—Pkt., 10c; ½ oz., 20c; oz., 35c; 2 ozs., 65c; ¼ lb., \$1.15; lb., \$4.00.

Savoy Cabbages

Marvin's Savoy—A large solid head, very early. An almost sure header, most popular of this class.

C78—Pkt., 10c; ½ oz., 20c; oz., 30c; ¼ lb., \$1.00; lb., \$3.50.

Improved American—Standard main crop sort.

C79—Pkt., 10c; ½ oz., 20c; oz., 30c; ¼ lb., \$1.00; lb., \$3.50.

CAULIFLOWER

It is Delicate as Well as a Delicacy

THE Cauliflower requires about the same culture as the Cabbage, to which it is a close kin. It likes rich soil, with plenty of moisture, and should be planted where a water supply is accessible. Start the plants early in the hot-bed, and transplant once before setting in the open ground, taking care not to check their growth; set the plants fifteen inches by two feet apart and give thorough culture. Watch out for the Cabbage worms. When the heads are about two inches across, blanch them by breaking the midrib of the surrounding leaves and bending them down to cover the head; take care to gather while it is still solid.

Vaughan's New Snowball

For early out-door planting this is a strain of exceptional merit. A well grown head will measure 9-10 inches across and have depth in proportion, will be solid, and have a perfectly white core. Its habit is dwarf, with great compactness and very early heading—earlier than any other sort.

C412 Pkt., 25c; ¼ oz., 75c; ½ oz., \$1.50; oz., \$2.75; ¼ lb., \$10.50.

Dry Weather Cauliflower

This is bred to provide, as far as possible, against hot, dry weather. Where the more delicately bred varieties would succumb to unfavorable, warm weather conditions, this sort is very desirable. It is a very sure-header, larger than Snowball, snow-white and second early.

C411 Pkt., 25c; ¼ oz., 75c; ½ oz., \$1.50; oz., \$2.75; ¼ lb., \$10.50.

Danish Snowball. A splendid second early. Many of our customers (market growers) plant this sort year after year.

C401 Pkt., 20c; ¼ oz., 60c; ½ oz., \$1.00; oz., \$1.75; 2 oz., \$3.35; ¼ lb., \$6.50; lb., \$24.00.

Large Early Erfurt. This is a vigorous growing, hardy variety, with large, white, firm heads. It is the very best sort for late spring.

C405 Pkt., 15c; ½ oz., 55c; oz., \$1.00; ¼ lb., \$3.75.

Vaughan's Earliest Dwarf Erfurt. Similar to Vaughan's New Snowball, but a few days later. This and Vaughan's Snowball mature in succession.

C400 Pkt., 25c; ¼ oz., 70c; ½ oz., \$1.25; oz., \$2.25; 2 oz., \$4.25; ¼ lb., \$8.00; lb., \$32.00.

Large Late Algiers. A vigorous late maturing variety for late fall use. Large heads.

C409 Pkt., 10c; ½ oz., 40c; oz., 75c; ¼ lb., \$2.25.

Lenormand's Short Stem. Bears large white head on short stems.

C406 Pkt., 10c; oz., 75c; ¼ lb., \$2.25.

VAUGHAN'S
NEW
SNOWBALL



CELERY—Continued

White Plume

Of the white varieties this is recognized the best, because of its crisp, tender, and altogether desirable eating qualities. Its habit of growth is vigorous, stalks are uniformly white, and large sized. We do not recommend it as a keeper.

C501 Pkt., 10c; ½ oz., 15c; oz., 30c; 2 oz., 55c; ¼ lb., 80c; lb., \$3.00.

Chicago Giant Self-Blanching

A first early introduced by Vaughan's Seed Store. It can be sown in February and eaten July 1st, when fine celery is a table luxury. The whitest early and very sweet, crisp, tender, brittle, with a delicious flavor.

C506 Pkt., 10c; ½ oz., 20c; oz., 35c; 2 oz., 55c; ¼ lb., 90c; lb., \$3.50.

Winter Queen

An excellent winter sort with double the amount of heart of any known celery. A beautiful plant of close habit and compact growth; crisp with delicious nutty flavor.

C514 Pkt., 10c; ½ oz., 15c; oz., 25c; 2 oz., 45c; ¼ lb., 75c; lb., \$2.50.

Giant Pascal. The stalks are very large and solid, crisp and of rich nutty flavor. It blanches very easily and quickly. The heart is golden yellow and has a very attractive appearance. For Fall and Winter, this is a splendid sort.

C505 Pkt., 10c; ½ oz., 15c; oz., 30c; ¼ lb., 80c; lb., \$3.00.

Giant Golden Heart. This for winter storage is the best celery. It is a selection of the "Dwarf Golden Heart," but is larger.

C500 Pkt., 10c; ½ oz., 15c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

Rose Ribbed Self-Blanching. (Golden Rose.) A sort of Golden Self-Blanching possessing all its good qualities. The ribs assume a deep, warm, rosy hue.

C516 Pkt., 10c; ½ oz., 25c; oz., 50c; ¼ lb., \$1.35; lb., \$5.00.

Dwarf Golden Heart. Solid, shapely stalks; large heart, which blanches to a beautiful yellow, after storing.

C510 Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., \$1.75.

Easy Blanching. A recent introduction of merit. A most desirable variety for the amateur, as it blanches easily and is one of the best keepers. Second early, can be grown for winter and spring use.

C508 Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.25; lb., \$4.50.

Soup Celery or Smallage. Green foliage used for soups.

C523 Oz., 15c; ¼ lb., 40c; lb., \$1.50.

Old Celery Seed. Used for flavoring.

C524 Oz., 10c; ¼ lb., 20c; lb., 65c.

CELERICAC OR TURNIP-ROOTED CELERY

THIS is a favorite with Germans, boiled and dressed as a salad, or as flavoring in soups. It should be sown and grown the same as Celery, but is cultivated for the roots and is not blanched. Store for the winter the same as other root crops.

Large Smooth Prague. Excels in quality, size and appearance. Not like common sorts, which are often crooked and have a lot of useless roots.

Large Smooth Prague Celericac is the main crop variety, nearly globe shape and almost twice the size of Erfurt—only a few rootlets at bottom—the American grower's favorite.

C552 Pkt., 10c; ½ oz., 20c; oz., 40c; ¼ lb., \$1.25; lb., \$4.00.

Large Erfurt. A standard.

C550 Pkt., 10c; ½ oz., 20c; oz., 40c; ¼ lb., \$1.25; lb., \$4.00.

CELERY

A Crop to be Proud Of

CELERY being naturally a swamp plant, needs rich soil and plenty of water. Sow early, shade and water sufficiently, as it is slow to sprout; thin the plants and clip back once or twice to make them stocky. In a furrow six inches deep put in two inches of well rotted manure or compost, then an inch or so of fine earth; then set the plants, firming them in well, about six inches apart, the rows four to five feet apart. When the stalks are about ten inches high, begin to earth them up, holding the plant stalks firmly together and drawing the earth up around them, until banked to the leaf-tops. The soil must not be allowed to sift in among the stalks, as it would be liable to rot or rust them.



GOLDEN SELF-BLANCHING

Golden Self-Blanching

The choicest sort of delicious celery; it excels all other yellow varieties. Dwarfier, larger bunches, with broad, heavy stalks, which blanch into a rich, appetizing, golden yellow, make this the favorite, most popular, golden celery on the market. Our selected stock is grown for us in France by the introducers.

Selected stock (French grown).

C503 Pkt., 15c; ½ oz., 30c; oz., 55c; ¼ lb., \$1.75; lb., \$6.50.

C504 American grown seed. Pkt., 10c; ½ oz., 25c; oz., 50c;

¼ lb., \$1.35; lb., \$5.00.



Vaughan's Rarer Vegetables

Brussels Sprouts

BRUSSELS Sprouts are miniature cabbages formed on a plant stalk. The delicate flavor is improved by a touch of frost. The culture is practically the same as for cabbage. For late use sow seed in June.

IMPROVED DANISH.

Hardy and a heavy yielder. A fine variety originated and grown in Denmark. B902 Pkt., 10c; ½ oz., 20c; oz., 35c.

PARIS MARKET.

Half dwarf, excellent yielder. B901 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

IMPROVED DWARF.

Dwarf habit and less liable to aphids than others. B900 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

BROCCOLI.

A vegetable similar to Cauliflower, of less delicate flavor, but harder. Of value in northern latitudes where Cauliflower does not do well.

Large White Mammoth.

Good white heads. B700 Pkt., 10c; ½ oz., 30c; oz., 50c.

BRUSSELS SPROUTS

CHICORY, Witlooff (French Endive). A European delicacy now standard in all best hotels and restaurants in the U. S. It is easily grown. Sow in spring; store parsnip-like roots in sand until wanted for growing on in winter; directions on packages. C701 Pkt., 10c; oz., 30c; ¼ lb., \$1.00 lb., \$3.50.

Roots of above, 3 for 40c, postpaid (with forcing directions up to April 1st).

Large Rooted Magdeburg. Roots are cut in thick slices, roasted and used as coffee; in spring leaves make good salad. C700 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

CORN SALAD. (Mache-Stick, Salat.) A most refreshing salad. Hardy, much used in Winter in place of Lettuce. Sow either in Spring or Fall. C1200 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.40.

Garden Cress or Pepper Grass

CURLED GARDEN. Used with Lettuce, it adds an agreeable pungency. C1601 Pkt., 5c; oz., 15c; ¼ lb., 35c.

UPLAND CRESS. Has highly prized flavor of Water Cress. Green all year; ready for use before any other salad. C1600 Pkt., 5c; oz., 20c; ¼ lb., 50c.

WATER CRESS. (Wasser Kresse; Cresson.) The pleasant flavor of Water Cress makes it one of the most delicate salads. It grows where there is a good supply of pure fresh water, it can also be grown in tubs of good soil in a shady place, if plenty of water is given it. Directions with each packet of seed. C1602 Pkt., 15c; ½ oz., 30c; oz., 55c; ¼ lb., \$1.75; lb., \$6.00.

CARDOON. Main stalks are blanched like Celery, used for salad or in soups. C200 Pkt., 10c; oz., 40c; ¼ lb., \$1.25; lb., \$4.50.

CHERVIL DOUBLE CURLED. Similar to Parsley; handsome for garnishing. C600 Pkt., 10c; oz., 25c; ¼ lb., 60c.

COLLARDS. A variety of cabbage used in Southern states. C1100 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

DANDELION. (Lowenzahn; Dent-de-Lion.) Cultivated for spring greens, is fast gaining favor. Our thick or cabbage leaved variety is best; unlike common sorts, almost double usual size. D1 Pkt., 15c; ½ oz., 35c; oz., 65c; ¼ lb., \$2.25; lb., \$8.50.

Egg Plant

VAUGHAN'S IMPROVED NEW YORK PURPLE. "New York" is the standard variety of this fine vegetable, and "Vaughan's Improved New York" is the highest type and most popular of that standard—entirely spineless. Plants grow low, stalky and branching, are early and almost continuous bearing; fruits are satiny smooth, rich purple color and large. Sow Vaughan's seed. E1 Pkt., 10c; oz., 55c; ¼ lb., \$1.65; lb., \$6.50.

BLACK BEAUTY. Is 12 days earlier than New York; for northern home gardens and truckers it is most desirable. In shape it is broad and thick; it is perfectly spineless and smooth; has beautiful, rich purple color and handsome lustre—very attractive and popular. Plant Vaughan's seed. E4 Pkt., 10c; oz., 60c; ¼ lb., \$1.75; lb., \$7.00.

Endive

CHICORY ENDIVE. A delightful autumn and winter salad. Sow seed from middle of June to the end of August.

GREEN CURLED SUMMER. Standard variety for fall and winter. Finely divided leaves, making the plant appear mossy, and when centers are blanched most beautiful. E101 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

GREEN CURLED WINTER.

E102 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

STAGHORN, best for early. It does not go to seed if planted in hot-bed, then transplanted outdoors. This is a great advantage for early growth and brings it into the first early market. E106 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

GIANT FRINGED. Most beautiful snow white heart, fine delicate green fringe. E100 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.



KOHL-RABI
White
Vienna

MOSS CURLED. Fine sort. E103 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

EVER WHITE CURLED. Very crisp. E105 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

Garlic

SELECTED BAVARIAN. G1 Lb., 30c; 10 lbs., \$2.50; postage extra. Write for latest market prices on quantities.

Horse Radish Sets

ORDINARY HORSE RADISH. Roots produce good Radish, fit for use in one season's growth. Plant the set small end down, so that the top will be 2 inches under soil. 100, \$1.20 (by mail, \$1.30); 500, \$5.00; 1,000, \$9.50.

HORSE RADISH, Bohemian. Earlier and better producer than the common sort. The roots grow larger and whiter and the quality is superior. All growers should have it. Sets or Roots, per doz., 30c, postpaid; by express, 50 for 85c; 100 for \$1.50; 1,000 for \$12.00.

Kale or Borecole

Greens for early fall, winter and spring. Sow seed about middle of June, later transplant to rows 2 to 2½ feet apart. Dwarf sort can be sown later.

DWARF GREEN CURLED KALE. Hardier than Cabbage. Leaves curly as Parsley, tender and very fine flavor. Immense quantities produced in South find ready sales in

KALE OR BORECOLE—Continued.

the North. Vaughan's Extra Selected Stock. Fine strain.

K1 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.25.

VAUGHAN'S EXCELSIOR MOSS CURLED KALE. By far the best Kale in existence. Plants grow 18 to 21 inches high and produce as many as 50 edible leaves to a plant. Leaves very early and unsurpassed in flavor. K5 Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.75.

TALL GREEN CURLED. K2 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

SIBERIAN. Called "Sprouts" and "German Greens." Not so curly as Dwarf Green Kale. Plant dwarf, spreading and very hardy. K4 Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

SEA KALE. Ready for use earlier than Asparagus, and combines flavor of that and Celery. Its blanched stalks are cooked like Asparagus or the leaves used as greens. Sea Kale comes usually from seed, but can be grown from offsets or root cuttings. Plant in rows 4 to 6 feet apart. Seedlings yield a crop third year. As soon as show above the ground, blanch with earth, boards, sand, etc., until ready for use. K3 Pkt., 15c; ½ oz., 30c; oz., 60c; ¼ lb., \$1.75.

Leek

LARGE MUSSELBURG. Enormous broad leaves, mild flavor. Good exhibition sort. L2 Pkt., 10c; oz., 25c; ¼ lb., 85c; lb., \$2.75.

BROAD SCOTCH or LONDON FLAG. Hardy; a strong plant with broad leaves. L1 Pkt., 10c; oz., 25c; ¼ lb., 85c; lb., \$2.75.

LONG MEZIERES. One of the very best. Broad, vigorous, erect leaves, long, good-sized stem, snow white; fine flavor, very hardy. Unsurpassed for market garden. L4 Pkt., 10c; oz., 30c; ¼ lb., 90c.

Kohlrabi

Sow in June or July, in rows, thin to 12 inches.

EARLY WHITE VIENNA. White and tender. K201 Pkt., 10c; oz., 25c; ¼ lb., 80c; lb., \$3.00.

SHORT LEAVED EARLY ERFURT. For forcing in open ground. White flesh, very tender, short leaves. K200 Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., \$3.25.

Rhubarb

VAUGHAN'S MAMMOTH. Vigorous and productive; stalks numerous; the large ones being fifteen inches long and fully one inch and a half wide; an excellent spring food possessing medicinal properties. It is the first article of the season from the garden and no planter should be without it. R200 Price of Seed per pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

LINNAEUS. R201 Seed, per pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

CHICAGO GIANT. This dwarf Rhubarb is bred for large stalks and small leaves. We have grown this variety for years and find it A1. R202 Pkts. only, 15c. Roots, good sized clumps, by express, 50c each.

RHUBARB ROOTS. Set in spring they will furnish leaf stalks the following season. Clumps, each, 15c; doz., \$1.50.

Large clumps, by express, 25c; 3 for 60c. Extra large clumps, each, 50c; 3 for \$1.25.



BLACK BEAUTY

Vaughan's Sweet Corn

Which Only Home Gardeners Know at Its Best



GOLDEN BANTAM

CHOOSE for a field of Sweet Corn a good rich soil and a warm exposure. Make the first planting about May 1, and sow every two weeks thereafter until the middle of July for a succession. Plant in hills three or four feet apart, according to size of variety or strength of soil, or in drills three feet apart, and eight inches apart in the drill. Cultivate often and thoroughly. One quart of seed plants 100 yards of row.

Vaughan's Bantam Evergreen

The Golden Sweet Corn

(See Back Cover Illustration)
One-third larger than Golden Bantam. Ten days to two weeks later. It can be planted with Golden Bantam and will mature later after that variety has passed the usable stage. It is thinner hulled than Golden Bantam and fully equal in quality. Had we only one choice in Sweet Corn this would be it.

C1328 Pkt., 15c; lb., 30c;
2 lbs., 60c; 10 lbs., \$2.25.



Golden Bantam

Now the most popular of all first early Sweet Corns and planted in nearly every garden. This "Yellow Nugget" has made more enthusiastic and satisfied amateur horticulturalists than acres of successful gardens filled with other vegetables. Golden Bantam is an extra early yellow sort about a week later in season than Cory or the first earlies. The ears are borne two to a stalk and are about six inches in length with eight rows of kernels on a cob. We grow our seed of this sort on our own farms in Michigan.

C1331 Pkt., 10c; lb., 30c; 2 lbs., 55c; 10 lbs., \$2.10.

Vaughan's Mammoth White

Cory

The great popularity of this extra early Sweet Corn is due to the fact that it was successfully bred for three important qualities—Earliness, Size, Sweetness. Early as the earliest corn; the ears are as long with two to four more rows of kernels set close,



so there is no loss of space in the cob. The stalks are a little less than medium size, vigorous and prolific, usually averaging two ears to the plant. Our seed is grown and bred on our own farms.

C1302 Pkt., 10c; lb., 25c; 2 lbs., 45c; 10 lbs., \$1.85.

Stowell's Evergreen

The great standard main crop variety of Sweet Corn. The stalks are strong and vigorous and grow 7 to 8 feet high, and bear ears 8 inches long, with 16 or more rows of the finest sugary grains. This sort is very productive, and the deep set white kernels of sweetness are fine. Vaughan's New England grown seed develops a larger percentage of sugar than seed grown in the Western states. We quote prices here for both.

Eastern Connecticut Grown.

C1325 Pkt., 10c; lb., 25c; 2 lbs., 50c; 10 lbs., \$2.00.

Western Grown, Eastern Stock Seed.

C1326 Pkt., 10c; lb., 25c; 2 lbs., 45c; 10 lbs., \$1.75.

Malakoff

The Great Sweet Corn for northern country; in the northern states and Canada where the season calls for quick maturing, this is the best of all sweet corns. In flavor it has no equal. It is a dwarf growing corn, rarely exceeding 4 feet in height; the stalks usually average 2 ears each. The kernels are shallow and sweet. Our stock has been carefully re-selected and the crop harvested on our Michigan farm.



C1300 Pkt., 10c; lb., 30c; 2 lbs., 55c; 10 lbs., \$2.25.

Other Good Varieties

EARLY EVERGREEN. Very large ears are characteristic of this sort. It is earlier than Stowell's Evergreen by 8 to 10 days. This variety remains green for a long time and in northern localities is a surer cropper than Stowell's Evergreen, of which this is a smaller sort. Reliable seed of this well-known variety is at your command in Vaughan's Seed Store.

C1314 Pkt., 10c; lb., 25c; 2 lbs., 45c; 10 lbs., \$1.85.

EARLY IOWA. A fine sweet corn. A week earlier than "Mammoth White Cory," and of superior quality. The ears are 8 rowed usually 2 to a plant. The stalks are short with little foliage. Under middle west conditions it is the earliest sweet corn with ears of marketable size. Our seed is grown on our own farms in Michigan.

C1322 Pkt., 10c; lb., 25c; 2 lbs., 50c; 10 lbs., \$2.00.

HOWLING MOB. A very desirable second early. Delicious quality. Large ears with small, tender kernels. These small kernels give the ears an attractive appearance which outsells Champion or Early Evergreen as a market sort.

C1330 Pkt., 10c; lb., 25c; 2 lbs., 50c; 10 lbs., \$2.00.

PEEP O' DAY. Similar to Malakoff.

C1317 Pkt., 10c; lb., 25c; 2 lbs., 50c; 10 lbs., \$2.00.

EARLY MAYFLOWER. In the New England States this is the earliest sweet corn of good size. In the Middle West it is not as early as Early Iowa. White cob and kernels, larger than White Cory and ten days earlier. New England grown seed.

C1316 Pkt., 10c; lb., 30c; 2 lbs., 55c; 10 lbs., \$2.25.

EARLY MINNESOTA. A favorite early, a few days later than Mammoth White Cory, ears have 8 to 10 rows of large white grains. Very productive.

C1303 Pkt., 10c; lb., 25c; 2 lbs., 45c; 10 lbs., \$1.85.

COUNTRY GENTLEMAN. A late main crop variety. The ears, which are seven to nine inches long are borne on stalks six to seven feet high. The grain is small and rather round and crowded together on the cob, instead of forming in defined rows. This corn is regarded by many as the highest quality of all White Sweet corns. Vaughan's strain has been especially selected for small, deep kernels and high sugar content.

C1318 Pkt., 10c; lb., 25c; 2 lbs., 50c; 10 lbs., \$2.00.

IMPROVED EARLY CHAMPION. A second early which ranks high in popular favor. It is one of the earliest large sweet corns, in season two weeks later than "Mammoth White Cory." The ears have 12 very uniform rows of pure white, not too large, kernels, which are tender and full of milk. The ears are medium, often three on a stalk.

C1308 Pkt., 10c; lb., 25c; 2 lbs., 45c; 10 lbs., \$1.85.

EARLY CROSBY. A high quality, second early, very popular in Eastern sections, especially New England. Ears about six inches long, 14 rowed grains square, very white, sweet and tender.

C1305 Pkt., 10c; lb., 25c; 2 lbs., 50c; 10 lbs., \$2.00.

LATE MAMMOTH. Produces the largest ears of all sweet corn varieties. A little late in season. In spite of its immense size, the ears are of excellent quality, delicious, sweet and tender.

C1327 Pkt., 10c; lb., 25c; 2 lbs., 50c; 10 lbs., \$2.00.

GOLDEN CREAM (A Late Yellow). A cross of Golden Bantam and Country Gentleman. The result is a yellow Country Gentleman.

C1323 Pkt., 15c; lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25. (Larger quantities of all Sweet Corns or other seeds at 10 lb. rate.)

BLACK MEXICAN. Every one who has seen this corn remembers it and the delicious sweetness and fine grain qualities in spite of its dark color. Eight to 10 rowed; ears about 8 inches long; kernels bluish purple to black and rather flat.

C1310 Pkt., 10c; lb., 30c; 2 lbs., 55c; 10 lbs., \$2.10.

Early Cory. Red cob.

C1301 Pkt., 10c; lb., 25c; 2 lbs., 45c; 10 lbs., \$1.85.

Adam's Extra Early. Not sweet, but early.

C1311 Pkt., 10c; lb., 20c; 2 lbs., 40c; 10 lbs., \$1.50.

Adam's Early. Not sweet, but early.

C1306 Pkt., 10c; lb., 20c; 2 lbs., 40c; 10 lbs., \$1.50.

Any of the above, per pkt., 10c. (Larger quantities than 10 lbs. of any kinds on this page at 10 lb. rate.)



BANTAM EVERGREEN

CUCUMBERS

Cooler of Summer Salads

SOW in the open ground as soon as the weather is settled, in hills four feet apart each way, first putting a shovelful of well rotted manure in each hill, cover with fine earth and sow from twelve to twenty seeds to each hill; when the plants are strong and begin to crowd each other and the striped bugs are gone, thin to three plants to the hill. Spray with Pyrox to keep off beetles and blight.

New Cucumber—"The Vaughan"

(See Back Cover Illustration.)

This has proved the sensational novelty we claimed it last year. Compared to the other cucumbers of the same class (long white spine varieties) like Davis Perfect and Fordhook Famous it is much darker in color, more uniform in shape and size, thinner and more prolific. It is the ideal American forcing variety. Our customers, who raised it last year, had perfect greenhouse cucumbers raised out doors. We offer in limited quantities only.

C1740 Pkt., 10c; oz., 50c; ¼ lb., \$1.60.

Vaughan's Improved Arlington White Spine

Is early, and a heavy yielder; it is a beautifully symmetrical, straight type cucumber, 7-10 inches long. Throughout its entire length, the skin is an attractive, glossy dark green; the flesh firm but tender, with delicious flavor; these surpassing qualities have made it a great favorite. For home garden it has no superior.

C1716 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50.

Davis Perfect

Fine length, slim, beautiful dark green, transparent flesh with deliciously cool refreshing flavor, and enjoyable crispness. Its extremely vigorous and the best blight resister of the long sorts.

C1733 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$1.75.

C1734 Stock seed. Pkt., 15c; 2 for 25c; ¼ oz., 60c; oz., \$1.00.

Westerfield's Chicago Pickle

Since we first introduced this pickle years ago, it has been a distinguished success. The maintenance of fine shape, right size and excellent quality in this splendid pickle are matters of great pride with us. When ripe the fruit is medium size, pointed at both ends, has large prominent black spines; the vines set fruit when young and continue bearing longer than other varieties.

C1705 Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.40.

Snow's Fancy Pickling

The type is shorter when ripe than the Chicago Pickle and is broad at the stem end, tapering slightly to the tip. The fruit being smaller, blight does not sap the strength of the vine to the detriment of a crop.

C1708 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50.



CHICAGO PICKLE

Two Cucumbers



to a Yard.

CUCUMBER THE VAUGHAN

Cucumber Early Fortune

An especially fine, medium length, White Spine Cucumber much planted in the south for shipment to the northern markets. It has a fine, dark green color which it holds for a long time after picking. It shows no white coloring before ripening. Early, prolific, uniform and well shaped. It is equally good for northern summer planting in the home garden.

C1711 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.60.

IMPROVED WHITE SPINE. Medium size, straight, always fine yielder; light green.

C1707 Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.40.

COOL AND CRISP. Fine for slicing. Early, prolific, and covered with knobs, and black spines on dark green skin—makes handsome pickles.

C1731 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50.

EXTRA LONG WHITE SPINE. Like "Davis Perfect," a great blight resister. It is thicker than "Davis Perfect," straight, smooth, dark shiny green, 8-12 inches long; with superbly flavored, tender, crisp flesh. It is very early.

C1709 Select stock. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.60.

ROCKYFORD (Klondyke). White Spine. A fine market garden sort—between the New Century and Arlington in size—slightly earlier, however. A wonderful keeper and shipper. Good dark green color.

C1721 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50.

IMPROVED JERSEY PICKLE. This is a famous kind for making vinegar pickles. Owing to its light color it makes what pickle men call "light" pickles, excellent for "Gherkins." It is very prolific.

C1735 Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.40.

IMPROVED LONG GREEN. The vines of our strain are very vigorous, and productive; the fruit (12 inches long) is formed almost as early as on the short sorts. As a cucumber of the "black spine" variety, for slicing and for pickles, this is one of the very best.

C1717 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$1.75.

Odd Cucumbers Japanese Climbing. Grows quickly on poles or trellis, takes up little room in the garden. Fruit is good size, fine flavor, especially good for slicing and salads; does best in dry warm summers.

C1729 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

Lemon Cucumber. Not the same as the Garden Lemon, though similar in appearance, it is a real luscious flavored cucumber, a worthy addition to the list.

C1706 Pkt., 10c; oz., 20c.

WEST INDIA GHERKIN. A very small oval prickly sort, distinct from all others. It is grown for pickles only and must be used when young.

C1718 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

English Frame Cucumbers Rollinson's Telegraph.

A standard greenhouse variety. English greenhouse grown.

C1723 Pkt., 25c.



VAUGHAN'S ARLINGTON WHITE SPINE

VAUGHAN'S CULTURAL BOOKLETS AND LEAFLETS

WE have made the home edition of our catalogue as complete a reference book as possible, not only by accurate descriptions of flowers and vegetables, but also by special articles, and cultural notes.

Space limitations have prevented going into detail on the many special subjects, however, and to supply more detailed information on many of these subjects we publish cultural leaflets and booklets which are available to our customers on the terms stated hereafter:

Vegetable Garden Manual—A booklet giving up-to-date instructions on home gardening, and the culture of each kind of vegetable. Sent free upon request with each order of \$2.00 or more; and sold for 25 cents.

Celery Manual—A 56-page booklet, giving practical instructions for growing celery for either home or market. Sent free upon request with each order of \$2.00 or more; and sold for 25 cents.

Vegetable Cook Book—An invaluable book for the home gardener, enabling him to enjoy to the full the many possible dishes prepared from the products of his toil. Sent free upon request with an order of \$2.00 or more; and sold for 35 cents.

Leaflets on the following subjects will be sent upon request with an order for the goods they deal with:

Successful Mushroom Culture, sent with mushroom spawn.

How to Be Successful With Roses; sent with rose plants.

Vaughan's Lawn Making; sent with lawn grass seed.

Dahlia Culture; sent with dahlia roots or plants.

Gladiolus Culture; sent with gladiolus bulbs.

Hot Beds and Cold Frames; sent with a \$1.00 order for seed, or orders for sash.

Cardinal Climber; sent with orders for seed of this vine.

Value of Lime for Gardens and Lawns; sent with grass seed or a \$1.00 order for vegetable seed.

Aster Culture; sent with aster seed.

Asparagus Culture; sent with asparagus roots or seed.

Naturalizing Lilies; sent with lily bulbs.

Sweet Pea Culture; sent with sweet pea seed.

Please note that these leaflets are sent only when the buyer requests it.

LETTUCE

Sow for a Constant Succession

LETTUCE, the most used of all the salads, is easy of culture, being free from all diseases and insects. It requires rich, moist soil, clean cultivation and plenty of water. This will give the quick growth on which depends its appearance, tenderness and flavor. The seed is very fine, and it is well to mix with sand when sowing; cover very lightly and press it in. For early use, sow in hot-beds or in boxes in the house, and set out as soon as the ground is ready; thin the plants well in the seed bed and set out in rows eighteen inches apart, and one-half to one foot apart in the rows; sow every two weeks for a succession until about July 15; by this means Lettuce can be had constantly in best condition. A late sowing in August may mature good heads with a favorable season. Success with Head Lettuce depends upon the care given. They must be thinned or transplanted to five or six inches in a row. A slight shading, in the mid-summer, aids in producing crisp, tender Lettuce. The Cos varieties, known as Romaine, are becoming more popular. They are of excellent flavor and blanch easily after the leaves are tied up for a few days.

Grand Rapids

Vaughan's Selected Stock

Grand Rapids Leaf Lettuce for hot-bed or greenhouse growing, is a curly leaved lettuce of great popularity because of exceptional merit. The leaves develop very quickly and its upright habit, requiring little room in the bed, permits close planting. The leaves are a beautiful green, daintily curled, tender and crisp. The flavor is delicious.

Vaughan's Extra Selected Stock:
L200 Pkt., 10c; oz., 15c; 2 ozs., 25c; ¼ lb., 45c; lb., \$1.50.

Standard Stock:

L201 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

Black Seeded Simpson

Black Seeded Simpson Leaf Lettuce is always reliable and easily grown. The leaves grow large, the inner ones forming a semi-compact head; they are a handsome green beautifully crumpled, have fine quality, being tender, crisp and sweet flavored. It is unsurpassed as a heat resister, and is especially adapted to amateur gardeners, who may be unsuccessful in growing head lettuce.

Vaughan's Selected Stock, saved from extra selected plants:

L202 Pkt., 10c; oz., 15c; 2 ozs., 25c; ¼ lb., 45c; lb., \$1.50.

Standard Stock:

L203 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

TILTON'S WHITE STAR. Large, very rapid grower, is a distinct variety of B. S. Simpson; leaves are very broad, thick; they blanch well, good quality—slow to seed.

L207 Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.10.

PRIZEHEAD. Very popular, large, loose heading sort. Leaves finely crumpled and fringed, outer ones, shaded brown; very crisp, sweet and tender, splendid for home garden.

L213 Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.10.

EARLY CURLED SILESIA. A dwarf of compact habit and thick growth. Crisp, golden leaves, finely curved edges; an old favorite.

L204 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

DENVER MARKET FORCING. Early; forms loose head of good size; leaves light green, handsomely marked, and blistered like a Savoy Cabbage; very crisp and tender, a forcing or open ground sort.

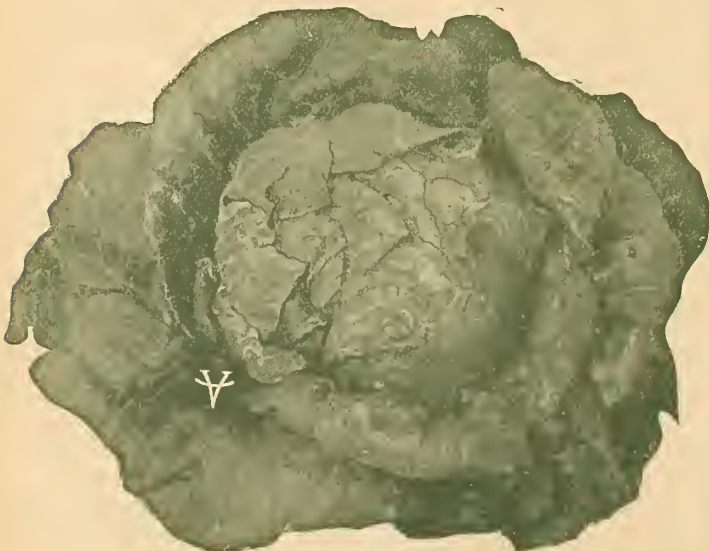
L208 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

HEAD LETTUCES

Vaughan's All Seasons

In 1879 we introduced this distinctive head lettuce. Heads are large, solid and handsome, almost as large as Flat Dutch Cabbage; leaves are grayish-green, never spotted or brown; they are broad and thick and have decided buttery flavor; the inner leaves blanch beautifully.

L241 Pkt., 10c; oz., 15c; 2 oz., 25c; ¼ lb., 45c; lb., \$1.50.



VAUGHAN'S ALL SEASON'S LETTUCE



GRAND RAPIDS FORCING LETTUCE.

May King

A very early heading variety. This is among the finest of heading sorts. The outer leaves are green, just tinged with brown; they fold close, permitting close planting in frames—tender yellow heart.

L212 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

Improved Hanson

The Most Reliable Header for Home Garden

Globe shaped, large, well formed, firm head of broad leaves so compact that the inner ones are blanched almost white. The outside leaves are glossy green and handsome, the inside ones are very tender and deliciously sweet, and all are beautifully crinkled and curled. For mid-summer planting outdoors, this sort is exceedingly popular, for it has superior qualities for resisting drought and heat.

L223 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

Vaughan's Big Boston

The best early large heading sort in the South; North, a valuable first early. Plants are vigorous, mature large heads of bright green leaves which are very tender.

L233 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

MAXIMUM OR IMMENSITY. A wonderful heat resister. It ranks amongst the largest head lettuces; has green outside leaves and solid yellow center; splendid quality.

L239 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

THE DEACON. Large, solid, late sort, splendid for market or home garden; sure heading, inner leaves blanch to a beautiful golden yellow; rich buttery flavor.

L220 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

ICEBERG. Extremely hard heading, has finely indented leaves. Good for home or market.

L230 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

GOLDEN QUEEN. A good first early.

L243 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

MIGNONETTE. A delicious, crisp, solid, small lettuce; very hardy; stands close planting.

L218 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

NEW YORK OR WONDERFUL. Large white leaves.

L224 Pkt., 10c; oz., 25c; ¼ lb., 85c; lb., \$3.00.

BROWN DUTCH.

L215 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

SALAMANDER. Good all seasons. Resists heat.

L226 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

TENNIS BALL. Black Seeded. One of best standard sorts.

L225 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00.

TENNIS BALL. White Seeded. (Boston Market.) A good forcer.

L227 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

Cos Lettuce

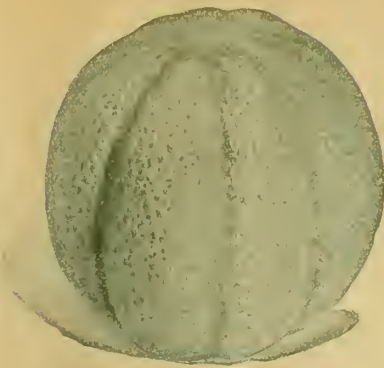
Considered by many the highest type of lettuce; has distinct upright habit, very crisp and sweet. Needs transplanting.

EXPRESS COS. A Vaughan introduction. The most dwarf and earliest of all. Delicious flavor. Self-closing.

L244 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

PARIS WHITE COS. Grows to large size. Self-closing.

L228 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25.



VAUGHAN'S HOODOO



VAUGHAN'S MILWAUKEE MARKET



TOM WATSON

MUSK MELONS

Any Garden Soil Will Grow Some Sort

MELONS of all kinds like a fertile, sandy loam, but very fine Muskmelons can be grown in any good garden soil with plenty of sun. Sow when the night temperature is not below 60 degrees, in hills 4x5 feet apart, preparing them with one or two shovelful of well-decayed manure, over which spread about three inches of fine soil. Sow plenty of seed, as insect pests are numerous and thin gradually to three strong plants in the hill; if the vines are too lusty, they may be pinched back and will branch and bear the better for it.

Vaughan's Original Osage

Most growers of Muskmelons have learned that success with this vegetable varies greatly with soil conditions; many kinds are adapted for only one soil or location; Vaughan's Osage is a notable exception to this rule, it not only succeeds on all soils, but in heavy soils, where other sorts like Rocky Ford produce inferior fruits, Osage does well; in sandy soil it is at home.

M405 Selected Stock. Pkt., 10c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.50.

M406 Standard Stock. Pkt., 10c; oz., 15c; 2 oz., 25c; ¼ lb., 45c; lb., \$1.40.

Vaughan's Hoodoo

The best salmon-fleshed Gem Melon. Introduced by Vaughan's Seed Store. Quality—fine grained, not stringy and of the sweetest flavor. Size and Shape—just right, so it may be served cut in halves. Flesh and Color—deep orange, extremely thick.

M437 SELECT STOCK. Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

M438 Standard Stock. Pkt., 10c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.40.

Morrill's Reselected HOODOO (Hearts of Gold). Selected especially for shipping.

M420 Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

Vaughan's Paul Rose

Paul Rose is the result of crossing Osage and Rocky Ford, an exceptional combination of melon qualities, the rich quality, color of flesh and fine flavor of Osage, with the deep netted skin, shape and size of Rocky Ford.

M413 Selected Stock. Pkt., 10c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; lb., \$2.50.

M414 Standard Stock. Pkt., 10c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; lb., \$1.40.

Vaughan's Extra Early Osage

Extra early strain of the Popular Orange Flesh Osage Melon. Not as large as Vaughan's Original Osage but at least ten days earlier and of equal quality. Market gardeners will find it a money-maker.

M428 Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., \$2.25.

Vaughan's Milwaukee Market

This is a fine new melon that made its appearance in Milwaukee a few years ago. It originated as a cross between the old Surprise and a Gem melon. The skin is light green, fruits nearly round with only slight sutures, flesh salmon, wonderfully sweet, with almost no stringiness. Every home gardener who can grow Muskmelons should plant this for 1921.

M407 Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

TIP TOP. A melon we recommend to every lover of this luscious fruit. It is yellow fleshed of the very best quality.

M430 Selected Stock. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.40.

MONTREAL MARKET NUTMEG. The largest of the nutmeg varieties. This melon is extensively raised near Montreal, being sown and grown in cold frames until ready to set out. Skin is dark green, flesh green.

M425 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

ROCKY FORD NETTED GEM. Of the green-fleshed muskmelons, Rocky Ford is the recognized standard of excellence.

M432 Vaughan's Selected Stock. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

M433 Standard Stock. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.25.

HONEY DEW MELON. A new melon originating in the Rocky Ford district with a somewhat vague story of the first seed having come from some place in South Africa. The skin is perfectly smooth, of a delicate yellow color with incidental warts in scattered fashion.

M401 Pkt., 10c; oz., 25c; 2 oz., 45c; ¼ lb., 75c; lb., \$2.50.

IMPROVED JENNY LIND (Vaughan's Selected Stock). A compact packer, with rind thick at ends, which are flattened and are not

easily broken when crated, or basket-packed for shipment. The quality of its yellowish-green flesh is unsurpassed.

M419 Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.25.

EXTRA EARLY HACKENSACK. Ten days earlier than old "Hackensack," of which this is a selection. The melons weigh 4 to 10 lbs. each.

M409 Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.25.

M411 Hackensack—late strain. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.25.

EMERALD GEM. The skin is smooth and deep emerald color, the flesh is thick and of delicate salmon tint. The vines bear early and are very prolific. A splendid home garden melon, but is not a good shipper. The sweetest of all melons.

M417 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

BANANA. Cucumber shape. Delicious odor.

M424 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

Watermelons

IN the South, where the season is long, any variety of Watermelon may be grown with the greatest success, but in the Northern States, where the summer is short and frosts may be early, it is best to choose of the smaller fruiting varieties. Plant (the same as Muskmelons or Cucumbers) in the warmest spot in the garden, and enrich the soil very highly.

Cole's Early

The Northern States' favorite. As an early melon it is the standard of high quality; in sugary delicious crispness, flavor and melting tenderness, it is the top-notch. It is oblong shaped, about 20 inches long, 12 inches through; skin mottled green, thin brittle rind, therefore not a good shipper. The flesh is rich and deliciously sweet.

M523 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c; 5 lbs., \$4.00; 10 lbs., \$7.50.

Kleckley Sweets

This is a grand, old established variety of Vaughan's Special Watermelons. In its culture the greatest care is always taken by us to retain the excellent qualities for which it has become famous, and properly stands as the type of excellence for eating.

M510 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00; 5 lbs., \$4.50.

Tom Watson

There's delicious sweetness in every bite. The flesh is rich red, crisp and tenderly melting. The quality of this melon changed the market demand from the round to the long melons.

M514 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00; 5 lbs., \$4.50.

HALBERT HONEY. A variety somewhat similar to Kleckley Sweets—of much darker color.

M506 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

ALABAMA SWEETS. A Southern favorite; there it grows to perfection, and is a grand shipper. It is oblong in shape, dark green skin, irregular striped, has bright red flesh of delicious flavor and sweetness. Our strain is especially fine; the seed is white.

M504 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c; 5 lbs., \$4.00.

SWEETHEART. Oval, light green mottled. Flesh bright red, very firm, yet tender. A fine shipper.

M522 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

VAUGHAN'S BLACK DIAMOND. Very large, prolific, medium early, dark green skin, red flesh, blunt oval shape, fine shipper.

M524 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Standard Varieties

Any of the following: Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

M509 COLORADO CITRON. For preserves.

M505 RED SEEDED CITRON. For preserves.

M519 EARLY FORDHOOK. Earliest shipper.

M517 ICE CREAM OR PEERLESS. Early, fine quality melon.

M516 IMPROVED KOLB'S GEM. A standard market shipping melon.

M525 McIVER'S WONDERFUL SUGAR. Very sweet, long melon.

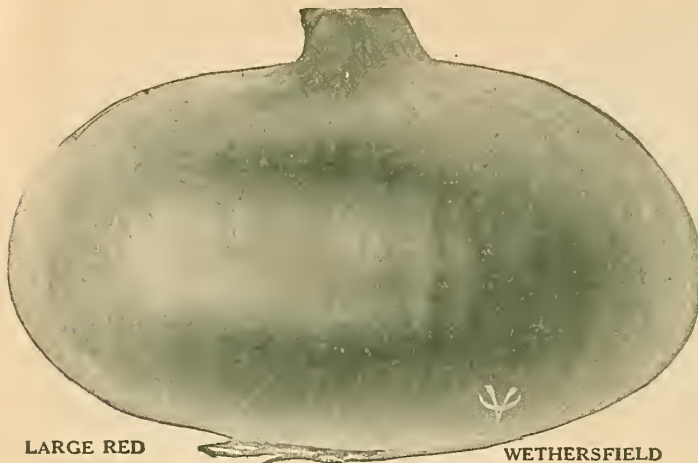
M508 RATTLESNAKE OR GYPSY STRIPED. Oblong, striped and mottled; very sweet; popular South.

M527 TRIUMPH. Very dark; large shipper.

Winter Watermelon

This is an exceptional melon for fine keeping quality; put in a cool place it keeps long into the winter and retains its delicious sweetness and flavor.

M501 Pkt., 10c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; lb., \$1.60.



ONIONS

ALMOST any soil will grow onions; but for really fine ones three things are necessary: high manuring, selected seed and careful and constant cultivation. Sow the seed, which should have as early a start as possible, in straight rows twelve to fifteen inches apart; sow about one-half an inch deep and about an inch apart, firming the soil well over them with the hand or a roller. As soon as the rows of tiny green shoots are visible give thorough cultivation with wheel hoe, or scuffle hoe, repeating this process every ten days for three or four weedings.

Onion Sets.—While the best onions are raised from seeds, sets are often planted in order to secure early onions, either the small green onions for bunching or mature bulbs. Plant one to three inches apart as required, as early as the ground can be prepared, and cultivate as from seed.

Prizetaker—American Grown

Among large onions this is exceptional for size and beauty; it is of the same type as the large Spanish onions. Vaughan's American-grown seed has become finely acclimated through many years of very careful, painstaking culture. Prizetaker is a yellow globe that matures to great size under right conditions; it requires a long season and should be started early in hot bed. When properly ripened it is a good keeper.

O220 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00; 5 lbs., \$9.50; 10 lbs., \$18.50.

Giant Gibraltar

A variety similar to Prizetaker. We offer American-grown seed raised from bulbs produced from European seed. The strain runs slightly larger in size than the usual run of Prizetaker.

O201 Pkt., 10c; oz., 25c; ¼ lb., 85c; lb., \$3.00.

Mammoth Silver King

Averages 15 to 22 inches in circumference and weighs 2½ to 4 lbs. It matures early and is uniformly large and of good shape; flat, but thick. Skin is clear silvery white, flesh snowy white tender, sweet and mild. Ideal for exhibition, fancy market or table.

O221 Pkt., 10c; oz., 25c; ¼ lb., 85c; lb., \$3.00.

Early White Welsh Onion

The best kind for green onions, forms no bulb. Plants can be propagated from seeds or divisions.

O240 Pkt., 10c; ½ oz., 20c; oz., 30c; ¼ lb., \$1.00; lb., \$3.50.

WHITE PORTUGAL OR SILVERSKIN. A splendid sort for growing white onion sets, pickles and for early bunching green onions or large white onions for fall and early winter use. A medium size flat bulb.

O213 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

LARGE RED WETHERSFIELD. The skin is deep purplish red, which covers a round, somewhat flattened bulb of purplish white flesh. Moderately fine grain and mild flavor. In poor soil it does best, growing a thinner neck than in strong soil.

O204 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00; 5 lbs., \$9.50; 10 lbs., \$18.00.

AILSA CRAIG. Vaughan's Selected Stock. Large, with fine straw-colored skin; excellent for exhibition purposes, in which it is a successful competitor of large, imported Spanish onions. For a large onion, a splendid keeper; for eating raw it has no superior.

O208 Pkt., 15c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00.

AUSTRALIAN BROWN GLOBE. Large diameter; weighs about 7 oz. Perfect globe-shape neck, long keeper, solid flesh, grand shipper.

O230 Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.75; 5 lbs., \$8.25; 10 lbs., \$16.00.

BROWN AUSTRALIAN (Flat). A very desirable onion of medium size, with amber brown skin and solid white flesh. It is early, a heavy yielder, and a long keeper; keeps well in warm climates.

O229 Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

STRASBURG OR YELLOW DUTCH. Large and more flat than Yellow Danvers, has white flesh of fine grain, mild, well flavored—a splendid yellow onion for sets.

O212 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

YELLOW FLAT DANVERS. It is of medium size, quite thick through but flattened, has coppery yellow skin, and creamy white flesh which is mild and of pleasant flavor.

O209 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50; 5 lbs., \$7.00; 10 lbs., \$13.50.

EXTRA EARLY FLAT RED. One of the handsomest red onions, and first to ripen; grown from Vaughan's carefully grown seed will ripen two weeks earlier than other strains.

O211 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

WHITE QUEEN. Remarkable for earliness and very mild flavor, it is small and white skinned.

O227 Pkt., 10c; oz., 30c; ¼ lb., 85c; lb., \$3.00.

WHITE BARLETTA. Beautiful waxy-white.

O228 Pkt., 10c; oz., 30c; ¼ lb., 85c; lb., \$3.00.

Onion Sets

Pint and quart prices for Onion Sets include Parcel Post preparation through first three zones. For farther zones add 5c per pound. Each quart weighs 1½ pounds.

WHITE BOTTOMS.

O310 Pint, 20c; quart, 35c; ½ peck, 75c; peck, \$1.25; bushel, \$4.00.

YELLOW BOTTOMS.

O314 Pint, 15c; quart, 30c; ½ peck, 50c; peck, 85c; bushel, \$3.00.

RED BOTTOMS.

O312 Pint, 15c; quart, 30c; ½ peck, 50c; peck, 85c; bushel, \$3.00.

SPECIAL OFFER No. OSI—1 pint each, 3 colors, 50c; 1 quart each, 3 colors, 80c. (Postage extra).

EGYPTIAN OR RED PERENNIALS. These we sell largely in the Fall. Planted then they produce very early green onions.

O308 Pint, 20c; qt., 35c; ½ peck, 75c; peck, \$1.25; bushel, \$4.00.

WHITE MULTIPLIERS. For First Early Spring Bunching Onions. They are pure silvery-white, which runs well up the stem, very sweet and mild flavor, superior to green onions from other sets.

O302 Pint, 25c; quart, 40c; ½ peck, 90c; peck, \$1.60; bushel, \$6.00.

YELLOW MULTIPLIERS. Flavor much superior to ordinary onions.

O300 Pint, 20c; quart, 30c; ½ peck, 80c; peck, \$1.35; bushel, \$4.50.

RED SUMMER TOP SETS. These are planted to produce both early "Green Onions" and large eating onions.

O306 Pint, 20c; quart, 35c; ½ peck, 90c; peck, \$1.50; bushel, \$5.50.



PEPPERS

PEPPERS require considerable heat and should be grown much like egg plants. Sow in April, in the window-box or hot-bed and transplant when frost is over to the open ground in rows two feet apart and eighteen inches apart in the row. The soil should be rich and well cultivated, a dressing of well rotted manure during growth will benefit the plants. The mild sweet Pepper has revolutionized this vegetable.

Vaughan's Giant Magnum Dulce

This grand pepper has appropriately been styled the "Salad King." But it is not in salad form alone that it excels. With seeds removed it may be stuffed, either with dressing or with meat, such as ground steak with onions or other seasoning. Sliced and fried, it is a delicious dish, or it may be eaten raw, it is so mild. Vaughan's Magnum Dulce Sweet Pepper can be grown to immense size, 7 inches long and 4 inches through, but when grown so large the yield is small.

P506 Pkt., 10c; ½ oz., 40c; oz., 75c; ¼ lb., \$2.25.

Ruby King

One of the most popular varieties growing 4½ to 6 in. long, 3½ to 4 in. thick. The peppers are a bright ruby red and are among the best sorts for pickles. P503 Pkt., 10c; oz., 50c; ¼ lb., \$1.60.

Chinese Giant

The fruit grows 4 to 5 inches broad on top and of equal length, and quite uniform in size; the flesh is unusually thick, mild flavor and makes a very fine salad sliced and served like tomatoes. The color is green turning to glossy scarlet when ripe.

P514 Pkt., 10c; ½ oz., 35c; oz., 60c; ¼ lb., \$2.00.

CRIMSON GIANT, Early Pepper. Matures the earliest of all the large red sweet peppers. Grows 2½ feet high and bears a large quantity of fruits. P501 Pkt., 10c; ½ oz., 35c; oz., 60c; ¼ lb., \$2.00.

NEW SWEET UPRIGHT SALAD. Is an early, prolific, good sized, sweet, mild, pepper; so mild indeed that it may be eaten raw. In the northern states it is a most desirable sort.

P520 Pkt., 10c; ½ oz., 40c; oz., 75c; ¼ lb., \$2.25.

PIMENTO. Flesh extremely thick and very mild. Must be started early in the north to mature its fruits fully.

P500 Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.60.

VAUGHAN'S SWEET MOUNTAIN. The habit of growth is strong and it is very productive; the flesh, though sharper than "Upright Sweet Salad," is very mild and thick. The peppers often grow 6x4 inches.

P502 Pkt., 10c; oz., 50c; ¼ lb., \$1.60.

NEAPOLITAN. Popular on account of its earliness and productiveness. The fruit is of good size, growing on a vigorous stalky plant. The flesh is quite thick and mild.

P509 Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.60.

BULL NOSE. Sweet Mountain.

P504 Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.60.

CAYENNE. Long red; very hot.

P507 Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.60.

P512 TABASCO. Hottest of all.

P513 MAMMOTH GOLDEN QUEEN.

Price of the above: Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.60.



ONIONS—Continued

Southport Yellow Globe

The Vaughan strain of this onion is the most uniform on the market today. It is ball shaped. Our eastern seed bulbs are hand sorted by ourselves and the seed grown under our direct supervision. The ideal heavy yielding, long keeping Golden Yellow market onion.

Eastern grown seed. O234 Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50; 5 lbs., \$12.00; 10 lbs., \$23.00.

California grown seed. O219. Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75; 5 lbs., \$8.25; 10 lbs., \$16.00.



Southport Red Globe

In shape this onion is similar to our Southport Yellow Globe but a little deeper. The color is a rich dark red showing its years of Eastern breeding. A wonderful keeper with finely bred neck and a heavy yielder.

Eastern grown seed. O224 Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50; 5 lbs., \$12.00; 10 lbs., \$23.00.

SOUTHPORT RED GLOBE (California Seed). O218 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00; 5 lbs., \$9.50; 10 lbs., \$18.50.



OUR FREE DELIVERY. See inside back cover page explaining **FREE DELIVERY** to first three postal zones. **FOR 5 CENTS PER POUND MORE WE PREPAY TO ALL ZONES.**

Vaughan's Ideal White Globe

This is a very early type, it ripens evenly and is a fine keeper; it is a true globe, pure white onion.

Eastern grown seed. O217 Pkt., 15c; ½ oz., 25c; oz., 45c; 2 ozs., 80c; ¼ lb., \$1.50.

California grown seed. O215 Pkt., 10c; ½ oz., 15c; oz., 25c; ¼ lb., 75c; lb., \$2.50; 5 lbs., \$12.00; 10 lbs., \$23.00.

Ohio Yellow Globe

It attracts attention by its uniform shape, beautiful color and fine size, in all of which it outclasses the old type Yellow Globe Danvers.

Eastern grown seed. O237 Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

California grown seed. O206 Pkt., 10c; oz., 20c; ¼ lb., 55c; lb., \$1.75; 5 lbs., \$8.25.



Yellow Globe Danvers

An excellent strain of the popular variety. A good keeper. In shape a little flatter than the Southport Yellow.

O205 Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.60; 5 lbs., \$7.50; 10 lbs., \$14.50.

Ideal Yellow Globe

A "bottle necked" type of Yellow Globe Onion selected along the lines of the European Pear-shaped Onions. This type is much admired by many onion growers.

O202 Pkt., 10c; oz., 25c; ¼ lb., 80c; lb., \$2.75.

Vaughan's Special Yellow Globe

An early Yellow Globe introduced by us into the Chicago section recently. Slightly smaller than Southport. It produces a fine market onion.

O200 Pkt., 10c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; lb., \$2.00.



Vaughan's Apple-Shaped Red Globe

Eastern grown seed. Rounder than Southport Red Globe. Very small neck; sound and solid. Color dark red.

O231 Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

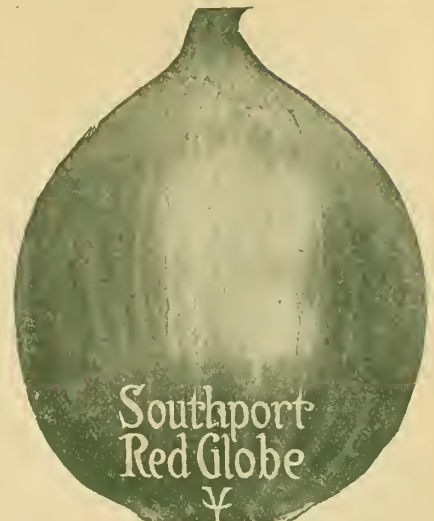


MUSTARD

Leaves useful as salad or boiled like Spinach.

CHINESE OR GIANT SOUTHERN CURLED. Large leaves often measure 14 inches; ready for use in about six weeks after sowing. Plants will continue to yield until frosty weather. Leaves boiled like Spinach.

M602 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.



IMPROVED OSTRICH PLUME. The handsomest of the Mustards. Rich dark green leaves of excellent quality. Vigorous habit and withstands summer heat.

M603 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.25.

M600 **WHITE.** Best for general use. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

M601 **BROWN.** Stronger than above. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

OKRA, OR GUMBO

This vegetable should be planted a great deal more than it is. Extremely easy to grow and its young seed pods are delicious in soups and alone. Probably the finest known vegetable for this use. Full planting and cooking directions on each package.

WHITE VELVET. Produces pods larger than any other. They are never prickly to the touch, always round and smooth, while in other varieties they are either ridged or square-holed.

O103 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

DWARF. Grows low but stocky and is very productive.

O100 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

TALL OR PERKINS' MAMMOTH. The long pods measuring 4 and 5 inches are produced in great quantities. Handsome, green color

O102 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Mushroom Spawn

Lambert's "Pure Culture Tissue Spawn"

Made from mushrooms grown under cultivation; absolutely fresh, of quicker and stronger growth than imported spawn. Our manufacturers in this country keep us supplied with regular monthly shipments to meet the extensive business we have developed in this line—the result is our patrons secure the best,

quickest and livest spawn on the market. The varieties we carry are white, cream-white and brown.

Price—Direct Bricks, inoculated direct from Pure Culture Tissue. Brick (weight 1½ lbs.), 30c; 5 bricks, \$1.30; 10 bricks, \$2.50; 25 bricks, \$4.75; 100 bricks, \$18.00.

M302 No. 7 **Brown** (Bohemian). A good producer of heavy mushrooms.

M304 No. 8 **Cream White.** A mammoth strain.

M306 No. 9 **White** (Alaska). Popular market variety.

English Mushroom Spawn.

Our English Mushroom Spawn manufacturer is the oldest established and most extensive grower in the world. The superiority of this over all other importations is well known by experienced mushroom growers. We are the largest importers in the U. S., receiving 8 to 12 shipments annually; this spawn is carefully made from perfectly grown specimens. It comes in the form of pressed bricks.

M300 Prices (weight per brick, 1½ lbs.), brick, 25c; 2 bricks, 40c; 8 bricks, \$1.40; 25 lbs., \$3.25; 100 lbs., \$12.00; if shipped from New York, per 100 lbs., \$11.50.

Please order by Catalogue Number

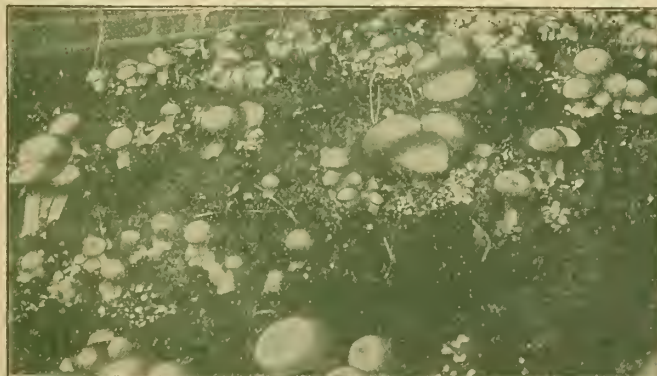
TO GROW a crop of Mushrooms in your own basement cellar or well-built outbuilding—is a home gardening effort worth making. While these are quickly saleable, we are sure most of our readers would insist on eating their own crops! The location of the beds must be one where a temperature of 55 degrees to 65 degrees can be kept during cold weather. A barrel may be used in which to confine the manure for growing. We print and give **FREE** with orders for our Mushroom Spawn, a leaflet, "How to Grow Mushrooms." We supply the highest quality of Mushroom Spawn to the largest commercial "caves" in the country, both from our Chicago and New York stores.

Lambert's New Process Spore Culture Spawn. (Novelty.)

In this new Spore Culture spawn which has been developed in France and is now produced in America, a more vigorous and a more prolific spawn is claimed. Not only that, but types have been more definitely fixed and absolute uniformity secured.

We offer same kinds and numbers as of the "Pure Culture Tissue" Spawn quoted below.

Price—Brick (weight, 1½ lbs.), 35c; 5 bricks, \$1.50; 10 bricks, \$2.75; 25 bricks, \$5.50; 100 bricks, \$20.00.



THE PRODUCT OF LAMBERT'S NEW PROCESS "SPORE CULTURE" SPAWN.

DWARF PEAS

First of All Seeds to Plant Outdoors



LITTLE MARVEL

PEAS do best in cool weather. A light, dry and not too rich soil suits them best. Sow as early as the ground can be worked, planting three varieties for a succession; follow with successive planting every two weeks until June. Make the first sowing about an inch deep, firming the soil over the seed, and drawing up the earth about the plants as they increase in size. Late plantings should be deeper, three or four inches, giving deeper roots and cooler soil. The dwarf varieties require little or no brush and are more convenient in the home garden. Smooth seeded peas may be planted earlier than the wrinkled varieties.

Little Marvel

The most satisfactory pea in the average home garden. It remains in prime picking condition a week longer than the older sorts. Very productive, hardy, luscious and sugary. Vines 18 inches, pod dark green, well filled.

P343 Pkt., 10c; lb., 45c; 2 lbs., 85c; 10 lbs., \$3.50.

Vaughan's Top o' the Morn

This is one of the best of the new Dwarf Giant Podded Peas. The vines are of a deep green, growing 18 inches in height. The pods are blunt-ended and are produced in clusters all up the haulm.

P352 Pkt., 10c; lb., 45c; 2 lbs., 90c; 10 lbs., \$3.75.

New Pea, Laxtonian

Extra early, tall, has large pods like "Telephone," which are filled with the finest flavored peas. Laxtonian is in season a few days later than the first earlies. It is in a class almost by itself, for size, appearance and productiveness.

P302 Pkt., 10c; lb., 45c; 2 lbs., 85c; 10 lbs., \$3.50.



Nott's Excelsior

Almost as early as the round seeded varieties—only 2 to 3 days later—but far superior to them in quality. Vines about 15 inches high, pods about 3 inches long, each containing 5 to 7 peas of good size, tender and delicious.

P322 Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$2.75.

American Wonder

Is an early dwarf wrinkled pea, of standard quality. The vines are dwarfer than Nott's Excelsior, being only 10 to 12 inches high. Pods are firm and well filled with peas of splendid quality.

P303 Pkt., 10c; lb., 35c; 2 lbs., 70c; 10 lbs., \$2.75.



DWARF DEFIANCE

McLEAN'S ADVANCER. A favorite mid-early sort.

Vines 30 inches high.
P316 Pkt., 10c; lb., 30c;
2 lbs., 60c; 10 lbs., \$2.25.

DWARF TELEPHONE OR DAISY. A mid-season maturing sort of merit; vines are dwarf and bear large, bright green pods, each contains 7 to 9 peas of finest quality.

P337 Pkt., 10c; lb., 40c;
2 lbs., 80c; 10 lbs., \$3.25.

IMPROVED STRATAGEM.

Long dark green pods, produced on vines 2 feet high, of strong vigorous growth; matures mid-season.

P336 Pkt., 10c; lb., 40c;
2 lbs., 75c; 10 lbs., \$3.00.

HORSFORD'S MARKET GARDEN. Later than "Advancer," grows taller, requires no brushing, and is a heavier producer.

P317 Pkt., 10c; lb., 30c;
2 lbs., 60c; 10 lbs., \$2.25.

JUNO OR DWARF CHAMPION.

Main crop dwarf wrinkled pea, of hardy, vigorous and prolific growth.

Long pods, each contain 7 to 9 peas of very best quality.

P331 Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50.

SUTTON'S EXCELSIOR IMPROVED. Is a very fine first early dwarf pea, regarded by some as the best of the wrinkled sorts. It can be planted early; vines are 18 inches high, very prolific.

P310 Pkt., 10c; lb., 45c; 2 lbs., 85c; 10 lbs., \$3.50.

EXTRA EARLY PREMIUM GEM OR LITTLE GEM. An early dwarfed wrinkled pea; vines grow 16 to 18 inches high, require no support, and yield heavily.

P306 Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50.

DWARF DEFIANCE. A grand second early. The vines are vigorous, the pods dark green and immense in size and fullness, like "Telephone."

P314 Pkt., 10c; lb., 40c; 2 lbs., 75c; 10 lbs., \$3.00.

HEROINE. A main crop semi-dwarf that is extremely prolific; vines 30 inches, high with luxuriant foliage. Long, pointed, slightly curved pods, filled with sweet, luscious peas.

P319 Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50.

PUMPKINS are easily grown. At time of corn planting scatter a few seeds in every fourth or fifth hill, or for a large crop sow in May, in a good warm soil in hills eight to ten feet apart each way, four plants to a hill. Avoid planting near other vines, as they hybridize.

LARGE FIELD OR "BIG TOM." The vines are strong and prolific. Fruit averages 15 to 20 inches in diameter. Smooth, hard, reddish orange skin with rich orange-yellow flesh.

P806 Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.25.

WINTER QUEEN OR WINTER LUXURY. Generally regarded as the finest quality pie pumpkin and the best winter keeper of all. In size about nine or ten inches.

P812 Pkt., 10c; oz., 15c; 2 oz., 25c; ¼ lb., 45c; lb., \$1.50.

VAUGHAN'S MAMMOTH PRIZE. A really enormous variety. Notwithstanding its size, it is among the best pie pumpkins. Takes long to mature and should be given plenty of room.

P805 Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

VAUGHAN'S SUGAR PIE PUMPKIN. The fruit is small to medium size, with solid fine grained flesh, and such a sweet, sugary, delicious flavor they all call for "more"; the seed cavity is small.

P804 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

PUMPKINS

LARGE CHEESE. Large flat very productive. Keeping quality excellent, extra well flavored and sweet.

P802 Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.25.



VAUGHAN'S SUGAR PIE PUMPKIN

CALHOUN. Medium size, solid and of excellent quality. Skin cream; flesh, salmon yellow. A fine pie variety.

P814 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

SMALL SUGAR. Flat sort, good for the home garden.

P803 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.35.

JAPANESE PIE. Finest quality, good keeper.

P809 Pkt., 10c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; lb., \$1.75.

GOLDEN OBLONG. Orange color. Flesh yellow, excellent flavor.

P813 Pkt., 10c; oz., 15c; 2 oz., 25c; ¼ lb., 45c; lb., \$1.50.

SWEET POTATO. Bell-shaped. White flesh. Used for pies.

P801 Pkt., 10c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; lb., \$1.60.

LARGE TOURS OR MAMMOTH FRENCH. Very large size.

P807 Pkt., 10c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; lb., \$1.75.

QUAKER PIE. Pear shaped. Rich flavor and good keeper.

P800 Pkt., 10c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; lb., \$1.75.

CUSHAW P811 WHITE OR CUSHAW P810 STRIPED. Popular southern sorts; fine flavor. Either one.
Pkt., 10c; oz., 20c; 2 oz., 35c; ¼ lb., 50c; lb., \$1.60.

TALL GROWING PEAS

WHERE brush is not obtainable chicken-netting may be used for trailing up the vines, or, if 3x3-inch posts are placed at regular intervals in the rows single-wire may be strung beginning four inches from the bottom alternately on each side, allowing the vines to grow between the wires.

Gradus—Vaughan's Re-selected Stock

The greatest of the wrinkled peas; it is large and in flavor equal to the best. It is tender and should be planted in the warmest spot in the garden. It matures two or three days later than the hard round extra early sorts. Vines 30 inches, pods 4 inches long, beautiful green color, with 10 or more peas in each.

P340 Pkt., 10c; lb., 40c; 2 lbs., 80c; 10 lbs., \$3.25.

Vaughan's Improved Telephone

In the home garden the value of this variety is attested by heavy yielding and excellent quality. Uniformly large pods, 5 inches or more long, filled with 8 to 9 delicious peas. It grows 4 feet high and is a main crop variety.

P318 Pkt., 10c; lb., 40c; 2 lbs., 75c; 10 lbs., \$3.00.

Champion of England

This is a late season pea, and as such has long been a recognized standard for quality, big crop, good sized pods filled with peas of superb flavor. The vines grow about 5 feet high, are very vigorous and productive.

P325 Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50.

Alaska—Called Earliest of All

A smooth sound pea, seed is bluish in color. Round seed peas do not rot in cold ground so easily as wrinkled peas do, hence earlier planting and harvesting are possible.

P308 Pkt., 10c; lb., 25c; 2 lbs., 50c; 10 lbs., \$2.00.

Vaughan's Select "Extra Early" Maud S.—Vines are 20 to 26 inches high, pods 2½ to 3 inches long, each having 5 to 7 peas. Delicious sweetness, rich flavor, and tenderness are the qualities for which our strain is known. Seed white, round and smooth; crop ripens evenly and extra early.

P301 Pkt., 10c; lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25.

The Ameer—Very popular with truckers in certain sections of the South. Smooth. The season is early, 2 or 3 days later than Alaska, and the pods are almost twice as large.

P341 Pkt., 10c; lb., 35c; 2 lbs., 65c; 10 lbs., \$2.50.

Surprise—The Earliest Pea of Quality—In season two days later than Alaska. Being a wrinkled pea, it cannot be planted in soil so cold as smooth peas. Vines grow 24 inches high, require no support; the pods

PARSLEY seed germinates very slowly, the plants sometimes not appearing for three or four weeks. Sow as early as possible, and soak the seed a few hours in luke-warm water before sowing. Sow thickly in rows one foot apart; and cover one-half inch deep. Thin out to six inches apart in the rows.

Vaughan's XXX Parsley

"The most beautiful Parsley that ever garnished a dish." An enthusiastic chef said as he garnished some dishes with sprays of this beautiful Parsley. The daintily curled leaves of delicate green, appetizingly fresh and beautiful, adds zest and richness to substantial or delicate viands. It is pretty in growth as well. It is very dwarf in the garden—many of our customers plant it as a border; it also is valuable in the hot-bed, greenhouse, or in pots in winter.

P6 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

Vaughan's Champion Moss Curled. In England this is a prize winning variety. Robust, compact plants are quickly produced, the leaves are so crumpled and curled as to have the appearance of curled moss, with rich, green color; it is quite hardy, slow to run to seed and may be grown in pots or window boxes.

P2 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00.

Double Curled. A very fine dwarf,

are of good size.

P309 Pkt., 10c; lb., 40c; 2 lbs., 75c; 10 lbs., \$3.00.

Thomas Laxton—This is a selection of Gradus; the season is identical, but the pods are square at the end and deeper green and the yield is greater. Vines are 3 to 3½ feet high.

P335 Pkt., 10c; lb., 40c; 2 lbs., 80c; 10 lbs., \$3.25.

"Quite Content"—This is the largest podded pea, the pods being 5-6 inches in length, quite exceptional for size. It is later in season than "Vaughan's Improved Telephone"; the vines grow 5 to 6 feet high and need support.

P348 Pkt., 10c; lb., 45c; 2 lbs., 90c; 10 lbs., \$3.75.

Telephone. Standard stock. The pods are light instead of dark green, and are not quite as uniform as our Improved Telephone.

P323 Pkt., 10c; lb., 40c; 2 lbs., 75c; 10 lbs., \$3.00.

Alderman—This mid-season pea is tall growing, of English origin, and a few days later than Vaughan's "Improved Telephone."

P339 Pkt., 10c; lb., 40c; 2 lbs., 75c; 10 lbs., \$3.00.

Everbearing—For late summer and autumn; very prolific variety.

P327 Pkt., 10c; lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25.

Yorkshire Hero—An old standard variety; vines medium tall; produces a fine crop of broad, well filled pods. Peas are wrinkled, sweet, large and remain a long time in good condition.

P326 Pkt., 10c; lb., 30c; 2 lbs., 60c; 10 lbs., \$2.25.

Black Eye Marrowfat (Late). A great yielder of ordinary quality peas.

P329 Pkt., 10c; lb., 25c; 2 lbs., 45c; 10 lbs., \$1.80.

White Marrowfat. Similar to Black Eye. Popular heavy yielder.

P330 Pkt., 10c; lb., 25c; 2 lbs., 45c; 10 lbs., \$1.80.

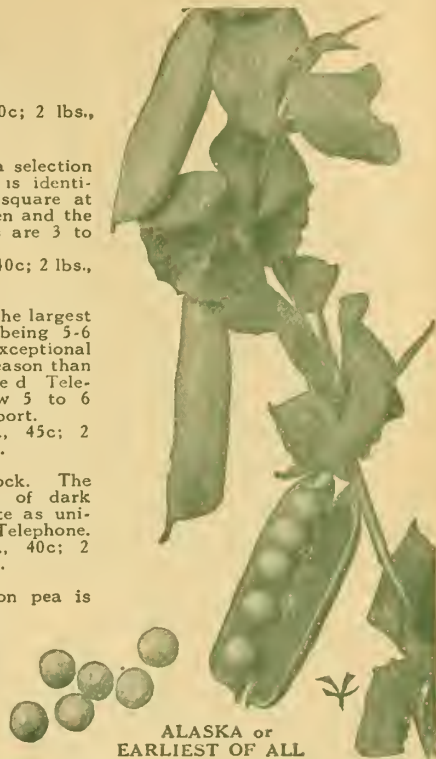
Edible Pod Peas (Cooked like String Beans)

Dwarf Gray Sugar. Vines 16 inches.

P332 Pkt., 10c; lb., 40c; 2 lbs., 80c; 10 lbs., \$3.25.

Luscious Sugar. Tall growing strain of above.

P324 Pkt., 10c; lb., 45c; 2 lbs., 90c; 10 lbs., \$3.75.



ALASKA or EARLIEST OF ALL

Pods, about 3 inches long, with large peas of good quality.

PARSLEY

handsome green, curled variety.

P1 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c.

Plain or Italian. The leaves are not curled.

However, the flavor is excellent and plant is very hardy.

P4 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 90c.

Hamburg Rooted or German. The root resembles a small parsnip and is the edible part; used for flavoring soups.

P5 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

PARSNIP

SOW early in drills fifteen inches apart and one-half inch deep. Cultivate frequently until the leaves cover the ground. Parsnips are improved by frost and when some are taken up in the fall for early winter use, a portion of the crop should be left accessible during a winter thaw or in very early spring.

Vaughan's Marrowfat Parsnips

Uniform good size, fine shape, clean, smooth skin, and general handsome appearance distinguish this high class variety. In richness of flavor it is unequalled.

P102 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

Magnum Bonum. A greatly improved strain of "Hollow Crown" Parsnip. It is a heavy cropper, the roots are smooth but not so long, though somewhat thicker than the original.

P103 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00.

Hollow Crown, Long Smooth. (Abbott's Improved). Smooth, large, tender and sugary; one of the best. Our strain is a good selection.

P100 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00.

Improved Guernsey. An improvement over the parent, "Hollow Crown," larger in diameter, but not so long. Of excellent sugary flavor.

P101 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00.

Vaughan's New Intermediate. This new sort does not require soil so deep. It is equal in quality to the older varieties although the roots are only one-half to two-thirds as long. On heavy or clay soil it is especially good.

P104 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25.



VAUGHAN'S XXX PARSLEY

POTATOES

The Best Home Garden Food Crop

THE potato thrives best in a sandy loam, but can be grown in almost any soil, provided only that it has proper drainage, as a heavy, wet soil is positively harmful to it. Plow deeply and harrow well. If fertilizer must be given in the Spring, use 500 to 1,000 pounds per acre. Cut the potatoes a few days before planting and sow the pieces twelve or fifteen inches apart, in rows three feet apart. In the west whole potatoes are used for seed. In the field they may be gone over with a light harrow just before the potatoes come up, to destroy the young weeds, and afterward cultivate often and deep as long as possible without destroying the plants. Plant in the latter half of April, to harvest in August. In the home garden a very early sowing of an extra early potato, with a dressing of a quick-acting fertilizer will give an early crop of new potatoes; for general crop, plant a larger kind chosen for table qualities. When the first bugs appear get rid of them before they can lay their eggs, picking by hand or spraying with Pyrox or arsenate of lead. When the foliage dries down and the tubers seem to be matured, with a good, firm skin, is the time to dig; allow them to air thoroughly before storing. If you plant potatoes, do not neglect spraying as there is no other crop where, it is so essential to good results.

Vaughan's Improved Early Ohio (Red)

A week to 10 days earlier than other strains of the same variety. The reason for this is not only in the great care with which our seed is selected, grown and housed, but it is produced under conditions which are the most favorable in the Red River Valley of Minnesota, the natural home of high-class potato seed. In the middle west Vaughan's seed produces earlier and better yields than native seed, no matter how carefully selected.

½ pk., 65c; pk., \$1.00; ½ bu., \$1.65; bu., \$3.00; 100 lbs., \$4.80; sack (2¾ bu.), \$7.00.

Early Bovee

One of the earliest and best producing quality varieties. White flesh; pink skin.

½ pk., 65c; pk., \$1.00; ½ bu., \$1.65; bu., \$3.00; 100 lbs., \$4.80; sack (2¾ bu.), \$7.00.



WOODBURY'S WHITE ROSE

IRISH COBBLER—Early Heavy Cropper

An early of medium size, and in light soil maturing almost as soon as the smaller cropping Earlies. Its size, shape, good quality and appearance commend it. Our seed is grown in Red River Valley, Minn., and is superior to strains grown elsewhere.

½ pk., 65c; pk., \$1.00; ½ bu., \$1.65; bu., \$3.00; 100 lbs., \$4.80; sack (2¾ bu.), \$7.00.

Woodbury's White Rose (Early)

A splendid early potato. A seedling from "Early Rose." It is right in size, beautiful kidney-shape with pure white skin and flesh. The vines are vigorous and resist early blight, and the yield is double that of some other extra early sorts.

½ pk., 70c; pk., \$1.10; ½ bu., \$1.80; bu., \$3.25; 100 lbs., \$5.25; sack (2¾ bu.), \$7.75.

NEBRASKA—The Best Rural Type

This is the heaviest cropping main crop flat white potato. Particularly adapted to the prairie soils of the Middle West. Three hundred bushels per acre yields are not uncommon under favorable conditions. In Michigan, Northern and Central Colorado, Illinois, Nebraska, for a series of years the Nebraska has out-yielded all standard kinds. The vines are very broad and produce an immense growth of luxuriant foliage. The tubers are flat, somewhat flatter than Carman or Rural Type; size larger and quality superb.

½ pk., 65c; pk., \$1.00; ½ bu., \$1.65; bu., \$3.00; 100 lbs., \$4.80; sack (2¾ bu.), \$7.00.

BLISS OR RED TRIUMPH. For more than a decade this has been the standard early potato in the South. It is a round, reddish skinned potato, rather deep eyes and of medium size. As they appear early in the spring on the Northern market they are very attractive and, of course, command a large premium over old stock.

½ pk., 70c; pk., \$1.10; ½ bu., \$1.85; bu., \$3.25; 100 lbs., \$5.25; sack (2¾ bu.), \$7.75.



VAUGHAN'S IMPROVED EARLY OHIO

Rural New Yorker No. 2

Very large, usually smooth, oblong inclining to round, and rather flattened. Skin and flesh white; quality excellent, season intermediate. Tubers of great uniformity in size, almost every one marketable. Known everywhere as "Dusty" Rural.

½ pk., 65c; pk., \$1.00; ½ bu., \$1.65; bu., \$3.00; 100 lbs., \$4.80; sack (2¾ bu.), \$7.00.

Russet Rural or Petoskey

A superb late variety of recent introduction. Remarkable on account of its freedom from disease. This variety is an excellent yielder. It possesses an attractive russet skin and the tubers, which are white, are very regular in size and unsurpassed for cooking qualities. There is practically no waste in peeling as the eyes are almost on the surface.

½ pk., 70c; pk., \$1.10; ½ bu., \$1.80; bu., \$3.25; 100 lbs., \$5.25; sack (2¾ bu.), \$7.75.

Other Rural Types

SIR WALTER RALEIGH. This is an improved Rural New Yorker No. 2. Yields almost all marketable sized potatoes, which are a little earlier and of better quality than Rural. Exceedingly fine-grained and white-fleshed.

½ pk., 65c; pk., \$1.00; ½ bu., \$1.65; bu., \$3.00; 100 lbs., \$4.80; sack (2¾ bu.), \$7.00.

GREEN MOUNTAIN. After careful trials we list this as the most desirable of the cylindrical late potatoes. It is especially suited for loose soils or muck land. As the tubers set rather deep, it is not so good on heavy or clay lands as the crop is liable to run undersized. On loam the tubers run uniformly large. It cooks dry and mealy with a particularly fine flavor; some growers claim "Bug Proof." It is an immense yielder.

½ pk., 65c; pk., \$1.00; ½ bu., \$1.65; bu., \$3.00; 100 lbs., \$4.80; sack (2¾ bu.), \$7.00.

SWEET POTATOES

GROWN ESPECIALLY FOR SEED. We can offer Yellow Jersey (the most popular Northern sort), Red Jersey, Red Bermuda, Early Carolina and Nansemond.

Yellows. 10 lbs., \$1.10; 50 lbs., \$4.00; 100 lbs., \$7.75.

Reds. 10 lbs., \$1.25; 50 lbs., \$4.50; 100 lbs., \$8.75.

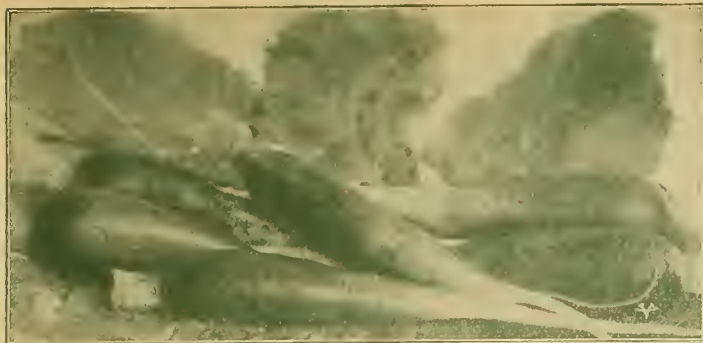
N. B.—Owing to perishable nature of these tubers we ship by express only.

NORTHERN GROWN SEED POTATOES

For more than twenty years we have had our Early Seed Potatoes produced in the Red River Valley of the North in Minnesota and Dakota. Today Vaughan's Red River Valley grown true to type Early Seed Potatoes are the standard of quality throughout the country. We have found these are earlier, more vigorous and better yielders than any grown elsewhere.



NEBRASKA.



EARLY LONG SCARLET SHORT TOP

RADISHES

First Fruits of Spring Sowing

TO have the best Radishes in the home garden, sow a small quantity of seed at a time and keep up a succession of sowings every ten days until the first of June. The soil should be warm and mellow, and a light application of nitrate of soda will stimulate growth. For earliest use, in a hot-bed or cold frame, sow the early Turnip or Olive-shaped forcing varieties. The winter Radishes will produce well into the late fall and should not be sown until June.

EARLY ROUND VARIETIES

Early Scarlet Globe

For hot-bed and greenhouse forcing, and out-door planting. Very early, crisp, mild and tender. Rich bright scarlet in color, of uniform globe-shape and stands heat better than any other sort without becoming pithy. It is ready for the table in 25 days.

- R14 Vaughan's Select Stock. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.
- R15 Standard Stock. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c

Scarlet Turnip White Tip

This radish is a table dainty, crisp, tender and sweet; it is turnip-shaped, bright scarlet color, with white tip. It combines beautiful appearance with finest radish-quality.

- R16 Vaughan's "Sparkler" Strain For Open Ground. Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.25; 5 lbs., \$5.50.
- R17 American Crown. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$3.50.

Giant Butter

This is by far the largest of the early turnip, forcing radishes, exceeding in size even the Crimson Giant. In color it is vivid scarlet. The tops are extremely short and the tap root is small.

- R47 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.65.

Vaughan's 20-Day

The quickest Olive-shaped Red radish, matures 20 days after sowing; has attractive, bright scarlet skin, white, sweet, crisp and tender flesh.

- R8 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.40.
- IMPROVED BREAKFAST. An excellent early olive-shaped radish about two inches long, with slender tap root, deep red skin, white tip. Flesh is solid, sweet, crisp and tender, fine for the home garden.
- R10 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.25.
- FRENCH BREAKFAST (Quick and Handsome).
- R25 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.
- OLIVE-SHAPED DEEP SCARLET. Similar to Vaughan's 20-Day.
- R20 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.
- CRIMSON GIANT. Although twice the size of other forcing sorts, this does not get pithy or hollow; the skin is crimson, flesh is white, tender, crisp and sweet flavored.
- R43 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.25.
- EARLY SCARLET GLOBE WHITE TIP. Best and quickest of the white tips; fine quality.
- R44 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.
- EARLIEST CARMINE TURNIP. The best and quickest all red turnip-shaped radish, matures in about 21 days.
- R6 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.25.
- EARLIEST WHITE TURNIP. Good for forcing or open ground, tops are short and tap root thin.
- R13 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.75.
- EARLIEST WHITE OLIVE. Earliest of all radishes—matures in fifteen to eighteen days after sowing. This sort is pure white, oblong shape with small tops—can be planted close; a very tender radish.
- R52 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.40.

VAUGHAN'S "SPARKLER" STRAIN



SCARLET TURNIP, WHITE TIP

LONG AND OTHER SORTS

Early Long Scarlet Short Top

A long, straight, smooth, red radish; it grows partly above ground; it develops long roots, tender, crisp and sweet.

- R23 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.
- WOOD'S EARLY FRAME (F). An early forcing variety of long scarlet; has short top, especially selected for growing under glass.
- R24 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 85c.
- HALF LONG DEEP SCARLET (F). This is good for forcing, it is brittle and mild. It is much grown in the south for early shipment.
- R22 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.
- BRIGHTEST LONG SCARLET. This is a home garden favorite; it combines beauty and fine quality; the body is brightest scarlet color, which blends downward to a long tip of pure white. Usually ready for the table in 25 days from planting.
- R-9 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.
- CININNATI MARKET. A long red radish, white tip, short top. If your market uses a long sort try this one.
- R51 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

SUMMER RADISHES

Grow larger than early radishes and remain in good condition longer.

- All of the following: Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.
- R54 IMPROVED CHARTIER. Somewhat resembling brightest scarlet. It is double the size and later; long scarlet tipped with white.
- R35 LONG WHITE VIENNA. Snow white, very brittle and crisp.
- R28 WHITE STUTTGART. A turnip shaped, large white radish.

WINTER RADISHES

Do not sow these until the latter part of June.

- R11 THE MUNICH. Grows from 6 to 8 inches in length; broad at the shoulder, white thin skin; mild and delicious. Very short crop. Pkt., 10c; oz., 30c.
- Each of the following: Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.25.
- R39 CALIFORNIA MAMMOTH WINTER. Long, very large size.
- R40 ROSE OR SCARLET CHINA. Rose, medium size, fine keeper.
- R37 CHINESE MAMMOTH OR CELESTIAL. Immense size, flesh always crisp and mild.
- R42 BLACK SPANISH, LONG. Black skin and white flesh.
- R41 BLACK SPANISH, ROUND. Like long black, only round.
- R53 HALF LONG BLACK WINTER. Fine sort.
- R46 LONG WHITE SPANISH. Like long black, except color.
- SAKURAJIMA. A Japanese radish of immense size. In shape it is oval with cream colored skin and pure white flesh. The roots are cooked like turnips, but have no strong taste. Sow in May.
- R2 Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

ICICLE The Finest White Radish

An ideal white radish—long slender root which remains crisp and mild until grown large. It matures early with short top, which permits close planting and forcing. Many of our customers say it is the finest radish they have ever grown. Plant every 10 days for succession.

- R49 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

Order By
Catalog
Numbers



ICICLE RADISH



ORIGINAL HUBBARD SQUASH

SQUASH

SQUASHES require a warm, light, rich soil, deeply worked and well manured; plant when the weather is settled; in hills manured as for Cucumbers or Melons, three to four feet apart for the bush sorts, and six to nine feet for the running sorts. Sow plenty of seed and when the vines are a foot or so long thin out to three or four in a hill. Use Slug Shot when the striped bug appears. The small summer Squashes will be found excellent for table use and should be used while the skin is tender and still easily pierced.

Vaughan's Giant Summer Crookneck

Our strain of this popular squash produces fruit nearly double the size of the old standard "Crookneck." The plants are healthy, bushy and compact; they produce in quantity fruit that is heavily warted and true to type. The flesh is a rich golden yellow, the quality and flavor of which is the very best.

S801 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.60.

The Delicious

A squash of exceptional merit for table use. A fall and winter variety, but is fine in all seasons, though its best quality is not attained until winter. The fruit varies in shape and size, weight ranging from 5 to 10 pounds each. The rind is very thin, uniformly green, and the flesh is very thick and dark orange color.

S817 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

Vaughan's Chicago Warted Hubbard

Fruits are of large size, rough skin, dark green in color. Vines are of strong robust growth. Flesh is bright orange, fine grained, rich and dry.

S820 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

Original Hubbard Squash

Not as large as Chicago Warted Hubbard, but in shape and quality it is similar. The fruit has dark green skin, and often weighs as much as twenty pounds.

S812 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

MAMMOTH WHITE BUSH. Is an improved selection of the old "Early White Bush," the highly favored early summer squash. The newer sort is much larger and deeper, has fewer scallops, which saves waste, and is a heavier producer. Our strain is very select.

S800 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.60.

MAMMOTH YELLOW BUSH. Like Mammoth White Bush. The fruit runs a little larger and has a fine pale-yellow skin, creamy white flesh.

S806 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.60.

GIANT WHITE SUMMER CROOKNECK. A large selection of the old "Summer Crookneck"; the skin is ivory white. The flesh is tender and of good flavor.

S826 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.60.

FORDHOOK—Early. Ripens early and is one of the best keepers. Can be kept through the winter until June. Is very prolific and nearly bug and borer proof.

S810 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

YELLOW SUMMER CROOKNECK. The old standard variety, very prolific, but smaller than "Giant Summer," a fine squash.

S808 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.60.

GOLDEN HUBBARD. Fruits are of the same shape as Green Hubbard, and warted, but average one-half to one-third smaller in size. They are earlier in season but keep in fine condition through the winter. The skin is deep orange yellow and very attractive. Flesh is deep golden yellow, fine grained and delicious.

S825 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

Vegetable Marrow

This is a most important vegetable in the English market, but little known in this country. The fruit is generally eaten when less than half grown, as the flesh is then very tender and marrowy. Our packages contain cultural directions and recipes for cooking.

S816 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

BOSTON MARROW. Very popular for fall and winter; thin rind, orange color, yellow flesh, fine for pies, good keeper.

S815 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.35.

DELICATA. Orange yellow, mottled with spots and stripes of dark green. Flesh, rich and solid, fine keeper and producer. Extra early.

S821 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

GARDEN SORREL

Is boiled and served like Spinach, also delicious for soups. As the hot sun tends to increase its acidity, a Northern exposure is advisable.

S500 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.60.

SPINACH

SPINACH is very hardy and should be sown as early as possible in the spring, and sowings repeated at intervals of about three weeks until June. In September and October, sow again as it can be used after frost. If the weather permits, a sowing may be made in November and the young plants protected with litter until spring, when they will furnish an extra early crop.

Vaughan's Giant Fillbasket

The very largest Early Spinach, the result of careful re-selection. In Europe it holds first place in public favor. Our customers here have had great success with it and are planting it more extensively each year. Its broad, thick, dark green leaves are very crisp and tender and of delicately delicious flavor.

S710 Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 60c.

Bloomsdale or Norfolk Savoy-Leaved

Is a very hardy sort; the leaves are very thick and blistered. It is a good standard size.

S704 Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

Vaughan's Triumph Spinach

Withstands hot weather longer than other sorts; it thereby increases the length of the season a month. It does not wilt or run to seed so quickly. Its habit of growth is prostrate, rather than upright; the leaves are thick warted, and fine and tender when cooked.

S708 Pkt., 10c; oz., 15c; ¼ lb., 25c; lb., 60c.

S701 EXTRA LARGE ROUND LEAF. Large crumpled leaves. This is one of the best for early use, and if sown again in August is hardy enough for late autumn use.

S702 PRICKLY-SEEDED. Very hardy; sow in fall; for late use.

S703 LONG STANDING. Of compact growth with thick deep-green leaves. Slow to seed.

S706 MONSTROUS-LEAVED VIROFLAY. Quick, strong growth. N. Y. favorite.

Price of the above. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c.

VICTORIA SPINACH. It is of true Savoy type, dense foliage, broad, dark green leaves of best quality; a great heat resister.

S707 Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c.

NEW ZEALAND SPINACH (Tetragonia Expansa)

While this is not a member of the Spinach family proper, it may well be classed as such, since it furnishes an abundance of delightful "greens" throughout the summer and right up to cold weather. Both the leaves and the stalks of the plant are very fleshy and extremely brittle and of the finest quality when cooked.

Do not sow seed until May 1st or when the soil is fairly warm, as it is susceptible to cold and will not germinate in cold soil. Plant in rows 3 feet apart and thin the plants to stand 2 feet apart in the rows. Soak the seed before sowing.

S705 Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., \$1.25

VAUGHAN'S SWISS CHARD

THIS is a beet that produces leaf growth only, and is used as greens.

Sow early in good soil, in drills sixteen inches apart, and thin to six inches in the row. Give good cultivation and cut as much as you please. It grows well above the ground, bears smooth, tender leaves that are easily prepared and of excellent flavor. Give it high cultivation to develop a large midrib, which is cooked separately and served with cream sauce. Our packages contain recipes for cooking.

B430 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., \$1.00.

LUCULLUS SWISS CHARD. A new Moss Curled sort. Very large leaves. The midribs are very broad and form a good substitute for asparagus during the summer months.

B431 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

LYON SWISS CHARD. A new variety, selected especially for its broad midribs and stems.

B432 Pkt., 10c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

SALSIFY (Vegetable Oyster)

MAKE the soil deep and mellow and sow as early as possible in drills fifteen inches apart and an inch deep. Thin to six inches in the row and keep free from weeds. Cultivate and store like carrots; some may be left in the ground until spring. Like parsnips salsify is improved by a touch of frost.

Mammoth Sandwich Island

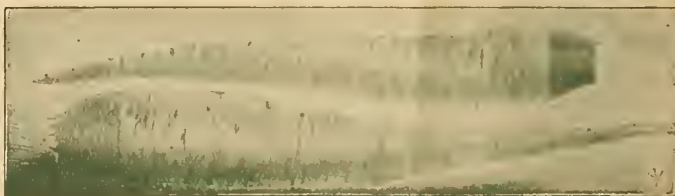
This variety is much more uniform in growth than the old standard "Long White" Variety; it is twice the size and weight; the roots are of superior quality and most delicate flavor.

S201 Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

Scorzonera, or Black Salsify

Considered by many better than white salsify. Somewhat harder to raise, although cultivated in the same way.

S202 Pkt., 10c; oz., 30c; ¼ lb., 90c.



SALSIFY, MAMMOTH SANDWICH ISLAND

TOMATOES

They Like Clay and Sandy Soil

THE Tomato is one of the easiest of vegetables to grow. It does not object to clay or sand, but for early fruits the soil must not be too rich. The plants must be started early, in hotbed or in a shallow box in the house; the young plants should have plenty of air and be transplanted or thinned to three or four inches apart. It is not safe to set out in the garden until the nights are fairly warm and oak trees are in leaf.

Should the plants have grown too tall, bend them down horizontally and cover to within a few inches of the tip, with about three inches of soil. If the plants are to be grown to a single stem, stakes should be set with the plants and the plants trained to them from the first. Some prefer this method and others like the support of frames better, but one or the other should be provided. The plants should stand about three by four feet apart and be cultivated and hilled up like corn.

Vaughan's Select Earliana

Vaughan's Earliana is the earliest large, smooth bright red tomato. In season it ripens with the earliest, and our strain shows few, if any, of the rough fruits found in large numbers in other early sorts, and among many strains of Earliana. This variety is compact in growth, with stout jointed branches; the vines yield well and the fruit is solid and of fine quality.

T212 Pkt., 10c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.30; lb., \$4.25.

JOHN BAER (See illustration on back cover)

A remarkable new variety of the extra early red or scarlet type. Not quite so early as Earliana, though there are only a few days' difference, and John Baer yields a much heavier crop of larger, more uniform and more attractive fruits. It is more profitable to grow.

T202 Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., \$1.35; lb., \$4.50.

Dwarf Stone

This is the largest Dwarf tomato; it resembles "Dwarf Champion" but is of stronger growth and more erect. The fruit is red, and specimens weighing ¾ pound are not uncommon. Almost as early as "Dwarf Champion." Amateurs like it because of its dwarf habit and robust growth.

T207 Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., \$1.40; lb., \$4.75.

New Globe Tomato

This new Globe or Ball Shaped tomato is ideal for the home garden; it is excellent for slicing. The rich, juicy, tomato flavor gives a certain zest and joy in the eating. The vines ripen the first fruits with the second earlies. They yield a heavy crop and continue to bear until frost. The skin is a smooth, glossy red; the flesh is firm and it has few seeds.

T208 Pkt., 10c; ½ oz., 25c; oz., 40c; ¼ lb., \$1.25; lb., \$4.00.

Ponderosa—The Giant Tomato

Of the large fruited varieties, this one is a gem. The vines are strong in growth, and when planted in good soil and pruned to a single stem, the fruit reaches 1 pound in weight. Tomatoes grow in beautiful clusters. The fruit is mostly oblong in shape, usually ribbed, is deep purple color, has solid flesh of sweet flavor, and small seed cells.

T218 Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.60; lb., \$5.50.

Improved New Stone—"King of the Reds"

The very best of the main crop varieties. For yield, size and appearance, we have seen no finer strain than ours. The smooth skin, small core, fine-grained flesh with little acidity, delight the eater and give satisfaction to the grower. Cannermen plant it for their main crop and market-gardeners find it their most profitable sort.

T211 Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.

EARLIANA
BEST RED
EXTRA
EARLY



Other Good Varieties

MATCHLESS. Large, bright red, long keeping tomato. The solid fruit is produced on strong, vigorous, prolific vines. Very distinct.

T234 Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.15; lb., \$4.00.

BONNY BEST. Regarded as a shade later than John Baer. Smooth, large and uniform fruit; yields well until frost.

T224 Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., \$1.35; lb., \$4.50.

CHALK'S EARLY JEWEL. The original large smooth extra early red, much planted by canners in the Northern States—many still prefer this to Bonny Best.

T200 Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., \$1.35; lb., \$4.50.

JUNE PINK. This is the earliest of the pink varieties, and is similar in habit to the famous Earliana.

T226 Pkt., 10c; ½ oz., 30c; oz., 45c; ¼ lb., \$1.40; lb., \$4.75.

ACME—Early (Purple). Very valuable for market gardeners who ship or have a home market, and also for amateurs. The vine is large and very prolific, bearing fruit in clusters of four or five, early and continuously until frost.

T236 Pkt., 10c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.

EARLY DETROIT (Purple). The equal of any second Early Purple Tomato. Bears uniform, large, handsome, smooth fruit through the long season, yielding in the aggregate more marketable tomatoes than the popular Beauty, which variety it most closely resembles. The fruit is firm and almost globe-shaped.

T206 Pkt., 10c; oz., 45c; ¼ lb., \$1.40; lb., \$4.75.

BEAUTY (Purple). Is the most popular of the large purple sorts. Vines large, vigorous and heavy bearers, fruit large, uniform, very smooth purplish pink skin; flesh light pink.

T230 Pkt., 10c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.

HUMMER—Early (Red). Globe-shaped, medium size, smooth, prepared for table without waste. Scarlet, free from cracks. Has heavy foliage and should be grown on trellises.

T241 Pkt., 10c; ½ oz., 20c; oz., 35c; ¼ lb., \$1.00.

VAUGHAN'S MODEL TOMATO. A handsome dwarf tree variety, potato leaf; foliage, large, broad, dark green, heavily clustered. The fruit is smooth and of best quality—the color a brilliant scarlet.

T222 Pkt., 10c; oz., 40c; ¼ lb., \$1.25; lb., \$4.00.

ENORMOUS. Very large, beautifully smooth, solid flesh, few seeds, rather oval shape, mid-season, ripens all through at once.

T254 Pkt., 10c; ½ oz., 30c; oz., 50c; ¼ lb., \$1.50.

CRIMSON CUSHION or Beefsteak. Is very large, round and regular; bright scarlet skin, solid flesh of best quality, seed cells small. Plants are very prolific, fine appearance.

T253 Pkt., 10c; ½ oz., 30c; oz., 55c; ¼ lb., \$1.60.

DWARF ARISTOCRAT. This is a scarlet Dwarf Champion. The size, shape, form and color are nearly perfect for home use. It will be found good under glass and for early market out of doors. It may be planted 3x3 feet or closer, making it ideal in home gardens.

T242 Pkt., 10c; oz., 45c; ¼ lb., \$1.35; lb., \$4.50.

DWARF CHAMPION. A good sort for the home garden. Owing to its dwarf habit and upright tree-like growth it is a great favorite. It is of medium size, very smooth, purplish pink, symmetrical, flesh very solid. The vine is strong and stiff, requiring little support.

T229 Pkt., 10c; ½ oz., 25c; oz., 45c; ¼ lb., \$1.40; lb., \$4.75.

GOLDEN PONDEROSA—A Yellow Gem. This is a yellow Ponderosa equal in size to that magnificent variety. Sliced and served with the Purple Ponderosa, it makes a highly decorative and appetizing salad. Runs nearly true to type with a small percentage of mixed fruits.

T210 Pkt., 10c; ½ oz., 35c; oz., 60c; ¼ lb., \$1.75; lb., \$6.50.

Forcing Tomatoes

SUNRISE. Rich scarlet, medium size, solid, delicate flesh. Very prolific.

T247 Pkt., 15c; ½ oz., 35c.

COMET. Scarlet. Fruit medium, the heaviest yielder of greenhouse sorts.

T219 Pkt., 15c; ½ oz., 30c.

Small Fruited Tomatoes for Pickles and Preserves

T216 Red Peach

T217 Yellow Peach

T249 Red Plum

T240 Yellow Plum

T251 Red Pear

T238 Yellow Pear

Pkt., 10c; ½ oz., 35c; oz., 60c; ¼ lb., \$1.75.

HUSK or Strawberry. The small yellow fruit is enclosed in a husk. It is very sweet, prized for eating, preserving and making pies.

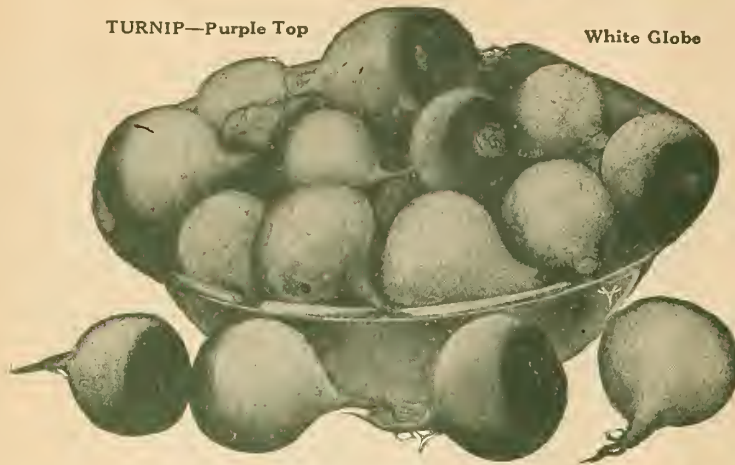
T237 Pkt., 10c; ½ oz., 35c; oz., 60c; ¼ lb., \$1.75.

DWARF
STONE



TURNIP—Purple Top

White Globe



TURNIPS

SOW about the first of August in rich, finely worked soil, and in drills fifteen inches apart and one-half inch deep; thin according to variety and keep clear of weeds, allowing the Turnips plenty of room.

Rutabagas or Swedes require a longer season than Turnips do. For table use, they usually keep better and are slightly better flavored than the Turnip. They are also an excellent crop to raise for cattle feeding; yields are heavy and the feeding value high. Sow about July 1st, in drills two to three feet apart and thin to eight inches apart. When ready and before heavy frosts, pull them, cut off the tops and store carefully.

Purple Top White Globe

Originated from "Purple Top Flat Turnip." The flesh is firm, fine grained, sweet and rich flavored; it is of good size, globe shaped, fine appearance, a good producer and fine keeper.

T408 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c; 5 lbs., \$3.75.

Early White Milan

The earliest turnip, can be used Spring or Fall. The skin is smooth, snowy white, has a polished appearance; medium size, white, tender, sweet.

T409 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

Purple Top Strap-Leaved

A table variety, fine, tender and deliciously flavored. It is a week later than "White Milan." It is broad shaped, medium size, white flesh, fine grained, splendid quality. Top is dark red or purple, elsewhere white, has few leaves, upright in growth, fine keeper.

T402 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c; 5 lbs., \$3.65.

YELLOW ABERDEEN. Large globe-shaped table and stock variety.

T406 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

EXTRA EARLY PURPLE TOP MILAN. An excellent medium size turnip, almost as early as White Milan, smooth white surface, purple top, flat shape, white flesh.

T400 Pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.75.

WHITE FLAT DUTCH. A very fine turnip when not overgrown, but spongy and inferior if over matured. It is an early garden variety, popular in the Southern states.

T411 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

EARLY SNOWBALL. Small, white, grows quickly, splendid table quality.

T415 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

SEVEN TOP. A variety much grown in the South for the tops, which are used as greens.

T417 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

LARGE YELLOW, or AMBER GLOBE. Fine quality and sweet.
T413 Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

COW HORN or LONG WHITE. Grows nearly half way out of the ground, carrot shape, usually slightly bent; pure white.
T405 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

WHITE EGG. Quick growing, egg shaped, perfectly smooth, pure white variety, grows half way out of ground with small tops and rough leaves; never has rank, strong taste, but the sweet firm flesh is always mild, rich and fine flavored.

T403 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

GOLDEN BALL or ORANGE JELLY. Medium size, globular table turnip. Season early. Flesh yellow, sweet.

T407 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

Rutabagas

VAUGHAN'S IMPROVED AMERICAN PURPLE TOP is from stock of a purple top; largest size, best shaped variety, small neck, smooth skin; good cropper and keeper. Excellent table quality.

T422 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c; 5 lbs., \$3.75.

T420 LAING'S GARDEN RUTABAGA. Short top, well shaped, medium root. Purple skin, yellow flesh. A splendid winter keeper, delicious after first few November frosts.

T424 WHITE SWEDE. White, solid.

T404 SWEET GERMAN. A fine table sort, white flesh, excellent keeper.

Price above 3, Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c.

MONARCH. A stock crop for early feeding, oblong shape, yellow flesh, fine grain, fine flavor, superior in quality and weight. Produces 5 to 7 tons per acre more than any other Swede.

T425 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

SUTTON'S CHAMPION. Round, big yielding, yellow flesh.

T426 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

CARTER'S IMPERIAL.

T421 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

SKIRVING'S. Large yellow.

T423 Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 90c.

BREADSTONE. Medium size, white roots.

T427 Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 90c.

BANGHOLM DANISH. Yellow flesh, purple top with small neck. Danish pedigree seed.

T419 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

MANGELS OR STOCK BEETS

Barres Sludstrup

This Mangel has been awarded the first-class certificate several times by the Danish Government. Sludstrup is a long, reddish-yellow, ovoid root, growing more than half above ground. Easily harvested, and far excels any other variety in weight and in the feeding value of the yield. Our seed is from the best Danish growers.

B454 Oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$2.75.

VAUGHAN'S MAMMOTH LONG RED. Largest and heaviest cropper of long red sorts; yields up to 40 tons per acre on well prepared land.

B450 Oz., 10c; ¼ lb., 20c; lb., 60c; 5 lbs., \$2.50.

GOLDEN TANKARD. Smooth, yellow flesh, small yellow-stemmed top, length 11 inches, diameter 4 inches, shape cylindrical. Very nutritious.

B451 Oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$2.75.

CHAMPION YELLOW GLOBE. Skin a rich yellow, flesh white and solid; grows two-thirds above ground hence the best for shallow soils. Good keeper.

B455 Oz., 10c; ¼ lb., 20c; lb., 60c; 5 lbs., \$2.75.

GIANT YELLOW ECKENDORF. One of the most popular European varieties. The great yellow roots, cylindrical in form, weigh 15 to 20 pounds each.

B452 Oz., 10c; ¼ lb., 25c; lb., 75c; 5 lbs., \$2.75.

GIANT ROSE HALF SUGAR. Combines best qualities of Sugar Beets and Mangels.

B456 Oz., 10c; ¼ lb., 20c; lb., 60c; 5 lbs., \$2.50.

Sugar Beets for Stock and Carrots for Stock Listed on Page 6.

Please Order by Catalogue Numbers

VAUGHAN'S SEED AND PLANTS OF HERBS.—Varieties preceded by * are perennials.

ANISE. Used for garnishing, seasoning and for cordials.

H100 Pkt., 10c; oz., 35c.

*BALM. Used for making Balm wine and tea.

H102 Pkt., 10c; oz., 35c.

BASIL, Sweet. The leaves are used for flavoring soups, stews and highly seasoned dishes.

H124 Pkt., 5c; oz., 25c.

BORAGE. Flowers excellent for bees. Leaves used in salads. The flower spikes can be used in cooling drinks.

H104 Pkt., 10c; oz., 20c.

CARAWAY. Seeds are used for flavoring.

H105 Pkt., 10c; oz., 15c.

CATNIP OR CATMINT. Grown for bees, also for seasoning.

H107 Pkt., 10c; oz., 60c.

CHAMOMILE (MATRICARIA CHAMOMILE). The dried flowers possess medicinal qualities. Prescribed as an emetic and vermifuge.

H134 Pkt., 10c; ½ oz., 35c.

*CHIVES SEED. Used for seasoning.

C800 Pkt., 15c; ½ oz., 60c; oz., \$1.00.

DILL. Leaves are used in pickles and for flavoring soups and sauces.

H109 Pkt., 10c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

*FENNEL, Sweet. The leaves boiled are used in fish sauces and are beautiful for garnishing. The seeds are used for flavoring.

H111 Pkt., 10c; oz., 20c.

FENNEL, Florence. An excellent legume with agreeable aromatic flavor, sweet taste and a delicate odor. Very distinct from Sweet Fennel. Height of plant, 2 ft.

H129 Pkt., 10c; oz., 15c; ¼ lb., 50c.

*HOREHOUND. The leaves are used for flavoring and also in the manufacture of cough remedies.

H114 Pkt., 10c; oz., 40c.

HYSSOP. The tops and flowers are used for Hyssop tea.

H115 Pkt., 10c; oz., 25c.

*LAVENDER. The leaves are sometimes used for seasoning, but the plant is chiefly grown for its flowers, which are used in making perfumes. Two kinds.

Lavender (Lavandula vera). True Lavender.

H116 Pkt., 10c; oz., 60c.

Lavender (Lavandula spica). Not quite so strong as above.

H117 Pkt., 10c; oz., 30c; ¼ lb., \$1.00.

MARJORAM (Sweet). The leaves and the end of the shoots are used for flavoring in summer and they are also dried for winter use.

H125 Pkt., 10c; oz., 60c.

*MINT. For mint sauce and juleps. Field roots, 3 for 65c; \$2.50 doz. by express.

PENNYROYAL. Leaves are used for seasoning. It also has medicinal properties.

H118 Pkt., 10c; ½ oz., 40c.

PIMPINELLA (Burnet). The young leaves are used as salad; their flavor resembles cucumbers.

H130 Pkt., 10c; oz., 25c.

ROSEMARY. The leaves are used for seasoning.

H119 Pkt., 10c; ½ oz., 35c.

*RUE. For medical purposes; good for roup in fowls.

H120 Pkt., 10c; oz., 60c.

SAFFRON. Used for coloring and for flavoring.

H121 Pkt., 10c; oz., 25c.

SAGE (Holt's Mammoth). The plants are of strong growth, attain a height of 1 ft. the first season and spread so that a single plant covers a space 3 ft. in diameter; are perfectly hardy and

make a still larger growth the second season.

Plants, 3 for 65c, prepaid; doz., \$2.50, by express.

SAGE SEED. Leaves and tops are used for seasoning and stuffing.

H122 Pkt., 10c; ½ oz., 40c; oz., 75c.

SUMMER SAVORY. The leaves and young shoots are used for flavoring, especially for boiled string beans. H123 Pkt., 10c; oz., 30c.

TAGETES LUCIDA. Possesses in its green parts almost exactly the true Tarragon flavor of easiest culture.

H133 Pkt., 10c; ½ oz., 20c; oz., 35c.

*TARRAGON. (Artemisia Dracunculus.) The leaves, dried or fresh, are steeped in ordinary vinegar. Plants only.

3 for 85c, prepaid; doz., \$3.00, by express.

THYME. Used for seasoning; a tea is also made for nervous headache.

H128 Pkt., 10c; ½ oz., 40c; oz., 70c.

*WORMWOOD. Beneficial for poultry; plant in your poultry yard.

H127 Pkt., 10c; oz., 25c.

VAUGHAN'S "Central Park" LAWN SEED



For nearly half a century Vaughan's standard mixtures of Grass Seeds for Lawns, Golf Links, etc., under many conditions of soil, sun or shade, have given general satisfaction. Our processes of cleaning, re-cleaning and testing for germination, not less than the care taken in selecting the finest the seasons and

markets afford, have yielded a degree of uniformity in growth and quality, impossible of attainment with less complete facilities and less knowledge of sources and methods. Based on more than forty-two years of experience, Vaughan's Lawn Mixtures are most carefully and skillfully prepared.

VAUGHAN'S "CENTRAL PARK"

Vaughan's "Central Park" Lawn Seed is familiarly known everywhere in the United States where lawns are made. It produces a beautiful and enduring turf without the aid of cheap "quick-showing" grasses, which are only of temporary value.

After many years' trials we have a balanced mixture of American and such European grasses as do best in our climates. We select the finest grades of evident purity and germination.

For more than 40 years it has been standard in America, each year adding to its popularity and increasing sales.

In the great parks and cemeteries, where best results must be had in order to produce beautiful and enduring turf, Vaughan's "Central Park" is used almost exclusively.

Many of the beautiful lawns on the large private estates in New England, Long Island, New Jersey and throughout the middle west, rivaling the famous English lawns, were produced with Vaughan's "Central Park" Lawn Seed.

Vaughan's "Central Park" lawn grass seed is thoroughly cleaned, then re-cleaned. This applies to all the separate kinds of seed contained in the mixture, besides which each lot is tested for germination, in the most painstaking and careful manner.

Price, 1/2 lb., 20c; 1 lb., 40c; 3 lbs., \$1.15; 5 lbs., \$1.90; 10 lbs., \$3.70; 15 lbs., \$5.50; 20 lbs., \$7.25; 25 lbs., \$9.00; 50 lbs., \$17.75; 100 lbs., \$35.00. Postage 8c per lb. extra. Write for special prices on large quantities.

VAUGHAN'S "COLUMBIAN"

For Shady Lawns or Sandy Soil

On sandy soil in shade, conditions are met with when making a lawn which require the use of a special grass seed mixture.

To provide sure and beautiful lawn grass under such conditions, Vaughan's "Columbian" has been prepared with exceptional care.

Vaughan's "Columbian" is an excellent mixture for the uses stated above; its record in public parks, exhibitions and private grounds everywhere in the United States justifies its use by every one who needs lawn seed for a shady place or for light, sandy soil.

Price, lb., 40c; 5 lbs., \$1.90; 10 lbs., \$3.70; 15 lbs., \$5.50; 20 lbs., \$7.25; 25 lbs., \$9.00; 50 lbs., \$17.75; 100 lbs., \$35.00. Write for special prices on large quantities.

VAUGHAN'S DENSE SHADE MIXTURE

Composed of grasses most suited for growing in heavily shaded situations. Price, Per lb., 60c; 5 lbs., \$2.90; per bu. of 20 lbs., \$11.00

Vaughan's Lawn Restoring Grass Mixture

Takes hold and grows quickly on wornout or burned spots. Sow in very early Spring, or late Summer and Fall (end of August to middle of October); also before every Summer rain, on thin places. Price, per quart, 40c; per bushel of 24 lbs., \$8.75.

VAUGHAN'S "QUICK SHOW" GRASS MIXTURE

Has not the permanency of color of our "Central Park," but makes a respectable showing the first season. Sow 100 lbs. to acre. Price, per lb., 25c; 5 lbs., \$1.10; 100 lbs., \$20.00.

Kentucky Blue Grass We offer in two grades—Extra Fancy Seed. sun-dried, twice re-cleaned. Of very high germination. 1 lb., 50c; 5 lbs., \$2.35; 10 lbs., \$4.50; 100 lbs., \$42.00. Fancy Seed—Actual weight 21 lbs., per bushel. 1 lb., 40c; 5 lbs., \$1.90; 10 lbs., \$3.75; 100 lbs., \$35.00.

Red Top Grass Fancy re-cleaned. Solid seed, 32 lbs. to bushel. 1 lb., 30c; 10 lbs., \$2.35; 100 lbs., \$20.00. Common Unhulled Bushel 14 lbs. 1 lb., 18c; 10 lbs., \$1.50; 100 lbs., \$12.00.

White Clover Extra fancy seed. 1 lb., 75c; 3 lbs., \$2.15; 10 lbs., \$6.50. Add 8 cents per pound to above prices if wanted by mail.

VAUGHAN'S LAWN FERTILIZER

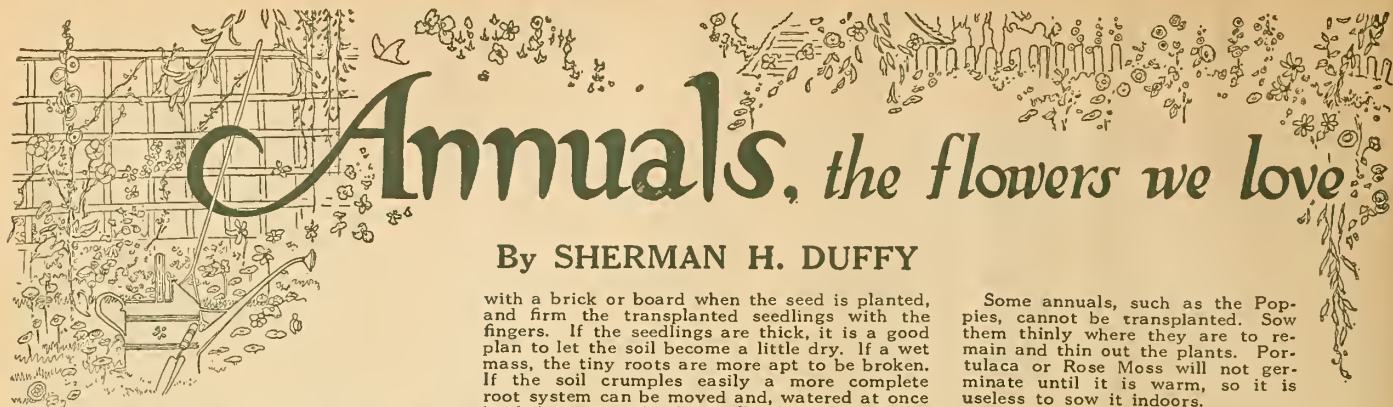
The high-grade chemical fertilizer sold by Vaughan's Seed Store is immeasurably superior to the best rotted manure. It supplies the essential plant food, which grass, being a voracious feeder, requires to produce the velvety texture and beautiful color, so attractive and inviting to the eye. Manure has undoubtedly the soil enriching quality, but it is unsightly, with offensive odor and worse still usually contains live dangerous weed seeds.

DIRECTIONS: As a top-dressing make first application in early Spring, when frost is out of the ground, distribute evenly 25 lbs. fertilizer to every 1,000 square feet of lawn. An equal quantity of sandy loam or good garden soil added to the fertilizer will make distribution easier and will serve to prevent burning. In seeding down new lawn, scatter double the amount, 50 lbs. of fertilizer on every 1,000 square feet; rake in thoroughly, then sow seed.

Price, 5 lbs. 60c; 10 lbs. \$1.00; 25 lbs. \$2.00; 50 lbs. \$3.50; 100 lbs. \$6.00; 500 lbs. \$25.00; 1,000 lbs. \$48.00; 2,000 lbs. \$93.00.

QUANTITIES OF SEED TO USE FOR NEW LAWNS		
1 lb. for 300 square ft.	25 lbs. for one-fourth acre.	
5 lbs. for 1,500 square ft.	50 lbs. for one-half acre.	
10 lbs. for 3,500 square ft.	100 lbs. for one acre.	
15 lbs. for 4,250 square ft.		

For Old Lawns, use half above quantities to get ideal results. Sow early before withering summer heat comes on. Cultural leaflet—"How To Make a Lawn" FREE. Send for it.



Annuals, the flowers we love

By SHERMAN H. DUFFY

FROM the time of our great grand parents, indeed from the earliest gardens of which we have records, annual flowers—so called because their cycle of life is of one season—have been the most popular, in some ways the most beautiful, and the most generally satisfactory.

In these days of transient residence, of merely year long leaseholds, no one need be without a garden, even if he moves every Mayday, for the annuals are ready to decorate whatever place he may select for a home.

Old-fashioned annuals, which for years had led a neglected existence in odd garden corners, are now proud inhabitants of the greenhouse, the Pot Marigold and Snapdragon vying with rose and carnation under glass for market sale and popularity.

Annuals furnish the best and cheapest flower garden. One may have a fine garden for a dollar, providing himself with color, tropical foliage effects and as many flowers as he wishes to cut for his home for that sum, plus a little loving care.

Flowers for rich soil, for poor soil, for wet soil, for dry soil, for every situation—flowers of every color, size and shape, large and small may be found among the annuals. A wonderful variety, and they may be had in bloom by midsummer with only a fair start.

Nursing the Baby Plants

SELECTING the seed is merely a question of picking out favorites. Then comes the sowing. Right here is where the first mistake is too often made, and there is frequently great waste. Many annuals may be sown in the house or hot bed as early as February to secure the best development and the greatest results or to get a longer season of bloom. March is the ideal month for an early start.

Prepare the soil carefully, pulverize it, sift it and see that it is good rich soil. Too often any old soil is dumped into a box, "just to get them started."

Sow the seed thinly. Too many plants are smothered by being planted as "thick as the hair on a dog." If the seeds are very fine and difficult to distribute, mix them with twice their bulk of fine sand and then strew them on the surface of the seed bed or box and merely press them into the soil. Sow in rows except for very fine seed and give at least half an inch of space between the rows.

Cover each seed three times its thickness. It is easier to plant too lightly than too deeply in ordinary seed sowing.

Give the seed box or bed ample drainage, and until the plants have taken firm hold and developed at least two pairs of true leaves following the tiny seed leaves, it is wise to water by dipping the box into another vessel and letting the water soak from the bottom up. Thousands of tiny plants are washed to their death by careless splashing of water.

Transplanting Seedlings

PREPARE the soil for the outdoor seed bed as carefully as for the box in the house or the hotbed. Cover or have a cover ready in case heavy rains threaten, so the tiny seedlings will not be beaten into the earth. Burlap, old sheeting, or even a paper-covered frame will serve this purpose and shade from too hot sun.

As soon as the seedlings have two pairs of true leaves is a good time to transplant the first time. Give them plenty of room to develop. Firm the soil

with a brick or board when the seed is planted, and firm the transplanted seedlings with the fingers. If the seedlings are thick, it is a good plan to let the soil become a little dry. If a wet mass, the tiny roots are more apt to be broken. If the soil crumples easily a more complete root system can be moved and, watered at once in their new earth, they will take hold quickly. This is particularly true of the larger plants, such as sweet peas, zinnias, or castor beans.

Study the needs of the plant, the seed packet always carries directions. Do not plant a shade-loving plant in hot sun or vice versa. Give them the proper distance apart when moved to permanent quarters. Thousands of asters are spoiled because they are set as close together as six inches when a foot should be the minimum and eighteen inches even better with the more vigorous varieties.

Use plenty of manure in the soil. Have it spaded in in the fall, if possible, and another dressing forked in in the spring. Give bone meal and commercial fertilizer from time to time if the best results are desired and give water in hot weather. It is better to take the nozzle off the hose and let the water soak in, than to sprinkle the tops.

Some annuals, such as the Poppies, cannot be transplanted. Sow them thinly where they are to remain and thin out the plants. Portulaca or Rose Moss will not germinate until it is warm, so it is useless to sow it indoors.

For Color Combinations

IN combining colors in beds and borders, much may be done to make annuals more effective. A combination of lavender and rose Mourning Brides is effective and the same colors in Annual Larkspurs, the lustrous carmine and some shades approaching lavender give a fine effect. The tall African Marigolds with a border of the velvet mahogany and orange dwarf French varieties makes a striking planting. Pink and lavender China Asters or a mingling of the dark purples and lavenders produce beautiful effects, particularly if relieved with a few white varieties.

Four O'Clocks are ideal for a low hedge along a walk. Balsams make a gorgeous hedge if pinched out and made to branch out when covered with their camellia flowers, many of which are spotted in beautiful manner. Castor Beans with a border of the stately Nicotiana Sylvestris furnish a beautiful tropical group. The unique spider flower, Cleome Pungens, is used with fine effect in the Chicago parks, planted in groups among shrubbery.

The best bright scarlet annual is the Salvia. The Zinnia is its closest rival in glowing color and also furnishes shades of burnt orange and peculiar yellows not found in any other annual. The colossal strain of Zinnias furnishes a gorgeous pageant of color from midsummer until hard frosts.

Heliotrope may be readily raised from seed as an annual for outdoor beds and with Ageratum is a favorite subject for mass planting and carpet beds. A border of Sweet Alyssum and Dwarf Ageratum is always beautiful and the shining blue Lobelias of the dwarf strain associated with Alyssum make a fine effect.

In general, the yellows, oranges and scarlets blend well and the paler yellows harmonize with the blues. Blues, lavenders and pinks make a combination which is never jarring.

Helping Out Perennials

PERENNIAL borders must be assisted with annuals to fill in blank spaces when the perennials have passed their season of bloom. Annuals may be made ready in boxes to be transplanted into tulip beds after the glory of the bulbs is departed. Asters are excellent subjects for this work.

Many of the annuals need successional planting to keep them in full beauty. The handsome Imperial Sweet Sultans, which of late have become such popular flowers for cutting, have a short season of bloom compared with other annuals and need a succession of plantings.

One general rule must be followed to secure a maximum bloom—keep withered flowers picked. The life of the annual is finished when it produces seed. By keeping the seed pods picked before they have an opportunity to fill out, the blooming season is often doubled. This is particularly true of pansies and sweet peas.

Do not stop cultivation when the annuals attain their growth. Keep them free of weeds, stir the soil occasionally, and give plenty of water with occasional fertilizer when the hot months come on and cause them to droop if they do not receive these kindly attentions.

It is care in these details that gives prize-winning blooms. One man may grow asters twice as large as another, due only to care and culture when it is most needed,



The Seed Box in a Window

Annuals For Cutting

1. Asters
2. Snapdragons
3. Marigolds
4. Bachelor Buttons
5. Annual Chrysanthemums
6. Annual Larkspurs
7. Cosmos
8. Gaillardias
9. Nasturtiums
10. Sweet Peas
11. Scabiosa Sultan
12. Zinnias

This list has been selected because of the long stems and keeping quality of the flowers. It is by no means complete, but merely suggestive.

Annuals For Showy Beds

1. Asters
2. Snapdragons
3. Ageratum
4. Pinks
5. Salvia
6. African Daisy
7. California Poppy
8. Shirley Poppies
9. Stocks
10. Pansies
11. Phlox
12. Zinnias

Annuals For Tall Groups

Three Feet or Over

1. Amaranthus
2. Giant Snapdragon
3. Cleome
4. Plumy Cockscomb
5. Cosmos
6. Annual Sunflowers
7. African Marigolds
8. Colossal Zinnia

Annuals For Edging

1. Sweet Alyssum
2. Dwarf Lobelia
3. Candytuft
4. Golden Feverfew
5. Dwarf French Marigolds
6. Portulaca
7. Phlox

Annuals For Fragrance

1. Sweet Alyssum
2. Ten Weeks Stocks
3. Nicotiana Affinis
4. Mignonette
5. Petunias
6. Verbena
7. Wallflower
8. Heliotrope
9. Sweet Peas

Annuals For Colored or Tropical Foliage

1. Castor Beans
2. Kochia
3. Snow-on-the-mountain
4. Nicotiana Sylvestris
5. Amaranthus
6. Zea Japanese Corn



Annuals

Key to Symbols

- Annuals. These attain full growth from seed, flower and die first year.
- # Biennials. These grow from seed the first year, bloom and die the next, though some varieties bloom the first year, if sown early.
- + Greenhouse Plants. Start inside and cultivate in pots, or else, transplant outside when danger of frost is over.
- + Stove Plants. To be grown inside all the year round for pots only.
- = Climbing Plants.

Ageratum □

ONE of the best summer blooming plants grown from seed. They are rapid growers, early and constant bloomers. During the hot dry summer months their bright flowers are produced in the greatest profusion.

- 114 Mexicanum Mixed. ¼ oz., 10c; pkt., 5c.
- 115 Nanum, Blue Perfection, 9 in. The darkest Ageratum grown from seed. Pkt., 10c.
- 117 Imperial Dwarf Blue, 6 in. A charming variety, of fine compact growth, covered with heads of feathery flowers of a deep lavender color. ⅓ oz., 15c; pkt., 5c.
- 118 Imperial Dwarf White. Pkt., 10c.
- 119 Little Blue Star. 4 to 5 in. Flowers open light blue with purple center and develop to a bright blue self. Pkt., 15c.



Antirrhinum (Snapdragon)

58 **ABRUS Precatorius** (Crab's Eye Vine or Weather Plant) ÷ = 12 ft. This beautiful plant has created a great sensation. If the leaves stand upward the sky will be cloudless; if they stand out straight, changeable weather is indicated; when the leaves hang straight downward, water may be expected to fall in torrents. A local storm is indicated by the curling together of the leaves. Bears clusters of bright yellow flowers, followed by pods with brilliant red seeds used for making beads, etc. Seeds should be soaked in luke-warm water before planting. Oz., 75c; pkt., 10c.

Alyssum □

- 159 **Benthani Maritimum** (Sweet Alyssum). This is one of the finest annuals we have for edging and is beloved by many on account of its modest blossoms. It is pleasantly fragrant. It begins to bloom early in the season, and continues until frost. Mix the seed with sand before sowing to prevent sowing too thickly. 1 lb., \$2.25; ¼ lb., 60c; 2 oz., 40c; 1 oz., 25c; ½ oz., 15c; pkt., 5c.
- 160 **Vaughan's Little Gem, Snow-white Carpet Plant.** The plants, which are only a few inches high, grow so dense and are so completely covered with snow-white blossoms, they create the impression of a beautiful snow-white carpet. Our strain of this is unquestionably the best in the world; one plant like another; absolutely perfect. 1 oz., 80c; ½ oz., 40c; ¼ oz., 25c; pkt., 10c.

Amaranthus □

BRILLIANTLY foliaged annuals, some of the varieties bearing curious racemes of flowers. All are useful in borders of tall plants, among shrubs, or for the centers of large beds. Do not grow them too closely together.

- 181 **Vaughan's Special Mixture.** A well balanced mixture of many varieties. ¼ oz., 25c; pkt., 10c.
- 201 **ANCHUSA Capensis** (Summer Forget-me-not). 1 ft. A beautiful border plant producing branched heads of flowers resembling large Forget-me-nots, deep sky-blue with white eye. If sown in April will be in bloom by July. Pkt., 10c.



Ageratum

Antirrhinum (Snapdragon) □

FOR gorgeous coloring, few flowers can match Snapdragons. The flowers of this new strain are of very large size, are very fragrant and are produced on immense long spikes, which render them extremely well adapted for cut-flowers. They are easily raised from seed in any rich sunny bed.

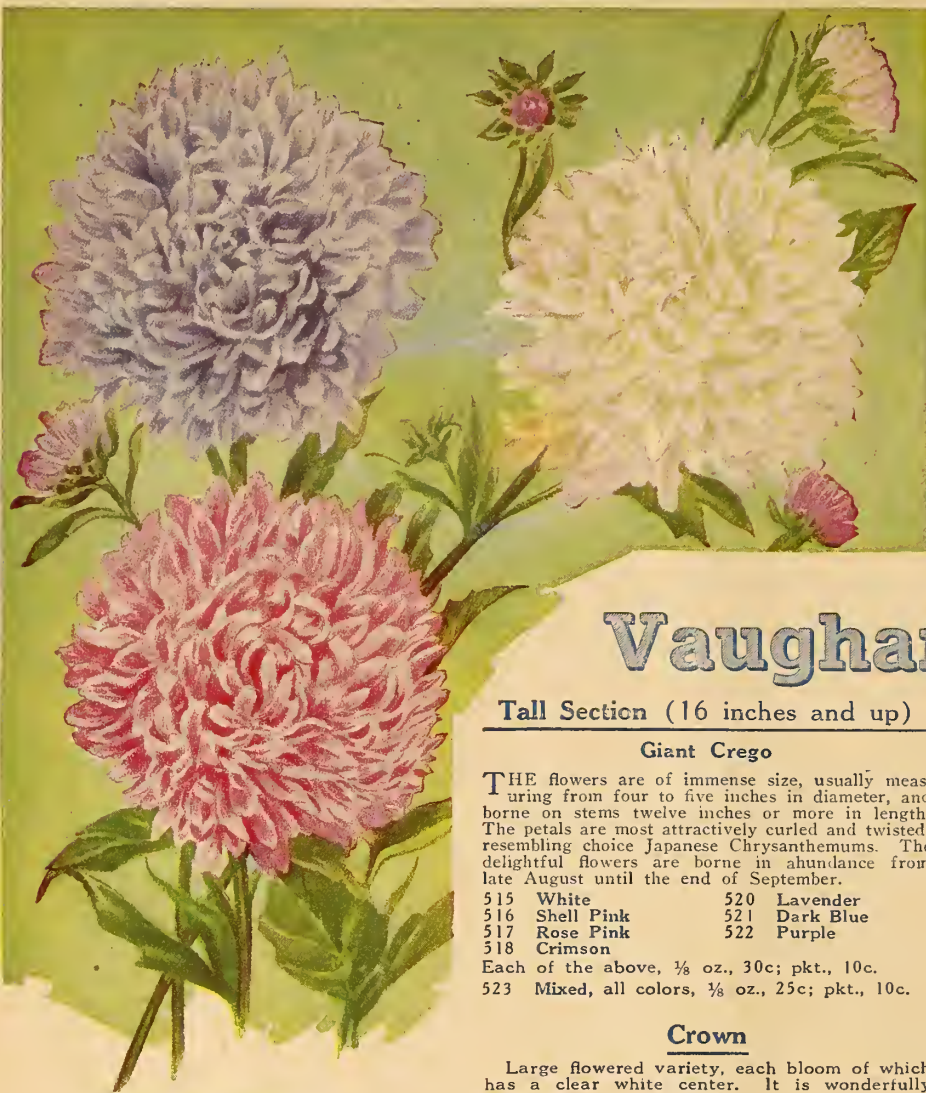
Tall Giant Flowering (24 to 36 inches)

- 241 **Queen Victoria.** White shaded cream with lemon-colored lip. shade on a white ground, with a white throat.
- 242 **Golden King.** Yellow. 247 **Coral Red.** Dark rose.
- 244 **Delicata.** Delicate rose with white throat. 248 **Delila.** Carmine and yellow with white throat.
- 245 **Rose Queen.** Brilliant rose pink. 249 **Brilliant Scarlet.**
- 246 **Apple Blossom.** A charming pink. 250 **Butterfly.** Striped.
- Any of above, pkt., 10c; any 3 for 25c; each, ⅓ oz., 25c.
- 254 **Majus Grandiflorum Mixed.** ¼ oz., 20c; pkt., 10c.
- 270 **Vaughan's Special Mixture of Snapdragons** includes all these and many other charming varieties and a packet will furnish you with a never ending color combination of long stemmed cut-flowers suitable for home, church or hospital decoration. 1 oz., \$1.25; ¼ oz., 40c; ⅓ oz., 25c; pkt., 15c.



Alyssum—Little Gem

The illustrations in color in this section are reproductions of water-color paintings by Charles H. Workman.



Vaughan's Giant Branching Asters

Dwarf Section (Up to 10 in.)

- 401 **Vaughan's Snowball.** The best dwarf white aster. The beautiful shape of the snow-white flowers and the free-flowering habit of the plants are unequalled in any other dwarf aster. $\frac{1}{8}$ oz., 40c; pkt., 15c.
- 402 **Vaughan's Fireball.** The most brilliant dwarf aster. It forms a neat, well-formed bush, covered with beautifully shaped flowers of the brightest scarlet; very effective for bedding and for pots. $\frac{1}{8}$ oz., 40c; pkt., 15c.

Semi-Tall Section (11 in. to 16 in.)

Daybreak (Improved American Victoria)

THE Daybreak class forms strong bushy plants of very even growth. The full round flowers grow on strong, stiff upright stems. Extremely valuable for hedging.

- | | |
|-------------------------|---------------|
| 410 Purity. Pure white. | 413 Rose. |
| 412 Salmon. | 414 B'ue. |
| | 415 Lavender. |
- Each of the above, $\frac{1}{8}$ oz., 30c; pkt., 10c.
- 416 Mixed, all colors, $\frac{1}{8}$ oz., 25c; pkt., 10c.

Queen of the Market

THE best early aster, usually in full bloom two weeks before most other sorts begin to blossom. Of graceful spreading habit.

- | | |
|-------------|----------------|
| 485 White | 489 Scarlet |
| 486 Flesh | 490 Light Blue |
| 487 Pink | 491 Lavender |
| 488 Crimson | 493 Dark Blue |
- Each of the above, $\frac{1}{4}$ oz., 30c; pkt., 10c.
- 494 Mixed, all colors, $\frac{1}{4}$ oz., 25c; pkt., 10c.



Vaughan's Giant Ostrich Feather Asters

Vaughan's Asters

Tall Section (16 inches and up)

Giant Crego

THE flowers are of immense size, usually measuring from four to five inches in diameter, and borne on stems twelve inches or more in length. The petals are most attractively curled and twisted, resembling choice Japanese Chrysanthemums. The delightful flowers are borne in abundance from late August until the end of September.

- | | |
|----------------|---------------|
| 515 White | 520 Lavender |
| 516 Shell Pink | 521 Dark Blue |
| 517 Rose Pink | 522 Purple |
| 518 Crimson | |

Each of the above, $\frac{1}{8}$ oz., 30c; pkt., 10c.

- 523 Mixed, all colors, $\frac{1}{8}$ oz., 25c; pkt., 10c.

Crown

Large flowered variety, each bloom of which has a clear white center. It is wonderfully attractive.

- | | |
|------------------------|-----------------|
| 524 Rose | 527 Dark Velvet |
| 526 Dark Rose | 528 Light Blue |
| 530 Mixed, all colors. | |

Each of the above, $\frac{1}{8}$ oz., 35c; Pkt., 10c.

Vaughan's Giant Branching

BEAUTIFUL asters for cut-flowers. Quite different in several respects from any other aster known. The branching habit is accompanied with great vigor of growth and profusion of bloom. The flowers are very large, very double, borne on long, stiff stems, and the colors clear and handsome.

- | | |
|----------------|--------------|
| 540 White | 545 Crimson |
| 542 Flesh Pink | 547 Lavender |
| 543 Rose Pink | 548 Purple |

Each of the above, oz., \$1.50; $\frac{1}{8}$ oz., 25c; pkt., 10c.

- 549 Mixed, all colors, oz., \$1.50; $\frac{1}{8}$ oz., 20c; pkt., 10c.

Vaughan's Giant Ostrich Feather

THE finest type of the Giant Comet, or Ostrich Feather type of Aster. Much larger than the Giant Comet, the petals longer, more twisted, and produced in greater abundance. Borne on long stems, they make cut-flowers par excellence.

- | | |
|---------------|-------------------|
| 563 White | 568 Crimson |
| 565 Soft Pink | 569 Silvery Lilac |
| 566 Lavender | 570 Dark Blue |
| 567 Rose | |

Each of the above, $\frac{1}{8}$ oz., 30c; pkt., 10c.

- 571 Mixed, all colors, $\frac{1}{8}$ oz., 25c; pkt., 10c.

572 Early Flowering Giant Ostrich Feather, White. Pkt., 10c.

- 573 Early Flowering Giant Ostrich Feather, Rose. Pkt., 10c.

- 574 **Golden Sun.** This is the best yellow Aster. The flowers are of good size, they are borne on long stems; the color is a pleasing light yellow. Pkt., 15c.

- 610 **Sensation.** Bushy and branching plant about two feet high, flowers double and incurved, resembling a Dahlia and the flower a lively cardinal red. This is the very best of the red Asters and the flowers are wonderfully attractive in the garden and when cut and used under artificial light the effect is charming. Pkt., 15c.

- 620 **Asters, Tall Mixture.** Many classes and colors. If one has a large space where the cultivation of flowers is for cut-flowers only, we would suggest a liberal planting of this mixture of Asters, and while the newer kinds, such as our Excelsior mixture contains, are lacking, still many charming varieties are included in this, and the flowers will be in succession from early in the summer to late in the fall. 1 oz., 75c; $\frac{1}{4}$ oz., 25c; pkt., 10c.

- 621 **Asters, Dwarf Mixture.** This is a mixture of many varieties of dwarf sorts and where a large mixed bed of Asters is desired this will answer the purpose nicely. $\frac{1}{8}$ oz., 25c; pkt., 10c.

- 625 **Vaughan's Excelsior Mixture of Dwarf Asters.** Many of our customers find it difficult to choose among the strains of all dwarf asters, and where exact heights are not required we recommend planting our Excelsior Mixture. It is comprised of the most distinct and desirable colors of the different classes of dwarf asters, and many others not listed, especially selected for this mixture, insuring satisfaction to the grower. $\frac{1}{8}$ oz., 50c; large pkt., 25c; pkt., 15c.

- 625 **Vaughan's Excelsior Mixture of Tall Asters.** This is a mixture of the most beautiful, striking and distinct colors of all the tall growing asters. Selected from the cream of the tall varieties and others, especially purchased for this mixture. This is the finest mixture of Tall Asters in existence and the most critical lover of this flower will be astonished at the wide range of colors and varieties given in this truly Excelsior strain. $\frac{1}{8}$ oz., 50c; large pkt., 25c; pkt., 15c.

- 355 **ARCTOTIS Grandis (African Daisy).** A remarkable handsome annual from south-west Africa. It forms much-branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals pale lilac-blue. There are few annual flowers grown in the garden more valuable for cut-flower work than the Arctotis. It is easily grown from seed, and may be started in hotbed, in the house or in the open ground, the seed germinating in about five days, and the plants may be expected to come into bloom early in July and continue until quite hard frost. It delights in a sunny situation. As a cut-flower it is especially valuable, the blooms lasting a week or ten days in water, and if undeveloped buds are cut and placed in a sunny window, every one will open and produce a fine flower as though left on the plant. $\frac{1}{4}$ oz., 40c; pkt., 10c.



Balsam



Balloon Vine



Candytuft

- 660 **BALLOON VINE** (Love in a Puff) □ = A clean, free-growing vine reaching 10 to 15 feet, bearing delicate clusters of bloom and numbers of large, round, inflated seed-buds resembling miniature balloons. The effect is most odd and curious. It is in every way a very attractive vine. Oz., 30c; pkt., 5c.
- 661 **BALSAM APPLE** □ = 10 ft. A very ornamental and quick growing climber. While it has a flower, it is grown mostly for the effect of the fruit which follows. This is yellow, looks not unlike an apple—hence its name. When ripe it opens and shows the seeds and blood-red interior. Oz., 40c; pkt., 10c.
- 662 **PEAR**. Like above only the fruit is pear-shaped. Oz., 40c; pkt., 10c.
- 663 **BALSAM, Apple and Pear Mixed**. Oz., 40c; pkt., 10c.

Double Balsam (Lady Slipper)

(1½ to 2 feet)

AN OLD and favorite garden flower, producing its gorgeous masses of beautiful brilliant colored double flowers in the greatest profusion. Balsams like the hot sun, rich soil and plenty of water. For perfect development the plants should be set from 12 to 18 inches apart. Transplanting two or three times has the tendency to dwarf the plants into better shape and to make the flowers more double.

- 675 **Alba Perfecta**. 682 **The King**. Brilliant scarlet.
- 676 **Lemon Yellow**. 683 **Atrosanguinea**
- 677 **Flonch Pink**. 684 **Plena**. Flowers and leaves red.
- 678 **The Queen**. Pale rose. 684 **Solferino**. Striped lilac, white and scarlet.
- 679 **Prince Bismarck**. Salmon pink.
- 680 **Crimson**. 685 **Lilac**.
- 681 **Crimson Spotted**. 686 **Dark Blue**.

- Each of the above, ½ oz., 20c; Pkt., 10c.
- 689 **Double Rose and Camellia-flowered Mixed**. ½ oz., 25c; pkt., 10c.
- 690 **Vaughan's Invincible Balsams Mixed**. Mixed from separate colors and includes everything that is desirable in Balsams. ¼ oz., 35c; pkt., 15c.
- 691 **Dwarf Balsams Mixed**. 8 in. Perfect little bushes with double and semi-double flowers, the colors are pretty and pleasing. ¼ oz., 25c; pkt., 5c.
- 692 **Goliath White** 4 ft. Remarkable for their immense height and extreme doubleness. Excellent for large and striking flower groups. ¼ oz., 30c; Pkt., 10c.
- 693 **Goliath Scarlet**. Extremely brilliant, large and very double. ¼ oz., 30c; Pkt., 10c.
- 695 **Giant Chamois Rose**. A most pleasing color, new. Pkt., 15c.
- 696 **BARTONIA Aurea** □ 12 in. One of the most showy of annuals, excellent both for beds and borders; producing showy, golden-yellow flowers. The foliage is gray and thistle-like, and is exceedingly brilliant in the sunshine. It will not stand transplanting, so should be sown where intended to bloom. Sow in the open ground early in May. Blooms through summer and fall. ½ oz., 25c; pkt., 10c.

Brachycome (Swan River Daisy) □

(12 inch)

A FREE-FLOWERING, dwarf-growing annuals; covered during the greater part of the summer with a profusion of pretty blue or white flowers, suitable for edgings, small beds or pot culture.

737 **White** 739 **Blue** 740 **Mixed**
Each of the above, ⅓ oz., 20c; pkt., 5c.

Browallia □ 1 ft.

A profuse blooming bedding plant, covered with rich, beautiful winged flowers during the summer autumn months, supplying a shade of intense blue, very uncommon.

745 **Spectiosa Major**. A beautiful flowering variety of the most brilliant ultramarine blue. Pkt., 15c.

748 **BRYONOPSIS Laciniosa** □ = 10 ft. An ornamental climber of the gourd family, bearing green fruit which change in color to bright scarlet striped white. Pkt., 10c.

Calendula (Pot Marigold) □ (1 foot)

ONE of the best and showiest free-flowering hardy annuals, growing in any good garden soil, particularly bright in late fall, continuing in bloom from early summer until killed by frost; valuable also for pot culture, blooming freely in winter and early spring.

766 **Officinalis, Orange King**. The outer petals are slightly imbricated, while those of the center are curved like those of the peony. Color, glowing orange. ½ oz., 35c; pkt., 10c.

767 **Officinalis, Sulphur Queen**. Large sulphur yellow. Pkt., 10c.

770 **Mixed, all colors**. For woodlands, wild gardens and perennial borders. ¼ oz., 10c; pkt., 5c.



Calendula

Calliopsis (Tickseed)

(6 inches to 2 feet)

VERY graceful border plants, supplying throughout summer an abundance of elegant showy flowers which are greatly prized for bouquets and vases. They will thrive anywhere, even in city gardens, where their bright colors are highly appreciated.

- 780 **Crown of Gold (Coronata Maxima)**. Splendid cut-flower. Pure golden yellow, 2 to 3 inches across, on long wiry stems; hardy and blooms nearly all season. Pkt., 10c.
- 781 **Golden Ray**. 6 to 8 in. Flowers golden yellow with dark purplish-brown center. ½ oz., 25c; pkt., 10c.
- 782 **Drummondii, Golden Wave**. 2 ft. Flowers yellow with a circle of rich crimson-brown around the eye. ¼ oz., 10c; pkt., 5c.
- 788 **Tall Varieties, Mixed**. Valuable for wild gardens, etc., and for cutting. ¼ oz., 10c; pkt., 5c.
- 789 **Dwarf Varieties, Mixed**. Valuable for small mixed beds and borders. ¼ oz., 10c; pkt., 5c.
- 790 **Double Mixed, all colors**. ¼ oz., 20c; pkt., 10c.
- 800 **Vaughan's Special Mixture Calliopsis**. This is the most pleasing mixture offered. It contains all the desirable sorts and colors of these beautiful flowers. A great number of kinds have been especially selected for it. ½ oz., 30c; pkt., 10c.
- 840 **CANARY BIRD VINE** □ = 15 to 20 ft. A dainty vine with beautiful cut leaves and pretty delicate flowers of a clear canary-yellow. From the color of its blossoms and also from a fancied resemblance of their shape to a bird with wings expanded the plant obtained its common name. Does well in the shade. ½ oz., 15c; 1 oz., 25c; pkt., 5c.

Candytuft □

THESE Candytufts are of fine habit and profuse bloomers. They soon flower from seed and remain long in beauty. For massing in flower beds and borders and for edgings they are admirably adapted, while for cutting the flowers are greatly prized.

- 845 **Giant Hyacinth-flowered White**. 1 ft. A grand border plant, bearing very large bold spikes of snowy white flowers, habit sturdy and compact. This is an especially select stock. Oz., 85c; ¼ oz., 25c; pkt., 10c.
- 850 **Queen of Italy**. 8 in. The plants form dwarf bushes covered with large pink blooms. ¼ oz., 25c; pkt., 10c.
- 851 **Snowflake**. The very sweetest of all. ¼ oz., 25c; pkt., 10c.
- 852 **Umbellata Carminea**. Carmine. ¼ oz., 20c; pkt., 10c.
- 854 **Umbellata Purpurea**. Crimson. ¼ oz., 20c; pkt., 10c.
- 856 **Umbellata Lilaoina**. Lilac. A particularly charming color. ¼ oz., 25c; pkt., 10c.
- 860 **Mixed, all colors**. Lb., \$1.80; ¼ lb., 50c; oz., 25c; ½ oz., 15c; pkt., 5c.





Carnation

Carnations □

THE Carnation has long been prized as a hardy border flower, and it certainly deserves all the praise lavished upon it. Being hardy, free-flowering, and easily grown either in flower beds, borders, or pots, it is one of the most valuable and beautiful of our summer flowers and a favorite with everyone. Plants raised from seed bloom more profusely than propagated plants, and are therefore to be preferred.

910 Chabaud Mixed. A remarkable strain raised by a Carnation specialist in southern France. Blooms in 5 months after being sown, and continues to flower indefinitely in the greatest profusion. 100 seeds, 15c.

911 American Hybrids. A valuable race of large-flowered carnations, bearing their handsome blooms on long wiry stems for a long time in succession. 35 seeds, 25c.

914 Marie Chabaud. Pure canary yellow. 50 seeds, 15c.

930 Giant Margaret Mixed. Flowers of very large size, measuring 3 in. or more in diameter; colors include all the shades of white, pink, crimson and striped. Upright growth requiring hardly any support. 100 seeds, 15c.

931 Giant Margaret White. 50 seeds, 15c.

950 Margaret, Double 956 Pink

Mixed 958 Striped

952 White 960 Red

954 Yellow

Each of the above, Pkt., 10c.

975 Vaughan's Special Mixture. This is a mixture of the best strains. The plants will bloom the first summer and will produce many flowers equal to the best florist's Carnation. They may be lifted in September, potted and will bloom all winter in the house. 100 seeds, 25c.



Centaurea Imperialis

Centaurea Cyanus

(Bachelor's Button) □ (2 feet)

KNOWN as Ragged Sailor or Cornflower. It is not a pretentious plant, but will always charm by its simple beauty. Reseeds itself and may be used for naturalizing purposes.

1045 Mixed, all colors. $\frac{1}{2}$ oz., 15c; $\frac{1}{4}$ lb., 75c; pkt., 5c.

Double Flowering Varieties

1047 Blue. 1048 Pink Shades. Each, oz., 60c; $\frac{1}{4}$ oz., 20c; pkt., 10c.

1049 Double Mixed. $\frac{1}{2}$ oz., 25c; pkt., 10c.

1051 Vaughan's Special Mixture of Bachelor's Buttons, double and single varieties. 1 oz., 60c; pkt., 10c.

Centaurea Imperialis

(Giant Sweet Sultan) (2½ feet)

THIS beautiful class is undoubtedly the finest of all Sweet Sultans for cut-flower purposes. The beautiful sweet-scented, artistic shaped flowers are borne on long, strong stems; when cut will last for several days in good condition.

1064 White.

1065 Lilacina. Dark Lilac

1066 Favorita. Brilliant Rose.

1067 Splendens. Purple crimson.

1068 Rose and White.

1068a Deep Lavender

Each of the above, $\frac{1}{4}$ oz., 20c; Pkt., 10c.

1069 Mixed, all colors. $\frac{1}{4}$ oz., 15c; pkt., 10c.



Centaurea Cyanus—Bachelor's Button

1071 Suaveolens. Yellow Sweet Sultan. $\frac{1}{2}$ oz., 30c; pkt., 5c.

1072 Vaughan's Special Mixture of Centaureas is composed of all the annual Centaureas, and a packet will produce the loveliest cut-flowers all summer. $\frac{1}{2}$ oz., 40c; pkt., 10c.

1073 CENTAUREA Candidissima ÷ 10 in. Thick silvery white leaves, used for bedding purposes. Pkt., 10c.

1074 CENTAUREA Gymnocarpa Dusty Miller 1 ft. Foliage finely cut of silvery gray color, used for bedding. Pkt., 10c.

1075 CENTROSEMA Grandiflora Butterfly Pea. □ = ÷ 10 ft. Sometimes called "Look at me" a hardy vine, blooms in July from seeds sown in April, bears in profusion, inverted pea-shaped flowers; rosy violet to reddish purple in color. Pkt., 10c.

902 Vaughan's Mixture of Annual Flower Seeds for Cut Flowers. This will produce a glorious amount of flowers for cutting. We would suggest planting this in rows in the vegetable garden where the plants may be cultivated and the blossoms kept cut close so the production of flowers will be encouraged, as the more one cuts, the more one has to cut. The secret being not to allow any seed pods to form. $\frac{1}{4}$ oz., 20c; large pkt., 10c.



Cardinal Climber

Cardinal Climber □ = (25 feet)

901 This is a very attractive, strong and rapid grower, attaining a height of twenty-five feet with beautiful fern-like lacinated foliage and literally covered with a blaze of fiery cardinal red flowers from midsummer to frost. The flowers are about 1 inch in diameter and are borne in clusters five to seven blooms each. Like all Ipomoeas, it delights in a warm, sunny situation and good, rich soil. The seed should be soaked in water a few hours before sowing and not planted outside until about May 1st. 2 pkts., 25c; 5 pkts., 50c; 25 seeds, 15c.

Clarkia □ (2 feet)

CLARKIAS are popular summer annuals, all perfectly hardy, and can be grown with the utmost ease in ordinary soil. They flower profusely, and are exceedingly bright and attractive, especially in large masses.

1124 Apple Blossom. Double flowers, apple blossom pink. Pkt., 10c.

1125 Brilliant. Double flowers, produced on long spikes, of a brilliant salmon scarlet. $\frac{1}{4}$ oz., 30c; Pkt., 10c.

1126 Chamois. Each, 10c.

1127 Flesh. Double flesh pink. Each, 10c.

1128 Queen Mary. Lovely rose carmine, very bright color. Pkt., 10c.

1129 Salmon Pink. Double salmon. Pkt., 10c.

1130 Scarlet Queen. The flowers are a double orange salmon and develop to a glowing orange scarlet. $\frac{1}{8}$ oz., 25c; Pkt., 10c.

1131 White Prince. Very double, pure white. $\frac{1}{4}$ oz., 30c; Pkt., 10c.

1133 Double and Single Mixed. 1 oz., 25c; Pkt., 5c.

1134 Vaughan's Special Mixture. Made up especially from named varieties. Be sure and include this in your order. Pkt., 15c.



Celosia Scandens

Celosia (Coxcomb) □

Plumosa or Plumed Varieties

(2½ to 3 feet)

THESE stately plants are considered among the most ornamental and should not be omitted in any garden. They generally form pyramidal bushes branching out in candelabra shape, the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage.

1022 Plumosa Aurea. Orange ostrich plume. ¼ oz., 25c; pkt., 10c.

1024 Plumosa Coccinea. Crimson ostrich plume. ¼ oz., 25c; pkt., 10c.

1025 Plumosa, Mixed, all colors. ¼ oz., 15c; pkt., 5c.

1026 Plumosa Thompsoni Magnifica. A choice strain of the Ostrich Plume Celosias. ¼ oz., 25c; pkt., 10c.

1028 The Chinese Woolflower (*Celosia Childsi*). Plants grow two to three feet high, the bloom starting early with a central head, round and globular, which often reaches the immense size of two feet in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool. All these branches support numerous laterals with small heads of bloom mixed with fresh green foliage, so that a plant looks like an immense bouquet splendidly arranged and set in the ground. None of the blooms fade in any way until hit by frost; but all continue to expand and glow with a deepening richness of color, a dark crimson-scarlet. Pkt., 15c.

1135 CLEOME Pungens (Spider Wort) □ = 5 ft. A showy garden annual producing curious heads of flowers of bright rose color; of easy cultivation, blooming until late; a good bee plant. ½ oz., 25c; pkt., 10c.

1136 CLIANTHUS Dampieri (Glory Pea of Australia) + 2 ft. Clusters of bright red flowers with black spot, 15 seeds. Pkt., 25c.

1137 COBAEA Scandens Cathedral Bells □ = 30 ft. One of the handsomest and rapid growing climbers. The flower is bell-shaped and opens a clear green but turns a beautiful purplish-lilac. Seed should be sown edgewise. A very vigorous and prolific bloomer. ¼ oz., 15c; pkt., 5c.

1138 Flore Albo. White. ¼ oz., 30c; pkt., 10c.

1139 Mixed. White and blue. Pkt., 10c.

1146 COCCINEA Indica □ = A remarkably pretty annual climber; luxuriant ivy-like foliage; small flowers followed by numerous fruits 2 inches long, which turn to brilliant scarlet, spotted with white. ¼ oz., 25c; Pkt., 10c.

1148 COIX Lachrymae (Job's Tears) □ 2 to 4 ft. The seed is frequently used as an old-fashioned remedy for sore throat, goiter and teething babies. It is strung on a linen thread and worn around the neck as a chain. 1 lb., 60c; ¼ lb., 20c; 1 oz., 5c.

1150 COLEUS, Vaughan's Mammoth Rainbow Mixture + 2 ft. The handsomest foliage plant obtained from seed. Pkt., 20c.

1153 Fine Mixed. Pkt., 10c.

1154 COLLINSIA Mixed □ 18 in. All species are brightly colored and excellent for growing in clumps. Blooms early and prefers a dry situation. 1 oz., 25c; Pkt., 5c.

1156 COMMELINA Sellowiana + 1 ft. Plants are of graceful trailing habit, superb for carpet bedding or for hanging baskets. In pots it blooms every day in the year. In the garden from May until frost, showing daily scores of large winged butterfly-like blossoms of dainty blue color. ¼ oz., 50c; Pkt., 10c.



Cosmos

Cosmos □ (4 to 6 feet)

THIS beautiful annual is one of the most showy and useful of our garden plants. Plants are very bushy and compact. Flowers borne on long delicate stems and are similar to single Dahlias. Foliage very finely cut.

Early Flowering Mammoth

THESE are the only kind we would recommend planting north of the latitude of Middle Illinois, as the late, or Giant flowered varieties are nearly always caught by early frost. We have dropped the ordinary Early Flowering varieties which produce small flowers and now offer only these Mammoth Early Flowering sorts.

1180 White. 1181 Pink. 1182 Crimson. Each, 10c.

1185 Early Flowering Mammoth Mixed, all colors. ¼ oz., 20c; pkt., 10c.

Late or Giant Flowered

For sowing south of the latitude of Middle Illinois.

1187 Crimson Ray. A distinct beautiful type. The petals, greatly increased in number, are narrow and fluted, separated in star-like form and of the most brilliant crimson color overlaid with a velvet sheen. Pkt., 10c.

1188 Crimson. ½ oz., 15c; pkt., 5c.

1189 White Lady Lenox. Pkt., 10c.

1190 Pink Lady Lenox. ½ oz., 25c; pkt., 10c.

1195 Giant Mixed. 1 oz., 25c; ½ oz., 15c; pkt., 5c.

1196 Klondyke. A gorgeous orange-yellow flower with very handsome foliage more coarsely lacinated than others. Pkt., 10c.



Celosia Childsi

Cypress Vine □ = (10 feet)

FOR training upon a light ornamental trellis, the Cypress Vine cannot be excelled. It has a profusion of scarlet or white star-shaped blossoms, and its finely-cut foliage is particularly adapted to ornamental work.

1228 White. 1229 Scarlet. ½ oz., 25c; pkt., 5c.

1230 Mixed. ½ oz., 20c; pkt., 5c.

1231 Ivy-leaved Scarlet. A rapid growing variety with deeply lobed, ivy-like leaves, and small scarlet flowers. Pkt., 10c.

Dolichos (Hyacinth Bean) □ =

(10 feet)

A RAPID growing annual climber, flowers freely in erect racemes, followed by ornamental seed pods. Sweet scented.

1385 Princess Helen (Daylight). Snow white flowers followed by silvery white seed pods. 1 oz., 25c; pkt., 5c.

1386 Purple Soudan (Darkness). Attractive rose-violet flowers with dark ruby-purple seed pods. 1 oz., 25c; pkt., 5c.

1387 Mixed, all colors. 2 ozs., 35c; 1 oz., 20c; pkt., 5c.



Chrysanthemum—Single Annual

Chrysanthemum, Annual Var. □

(2½ feet)

SHOWY and effective family of plants of varied character extensively grown for cut-flowers.

1095a Mixed, Single Annual Varieties. Pkt., 10c.

Double Flowering Varieties

THE coronarium varieties are dwarf selected strains of compact habit and with fine double flowers. They are most valuable border and bedding plants, and provide large quantities of cut bloom during the summer.

1096 Coronarium, Double White. ¼ oz., 15c; pkt., 5c.

1097 Double Golden Yellow... ¼ oz., 15c; pkt., 5c.

1098 Double Sulphur Yellow. ¼ oz., 15c; pkt., 5c.

1099 Double Mixed. ¼ oz., 15c; pkt., 5c.

The Dunnetti varieties are of upright growth, producing flowers two inches across.

1100 Dunnetti, Double White. Pkt., 10c.

1101 Double Yellow Pkt., 10c.

1109 Vaughan's Special Mixture of Double Chrysanthemums. All the above and others. ½ oz., 25c; pkt., 10c.

1110 Vaughan's Special Mixture of Annual Chrysanthemums. Single and double sorts in finest mixture, including many new varieties not catalogued above. ½ oz., 25c; pkt., 10c.



Dahlia

Dahlia * (4 feet)

BUT few people know Dahlias can be raised from seed and will bloom the first year. The seeds germinate easily and from the very first are strong and sturdy little plants. Plant them in a shallow box or pan early in March or April, transplant them carefully as their growth demands, and keep the soil moderately moist. When all danger from frost is over, plant them in the bed or border in the garden and from then on they will prove no more trouble than if the tubers had been used instead of seed.

Single Flowering

1233 Colossal. The flowers are composed of three or more whorls of wide overlapping petals—one above the other. Stems are long and rigid, bearing flowers well above the foliage; the colors are rich and varied. $\frac{1}{4}$ oz., 30c; pkt., 10c.

1235 Giant Perfection Mixed. The plants are of strong, robust habit, and produce in great abundance flowers of immense size, of the most bewildering variety of color. Pkt., 10c.

Double Flowering

1237 Double Good Mixed. $\frac{1}{8}$ oz., 35c; pkt., 10c.

1238 Double Cactus Flowered Mixed. With twisted and curled petals. $\frac{1}{8}$ oz., 35c; pkt., 15c.

1239 Double Best Mixed. Saved from show and fancy sorts. Pkt., 25c.

1240 Vaughan's Special Mixture. This mixture contains seeds from the best collections in America and Europe and embraces all the various strains of double-flowering Dahlias, such as Show, Pompon, Liliput and Cactus varieties, also the single-flowering and striped sorts. 60 seeds, 25c.



Escholtzia

Daisy Collection

THESE simple flowers appeal to many. With the exception of the Bellis or English Daisy all have a single row of petals around a center of a contrasting shade. Nearly all have long stems and are excellent for cutting.

Annual Daisies

355 ARCTOTIS Grandis (African Daisy). Flowers pure white on upper surface reverse of petals being pale lilac blue. Pkt., 10c.

725 Bellis Perennis Fl. Pl. (English Daisy). # 6 to 8 in. Mammoth mixed, pink and white. Pkt., 15c.

740 BRACHYCOME (Swan River Daisy). 8 in. Mixed, blue and white. Pkt., 5c.

1113 CHRYSANTHEMUM Maximum (Ox-eyed Daisy). White flowers. Pkt., 10c.

1112 CHRYSANTHEMUM Frutescens (Paris Daisy). Large white star-shaped flowers. Pkt., 10c.

1383 DIMORPHOTHECA Aurantiaca (Orange Daisy) 1 ft. Rare and very showy annual from South Africa, having daisy-like flowers of a glossy salmon-orange shade with black central ring. $\frac{1}{4}$ oz., 30c; pkt., 10c.

Perennial Daisies

5010 AGATHEA Coelestis (Blue Daisy). Sky blue with yellow disc. Early growth; blooms all summer. Pkt., 10c.

5023 ANTHEMIS Kelwayi. Yellow hardy Marguerite Daisy. Pkt., 10c.

5157 SHASTA Daisy Alaska. Large pure white flowers. Pkt., 10c.

5413 PYRETHRUM (Painted Daisy) Roseum Hybridum Grandiflorum. Single, mixed, Yellow centers; ray petals; shades of pink and red. Fern leaved foliage. Pkt., 15c.



Delphinium

Delphinium (Annual Larkspur)

THESE handsome Larkspurs are very effective in borders and planted amongst shrubs. The graceful spikes of bloom are much valued for vases. They continue long in bloom. The Emperor, Hyacinth-flowered and Branching varieties bloom a little later than the Stock-flowered. Sow seed in the open border either in early spring or late fall so germination may take place very early in the spring.

Stock Flowered

1268 Mixed, all colors. 1 oz., 60c; $\frac{1}{4}$ oz., 20c; pkt., 5c.

1269 Giant Hyacinth-flowered Mixed. 3 ft. Derives its name from the striking resemblance of the flowers to a double Hyacinth. Delicate colors. $\frac{1}{4}$ oz., 15c; 1 oz., 50c; pkt., 5c.

1270 Tall Rocket Mixed. 2 $\frac{1}{2}$ ft. Throws up one single column of bloom. $\frac{1}{4}$ oz., 10c; 1 oz., 25c; pkt., 5c.

1275 Dwarf Rocket Mixed. 1 ft. $\frac{1}{4}$ oz., 10c; 1 oz., 25c; pkt., 5c.

1281 Emperor Mixed. Produces an abundance of long, slender spikes in the most delicate colors. $\frac{1}{4}$ oz., 10c; pkt., 5c.

1285 Vaughan's Special Mixture, Annual Larkspurs. A charming mixture containing all the bright and delicate shades, makes wonderful cut-flower material and should be planted generously. 1 oz., \$1.00; $\frac{1}{4}$ oz., 30c; pkt., 10c.



Dianthus

Dianthus (Garden Pinks) (1 ft.)

A POPULAR annual variety known to nearly all. The flowers are distinguished for their brilliant, contrasting variety of colors appearing in each flower. The stripes and spots make the clusters stand out distinctly.

Single Flowering

1294 Japan Single Mixed. Great range of colors. $\frac{1}{4}$ oz., 20c; pkt., 5c.

1295 Laciniatus Mixed. Single fringed flowers. $\frac{1}{4}$ oz., 20c; pkt., 5c.

1326 Vaughan's Special Mixture, Single Pinks. This is a selection from the choicest sorts in cultivation. The flowers are extraordinarily large, of handsome form, and embrace the most beautiful colors, ranging from white to the most delicate pink and deep glowing crimson. $\frac{1}{4}$ oz., 30c; pkt., 10c.



Dianthus

Double Flowering

1327 Chinensis Double Mixed. Blooms in clusters, flowers very double and in a large range of colors. $\frac{1}{4}$ oz., 10c; pkt., 5c.

1346 Vaughan's Special Mixture of Double Pinks. Selection of the best double pinks in cultivation. Flowers ranging in color through all the brightest and most brilliant shades. $\frac{1}{4}$ oz., 30c; pkt., 10c.

1350 Vaughan's Special Mixture of Double and Single Pinks. This magnificent mixture contains the cream of the Dianthus family and unexpected results may be obtained by planting a package. $\frac{1}{4}$ oz., 30c; pkt., 10c.



DIGITALIS (Foxglove) see Perennial Pages.

1383 DIMORPHOTHECA Aurantiaca (Golden Star of the Veldt) 1 ft. Rare and very showy annual from South Africa, having daisy-like flowers of a glossy salmon-orange shade with black central ring, a lovely color when flowers open in the sun. $\frac{1}{4}$ oz., 30c; pkt., 10c.

1384 Aurantiaca Hybrida. They vary in color from the purest white to red and blush, white tints, sulphur, lemon and bright golden yellow, light orange, reddish-yellow changing to pale salmon rose. Pkt., 15c.

Escholtzia (California Poppy)

THE State flower of California. A bright free-flowering plant of low spreading growth with finely cut silvery foliage. The poppy-like flowers in pure shades of yellow, orange and crimson are produced from early spring until frost. Sow the seed where the plants are to remain.

1418 Carmine King. Beautiful carmine rose color, both on the interior and exterior of the flower. $\frac{1}{2}$ oz., 30c; pkt., 10c.

1421 Dainty Queen. Color tender blush or pale coral pink, deeper towards the edges with a ground of delicate cream. Pkt., 10c.

1422 Golden West. Flowers bright yellow and orange, penciled and blotched. $\frac{1}{4}$ lb., 80c; $\frac{1}{2}$ oz., 20c; pkt., 5c.

1428 Mixed, all colors. Many shades. $\frac{1}{4}$ lb., 50c; 1 oz., 20c; pkt., 5c.

1429 Double and Semi-Double Mixed. $\frac{1}{4}$ oz., 15c; pkt., 10c.

1430 Vaughan's Special Mixture. This mixture includes all the varieties here catalogued of the double and single sorts and is the most complete mixture of these charming annuals in existence. 1 oz., \$1.00; $\frac{1}{2}$ oz., 40c; pkt., 10c.





Helichrysum (Strawflower)

Euphorbia □ (2 feet)

STRONG growing annuals, for beds of tall growing plants or mixed borders; the flowers are inconspicuous; the foliage, however, is exceedingly ornamental.

1436 *Heterophylla* (Mexican Fire Plant). Annual poinsettia resembling in habit and color the beautiful hothouse poinsettia. About mid-summer the center top leaves of each branch turn a vivid orange scarlet. ¼ oz., 15c; pkt., 10c.

1437 *Variegata* (Snow on the Mountain or Mountain Spurge). 2 ft. Remarkably distinct plant; very showy with its foliage edged white and green. Pkt., 10c.

1438 **EVERLASTINGS**. Mixed □ 1 to 2 ft. ¼ oz., 15c; pkt., 10c.

Everlastings

EVERLASTINGS have become popular again; winter bouquets of your own growing make an attractive present for a friend, besides supplying during the long cold winter when flowers are scarce, a bit of brightness for your own home. The drying is a simple operation. Cut before fully expanded, bunch like sweet peas and hang on a line in a warm, dark, dry room. They will dry thoroughly in ten days. We can offer the following:

92 **ACROCLINIUM Roseum** □ 2 ft. Graceful daisy-like flowers, pretty bright rose with yellow center. ¼ oz., 20c; pkt., 5c.

194 **AMMOBIUM Alatum Grandiflorum** □ 2½ ft. Pretty white Everlasting. ½ oz., 25c; pkt., 10c.

1486 **GOMPHRENA** (Globe Amaranth). Mixed, all colors. A showy annual everlasting with clover-like heads. Pkt., 5c.

1553 **HELICHRYSUM** (Strawflower) □ 2 to 3 ft. Vaughan's Special Mixture. This mixture of *Helichrysum* is an improved large-flowered strain containing many new and exquisite shades. Pkt., 15c.

5331 **LUNARIA Biennis** (Honesty or St. Peter's Penny). Flowers white, followed by silvery seed pods, prized for winter decoration. Pkt., 10c.

5385 **PHYSALIS Franchetti** (Chinese Lantern Plant). 1½ ft. Flowers yellow with dark center. Produces balloon-like husks, which turn bright red when ripe and resemble Chinese paper lanterns. Pkt., 10c.

2925 **RHODANTHE** (Swan River Everlasting) □ 1 ft. A charming annual; succeeds in a light rich soil and a warm sheltered situation; flowers everlasting; mixed colors. Pkt., 10c.

3045 **STATICE Russian** (Suworowi) □ 1 ft. Flowers bright rose color. Pkt., 25c.

3046 **Bonduelli**. Heads of bright yellow flowers. Pkt., 10c

3047 **Sinuata Blue**. Light to dark lavender flowers. Pkt., 10c.

3048 **Sinuata Rosea**. 3049 **Sinuata White**. Each, 10c.

3765 **XERANTHEMUM Double Mixed** □ 2 ft. Bright and pretty "Everlasting" with silvery foliage and silky flowers in pink, white and purple. ¼ oz., 30c; pkt., 10c.



Gypsophila—Elegans Grand Alba

Gaillardia (Blanket Flower) □

(1½ feet)

THEY will produce from early spring until late fall a continuous profusion of brilliantly colored flowers, red and yellow predominating. Of easy culture, sow where they are to remain.

1448 *Picta Single Mixed*. ¼ oz., 15c; pkt., 5c.

1450 *Lorenziana Double Perfection Mixed*. Large handsome heads of double quilled flowers in rich shades of red and yellow. ¼ oz., 20c; pkt., 5c.

Geranium ÷ (1 to 2 feet)

THESE grow readily from seed the first year and produce blooming plants the first summer. There is a great deal of pleasure in watching them develop from seed, and there is always the chance of thus securing something new.

1465 **Zonale Varieties**. Saved from a choice collection. Pkt., 10c.

1466 **Large Flowering**. Newest varieties mixed. 50 seeds, 15c.

1469a **GLADIOLUS**. Many varieties, mixed. Can be grown to produce flowers first year if sown early and will make splendid bulbs for second year blooming. Pkt., 10c.

Godetia □ (1½ feet)

AN attractive hardy annual, deserving more extensive cultivation. The plants bloom profusely and bear showy flowers of satiny texture in many rich and varied colors. They do best in a rather poor soil.

1479 **Many Sorts and Colors, Mixed**. ½ oz., 25c; pkt., 5c.

1482 **Dwarf Sorts, Mixed**. Neat globular bushes, about 10 inches in height. ¼ oz., 25c., pkt., 10c.



Japanese Morning Glory (See Next Page for Description)



Morning Glory

See Next Page for Description

Gypsophila □ (2 feet)

GRACEFUL plants of light fairy-like growth. Much in demand for cutting and combining with other flowers for bouquets and vases.

1522 **Elegans Grandiflora Alba** (Angel's Breath). This is an improved, large-flowering, pure white, of free, easy growth. Several sowings should be made during the season to keep up a supply. Oz., 30c; ½ oz., 20c; pkt., 5c.

1523 **Elegans Carminea**. Pkt., 5c.

1525 **Muralis**. 6 inch. A lovely little rock or edging plant with rose-pink flowers. ¼ oz., 25c; pkt., 10c.

Gourds □ = (20 feet)

THESE are desirable in many places where an immense amount of vine is wanted quickly. Most sorts are good for 20 to 30 feet in a season and the blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful. The small fancy gourds are excellent toys for children, while the larger gourds may be used as dippers, sugar troughs and bowls.

1487 **Apple** - shaped. Beautifully striped. Pkt., 5c.

1488 **Bottle**. The original Thermos Bottle. Used by the pilgrims in the orient. Pkt., 5c.

1489 **Calabash or Pipe Gourd**. Odd-shaped fruit which is used to an advantage in making pipes. Pkt., 10c.

1490 **Dipper**. Makes an excellent dipper. Pkt., 10c.

1491 **Dishcloth or Towel**. Many women prefer a dishcloth made of this Gourd to anything else, as it is always sweet and clean as long as any part of it is left. Pkt., 5c.

1492 **Hercules Club**. Fruit grows 3 to 4 ft. long. Pkt., 5c.

1493 **Japanese Bottle**. Pkt., 10c.

1494 **Japanese Nest Egg**. Fruit looks exactly like a hen's egg and may be used as nest eggs. Pkt., 5c.

1495 **Knob Kerrie**. The fruits are of fantastic shape. To the ball-like base—3 to 4 inches in diameter—is attached a slender handle or stem, 2 and often 3 feet in length. While developing they are deep green in color, changing as they mature to a richly mottled yellow. Pkt., 10c.

1496 **Orange**. The well-known Mock Orange. Pkt., 5c.

1498 **Ornamental Pomegranate or Queen's Sweet Pocket Melon**. Fruit deliciously perfumed and may be carried in the pocket or laid among linens. Pkt., 5c.

1500 **Pear-Shaped**. Striped yellow and green. Pkt., 5c.

1502 **Sugar Trough**. Thick shells, very durable. Pkt., 5c.

1504 **Spoon**. Small ball-shaped fruit with slender necks, deep orange. By slicing off a part of the side of the bowl a satisfactory spoon may be made. Pkt., 10c.

1505 **Turk's Turban**. Odd brightly-colored fruit. Pkt., 5c.

1506 **Small Fruited Varieties, Mixed**. 1 oz., 35c; ½ oz., 20c; pkt., 5c.

1510 **Mixed**, all varieties. 1 oz., 30c; ½ oz., 20c; pkt., 5c.

1515 **GRASSES (Ornamental Mixed)** □ 2 to 5 ft. These are most useful for winter bouquets when combined with Everlasting flowers. They are easily grown in any soil. Pkt., 10c.



Lobelia—Bedding Queen

Heliotrope ÷ (2 feet)

HELIOTROPE is a universal favorite on account of its delightful fragrance and duration of bloom, flowering equally well as bedding plants in summer, or as pot plant in the house during the winter. Seed sown in the spring makes fine plants for bedding out, and are as easily grown as Verbenas.

1555 Mammoth Mixed. Flowers of great size and ranging in shade from dark blue to lilac. $\frac{1}{8}$ oz., 50c; pkt., 15c.

Hollyhocks (Annual) □ (5 feet)

THE perennial varieties flower only the second year if grown from seed, these annual kinds, however, bloom the first year, and if sown in the open ground in May, they will be in flower in August, but if started indoors and set out in May, they will bloom in July. They are continuously covered with large flowers in many beautiful colors.

1571 Everblooming Single Mixed. Large single flowers, exhibiting every shade known in Hollyhocks. $\frac{1}{2}$ oz., 25c; pkt., 10c.

1575 Everblooming Double Mixed. Double and semi-double. Pkt., 10c.

Humulus Japonicus

(Japanese Hop) □ = (20 ft.)

RAPID summer climber; the foliage is luxuriant, making a dense covering. It is one of the best plants for covering verandas, trellises, etc. Heat, draught and insects do not trouble it.

1580 Green Leaved. $\frac{1}{4}$ oz., 15c; pkt., 5c.

1582 Variegated Leaved. The large handsome leaves are beautifully variegated, white, green and yellow. $\frac{1}{4}$ oz., 15c; pkt., 5c.

1590 HUNNEMANNIA Fumariaefolia (Bush Escholtzia) □ $1\frac{1}{2}$ ft. The plants grow into a shrubby bush and produce their large cup-shaped flowers 3 inches across on stem 12 inches long. The color is of clear, bright yellow, the petals are broad and crinkled, like crushed satin. The cut blooms keep in water two weeks. Oz., 60c; $\frac{1}{4}$ oz., 20c; pkt., 10c.

HYACINTH BEAN. See Dolichos.

1595 ICE PLANT (Mesembryanthemum Crystallinum) □ 6 inch. Foliage very ornamental, being covered with ice-like globules, and prized for garnishing; a valuable plant for dry sunny situations on banks, rock-work, old walls and ruins, etc., also for sunny borders. $\frac{1}{4}$ oz., 15c; pkt., 5c.

Ipomoea □ = (20 feet)

BEAUTIFUL rapid annual climbers. Foliage very dense and in some kinds of remarkable shape. The flowers in their wide range of delicate coloring are poised on slender stems. Many of the sorts open only when the sun rises, others when the sun sets. Some are fragrant. Seeds should be soaked in warm water for 24 hours before sowing to assist rapid germination. The seeds about the size of a pea should be notched with a file before soaking.

1615 Bona Nox (Evening Glory). Violet flowers. 1 oz., 25c; pkt., 5c.

1619 Mexicana Grandiflora Alba (White Moon Flower). Covered with large white flowers every evening and cloudy day. Seeds should be started inside. $\frac{1}{2}$ oz., 25c; pkt., 10c.



Moonflower

IPOMOEA—Continued

1620 Mexicana Grandiflora (Giant Pink). Soft lilac pink flowers. $\frac{1}{2}$ oz., 30c; pkt., 10c.

1622 Imperialis (Japanese Morning Glory) Fine Mixed. The Japanese Morning Glory requires a warm situation to do well. The south side of a wall or building where the plants are protected from the north and west winds will mostly be found beneficial for these vines. 1 lb., \$1.00; $\frac{1}{4}$ lb., 35c; 2 oz., 25c; 1 oz., 15c; $\frac{1}{2}$ oz., 10c; pkt., 5c.

1625 Vaughan's Special Mixture. Japanese Morning Glories. The colors run from snow white through all possible shades of blue and red from palest pink to darkest reds and purples. Flowers are streaked, mottled and bordered in wonderful fashion. The leaves are also very handsome; ivy-like and heart-shaped, some are rich green, while others are streaked and marbled with white or yellow. $\frac{1}{4}$ lb., \$1.00; 1 oz., 30c; $\frac{1}{2}$ oz., 20c; pkt., 10c.



1630 Rochester. Flowers 4 to 5 inches across, deep violet blue in the throat, blending out to an azure blue, bordered with a wide white band around the edges. $\frac{1}{2}$ oz., 30c; pkt., 10c.

1632 Rubro-Coerulea (Heavenly Blue). Deep azure blue flowers delicately shading to white towards the center. Pkt., 10c.

1635 Setosa (Brazilian Morning Glory). The thick stems and leaf stalks are covered with reddish brown hairs. The deeply lobed leaves are about nine inches across; flowers about two inches in diameter, of delicate texture, tinted pink with a five-pointed star of satiny pink and are followed by curious seed pods. $\frac{1}{2}$ oz., 25c; pkt., 10c.



Kochia Childsii



Marigold—Tall African

Morning Glory (Convolvulus) □ =

Major—Tall Varieties

THE Morning Glory is too well known to need a description, and one seldom finds a more satisfactory vine. The amateur gardener can be sure of a fresh supply of bright-colored, delicately-tinted flowers.

1166 Mixed, all colors. 1 lb., 80c; $\frac{1}{4}$ lb., 25c; 1 oz., 10c; pkt., 5c.

1168 Double Mixed. The flowers are double and semi-double and some are fringed. $\frac{1}{2}$ oz., 20c; pkt., 10c.

1169 Double Snow Fairy. The main charm lies in the purity and the quaintness of its blossoms which are pure white and curiously formed, really a flower within a flower. $\frac{1}{2}$ oz., 35c; pkt., 10c.

1640 KOCHIA Childsii, The New Giant (Summer Cypress, Burning Bush) □ $2\frac{1}{2}$ ft. This beautiful annual bush has rapidly come into prominence. It grows 3 to 4 feet high and resembles a close clipped ornamental evergreen. The globe-shaped or pyramidal bushes are close and compact, and of a pleasing light green color. The plant may be grown singly or in the form of a hedge or background. In early Autumn the whole bush becomes carmine or blood-red, whence the name of Mexican Fire Plant, Burning Bush, etc. Flowers small and numerous but not conspicuous. The beauty of the plant is in its shape and color. $\frac{1}{2}$ oz., 15c; pkt., 10c.

Lobelia Erinus Compacta □

THIS charming class forms compact little bushes about 6 inches high and are fairly sheeted with bloom throughout the season. Highly desirable for edgings, ribbon bedding and garden decoration as well as for pot culture. They flower the first season from seed.

1675 Bedding Queen. Dwarfest, best for ribbon bedding. Flowers deep purplish violet with clear white eye. Pkt., 10c.

The following varieties are especially effective in hanging baskets or window boxes, where a long drooping effect is desired.

1683 Speciosa. True, dark blue, dark foliage. Pkt., 10c.

1684 Sapphire. Large, deep blue flowers with a pure white eye which occupies one-third of the corolla. Pkt., 15c.

1685 Mixed Colors. $\frac{1}{8}$ oz., 15c; pkt., 5c.

Lupinus □ (2 feet)

FREE-FLOWERING, easily-grown annuals, with long, graceful spikes of rich and various colored pea-shaped flowers; valuable for mixed borders, beds and for cutting; prefers a little shade.

1705 Tall Annual Varieties Mixed. 1 oz., 30c; pkt., 5c.

1706 Dwarf Annual Varieties Mixed. 1 ft. Pkt., 10c.

(Marvel of Peru or Four O'Clocks)

THIS is another good old-fashioned flower of bushy habit, bearing hundreds of flowers during the season, of white, yellow, crimson and violet.

1780 Mixed, all sorts and colors. $\frac{1}{4}$ lb., 40c; 1 oz., 15c; pkt., 5c.

1782 Variegated Leaved Mixed. 1 oz., 15c; pkt., 5c.

1784 Dwarf Mixed. 12 in. 1 oz., 20c; pkt., 5c.



Mignonette—Giant Machel*



Myosotis



Nicotiana Affinis

Marigold (Tagetes) □

IN late summer, when many bedding plants are past their prime, Marigolds afford a wealth of color that is simply invaluable. The African varieties produce large self-colored blossoms on tall plants; the French are smaller, but the colors and markings are very interesting, some of the varieties being elegantly striped and spotted. The Single French and the Dwarf Single French Marigolds hold the chief place in the class. They are most effective in ribbon borders and as edgings to beds of tall flowers, such as Salpiglossis and Zinnias.

Double Tall African Varieties (5 feet)

- 1722 Eldorado. Extremely large and imbricated double flowers in yellow shades. $\frac{1}{4}$ oz., 20c; pkt., 10c.
- 1723 Lemon Queen. $\frac{1}{4}$ oz., 20c; pkt., 10c.
- 1724 Orange Queen. $\frac{1}{4}$ oz., 20c; pkt., 10c.
- 1725 Tall African Mixed. Large double flowers. $\frac{1}{2}$ oz., 20c; pkt., 5c.
- 1726 Tall French Mixed. Large bushes covered with a multitude of small double flowers. $\frac{1}{2}$ oz., 20c; pkt., 5c.
- 1727 Vaughan's Special Mixture Tall Marigolds. This mixture includes several varieties which we do not catalog but purchase especially for this mixture. A packet will give you flowers of enormous size in a wonderful assortment of color in shades of yellow, cream, orange, rusty brown, old gold, etc. $\frac{1}{4}$ oz., 20c; pkt., 10c.

Double Dwarf African

- 1728 Mixed (Pride of the Garden). 15 in. Immense golden yellow flowers, compact dwarf habit, forming dense bushes. $\frac{1}{2}$ oz., 25c; pkt., 10c.

Dwarf French Double Sorts (10 inch)

- 1731 Gold Striped. Velvety maroon, striped gold. $\frac{1}{4}$ oz., 20c; pkt., 10c.
- 1732 Dwarf French Double Mixed. Low bushes covered with small flowers. 1 oz., 35c; $\frac{1}{2}$ oz., 20c; pkt., 5c.
- 1735 Vaughan's Special Mixture of Dwarf Marigolds, Double and Single Varieties. These dwarf compact strains are very attractive, each plant being covered with hundreds of small bright flowers. This mixture is made up of separate colors, especially purchased for it. $\frac{1}{4}$ oz., 20c; pkt., 10c.

Single Dwarf Varieties

- 1736 Gilt Edge. Velvet maroon, edged with yellow. Pkt., 10c.
- 1737 Golden Star. Flowers have golden yellow petals with purple red streaks radiating from the centers. Pkt., 10c.
- 1746 Legion of Honor. Flowers rich golden yellow, marked with velvety brown, best for edging. $\frac{1}{2}$ oz., 20c; pkt., 5c.
- 1747 Silver King. Light sulphur-yellow with brown spots. Pkt., 10c.

- 1749 MATRICARIA Capensis (Feverfew) □ 3 ft. Neat, small double white flowers, well adapted for bedding and cutting. They are perennials in mild climate, but in our latitude are treated best as annuals. Pkt., 10c.
- 1750 Eximea, Golden Ball. 1 ft. Of compact habit, suitable for edging, with very striking double yellow flowers. Pkt., 10c.
- 1751 MATTHIOLA Bicornis (Evening-scented Stock). □ 15 in. The flowers in the morning, evening, and after a shower emit a delicious perfume perceptible at a considerable distance. Lb., \$2.00; 1 oz., 20c; Pkt., 5c.
- 1752 MAURANDIA Mixed □ = 10 ft. Slender grower and abundant bloomer very desirable for greenhouse and garden. Elegant Gloxinia-like flowers which range through white, rose, blue and purple in color. Pkt., 10c.
- 1754 MELOTHRIA Punctata □ = 10 ft. (Musk Vine). Blooms in clusters, flowers small, white and star shape, with a strong musk fragrance, leaves green, small and glossy. May be cut down to 6 inches after summer's growth, potted and taken inside. Fruit looks like tiny watermelons. Pkt., 10c.

Mignonette (Reseda) □

(6 to 12 inches)

NO garden is complete without this fragrant plant of unassuming mien. One of the principal uses is for cutting purposes and combining in bouquets with other more pretentious blossoms without its delicate odor.

- 1756 Gabriele. Very sweet; spikes very thick; one of the best for out of doors. $\frac{1}{4}$ oz., 20c; pkt., 5c.
- 1757 Golden Queen. Yellow. Pkt., 5c.
- 1758 Goliath. Foliage rich green, with bright red flowers. Flower stalks tall and strong, spikes often 7 in. long by 2 in. in diameter. $\frac{1}{8}$ oz., 20c; pkt., 10c.
- 1760 Grandiflora. Large flowered. $\frac{1}{4}$ lb., 50c; 1 oz., 20c; pkt., 5c.
- 1761 Giant White Spiral. Flowers silvery-white. $\frac{1}{4}$ oz., 15c; pkt., 5c.
- 1762 Machel. It is the best Mignonette for all purposes either outside or inside. It is an ever-bloomer, the flowers lasting until late in the fall. $\frac{1}{4}$ oz., 25c; pkt., 10c.
- 1766 Pyramidal Large-Flowering. Tall-growing variety. Pkt., 5c.
- 1767 White Pearl. Pkt., 10c.
- 1770 Mixed. Many shades and types. 1 oz., 25c; $\frac{1}{2}$ oz., 15c; pkt., 5c.

Myosotis (Forget-Me-Not)

($\frac{1}{2}$ to 1 foot)

THEY are considered among the best spring flowers and grouped with Pansies and Daisies the most lovely combination may be obtained. The tall varieties are of trailing habit and adapted to covering large patches, which they transform into a sea of blue. Responds to good treatment and flourishes in shady, moist, situations. The national flower of Belgium.

- 1787 Alpestris Blue. Trailing habit. $\frac{1}{4}$ oz., 15c; pkt., 5c.

MYOSOTIS—Continued

- 1788 Alba. White. $\frac{1}{8}$ oz., 15c; pkt., 5c.
- 1791 Victoria. The flowers are large bright azure blue, with yellow centers. The plants form neat bushes completely covered with blooms. Best for edging. Pkt., 10c.
- 1792 Mixed. $\frac{1}{8}$ oz., 15c; pkt., 5c.
- 1794 Star of Love. Distinct variety with large, beautiful blue flowers. Pkt., 25c.
- 1795 Vaughan's Early and Late Flowering. The flowers are borne on long, stiff stems. The blossoms are the most exquisite sky blue with a delicate white center. Plants may be in bloom at any time of the year. Pkt., 10c.

Nicotiana (Sweet Scented Tobacco Plant) □ (2 feet)

ONE of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia blossom but with a longer tube. The flowers open toward evening and emit a powerful perfume.

- 1920 Affinis. Produces an abundance of large, pure white flowers of delicious fragrance. If taken up in the fall and cut back and potted, they will bloom all winter. Pkt., 5c.
- 1925 Affinis Hybrida. Splendid hybrids in blue, red and rose, etc., shades. $\frac{1}{8}$ oz., 15c; pkt., 5c.
- 1926 Sanderae. A lovely hybrid tobacco of elegant branching habit, and bearing on light graceful stems great quantities of very beautiful rosy carmine flowers; a valuable border plant, from summer to autumn. $\frac{1}{8}$ oz., 15c; pkt., 5c.



Petunia—Small Flowering

See Page 34 for Description



Dwarf Nasturtiums

See Page 35 for Description

Petunias

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

Double Large Flowering Varieties

2600 Vaughan's Mixture of Double Petunias. This is a mixture of the best large flowering and fringed double petunias. Seed is saved from plants grown in pots, carefully pollinated and will produce grand flowers. Of course, everyone knows only a certain percentage of double flowers may be expected from seed, but our mixture will produce from 20 to 30 per cent of doubles, while the remainder will be choice, large single flowers. The weaker seedlings should be carefully saved, as those invariably produce the finest double flowers. 200 seeds, 30c.



Petunia—Vaughan's Best Large Flowering Single, Mixed

Petunias

Large Single Flowering Varieties

- 2608 Triumph of the Giants. The finest strain of single large-flowering Petunias; the flowers often measure 7 inches across; some of its colors cannot be found in any other mixture and nearly all the flowers are veined in contrasting colors. 250 seeds, 35c.
- 2609 Royal Purple. 150 seeds, 20c.
- 2611 Large Flowering Fringed Mixed. A superb strain of elegant, finely fringed flowers, measuring over 4 in. in diameter; remarkable variety of color. 200 seeds, 15c.
- 2612 Vaughan's Best Mixture Large Flowering Single Petunias. This mixture is made by ourselves and includes, besides the Giant Ruffled, all the colors of the large flowering and fringed sorts, and the unsurpassed Superbissima varieties, with their delicately veined throats in various colors, and their truly mammoth flowers. We are positive no other Petunia mixture can produce flowers with as wide a range of colors as Vaughan's Best. 300 seeds, 25c.

Single Small Flowering Varieties (1½ ft.)

- 2615 Carmen Sylva. Baby blue with white throat. Pkt., 10c.
- 2618 Countess of Ellesmere. Rose with white throat. Pkt., 5c.
- 2619 General Dodds. Blood-red. ¼ oz., 25c; pkt., 5c.
- 2620 Howard's Star. A beautiful free-flowering strain, color crimson-maroon with a clearly defined five-pointed star of blushing white. For bedding, baskets, vases, etc., this is exceptionally fine. ¼ oz., 40c; pkt., 10c.
- 2621 Irimitable. Blotched and striped. ¼ oz., 30c; pkt., 5c.
- 2624 Good Mixed. 1 oz., 80c; ¼ oz., 25c; pkt., 5c.
- 2625 Finest Mixed. ¼ oz., 25c; pkt., 10c.

Single Dwarf Varieties

DWARF, neat, compact bushes covered with a multitude of flowers all summer long, valuable for edging and formal bedding.

- 2632 Improved Rosy Morn. The plants are bushy and compact, the medium size flowers, produced in great abundance throughout the entire summer and fall are of a most pleasing clear pink, contrasted by a broad white throat. A splendid sort for porch boxes, pots and beds. 300 seeds, 25c.
- 2634 Dwarf Inimitable. Regular white stars on deep old rose ground. Very effective in masses. ¼ oz., 30c; pkt., 10c.
- 2636 Snowball. A fine compact sort, producing its pure satiny-white flowers throughout the entire season. ¼ oz., 50c; pkt., 15c.
- 2637 Vaughan's Special Mixture of Dwarf Small Flowering Varieties includes all the above and many others and will be a revelation to those who plant a packet in furnishing an unending supply of flowers in a most bewildering combination of colors as long as the summer lasts. ¼ oz., 40c; pkt., 10c.

Poppies

Plant the seed in succession two weeks apart for a continuous bloom all summer. Mix seed with sand before sowing so as to distribute the seed thinly and evenly.

Single Annual Poppies

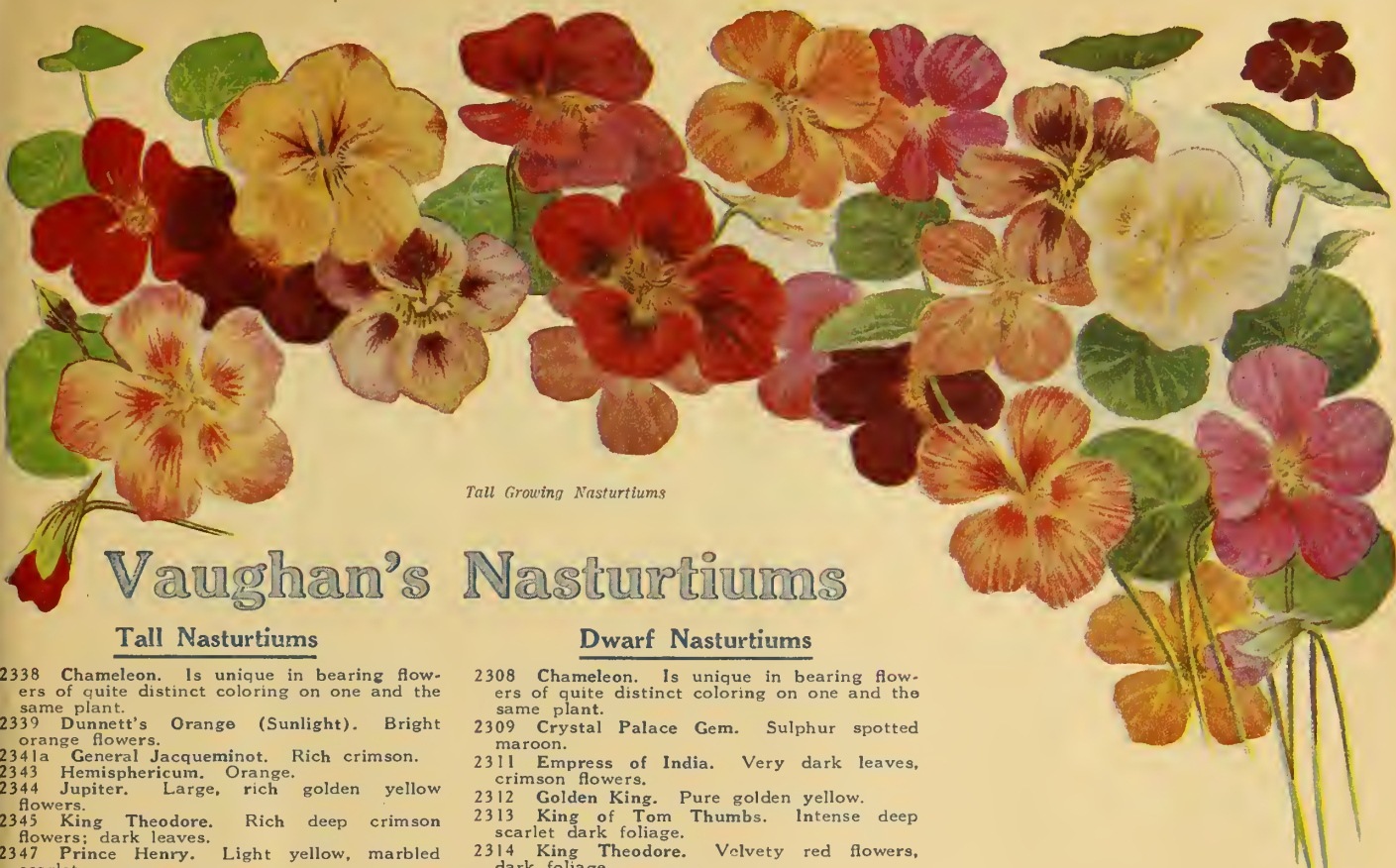
- 2782 Bride. Very large pure white, perfectly formed flowers. Pkt., 5c.
- California Poppy. See Escholtzia.
- 2783 Danebrog or Danish Flag. Brilliant scarlet flowers, with a silvery spot on each petal, forming a white cross. Pkt., 5c.
- 2783a Flanders Poppy. The scarlet poppy of the fields of Flanders. The official flower of the A. E. F. Pkt., 10c.
- 2785 King Edward. Flowers deep scarlet, shaded crimson, with a large black blotch at the base of each petal. Pkt., 5c.
- 2788 Tulip (Glaucum). Large tulip-shaped flowers of dazzling scarlet; not unlike a Scarlet von Thol Tulip. Pkt., 10c.
- 2790 Shirley, Silk or Ghost. The beautiful satiny flowers ranging in color from delicate shades of rose, apricot, salmon-pink, and blush to glowing crimson, all with white centers. Oz., 30c; lb., \$3.00; pkt., 10c.
- 2791 Miss Sherwood. Flowers shining, satiny white, the half of the corolla being a silky chamois rose. Pkt., 5c.
- 2792 Single Mixed. Oz., 20c; lb., \$1.35; pkt., 5c.
- 2795 Vaughan's Special Mixture, Single Poppies. This mixture includes all the above choice of Poppies and many other kinds not listed. It is really extra choice. ¼ lb., 70c; 2 oz., 40c; 1 oz., 25c; pkt., 10c.

Double Annual Poppies

- 2800 American Flag. Flowers very large, snow white, scarlet bordered. ½ oz., 20c; pkt., 5c.
- 2801 Fairy B'ush. The flowers have the effect of large feathery balls, overcast with a rosy shade. ¼ oz., 20c; pkt., 5c.
- 2803 Giant Double Yellow. Pkt., 10c.
- 2804 Giant Double Pink. ½ oz., 20c; pkt., 10c.
- 2805 Giant Double Cardinal Red. Pkt., 10c.
- 2807 Giant Double Lilac. Pkt., 10c.
- 2807a Giant Double Salmon. Pkt., 10c.
- 2807b Giant Double Heliotrope. Pkt., 10c.
- 2807c Giant Double Plum Violet. Pkt., 10c.
- 2811 White Swan. Fringed double white. ½ oz., 20c; pkt., 5c.
- 2812 Carnation-Flowered Mixture of Double Poppies. Large sized flowers of all shades, many striped. 1 oz., 25c; pkt., 5c.
- 2813 Peony-Flowered Mixture. Double ball-shaped flowers of gigantic size. 1 oz., 25c; pkt., 5c.
- 2814 Rheas Fl. Pl. Double French Mixture. Double form of the Shirley type. 1 oz., 25c; pkt., 5c.
- 2815 Double Mixed. Many kinds and colors. ½ oz., 15c; pkt., 5c.
- 2828 Vaughan's Special Mixture, Double Poppies. This includes all the above sorts, and will produce charming flowers in an endless variety of colors. ¼ lb., 85c; 1 oz., 30c; ½ oz., 20c; pkt., 10c.
- 2796 Vaughan's Special Mixture Double and Single Poppies. Comprises not only all the double and single Poppies described, but also a number of other sorts especially purchased for this mixture, including some entirely new ones. 1 oz., 30c; ½ oz., 20c; pkt., 10c.



Poppy—Shirley



Tall Growing Nasturtiums

Vaughan's Nasturtiums

Tall Nasturtiums

Dwarf Nasturtiums

- 2338 Chameleon. Is unique in bearing flowers of quite distinct coloring on one and the same plant.
- 2339 Dunnett's Orange (Sunlight). Bright orange flowers.
- 2341a General Jacqueminot. Rich crimson.
- 2343 Hemisphericum. Orange.
- 2344 Jupiter. Large, rich golden yellow flowers.
- 2345 King Theodore. Rich deep crimson flowers; dark leaves.
- 2347 Prince Henry. Light yellow, marbled scarlet.
- 2351 Twilight. Bright yellow, marbled salmon rose.
- 2352 Vesuvius. Salmon rose, dark leaved.
- 2354 Golden Cloth. Scarlet flowers with yellow foliage. Price, each of the above, pkt., 5c; oz., 15c.
- 2380 Vaughan's Special Mixture of Tall Nasturtiums. We call especial attention to this mixture. In it will be found all the choicest colors of all the tall Nasturtiums, the rich, velvety Lobb's varieties, Canary Bird Creeper and the new variegated-leaved varieties. 1 lb., \$1.50; ¼ lb., 40c; 1 oz., 15c; pkt., 10c.

- 2308 Chameleon. Is unique in bearing flowers of quite distinct coloring on one and the same plant.
- 2309 Crystal Palace Gem. Sulphur spotted maroon.
- 2311 Empress of India. Very dark leaves, crimson flowers.
- 2312 Golden King. Pure golden yellow.
- 2313 King of Tom Thumbs. Intense deep scarlet dark foliage.
- 2314 King Theodore. Velvety red flowers, dark foliage.
- 2320 Regelianum. Rich crimson.
- 2323 Vesuvius. Salmon, dark leaved.
- 2324 Yellow.
- 2325 Golden Cloth. The foliage is of bright yellow, while the flowers are intense scarlet. Price, each of above, ¼ lb., 50c; oz., 15c; pkt., 5c.
- 2330 Dwarf Mixed. 1 lb., \$1.00; ¼ lb., 30c; 1 oz., 10c; pkt., 5c.
- 2335 Vaughan's Special Mixture of Dwarf Nasturtiums. Dwarf Nasturtiums are most admirably adapted to beds and borders. Vaughan's Special Mixture of Dwarf Nas-

turtiums will give a larger variety of colors in even proportions than any other Nasturtium mixture, for it is put up by ourselves from named sorts, and also contains a large share of the Liliput Nasturtium and of the dwarf Chameleon which have the richest and most varied combination of colors ever produced, showing odd colors hitherto unknown among flowers. 1 lb., \$1.50; ¼ lb., 45c; 1 oz., 15c; pkt., 10c.



Phlox Drummondii

PHLOX

Ricinus (Castor Bean) □

THE Phloxes are the showiest and most easily raised of all Annuals. We know of nothing which produces such a continuous supply of the most attractive flowers in a most wonderful range of colors. All the tints of the rainbow are represented with all possible variations of stripes, veins and eyes of contrasting shades. Seed should be sown in the ground as soon as danger of frost is over and in a few weeks the beds are a blaze of glory.

Nana Compacta Dwarf (8 inch)

THESE are much superior to the other Phloxes for ribbon bedding or borders. The plants grow very symmetrical in neat little bushes, covered with flowers during the whole summer and fall.

STATELY, strong growing plants, with very ornamental foliage, well adapted as center plants of groups of Cannas, Dahlias, etc.

2936 Zanzibariensis Mixed. 10 to 12 ft. The ornamental leaves, beautifully lobed, are 2½ to 4 ft. across. Each plant makes a perfect pyramid of foliage. 1 oz., 15c; pkt., 5c.

Grandiflora Varieties □ (1 foot)

- This section has beautiful, round-petaled flowers, which overlap each other.
- 2660 Alba. Pure white.
- 2661 Alba Oculata. White with dark eye, a good contrast.
- 2663 Brilliant. Rose with dark eye.
- 2664 Carnea. Flesh color.
- 2665 Chamois rose with white eye; a great favorite.
- 2666 Coccinea. Fiery scarlet.
- 2668 Coerulea Striata. Blue striped.
- 2669 Crown Prince. Salmon scarlet.
- 2670 Isabellina. Yellow.
- 2671 Kermesina Splendens. Vivid crimson, with white eye.
- 2676 Rosea. Pink.
- 2681 Violet.
- All the above, ¼ oz., 30c; 200 seeds, 10c.
- 2685 Splendid Mixture. 1 oz., \$1.25; ¼ oz., 35c; 250 seeds, 10c.
- 2690 Drummondii Mixed. Good Mixture. Oz., 85c; ¼ oz., 25c; pkt., 5c.
- 2695 Cuspidata Mixed (Star of Quedlinburg). Mixture of star-shaped flowers. ¼ oz., 25c; pkt., 10c.
- 2727 Semi-Double Varieties Mixed. Pkt., 15c.

- 2735 Fireball. Blood-red. ½ oz., 35c; pkt., 15c.
- 2740 Snowball. Pure white. ¼ oz., 35c; pkt., 15c.
- 2760 Vaughan's Special Mixture Ph'ox. Contains all the above varieties and several other strains only to be had in this mixture, and will delight and astonish all with its extensive variety of colors. Over 30 different shades will be produced from a single package. 1 oz., \$1.60; ¼ oz., 50c; ½ oz., 30c; 250 seeds, 15c.

Portulaca (Rose Moss) □ (6 inch)

THIS plant will grow and bloom profusely in a dry, hot situation, where almost any other plant would soon die. Easily transplanted. In sowing mix the seed with dry sand to insure an even distribution. Sow in May when the ground is thoroughly warmed through, and very soon one of the loveliest of floral carpets will appear.

- 2850 Single Mixed. 1 oz., 70c; ¼ oz., 20c; pkt., 5c.
- 2860 Double Good Mixture. ½ oz., 30c; pkt., 5c.
- 2865 Double Best Mixture. ½ oz., 50c; pkt., 10c.

2910 PYRETHRUM Aureum (Golden Feather) □ 6 in. One of the best plants for edging, grown for its beautiful yellow foliage. Most successfully treated as an annual. Pkt., 10c.



Phlox Drummondii



Salpiglossis

Salpiglossis □ (2½ feet)

UNDOUBTEDLY one of the most attractive annuals and should be in every garden. The blossoms are tube-shaped much like a Petunia but rivaling the latter in the beautiful colors displayed. Each flower is veined with a glint of gold, and it is the only flower to our knowledge possessing this odd characteristic. The Salpiglossis is deservedly known as the Orchid of Hardy Annuals. If you are not familiar with this, try one package and we know your garden will always contain it after you have seen it.

- 2953 **Gloxiriaflora Mixed** □ 2½ ft. A special selection of the Painted Tube Tongue made by a French hybridizer. Flowers large and fancifully veined in contrasting colors. Pkt., 15c.
- 2954 **Mixed**. Good quality. ¼ oz., 20c; pkt., 5c.
- 2955 **Emperor Mixed**. Large improved strain, complete range of colors. ⅜ oz., 20c; pkt., 10c.
- 2960 **Vaughan's Special Mixture**. This mixture is put up by ourselves of separate varieties and is without doubt the best mixture obtainable. ¼ oz., 35c; pkt., 15c.

Salvia Splendens (Scarlet Sage) □

THE *Salvia Splendens* is a standard bedding plant that keeps the garden bright with color until late in autumn. This plant lends itself to many uses; it makes a good pot plant, does well in window boxes, and is useful for cutting. Its best use, however, is as a hedge or border plant, for brilliant color effect.

- 2964 **Fireball**. 1½ ft. The bushy plant is covered with a great number of flower spikes of the most fiery scarlet. The plants branch freely, the side shoots often producing 4 to 6 flowering spikes. Pkt., 15c.
- 2965 **Clara Bedman or Bonfire**. 2 ft. The spikes grow erect and stand clear above the foliage. The plants form handsome globular bushes. ⅜ oz., 40c; pkt., 10c.

Scabiosa (Mourning Bride) □

(2½ feet)

COMMONLY known as the Pincushion Plant. The flower stems are long and the blossoms keep well in water. The soft shades predominate. When given plenty of room and the seed vessels are kept regularly picked off, it will last through the whole of the summer. Owing to its sweetness the bees are very fond of it and its floral flavors also attract all the most beautiful types of butterflies to the neighborhood.

Large Flowering Double

- | | |
|--------------------|-------------------|
| 3010 Snowball | 3016 Azure Fairy |
| 3012 Golden Yellow | 3017 Cherry Red |
| 3014 Flesh | 3018 Black Prince |
| 3015 Fiery Scarlet | 3019 Rose |
- Each of above, per pkt., 10c.
- 3020 **Mixed**. The above and others. ½ oz., 20c; pkt., 5c.
- 3025 **Vaughan's Special Mixture**. Many new colors have been purchased for this, our latest special mixture and we are sure the delicate and soft colors will be admired by all our friends who plant a packet of this seed. ¼ oz., 25c; pkt., 10c.



Salvia Splendens

Stocks

Large Flowering □

THE Stocks represent all the desirable qualities of a flower. The plants have good habit, fine, dull or glossy leaves. The flowers appear on long, stiff stalks like small rosettes, are exceedingly fragrant and range through a most complete scale of all the soft and distinct shades.

Dwarf German 10 Weeks (1 foot)

- This class is a favorite for outdoor bedding.
- 3060 **Fine Mixed**. ⅜ oz., 20c; pkt., 5c.
- 3070 **Best Mixed**. ¼ oz., 35c; pkt., 10c.

Giant Perfection Stocks

"Cut and Come Again" (1½ feet)

- Useful for outdoor bedding as well as for pots or cut-flower. They throw out numerous side branches, all bearing very double, fragrant flowers.
- | | |
|--------------------|-----------------|
| 3075 White | 3080 Scarlet |
| 3076 Canary Yellow | 3082 Light Blue |
| 3078 Pink | 3084 Dark Blue |
- Each of the above. Pkt., 10c.
- 3085 **Giant Perfection Mixed**. ⅜ oz., 40c; pkt., 10c.

Bismarck Stocks (2½ feet)

IF sufficient room is given, the plants develop to enormous dimensions, forming magnificent bushes, with long and large flower stalks. Blooms after the ten weeks' stocks have ceased.

- 3105 White
 - 3106 Lilac
 - 3108 Gold Ball
- Each of the above, pkt., 15c.
- 3512 **THUNBERGIA Alata, Mixed (Black-Eyed Susan)** □ = 5 ft. Beautiful trailing plants for hanging baskets and lawn vases as well as fences and verandas. ¼ oz., 25c; pkt., 10c.

Vinca Rosea (Periwinkle) +

(1 foot)

ORNAMENTAL free-blooming plants, with dark laurel-like foliage and handsome pink and white flowers. Seed should be sown early and then the plants will bloom the first summer. They can be taken up in the fall like *Chrysanthemums*, potted, and kept in bloom through the winter. Seed germinates slowly.

- | | |
|---------------------------|---------------------|
| 3580 White | 3582 White with Eye |
| 3581 Delicata. Soft pink. | 3584 Pink |
- Each of the above. Pkt., 10c.
- 3585 **Rosea Mixed**. ¼ oz., 25c; pkt., 10c.

Wallflower (Goldlack) ÷ (1½ ft.)

WALLFLOWERS should be better known. Their adaptability for pot culture and out-door bedding and the peculiar sweet fragrance of their flowers should win favor. The oriental coloring of the flowers in their rich reds and yellows is very effective. They are easily grown and last long as cut flowers. Not hardy in the northern states, should be wintered in cold frames.

- 3615 **Single Mixed**. ¼ oz., 15c; pkt., 5c.
- 3620 **Double Mixed**. Pkt., 15c.
- 3622 **Single Annual Mixed**. Pkt., 10c.



Scabiosa

Sunflower □

THESE comprise plants of majestic growth and immense showy flowers, suitable for shrubberies, woodlands, wild gardens and subtropical gardening; the dwarfier kinds, with smaller flowers, are charming when grouped in mixed flower borders. Excellent for cutting.

Large Flowered Tail

- 1528 **Californicus Fl. Pl.** 5 ft. Double dark yellow. 1 oz., 10c; pkt., 5c.
- 1529 **Chrysanthemum Flowered Double**. 6 ft. Golden yellow flowers. Pkt., 10c.
- 1530 **Double Mixed**. 1 oz., 20c; pkt., 5c.
- 1531 **Globosus Fistulosus Fl. Pl.** 6 ft. Double globe or dahlia sunflower. Flowers a rich saffron color. 1 oz., 20c; pkt., 5c.
- 1533 **Nanus Flore Pleno**. 2½ ft. Double dwarf, beautiful for massing in beds. 1 oz., 20c; pkt., 5c.
- 1534 **Russian Mammoth**. Single, of gigantic dimensions. 1 oz., 10c.

Miniature-Flowered Sunflowers

THE following varieties of *Helianthus cucumerifolius* form spreading bushes with small graceful foliage and bear a multitude of small elegantly formed flowers, which are borne for a long time in succession, and are invaluable as cut-flowers.

- 1536 **Stella**. Large golden yellow petals, small dark center. Pkt., 5c.
- 1539 **Doub'e Hybrids**. Double and semi-double flowers. Pkt., 10c.
- 1540 **Liliput, Baby Sunflower**. 6 to 8 in. The plants are of a somewhat creeping growth, similar to those of *Verbena*. Flowers are single, bright yellow, dark disc. Pkt., 10c.

- 1541 **Vaughan's Special Mixture**. Includes all the above of *cucumerifolius* varieties. ¼ oz., 20c; pkt., 10c.



- 1542 **Vaughan's Special Mixture** of all the single and double sunflowers. ½ oz., 25c; pkt., 10c.

Wild-Cucumber (Echinocystis

Lobata)

3760 This is the quickest growing climber on our list. Grows wild self-sown, in many parts of the West. Should be sown late in the fall or very early in the spring. It is thickly dotted over with pretty, white fragrant flowers, followed by an abundance of ornamental and prickly seed pods. ¼ lb., 75c; 1 oz., 25c; ½ oz., 15c; pkt., 5c.

3775 **WILD FLOWER GARDEN**. A mixture of easily grown annuals, for the decoration of children's gardens, prairies, shrubberies, or roadside planting, etc. 1 lb., 85c; ¼ lb., 25c; 1 oz., 10c.



Vaughan's Pansies

- 2500 Adonis. Light blue with white center. Pkt., 15c.
 2502 Azure Blue. A beautiful shade of sky-blue. Pkt., 15c.
 2503 Beaconsfield. Upper petals light lavender, lower ones a deep rich purple. $\frac{1}{8}$ oz., 50c; pkt., 15c.
 2504 Boulogne Giant Mixture. The flowers are of the largest size, great substance, fine form and are borne on particularly strong stems. They are mostly 3 and 5 blotched, delicately veined, rich colors. 100 seeds, 50c.
 2505 Bugnot. Shades of red, bronze and reddish cardinal. Pkt., 20c.
 2506 Cassiers 3 and 5 Blotched Mixed. Mostly light shades with dark blotches. $\frac{1}{8}$ oz., 60c; pkt., 20c.
 2507 Coal Black. A jet black of truly giant size. Pkt., 15c.
 2507a Colossa Venosa. Light, veined shades, large flowers. Pkt., 20c.
 2508 Emperor Francis Joseph. Pure white, large blotch of brilliant violet blue on each petal. Pkt., 20c.
 2508a Emperor William. Dark navy blue. $\frac{1}{8}$ oz., 50c; pkt., 15c.
 2508b Fiery Faces. Yellow and red. Pkt., 15c.
 2509 Mad. Perret. Lovely shades of pink and rose. $\frac{1}{8}$ oz., 50c; pkt., 15c.
 2510 Marechal Niel. Delicate pleasing, cream color. Pkt., 15c.
 2511 Masterpiece (New Giant Curled or Spencer Pansies). The petals are crimped and curled so the flowers appear double. $\frac{1}{8}$ oz., 70c; pkt., 25c.

ORCHID FLOWERED

- 2512 Orchid Flowered, Andromeda. Delicate apple-blossom. Pkt., 20c.
 2513 Almond Blossom. Delicate rose. Pkt., 20c.
 2515 Mammoth. An odd combination of light greenish yellow ground, with deep purple blotches. Pkt., 20c.
 2517a Special Mixture of Orchid Flowered Varieties. Including only pretty tints and combinations of cream, primrose, and pale mauve, the flowers being exquisitely frilled and veined in contrasting colors. Pkt., 25c.

- 2517 Orchid Flowered Mixed. Rare light shades, large frilled flowers, very attractive. Pkt., 15c.
 2518 Paris Market. An improved strain of Trimardeau, with better flowers and more compact habit. $\frac{1}{8}$ oz., 40c; pkt., 10c.
 2519 Pink. Fine shades of pink, same as Hydrangea. $\frac{1}{8}$ oz., 50c; pkt., 15c.
 2521 President McKinley. Five blotched yellow. Pkt., 15c.
 2523 Purple. Very large, rich deep purple. Pkt., 15c.
 2524 Prince Bismarck. Light brown colors. Pkt., 15c.
 2525 Pretiosa. Each petal has a large blotch of deep violet on crimson background, with white edge. Pkt., 15c.
 2526 Rosy Morn. A bright purplish crimson margined with a clear white edge. Pkt., 15c.
 2526a Ruby Red. Pkt., 15c.
 2527 Striped. Mahogany, striped and flaked white. Pkt., 15c.
 2528 Trimardeau. Mixed. $\frac{1}{8}$ oz., 40c; pkt., 10c.
 2528a Victoria. Claret red. Pkt., 15c.
 2529 Violet Blue. A very pleasing shade. $\frac{1}{8}$ oz., 40c; pkt., 15c.
 2529a Vulcano. Deep red with five large blotches, very fine. Pkt., 20c.
 2530 Pure White. Pure white without blotches. $\frac{1}{8}$ oz., 50c; pkt., 15c.
 2531 White, With Eye. Very large. $\frac{1}{8}$ oz., 45c; pkt., 15c.
 2532 Pure Yellow. Golden yellow without blotches. $\frac{1}{8}$ oz., 50c; pkt., 15c.
 2533 Yellow, With Eye. Immense flowers. $\frac{1}{8}$ oz., 45c; pkt., 15c.
 2534 Chicago Parks Bedding Mixed. Great diversity of colors, free flowering, blossoms slightly smaller than the Giant sorts. $\frac{1}{8}$ oz., 60c; $\frac{1}{8}$ oz., 40c; pkt., 10c.

GIANT PANSIES

Flag

Collection

2535 Red, White and Blue, Mixed. Pkt., 20c.

1 packet each Ruby Red, Pure White, Violet Blue. Prepaid for 35 cents.

SPECIAL MIXTURES

- 2540 Vaughan's Giant Mixture. Embraces, besides most of the above shades and colors, five special strains not listed elsewhere in this catalog and which can be had only in this and our International Mixture of Pansies. It includes the richest reds, coppers and bronzes, together with the most delicate rose pink shadings and the Masterpiece strain with its delicate veining and ruffled petals. $\frac{1}{8}$ oz., \$1.00; 1 pkt., 250 seeds, 25c; 125 seeds, 15c.
 2545 Vaughan's International Mixture. This is, and always has been, literally a World's Best Mixture. While searching for the best in every land, we are not satisfied to accept any mixture simply because of its varied colorings, but flowers must come near a high standard of form which we have set, must be composed of well rounded, perfect shaped flowers, must show a wide range of coloring and markings, must have thick velvety petals with fluted or semi-double edges and must stand erect on good stiff stems with a good healthy growth of plant. While every solid color is represented, there are also all the possible variations of each one of these. 3 pkts. (600 seeds), 65c; 5 pkts. (1000 seeds), \$1.00; $\frac{1}{8}$ oz., \$1.75; 200 seeds, 25c.



VIOLA Cornuta (Tufted Pansies)

- Flowers all summer from seed sown in early Spring, and are valuable for edging beds and borders. Require protection during winter.
 2546 Alba. Large white flowers. Pkt., 10c.
 2547 Admiration. Rich violet blue flowers. Pkt., 10c.
 2548 Blue Perfection. Pale blue flowers. Pkt., 10c.
 2549 Lutea Splendens. Bright yellow. Pkt., 10c.
 2553 Papilio. Flowers soft lavender-purple, lower petals flushed white. Pkt., 15c.
 2554 Vaughan's Improved Scotch Pansies. This new strain produces flowers with "faces," the colors range from pale lavender to deep rich purple, many charming intermediate shades. Pkt., 25c.
 2555 Cornuta Mixed. Pkt., 10c.



Sunflower Cucurbitifolius

Verbena

VERBENA is one of the most popular garden annuals and lends itself willingly to many uses. For beds, borders, mounds, vases and window boxes it is particularly fine, and is frequently used for an undergrowth to tall plants like lilies. The clusters of showy and often fragrant flowers are borne in constant succession from June until frost.

Hybrida

- 3525 Defiance. A real intense scarlet. Pkt., 10c.
 3526 Dark Blue with White Eye. Very showy. Pkt., 10c.
 3529 Striped. Mostly light colors with red and blue stripes. Pkt., 10c.
 3535 Good Mixed. 1 oz., 80c; ¼ oz., 15c; pkt., 5c.

Mammoth Types

The trusses and individual flowers are of the largest size, of brilliant colors; free blooming and of vigorous habit.

- 3542 White. Dense heads of finely-shaped white flowers. Pkt., 10c.
 3544 Mayflower. Various shades of pink. Pkt., 10c.
 3545 Striped, White on Red Ground. Pkt., 10c.
 3547 Firefly. Intense red. ¼ oz., 35c; pkt., 10c.
 3549 Purple. Dark purple. Pkt., 10c.
 3550 Mammoth Mixed. Producing in handsome umbels flowers of large size in beautiful shades of white, rose, scarlet, blue, purple. ¼ oz., 40c; pkt., 10c.
 3555 Vaughan's Best Mixture. It includes the dazzling Defiance, the Mammoth White, Purples, striped and all the Auricula flowered varieties with their large umbels of white-eyed flowers. We feel perfectly safe in stating this mixture of Verbenas will eclipse every other strain offered by any other house, and it will produce flowers that will delight all beholders throughout summer. 1 oz., \$3.00; ¼ oz., 50c; lge. pkt., 25c; pkt., 15c.
 3556 Dwarf Mixed. 6 in. Good for edging, making an even carpet of blossoms and leaves. Pkt., 15c.
 3557 Citriodora (Lemon Scented Verbena) ÷ 3 ft. An old favorite with fragrant evergreen leaves. It is a low-growing tender plant and may be grown in the garden in summer and in pots in winter, and the leaves dried and laid among linens. Pkt., 10c.



Verbena—Vaughan's Best Mixed

Zinnias

THESE attractive and decorative hardy annuals are most desirable plants for mixed borders or bedding purposes, and are remarkable for the profusion and duration of their flowers, which are extremely useful for bouquets.

Elegans Fl. Pl. Double Flowered □ (2½ feet)

- 3702 Appleblossom. Pkt., 10c.
 3703 Burnt Orange. Pkt., 10c.
 3704 Isabellina. Cream Yellow. Pkt., 10c.
 3705 Golden Yellow 3708 Old Rose
 3706 Flesh Color 3709 Scarlet
 3707 Rose
 3710 Jacqueminot. Blood-red. Pkt., 10c.
 3712 Zebra Striped. Pkt., 10c.
 Each of above, except where noted, ¼ oz., 25c; pkt., 5c.
 3714 Double Good Mixed. 1 oz., 40c; ½ oz., 25c; pkt., 5c.

New Giant Flowered or Colossal (3 feet)

THE flowers are of enormous size, thickly set with velvety petals. The plants are healthy, vigorous, branching freely, and make excellent material for groups or cutting.

- 3715 White 3720 Scarlet
 3716 Golden Yellow 3721 Violet
 3717 Sulphur Yellow 3722 Purple
 3718 Flesh Color 3723 Pink Shades
 3719 Orange 3724 Cream
 Each of the above, ¼ oz., 30c; pkt., 10c.
 3725 Vaughan's Colossal Zinnias, Mixed. The flowers are gigantic in size and deep and velvety in appearance, exhibiting all the new and interesting colors. ¼ oz., 30c; pkt., 10c.
 4040 ZINNIA Buttercup. Pleasing deep primrose which holds its color in bright sunshine. Pkt., 25c.
 4041 ZINNIA New Dahlia Flowered. The plants of this new race are very sturdy and produce many flowers with stout stems. In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers in full bloom often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance, the flowers compare favorably with the Show Dahlias. We offer this in Mixture; a wide range of color including Golden Yellow, Burnt Orange, Old Rose, Mauve, Cerise, and an endless range of pleasing shades of pink, from Rose Pink to Tyrian Rose, and many bicolor shades, describable only with the aid of a color chart. Pkt., 25c.
 4043 ZINNIA Giant Picotee. Beautiful double flowers in orange, flesh, lemon, pink and cerise, each petal being distinctly tipped with various shades of dark, resembling the Picotee Carnations. All colors mixed. Pkt., 25c.
 4044 ZINNIA Picotee, Golden Pheasant. A variety of the above, having flowers of a deep orange with maroon tips. Pkt., 25c.
 4050 ZINNIA "Vaughan's Special" Mixture. This mixture contains everything that is good, new, choice and rare in Zinnias, including the Colossal Dahlia-Flowered, Picotee, Cactus and Savoia types, and is sure to produce the most pleasing and satisfactory results. 3 Pkts. for 65c; Pkt., 25c.



Zinnia—Colossal Mixed

Early Flowering Spencer

Sweet Peas

A NEW race of Sweet Peas, having the large waved flowers of the Spencer type, but flowering fully one month earlier, they also continue to flower for a much longer period.

- 3960 Amethyst. This is the nearest to Royal Purple in color in the early class. Pkt., 10c.
 3961 Apricot Orchid. A delightful and charming shade. Pkt. (25 seeds), 10c.
 3961a Asta Ohn. A clear lavender. Pkt., 15c.
 3962 Aviator. Scarlet. Pkt., (25 seeds), 10c.
 3963 Bohemian Girl. Deep pink, standard orange blush. Pkt. (25 seeds), 10c.
 3964 Blue Bird. A charming mid-blue self. Pkt., 15c.
 3965 Cherry Ripe. Glowing cherry or salmon-cerise self. Pkt., 15c.
 3967 Cream. Identical in color and size of blossom to Dobbie's Cream. Pkt. (25 seeds), 10c.
 3968 Fire King. Deep orange scarlet. Pkt., 10c.
 3969 Gorgeous. Charming soft salmon rose. Pkt. (25 seeds), 15c.
 3970 Heather Bell. The color is a rich but pleasing mauve. Pkt. (25 seeds), 10c.
 3971 Hercules. Of the same lovely shade of pink as Countess Spencer. Pkt., 10c.
 3973 Melody. Rose pink on white ground. Pkt. (25 seeds), 10c.
 3974 Miss Louise Gude. One of the largest and best in the shell pink class. Pkt., 10c.
 3975 Morning Star. Deep orange scarlet or flame color in standard, with rich orange pink wings. Pkt. (25 seeds), 10c.
 3976 Mrs. A. A. Skaach. Flowers bright shell pink. Pkt. (25 seeds), 10c.
 3977 Mrs. Chas. A. Zvolanek. One of the largest and best clear lavenders. Pkt., 10c.
 3978 Mrs. M. Spanolin. Black-seeded white. Pkt. (25 seeds), 10c.
 3979 Mrs. William Sim. Apricot pink. Pkt., 10c.
 3980 Othello. Rich deep maroon. Pkt. (25 seeds), 10c.
 3981 Pink and White. Blanche Ferry type, extra. Pkt. (25 seeds), 10c.
 3983 Robin Red Breast. Pkt., 25c.
 3984 Rose Charm. Bright rose, same color as Rosabelle in the late spencer class. Pkt., 25c.
 3985 Rose Queen. A splendid commercial pink. Pkt., 15c.
 3986 Song Bird. Pale pink with a distinct tint of buff. Pkt. (25 seeds), 10c.
 3987 Songster. Giant early lavender. Pkt., 10c.
 3989 Snow Flake. This is the best early-flowering white-seeded Spencer. Pkt., 10c.
 3990 Snow Storm. A good early pure white for late planting. Pkt. (25 seeds), 10c.
 3991 The Beauty. The color is a very dark fiery rose. Pkt. (25 seeds), 10c.
 3992 Venus. Standard white, slightly blushed pink wings. Pkt. (25 seeds), 10c.
 3993 Warbler. Rich mauve purple. Pkt., 10c.
 3994 Wedgewood. Clear blue. Pkt. (25 seeds), 10c.
 3995 White Orchid. White flowers of good substance. Pkt. (25 seeds), 10c.
 3996 Yarrowa. The color on opening is rose, changing as the flower develops to a light pink standard, tinted buff with blush wings. Pkt. (25 seeds), 10c.
 3997 Zvolanek's Blue. Brightest blue, or Blue Jay color. Pkt., 10c.
 3998 Zvolanek's Rose. One of the best rose pinks. Pkt., 25c.
 3999 MIXED Winter Flowering Spencer. Many kinds. Pkt. (25 seeds), 10c.

Feb. 22, 1920

Dear Sirs:

I am anxious to get the seeds as soon as possible having found your Zinnias the most beautiful I have ever grown, and the Burnt Orange a particularly fine color.

Yours very truly,

MARGARET L. GAGE.

Flag Collection

Spencer Sweet Peas

No. 1 1 pkt. each,
King Edward
VII. (Red), Con-
stance Hinton
(White), Wedge-
wood (Blue),
prepaid for 25c.

No. 2 Mixed Red,
White and
Blue.
Oz. 30c, pkt. 10c.



Vaughan's SWEET PEAS

Spencer Varieties

- 3900 *Agricola*. Fine large white slightly flushed lilac. Pkt. (25 seeds), 10c.
3901 *America*. Carmine stripe on white. Pkt. (25 seeds), 10c.
3902 *Annie Bownass*. Standard and wings deep pure pink, flushed salmon, a coppery salmon. Pkt., 15c.
3903 *Appleblossom*. Standard rose, showing veins of deeper rose. Wings light carmine; the whole color overspreads on primrose. (25 seeds), 10c.
3904 *Aurora*. Orange rose striped on white. Pkt. (25 seeds), 10c.
3905 *Blanche Ferry*. Standard bright carmine rose and wings white, suffused and tinted with light pink. Pkt., (25 seeds), 10c.
3906 *Blue Monarch*. Dark blue. Pkt. 10c.
3907 *Blue Picotee*. White, edged violet blue. Pkt. (25 seeds), 10c.
3908 *Bolton's Orange*. Rich orange salmon self. Pkt., 15c.
3909 *Constance Hinton*. The best white for out-door planting. Of enormous size. Pkt., 15c.
3910 *Countess Spencer*. Clear pink deepening somewhat towards the edge. Pkt. (25 seeds), 10c.
3911 *Dainty*. Large white flower edged with clear rose pink. Pkt. (25 seeds), 10c.
3912 *Dobbie's Cream*. Deep cream or primrose. Pkt., 15c.
3913 *Dobbie's Lavender Geo. Herbert*. Improved Florence Nightingale opens a little mauvish but clears to pure lavender. Pkt. 15c.
3914 *Edith Taylor*. Bright salmon rose self. A new shade between salmon and shell pink. Pkt. (25 seeds), 10c.
3915 *Elfrida Pearson*. Large deep blush waved, buds and young flowers having a bronze sheen. Pkt., 15c.
3916 *Empress Eugenie*. Soft lavender flake on white. Pkt. (25 seeds), 10c.
3917 *Fiery Cross*. A new shade of red, turkey or military red. Pkt., 15c.
3918 *George Herbert*. Bright rosy carmine. Pkt. (25 seeds), 10c.
3919 *Hawlmarmk Pink (New)*. The most wonderful and glorious pink. Pkt., 25c.
3920 *Hawlmarmk Lavender (New)*. Purest lavender. Pkt. (12 seeds), 35c.
3921 *Hercules*. A rich pink flower, waved. Pkt., 15c.
3922 *Illuminator*. Bright salmon cerise sparkling with orange. Pkt., 15c.
3923 *Jean Ireland*. Beautiful cream color edged with deep pink. Pkt. (25 seeds), 10c.
3924 *King Edward VII.* Rich waved crimson. Pkt. (25 seeds), 10c.
3925 *King Manoel*. Giant chocolate maroon self. Pkt. (25 seeds), 10c.
3926 *King White*. Produces gigantic flowers absolutely pure white. Pkt. (25 seeds), 10c.
3927 *Loyalty*. Blue striped, waved. Pkt. (25 seeds), 10c.

- 3928 *Margaret Atlee*. Apricot pink on cream ground. Pkt. (25 seeds), 10c.
3929 *Margaret Madison*. Clear pale blue self. Pkt., 15c.
3930 *Marks Tey*. Violet with bronze wings. Pkt. (25 seeds), 10c.
3931 *Mascot's White (New)*. A large waved white of good substance. Pkt., 25c.
3932 *Masterpiece*. Clear lavender self, slightly flushed rose on standard. Pkt., 15c.
3933 *Miss Burnie*. White, tinged with pink. Pkt. (25 seeds), 10c.
3934 *Mrs. Cuthbertson*. Standard is light rose pink, wings white flushed pale rose pink. Pkt., 15c.
3935 *Mrs. E. Cowdy*. A rich deep maroon self. Pkt. (25 seeds), 15c.

10 Best Sweet Peas

3959 Our collection of 10 best Spencer Sweet Peas is so well and favorably known as not to need an introduction to our friends. It is sufficient to say the same care has been taken in making this selection as in former years, and we are confident they will more than please the purchaser. Price, one (regular size) packet of each, 10 for 75c, postpaid.

We cannot make any change in varieties.

White—Constance Hinton	Light Pink—Margaret Atlee
Pink—Hercules	Bicolor—Blanche Ferry
Light Blue—Wedge-wood	Rose—Miriam Beaver
Picotee Edged—Blue Picotee	Purple—Marks Tey
	Red—King Edward VII.
	Maroon—Nubian

- 3936 *Mrs. Hugh Dickson*. A pale salmon pink on cream ground, strong grower. Pkt. (25 seeds), 10c.
3937 *Mrs. Routzahn*. Buff or apricot ground flushed and suffused with delicate pink. Pkt. (25 seeds), 10c.
3938 *Mrs. Tom Jones (New)*. Bright delphinium blue flower. Pkt. (20 seeds), 25c.
3939 *Mrs. W. J. Unwin*. White ground, glowing orange scarlet flakes and stripes. Pkt., 15c.
3940 *New Buttercup*. A deep cream. Pkt., 15c.
3941 *New Miriam Beaver*. Soft shell salmon pink on cream ground, lightly overlaid with soft hydrangea pink. Pkt., 15c.
3942 *Nubian*. Fine chocolate self, waved. Pkt. (25 seeds), 10c.
3943 *Picture (New)*. Color, fresh pink with a rosy flush, the whole suffused and shaded with creamy apricot. Pkt. (12 seeds), 40c.

- 3944 *R. F. Felton*. The best lavender. Pkt. (25 seeds), 10c.
3945 *Rosabelle*. A very large bright waved rose. Pkt., 15c.
3946 *Royal Purple*. The best rich purple. Pkt. (25 seeds), 10c.
3947 *Senator*. Claret and chocolate stripe on light heliotrope ground. Pkt. (25 seeds), 10c.
3948 *Sincerity*. A fine scarlet cerise flower. Pkt. (25 seeds), 10c.
3949 *Stirling Stent*. A bright salmon colored flower. Pkt., 15c.
3950 *Tennant*. Rosy purple self color. Pkt. (25 seeds), 10c.
3951 *The Cardinal*. Brilliant poppy scarlet. Pkt., 15c.
3952 *The President*. Brilliant rich dazzling orange scarlet. Pkt. (25 seeds), 10c.
3953 *Thomas Stevenson*. Rich orange scarlet. Pkt., 15c.
3954 *Vermilion Brilliant*. A brilliant scarlet Spencer. Pkt., 15c.
3955 *Warrior*. Rich chocolate maroon. Pkt. (25 seeds), 10c.
3956 *Wedgewood*. A clear azure blue. Pkt., 15c.

Mixtures

- 3957 *Vaughan's Special Mixture Spencer Varieties*. This mixture is one we make ourselves from named sorts of the late flowering ruffled or Spencer varieties and a few of the early flowering ruffled. The result will be a gorgeous display of wonderful blossoms for a long period of time if cultural directions are followed in planting seed and subsequent care in watering, etc. Pkt., 10c; oz., 25c; ¼ lb., 85c; lb., \$3.00.
3958 *Spencer Hybrids* in splendid mixture. Pkt., 5c; oz., 15c; ¼ lb., 50c; lb., \$1.80.

Mixed Sweet Peas in Separate

Shades

- FOR such as prefer to grow the various colors separate, we have arranged the following mixtures out of the finest named sorts:
3423 *Pink Shades*. Light to deep pink.
3424 *Red Shades*. Bright rose to dark scarlet.
3425 *Lavender and Blue Shades*. Pale lavender to mauve.
3426 *Purple and Maroon Shades*. All the dark colors.
3427 *White and Primrose Shades*. All the delicate tints.
Each of the above, ¼ lb., 50c; oz., 15c.
3429 *Collection*, one oz., each of the five separate shades 60c.



Canna Yellow King Humbert



Canna Firebird

VAUGHAN'S CANNA PLANTS

Yellow King Humbert (4 feet)

An orchid-flowering sport of the well-known variety King Humbert. Has the same habit of growth as its parent; foliage a very dark green, with flowers measuring 5 to 7 inches across; individual petals 3 to 3½ inches in diameter.

Some plants will occasionally give a scarlet or scarlet striped flower, which we consider an improvement, rather than a defect. Each, 25c; doz., \$2.00; 100, \$12.00.

From 4-inch pots, each, 35c; doz., \$2.75; 100, \$18.00, by express.

King Humbert

Scarlet Flowers, Bronze Leaves—Greatest Favorite Today.

This remarkable "Gold Medal" Canna has been the sensation of the past eight years. It is a cross between the orchid-flowering and the French or Crozy type, combining the best features of both, the large flowers of one with the free blooming character of the other, and the handsome broad, tropical foliage. 4 ft. Each, 25c; doz., \$2.00; 100, \$12.00.

From 4-inch pots, each, 35c; doz., \$2.75; 100, \$18.00, by express.

All Canna Plants from 2½-inch pots offered on this page at "Each" (or single plant) go prepaid. Larger lots and sizes by express at buyer's expense. To estimate postage on 2½-inch pot plants to different zones, figure on one dozen plants weighing 3 pounds, packed.

CALADIUM ESCULENTUM

(Elephant's Ear)

ONE of the most effective and easily grown foliage plants for the lawn or border. Can be used with good effect, as a border, for tall-growing Cannas when edged with Coleus or other low-growing foliage plants. (For started plants, May 20, add 10 cents per plant to these prices.)

FIRST SIZE BULBS. 5 to 7 inch circumference. Price, each, 10c; by exp., doz., \$1.00; per 100, \$7.00.

SELECT SIZE BULBS. 7 to 9 inch circumference. Price, each, 15c; by exp., doz., \$1.60; per 100, \$11.00.

Price given for single bulb and certain dozen prices includes prepayment. Other quantities are not prepaid free unless so marked. See back inside cover page for exact particulars. (Word "Exp." means sent at buyer's expense.)

Hungaria (3½ feet)

THE BEST PINK CANNA. Very compact, almost dwarf and of a very luxuriant growth. Leaves bluish green, never burn. Trusses of enormous size borne well above the foliage. Each, 35c; doz., \$3.00; 100, \$18.00.

From 4-inch pots, each, 45c; doz., \$3.75.

FIREBIRD. The best scarlet green leaved variety. The flowers are borne in immense trusses, on strong stalks well above the leaves. They are of splendid form, round and shapely. The petals measure and sometimes exceed 2½ inches across; a clear glistening scarlet without any streaks, spots or blotches.

Each, 35c; doz., \$3.00; 100, \$18.00.

From 4 inch pots, each, 45c; doz., \$3.75; 100, \$22.50, by express.

GUSTAVE GOMPPER. 3½ to 4 ft. Flowers of great size and substance, in color, a fine golden yellow, the lower petals being slightly splashed with red. Stiff, erect stems and large flower spikes. Each, 30c; doz., \$2.50; 100, \$15.00.

From 4 inch pots, each, 40c; doz., \$3.25; 100, \$20.00; by express.

EXTRA LARGE BULBS. 9 to 11 inch circumference. Price, each, 25c; by exp., doz., \$2.50; per 100, \$18.00.

MAMMOTH SIZE. 12 inch and up circumference. Price, each, 40c; by exp., doz., \$4.00.

Mailing weights each size per dozen bulbs as follows: First 4 lbs., Select, 6 lbs.; Extra, 10 lbs.; Mammoth, 17 lbs.

TUBEROSES, Double and Single

EXCELSIOR DWARF PEARL

OUR Excelsior Dwarf Pearl is a special selection, made for many years of the most dwarf double and full-flowered spikes, and is exceptionally sturdy and dwarf in habit; the highest type of all.

MATADOR. 4½ ft. Flowers are of the largest size, the petals being very broad and beautifully rounded. The color is rich scarlet, marbled cerise, very striking. Each, 35c; doz., \$3.00.

From 4 inch pots, each, 45c; doz., \$3.75.

METEOR. 5 ft. Magnificent bedding variety with massive erect trusses of deep blood-red flowers produced with a freedom that leaves nothing to be desired. One of the best deep red flowering Cannas. Price, each, 30c; doz., \$2.50.

From 4 inch pots, each, 40c; doz., \$3.25.

ORANGE BEDDER. 4 ft. Green foliage. Bright orange with just enough scarlet suffusion to intensify the dazzling mass of color. A very free bloomer. Each, 25c; doz., \$2.00; 100, \$12.00.

From 4 inch pots, each, 35c; doz., \$2.75; 100, \$18.00; by express.

Special Offers

No. 112C. One each of above (8) Cannas from 2½ inch pots for \$2.25, prepaid.

No. 112D. One each of above (8) Cannas from 4 inch pots for \$3.00; by express.

MAMMOTH SIZE. Price, each, 15c; doz., \$1.50; prepaid.

FIRST SIZE BULB. Price, each, 10c; doz., \$1.00, prepaid; per 100, \$6.00, by exp.

SECOND SIZE BULBS. Often sold by "bargain stores" under the name "first-class." Each, 6c; doz., 60c, prepaid; per 100, \$4.00, by exp.

ARMSTRONG'S EVER BLOOMING. This variety blooms year after year and has a fragrance similar to the "Jasmine." Price, each, 7c; doz., 75c, prepaid; per 100, \$5.00, by exp.

SILVER-LEAVED. This is an early single kind, with striped leaves, making a grand show with its striking foliage. Price each, 7c; doz., 75c, prepaid; per 100, \$5.00, exp.

ALBINO. Branching single variety, early bloomer. Price, each, 7c; doz., 75c, prepaid; per 100, \$5.00, exp.

Vaughan's Perennial Plants

Perennial Plants of European origin, can no longer be imported except for propagating purposes, by ruling of the Federal Horticultural Board's Plant Quarantine Act No. 37, which went into force June 1st, 1919. For the present, therefore, our list of plants be curtailed until stock of our own propagation is ready to send out.

Plants should be ordered by name and on the separate order sheet provided for them. Give quantities desired in plain figures and write only one kind on each line.

Prices of Plants—Important Changes for 1921

THE increased cost of labor and time involved in collecting, labeling and assembling long and extended lists of plants when ordered one of a kind, compels us to charge more than heretofore for single plants; on the other hand we make the price of twelve and three of a kind so attractive that it should induce our customers to buy at least three of a kind and order less varieties. You get a sufficient number of plants for your known requirements, but fewer varieties, and less chance of total failures, having three to succeed with instead of one.

We respectfully urge our customers to adopt this plan for their own economy and to facilitate expeditious filling of orders.

Prices This Year are as Follows:

Plants priced at	{ \$2.50 } { 3.00 } { 3.50 } { 4.00 } { 4.50 } { 5.00 }	} per dozen	.....	3 supplied for	Each
			.....	\$0.65	\$0.30
			.....	.85	.35
			.....	1.00	.40
			.....	1.25	.50
			.....	1.35	.55
.....	1.50	.65			

Plants by Parcel Post If to be sent by parcel post add postage as follows: Single plants, 5c; 3 plants, 10c; 6 plants, 15c; 12 plants, 25c. We accept no responsibility for delays or conditions that may prove injurious to the contents.

Plants by Express We recommend this mode of transit where quantities are over 18 to 24 plants. We pack carefully, but accept no responsibility for delays over which we have no control that may cause injury to the contents.

ACHILLEA (Yarrow Milfoil)

FREE flowering plants of easy culture for the mixed border; most of the varieties are very suitable for cutting.

—Eupatorium, Parker's Variety. June-Aug. 1½ ft. pale yellow flowers. Plants, doz., \$3.00; 3 for 85c.

—The Pearl. 2 ft. June to Aug. Pure white, fine for cutting. Plants, doz., \$3.00; 3 for 85c.

ALYSSUM—Saxatile Compactum (Basket of Gold.) 1 ft. May-June. Greatly prized for its masses of golden yellow flowers. Plants, doz., \$3.00; 3 for 85c.

ANTHEMIS Kelwayi (Hardy Marguerite). 2 ft. A most satisfactory plant, bearing all summer, daisy-like yellow blossoms. Planted as a border or in masses, is excellent for cutting. Plants, doz., \$3.00; 3 for 85c.

AQUILEGIA (Columbine). Long Spurred Columbine. Mixed. An improved strain of Columbines, bearing flowers of many rich and varied colors with broad petals and long spurs. Colors are distinct shades of white, salmon, lavender, yellow, mauve, pink, etc. Extra fine. Plants, per 100, \$20.00; doz., \$3.00; 3 for \$1.00.

ARMERIA (Thrift, Sea Pink or Cliff Rose) Lauchena. 6 in. Crimson flowers, deep green tufty foliage. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

HARDY ASTERS

NOW fill a most important place in all hardy flower gardens, lighting up the borders and shrubberies with their masses and clouds of dainty and brightly colored blossoms throughout the autumn months up to November, when other flowers are scarce.

—Novae Angliae. 3 ft. Sept.-Oct. Deep purplish blue. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—Novae Belgiae, Climax. 4 to 5 ft. (New). This in our opinion, is the best Michaelmas Daisy introduced in many years. Forms branching plants covered in fall with delightful lavender blue flowers from one to two inches in diameter. Plants, per 100, \$20.00; doz., \$3.60; 3 for \$1.00.

BOLTONIA Asteroides (False Chamomile). 6 ft. White. Large daisy-like flowers, valuable for cutting. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

BUDDLEYA Variabilis Veitchiana (Butterfly Bush). 3 ft. Aug.-Oct. A new and beautiful shrub-like plant, producing pendulous branches terminating in long spikes of beautiful lilac-mauve flowers. Requires same protection as roses in winter. Large plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

CAMPANULA (Bell Flower). Bell shaped flowers, well known; equally useful for flower border, shrubby or wild garden. Carpatica (Harebell.) 9 in. July. Pretty blue, dwarf. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

CARNATION (Hardy)

OLD-FASHIONED flowers, valuable for border decoration and cutting.

—Grenadin. Double Red. Perfectly hardy. Plants, doz., \$3.00; 3 for 85c.

—Grenadin Double White. Splendid cut flowers. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

CHELONE Barbatus Torreyi. 3 ft. July-Aug. Long coral red spikes like a Pentstemon. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

CHRYSANTHEMUM Maximum (Moonpenny Daisy). 2-3 ft. Hardy white daisy, excellent for cutting. King Edward VII. 2½ ft. Very large white flowers on stout stems. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

COREOPSIS Lanceolata (Tickseed). June to Oct. Hardy plants that bloom throughout the summer. 2 ft. Large orange-yellow flowers, much prized for cutting. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

DAISY, (Shasta) Alaska. 2 ft. Wonderful show of large white flowers. Fine for cutting. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.



ACHILLEA, Perry's White

DELPHINIUM (Hardy Larkspur)

THERE are many species in cultivation, but the most important are the tall hybrids of which we hold a large and up-to-date assortment, including the very newest.

—Formosum. 3 ft. Deep blue, white eye, open spike. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—Belladonna (Light Blue). 2 ft. Loose spikes of blue. Plants, per doz., \$3.60; 3 for \$1.00.

—Vaughan's Gold Medal Hybrids. This strain is especially grown for us, the seed being saved from selected plants. All inferior colors and types are discarded. Many of them are double flowered, and range in color from pale lavender to indigo-blue. Plants, per 100, \$18.00; doz., \$3.60; 3 for \$1.00.

DIANTHUS (Hardy Garden Pinks)

CHARMING summer flowering border plants, more or less fragrant; should be planted in full sun or open situation, adding lime or old mortar rubble to the soil at time of planting.

—Abbotsford. 15 in. Attractive shade of pink. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—Deltoides. 9 in. Masses of small deep rose flowers, neat creeping habit. An excellent rock or edging plant. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

Vaughan's Special Mixture. A grand selection of clove pinks of the above Plumarius type and others. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.



DIANTHUS BARBATUS (18 to 24 in.)

THE varieties offered are an improvement on the old-fashioned kinds, inasmuch as the colors and size of flower are far superior, being grown from select seed.

—Diadematus. One of the prettiest, flowers rose, spotted and sprinkled with white. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—Johnson's Giants. The range of color includes shades which are not to be found in other strains, and the peculiar and delicate markings on the flowers are most attractive. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—Nigrescens. Flowers almost black. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

ECHINOPS—Ritro. (Globe Thistle.) Handsome, strong-growing plants with thistle like leaves and globe shaped bristly flowers. 3 ft. Fine blue flower heads. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.



DELPHINIUM—Gold Medal Hybrids

PERENNIAL PLANTS—Continued**FUNKIA (Day Lily)**

THESE handsome, hardy herbaceous plants develop their ornamental foliage early in spring, and in summer and autumn throw up a profusion of Lily-like flower spikes. All are grand plants for the flower border or permanent edgings, especially on shady borders. They develop their foliage to greater size if grown in partial shade.

—*Lanceolata*. 12 in. Sept. Pale lilac flowers. Plants, per doz., \$3.00; 3 for 85c.

—Thomas Hogg. 12 in. Large green foliage margined white. Plants, per doz., \$3.60; 3 for \$1.00.

GAILLARDIA—Grandiflora Mixed. (Blanket Flower.) June to October, 2 ft. Their long-flowering period, long stems and bright colors make these one of the most valuable of perennials, being easily grown in beds or borders in ordinary garden soil. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

GYPSOPHILA—Paniculata (Baby's Breath). Graceful border and rock plants with small flowers on light stems. Greatly prized for cutting. 2 ft. July-Aug. Small flowers on branched stems, so thick as to give the plant a white lace-like effect. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

HELIANTHUS (Hardy Sunflower)

PRODUCING a grand effect planted in garden beds or borders or in the woodlands or wild garden.

—*Multiflorus Plenus*. 6-8 ft. Double yellow flowers, useful for cutting July-Oct. Resemble large yellow Dahlias. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—*Rigidus*, Miss Mellish. 7 ft. Large single yellow, tall handsome border plant. Plants, per doz., \$3.00; 3 for 85c.

HEMEROCALLIS (Yellow Day Lily)

THE Day Lilies are undoubtedly among the finest plants for ordinary garden culture, as they will grow anywhere. The flowers are in spikes of from six to a dozen blooms opening in succession, and are very useful cut flowers. Good for borders, shrubberies, wild garden or naturalizing.

—*Flava*. Pleasing pale yellow. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—*Kwanso fl. pl.* Beautiful double orange flowers. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

HIBISCUS (Rose Mallows)

3 to 5 ft. July to Sept.

NOBLE shrub-like plants, with handsome green foliage, bearing throughout summer large bright flowers, from 3 to 5 inches in diameter. Very hardy. Suitable for garden and indoor use when cut.

—*Mixed Mallow Marvels*. Grand assortment. Plants, per 100, \$20.00; doz., \$3.60; 3 for \$1.00.

—*Mallow Marvels*. Pink or white; separate colors. Plants, per doz., \$3.60; 3 for \$1.00.

LINUM (Flax)

—*Perenne*. 2 ft. Pearly blue flowers. A graceful hardy perennial. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—*Album*. Milk white flowers, very decorative. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

LYCHNIS Chalcedonica (Jerusalem Cross). 3 ft. June-Aug. Brilliant scarlet in dense flat heads. A grand border plant. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

MERTENSIA Virginica (Blue Bells, Virginian Cowslip). 2 ft. Lovely drooping flower spikes of a rare pale blue color. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

MONARDA (Bergamot, Oswego Tea). Flowers all summer.

—*Didyma*. 3 ft. Terminal heads of rich scarlet flowers, emitting a very pleasant scent. Plants, per 100, \$15.00; doz., \$3.50; 3 for \$1.00.

PACHYSANDRA Terminalis. 4 in. Small, whitish flowers in May, which are insignificant; deep green evergreen foliage, after the Helleborus type, but much smaller; unsurpassable where an evergreen carpet is required. Looks well on graves, around shrubs and under trees, thrives anywhere and invaluable where grass will not grow. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

PAPAVER Orientale (Oriental Poppy)

3 feet

FOR gorgeous coloring, the Oriental Poppies have few rivals among hardy plants. They produce magnificent effect in shrubberies and herbaceous borders, while for cutting they are invaluable.

—*Royal Scarlet*. 4 ft. Large flowers of dazzling orange scarlet. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

PHYSOSTEGIA (False Dragon Head)

3 feet. June to Sept.

—*Grandiflora*. (New). Deep pink. 2 ft. Plants, per 100, \$20.00; doz., \$3.60; 3 for \$1.00.

—*Virginica*. Dense bushes with spikes of delicate pink tubular flowers. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

PRIMULA (Primrose)

—*Rheingold*. Orange and red. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—*Veris Grandiflora*. An extra choice large-flowered mixed strain. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.



CHRYSANTHEMUMS—Large Flowering Outdoor Type

PYRETHRUM

ONE of the most valuable of our early summer flowers. Charming color and wonderful lasting properties as a cut flower; flowers in May and June, and frequently in August and September; of colors almost every shade, which make them foremost in this particular season.

—*Roseum, Single Mixed*. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

RUDBECKIA, Laciniata fl. pl. (Golden Glow). Somewhat resembling the Sunflower, but differing in the central disc of the single flowers protruding in the form of a cone. A highly ornamental Autumn-flowering plant, much valued for cutting. 6 ft. July-Sept. Rich yellow, double flowers, much prized for cutting. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

SALVIA, Pitcheri (Meadow Sage). 3 ft. August to October. One of the finest blue garden plants for brilliancy, far in advance of *Anchusa Italica*. It flowers in the fall right up to the first frost, the flowers coming in regular sheaves of cornflower blue. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

SEDUM (Stonecrop)

CHARMING plants, great diversity of character, much used for edgings, carpet bedding and on rockeries.

—*Acre*. 3 in. May-June. Common yellow stonecrop. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—*Brilliant*. 6 in. Bright scarlet. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—*Rubrum*. 15 in. Dark carmine rose flowers. Per 100, \$15.00; doz., \$3.00; 3 for 85c.

STATICE, Latifolia (Sea Lavender). Large spreading panicles of light, graceful flowers, much prized for winter decoration dried. 2 ft. Dense branching plumes of deep blue flowers. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

THALICTRUM (Meadow Rue)

—*Adiantifolium*. 9 in. June-July. Finely cut maiden-hair like foliage, with light plumes of small whitish flowers. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—*Dipterocarpum (New)*. 4-5 ft. A new introduction from China. Very graceful plumes of rosy purple flowers and conspicuous yellow anthers. One of the most graceful and decorative plants in our whole list. Plants, per 100, \$20.00; doz., \$3.60; 3 for \$1.00.

TRITOMA (Torch Lily, Flame Flower,**Red Hot Poker)**

VERY handsome and showy border plants. Flowers borne in compact form on stout 3 and 4-foot stems, having the appearance at a distance of orange and red colored spear heads. Require protection during winter, unless in a very sheltered position.

—*Pfitzeri (Everblooming Flame Flower)*. 3 ft. Aug.-Nov. Bright orange scarlet. Plants, per 100, \$20.00; doz., \$3.00; 3 for 85c.

VERONICA (Speedwell), Amethystina. 1 ft. May-July. Delightful flowers of a deep amethyst blue color. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—*Longifolia Subsessilis*. 2 ft. Aug. One of the finest Autumn blue flowers, handsome heads of rich violet blue. Plants, per doz., \$3.00; 3 for 85c.

—*Spicata*. 2 ft. July-Aug. Small spikes of rich blue flowers. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

—*Alba*. Pure white form of the preceding. Plants, per 100, \$15.00; doz., \$3.00; 3 for 85c.

YUCCA Filamentosa (Adam's Needle). 5 ft. June-July. Handsome, creamy white flowers, much branched and densely packed with bloom, while the sword-like foliage is very ornamental; makes a handsome long specimen. Plants, 2 yr., doz., \$3.00; 3 for 85c; 3 yr., doz., \$4.00; 3 for \$1.10.

CHRYSANTHEMUMS**Collection of Large-Flowered Outdoor Varieties**

A Chrysanthemum that would flower successfully in the open garden has been wanted a long time, and in the following we offer a set that will furnish an abundance of flowers from August until heavy frost. They grow from 2 to 4 ft. high, thriving in any good garden soil.

A. BARHAM. Bronze; incurving.

CARPET OF SNOW. White, 6 in. clusters; end August.

CARRIE. Flowering the end of August. Yellow and in cluster form.

CRANFORDIA. Large, six-inch clusters, yellow flowers on single stems.

FRAMFIELD. Early. Start to flower in August. Large white cluster, very free.

FIREFLY. A reddish bronze; flowers very early and continues until late frosts arrive.

GOLDEN QUEEN. Large pure golden yellow.

GUSTAVE GRUNNERWALD. Light pink. Each, 30c; doz., \$2.50; 100, \$12.00.

LE PACTOLE. Very pleasing bronze; free and early. Each, 25c; doz., \$2.25; 100, \$12.00.

MADAME MARQUES. Blush white changing to pure white when fully open. A splendid variety; fully developed by October 1st.

MISS F. COLLIER. Large white flowers borne on very stiff stems, height about 30 inches. Each, 25c; doz., \$2.25; 100, \$12.00.

NORMANDIE. Blush pink; very dwarf and free. Price, except where noted, each, 20c postpaid; doz., \$2.00; per 100, \$10.00 (by exp.)

SPECIAL OFFER No. 42. Set of 12 plants for \$2.30, postpaid.

Dahlia Roots

UNNAMED DOUBLE DAHLIAS. Undivided field clumps in white, pink, yellow or red; good sorts. Each, 35c; doz., \$3.00, by exp.

MIXED SINGLE AND DOUBLE DAHLIAS. Undivided field roots. Each, 25c; doz., \$2.50, by exp.

MIXED DOUBLE DAHLIAS. Undivided field clumps. Each, 25c; doz., \$2.50, by exp.

Vaughan's Hardy Irises

THESE Irises are all sun-lovers and delight in a well-drained situation. They are all deliciously fragrant, large and handsome, more or less beautifully mottled in the "Standards" and veined in the "Falls," while the beards range from delicate primrose to orange. Their beauty at first sight rivals that of the Orchid, but, on closer examination, we have no hesitation in saying they yield points of interest not to be found in the whole of the Orchid family. Those who have not used these Irises for surrounding lakes and ponds, or cultivated them in the flower borders, shrubberies, woodland walks, and wild gardens, should do so. If planted around ponds or lakes they should be placed well above the water level.

The best months for transplanting Iris are April, September and October, but they can also be moved in June and July, soon after they have flowered. Please order early for Spring planting; late orders will be filled after blooming time.

"S" refers to the three standard, or upright curling petals; "F" to falls or drooping petals.

BLACK PRINCE (Kochi Atro-purpurea). "S" Purple lilac; "F" velvety black. A very striking dark flower. Doz., \$3.00; 3 for 85c.

CANDELABRE. "S" Mauve and purple; "F" Violet, with white and black veins. Doz., \$2.50; 3 for 65c.

CAPRICE. "S" Reddish purple; "F" Deeper, self-colored. One of the best red Irises. Per 100, \$15.00; doz., \$3.00; 3 for 85c.

CELESTE. Fine satiny blue. One of the most beautiful of hardy Irises. Per 100, \$12.00; doz., \$2.50; 3 for 65c.

CHERUBIN. "S" Pale lilac; "F" Pale lilac, veined purple. Doz., \$3.00; 3 for 85c.

DARIUS. "S" Primrose yellow; "F" Lilac and primrose. Doz., \$2.00; 3 for 55c.

DOROTHEA. An early dwarf flower of exceptional merit. "S" Mauve, deeper in center; "F" Soft blue with orange veinings. Very fine. Doz., \$2.50; 3 for 65c.

FLORENTINA ALBA. Large pure white fragrant flowers. Doz., \$3.00; 3 for 85c.

GAJUS. "S" Light clear yellow; "F" Crimson, reticulated white and yellow. Doz., \$2.00; 3 for 55c.

GERTRUDE. Deep violet blue; very fragrant. Doz., \$2.00; 3 for 55c.

JEANNE D'ARC. Flowers large, petals broad, of a fresh clear lilac. "F" Pure white, bordered lilac. 3 ft. Per 100, \$20.00; doz., \$3.00; 3 for 85c.

KHARPOT (Italia). "S" Violet; "F" Violet purple, large handsome bloom. Doz., \$2.00; 3 for 55c.

L'AVENIR. A beautiful shade of satin blue. Per 100, \$15.00; doz., \$2.40; 3 for 65c.

LORD SEYMOUR. Very much like Mme. Chereau, but "S" are a more delicate pale lavender. Per 100, \$15.00; doz., \$2.40; 3 for 65c.

MAORI KING. "S" Golden yellow; "F" Velvety maroon margined gold. Doz., \$3.00; 3 for 85c.

MONSIGNOR. Tall, large blossoms borne in profusion. "S" Blush lavender; "F" Violet with white pencilings at throat. Doz., \$5.00; 3 for \$1.50.

MRS. H. DARWIN. "S" Clear waxy white; "F" White, violet veins. Per 100, \$10.00; doz., \$2.00; 3 for 55c.

NELLY. "S" Blue; "F" Clear white with blue veining and blotches. Doz., \$2.40; 3 for 65c.

PALLIDA MANDRALISCAE. Rich lavender-purple, large and handsome. Per 100, \$12.00; doz., \$2.40; 3 for 65c.

PRINCESS VICTORIA LOUISE. (New). "S" Immense sulphur yellow; "F" Plum color, shaded primrose. A very uncommon and pleasing shade. Doz., \$2.40; 3 for 65c.

PRES. THIERS. "S" Lavender blue; "F" Deeper blue, white pencilings. Doz., \$2.40; 3 for 65c.

QUEEN OF MAY. "S" Lilac pink; "F" Lilac, blended with white; distinct. Per 100, \$15.00; doz., \$2.40; 3 for 65c.

RHEIN NIXE. "S" White, very large. "F" Rich violet purple with distinct narrow white edge. A charming flower. Scarce. Per 100, \$15.00; doz., \$2.40; 3 for 65c.

TAMERLANE. "S" Pale violet; "F" deep purple. Magnificent, tall, bold. Doz., \$5.00; 3 for \$1.50.

"Bargain" Collections

"BARGAIN" COLLECTIONS (Our selection).

Two each, 3 varieties (6 plants), \$1.00; six each, 3 varieties (18 plants), \$2.00; twelve each, 3 varieties (36 plants), \$3.00. All prepaid.



HARDY IRIS

Giant Iris Collection

Caprice	Pallida Mandraliscae
Dorothea	Princess Victoria
Florentina Alba	Louise
Gertrude	Rhein Nixe
Isoline	Tamerlane
Lord Seymour	

1 each of 10 for \$3.00, postpaid.

Vaughan's Collection of Hardy June Roses



PAUL NEYRON

ANNA DE DIESBACH. Very showy and large, pointed buds, a beautiful shade of carmine. A strong grower.

FRAU KARL DRUSCHKI. (White American Beauty.) This pure white variety has long immense buds and perfectly double flowers. For bedding and for cutting it is the finest in its class.

GEN. JACQUEMINOT. Bright shining crimson, shapely buds and handsome blooms. The Jack Rose is noted for its good qualities.

GEORGE ARENDS. Beautiful clear light pink, fine, moderately full flower. Free-blooming, vigorous and fine for cutting, having excellent lasting properties.

GRUSS AN TEPLITZ. Velvety crimson-red. Its intense depth and richness of color makes it one of the best dark garden roses.

MABEL MORRISON. An attractive rose with pure white, perfectly formed flowers of large size.

MAGNA CHARTA. Deep pink, large sweet-scented and of fine form, one of the hardiest roses in cultivation and commonly planted.

MRS. JOHN LAING. A grand, useful rose. Large beautiful pink blooms, borne on long sturdy stems; the gem of the lot.

PAUL NEYRON. An immense rose of a deep rose color. It has excellent foliage and is a very strong grower.

ULRICH BRUNNER. Cherry crimson, large fine form, a good garden and exhibition rose, very strong grower and hardy.

Price of above, 2-year dormant, each, 75c; doz., \$8.00. 2-year potted, ready May 1st, each, \$1.00; doz., \$10.00.

All orders are handled and packed by experienced hands, and we guarantee safe arrival by express. With special fast train service in every direction from Chicago, our mail and express packages of all greenhouse plants are much more satisfactory handled than from cities less centrally located.

Ask for our pamphlet, "How to be Successful With Roses."

Prices on Roses—Each from 2½-inch pots includes prepayment.

Larger lots and size go by express at buyers' expense.

Climbing Roses

For twenty years our greenhouses have specialized on all these beautiful climbers, and here we offer "all the best."

The abbreviations used in some of the following descriptions denote:

(C. P.)—Climbing Polyanthus-flowered; flowers double or semi-double.

CRIMSON RAMBLER (C. P.). This grand old climber hardly needs description. The magnificent trusses of bright crimson flowers are freely produced and admired by everyone. It is still one of the easiest of roses to succeed with. Unsurpassed for walls, hedges, pillars, arches, pergolas; very hardy and a strong grower.

DOROTHY PERKINS (C. P.). The most popular climbing rose of today, and as hardy as the Crimson Rambler. The flowers are borne in clusters and are very double; the petals are very prettily rolled back and crinkled. The color is a most beautiful shell pink and holds a long time without fading.

EXCELSA (C. P.). A distinct variety in form, color and habit. A vigorous grower. The foliage is dark glossy green. Flowers very double, produced in large trusses, thirty to forty on a stem. The color is intense crimson maroon; points of the petals tipped with scarlet.

GOLDFINCH (C. P.). The best yellow rambler to date. Flowers large, semi double, in full clusters; a rich, lemon yellow.

WHITE DOROTHY (C. P.). This beautiful rose is the counterpart of the well known Dorothy Perkins, except in the color which is pure white. Already a universal favorite.

Price of above, 2-year dormant, each, 75c; doz., \$8.00. 2-year potted, ready May 1st, each, \$1.25; doz., \$12.00.

Vaughan's Perennial Flower Seed

PERENNIAL plants usually bloom from seed the second year from sowing although many varieties flower the first year if sown early.

An ideal way to plant is in a seed bed in May, June or July and even early August, and transplant the seedlings when large enough to handle to their permanent location where they are to flower. Perennials usually multiply and plants may be divided when too large.

Those who own their homes ought to invest in ten or more new varieties each year. They are satisfactory inasmuch as after they become established they practically take care of themselves. Perennials generally have their own time of blooming so you can expect a bed of the same color at the same time each year if the plants are

Special Offer of Perennial Seeds: Any 3 10c pkts. for 25c; any 2 15c pkts. for 25c.

undisturbed. Some kinds, like the Delphiniums, bloom twice in a season provided the first flowers are removed before the seed pods form.

Some varieties, like the Shasta Daisy and Gaillardia, bloom the entire summer. For an amateur, we would suggest the following varieties with which to begin a collection. These succeed with little care and flower nearly all season: Carnation Grenadin, Coreopsis, Dianthus Barbatus, Dianthus Plumarius, Delphinium, Gaillardia, Hollyhock, Poppy Nudicaule, Pyrethrum and Shasta Daisy.

If interested in larger amounts (by weight), please submit list of requirements for quotation. In many varieties we can quote up to 1 lb. or more.



AQUILEGIA—Long Spurred

- 5000 ACANTHUS Latifolius. Aug. 3 ft. Handsome plant, broad deeply cut leaves; beautiful for solitary plants in lawn or for grouping with other plants. Pkt., 10c.
- 5003 ACHILLEA (The Pearl). 2 ft. June to August. Pure white, fine for cutting; blooms all summer. Pkt., 15c.
- 5008 ADLUMIA Cirrhosa (Alleghany Vine). 15 ft. The feathery foliage is like the Maidenhair Fern. Delicate rose pink and white flowers cover the plant. Pkt., 10c.
- 5009 ADONIS Vernalis. 18 in. May. Large star-shaped yellow flowers. Pkt., 10c.
- 5010 AGATHAEA Coelestis (Blue Daisy). Flowers sky blue with yellow disk of easy growth. Pkt., 10c.
- 5011 AGROSTEMMA Coronaria Varieties Mixed. Attractive free-flowering, producing bright colored flowers on long, slender stems like a single pink; blooms the first season; fine for cutting; 1 to 2 ft. June-September. Pkt., 10c.
- 5012 Flos Jovis. 1 ft. Beautiful pink flowers. Pkt., 5c.
- 5013 ALYSSUM (Madwort) Saxatile Compactum (Basket of Gold). 1 ft. May-June. Greatly prized for its masses of golden yellow flowers. Pkt., 10c.
- 5015 AMPELOPSIS Veitchii (Boston Ivy). Small leaved, self-clinging, Virginia Creeper. Pkt., 10c.
- 5016 ANCHUSA Italica, Dropmore Variety. 5 ft. June-July. Beautiful gentian blue, flowers one of the best perennials. Pkt., 15c.
- 5023 ANTHEMIS Kelwayi (Hardy Marguerite). 2 ft. Daisy like yellow blossoms, produced all summer. Excellent for cutting. Pkt., 10c.
- 5026 Tinctoria. Very useful yellow border plant. Pkt., 10c.

AQUILEGIA (Columbine)

COLUMBINES are among the most beautiful hardy perennials producing graceful spurred flowers on stems 2 feet or more above the beautiful, dark green, divided foliage.

- 5027 Canadensis (Turk's Cap). Handsome scarlet and orange flowers. Pkt., 10c.
- 5031 Coerulea (Rocky Mountain Columbine). 3 ft. One of the most beautiful of our native American flowers. Sepals, deep blue; petals, white. Pkt., 10c.
- 5033 Coerulea Rosea (Rose Queen). 2½ ft. Beautiful flowers of light to dark rose with white center and yellow anthers, a most delicate combination of colors. Pkt., 15c.
- 5035 Mrs. Scott Elliott's Strain of Long Spurred Hybrids. The flowers are very large and of distinct shades of blues, lavenders, mauves, whites, creams, pinks, reds, yellows, etc. Many of these colors being entirely new in the species and are the result of very many years careful hybridisation. Pkt., 25c.
- 5043 Single Mixed. Many varieties. Pkt., 10c.
- 5044 Double Mixed. Pkt., 10c.
- 5047 Vaughan's Special Mixture includes all the above mentioned varieties and many new colors not found in any named collection. Pkt., 25c.

ARMERIA (Thrift, Sea Pink)

GRAND plants for crevices of walls and rocks, and also for growing in flower borders or as permanent edgings; excellent plants for the sea coast. June-July.

- 5052 Formosa. 9 in. Pretty rose pink. Grand for borders. Pkt., 10c.
- 5054 Maritima. 3 in. Silvery pink flowers. Pkt., 15c.
- 5056 ASCLEPIAS Tuberosa (Butterfly Weed). 2 ft. One of the most showy of our native perennials and producing from July until frost, compact umbels of brilliant orange flowers. Pkt., 10c.

ASTER

NOW fill a most important place in all hardy flower gardens, lighting up the borders and shrubberies with their masses and clouds of dainty and brightly colored blossoms throughout the autumn months up to November, when other flowers are scarce.

- 5064 Large Flowering Mixed. Various shades of blue. Pkt., 25c.
- 5071 BAPTISIA Australis (False Indigo). 2 ft. Beautiful racemes of pea-shaped light blue flowers appearing in midsummer. Pkt., 10c.

CAMPANULA (Bell Flower)

BELL shaped flowers, well-known: equally useful for flower border, shrubby or wild garden.

- 5090 Carpatica (Harebell). 9 in. July. Pretty blue, dwarf. Pkt., 10c.
- 5091 Alba. 9 in. July. Pure white. Pkt., 10c.
- 5092 Calycanthema (Cup and Saucer). 2 ft. June to August. Mixed colors. Pkt., 10c.
- 5093 Calycanthema White, (5094) Pink, (5095) Blue. Each, pkt., 10c.
- 5104 Medium (Canterbury Bell). 2 ft. Single White. Pkt., 10c.
- 5105 Single Blue. 5106 Single Pink. Pkt., 10c.
- 5108 Mixed Colors (Canterbury Bells). Pkt., 10c.
- 5108a Double White. Pkt., 10c.
- 5108b Double Blue. Pkt., 10c.
- 5108c Double Pink. Pkt., 10c.
- 5109 Double Mixed. Pkt., 10c.
- 5113 Mixed. Blue and White. Pkt., 10c.

CAMPANULA—Continued.

- 5114 Pyramidalis (Chimney Bellflower). Blue. 5-6 ft. Pkt., 10c.
- 5115 Pyramidalis Alba. Pkt., 15c.
- 5116 Pyramidalis Mixed. Pkt., 10c.
- 5117 Vaughan's Special Mixture. A grand assortment of all varieties. Fine for cut flowers. Pkt., 25c.

CANDYTUFT See Iberis CARNATION (Hardy)

OLD-FASHIONED flowers, valuable for border decoration and cutting.

- 5118 Grenadin. Yellow. Pkt., 15c.
- 5119 Grenadin. Triumph (rose). Pkt., 15c.
- 5120 Grenadin. Dark velvety brown. Pkt., 15c.
- 5121 Grenadin. Scarlet. Perfectly hardy. Pkt., 10c.
- 5122 Grenadin White. Splendid cut flowers. Pkt., 20c.
- 5123 Vienna Dwarf. White. Pkt., 15c.
- 5124 Vienna Dwarf. Rose. Pkt., 15c.
- 5125 Vienna Dwarf Mixed. Pkt., 10c.
- 5126 Double Mixed, Extra Choice. Pkt., 15c.
- 5140 CHELONE. Hybrida, Mixed. (Turtle Head). 3 ft. July and August. Allied to Pentstemon; throws out long spikes of brilliantly-colored flowers. Pkt., 10c.
- 5143 CHRYSANTHEMUM Maximum (Moon-penny Daisy). 2-3 ft. Hardy white daisy, excellent for cutting. Pkt., 10c.
- 5144 King Edward VII. 2½ ft. Very large white flowers on stout stems. Pkt., 10c.

COREOPSIS (Tickseed)

JUNE to October. Hardy plants that bloom throughout the summer.

- 5154 Lanceolata. 2 ft. Large orange-yellow flowers on long graceful stems. Pkt., 10c.
- 5157 DAISY (Shasta) Alaska. 2 ft. Wonderful show of large white flowers. Fine for cutting. Blooms all summer. Pkt., 10c.



CAMPANULA—Canterbury Bell

Vaughan's Perennial Flower Seed



DAISY—Shasta

DELPHINIUM (Hardy Larkspur)

STATELY plants with wonderful flowers produced on long spikes in various shades of white and blue. Remove the flower before the seed pods form and they will flower later in season again.

161 Chinese (Blue). 2 ft. Pure blue in branching dwarf spikes. Very graceful for cutting. Pkt., 10c.

162 Album. 2 ft. Pure white. Pkt., 10c.

162a Chinese Mixed. Pkt., 10c.

163 Elatum Hybridum, Single Mixed. 3 ft. Pkt., 10c.

164 Double Mixed. 3 ft. Pkt., 15c.

165 Formosum. 3 ft. Deep blue, white eye, open spike. Pkt., 10c.

171 Belladonna (Light Blue). 2 ft. Flowers exquisite shade of turquoise blue. Pkt. 20c.

176 Vaughan's Gold Medal Hybrids. This strain is especially grown for us, the seed being saved from selected plants. Many of them are double flowered, and range in color from pale lavender to indigo-blue. Pkt., 25c.

DIANTHUS (Hardy Garden Pinks)

CHARMING summer flowering border plants, more or less fragrant; should be planted in full sun or open situation, adding lime or old mortar to the soil at time of planting.

180 Plumarius Cyclops (Clove Pink). An exquisite mixture of colors. Pkt., 10c.

184 Nanus Fl. Pl. Double dwarf mixed. Pkt., 15c.

185 Semperflorens. 15 in. Single and double, flowers all spring and summer. Mixed colors. Pkt., 15c.

186 Single Mixed. Delicately fringed flowers. Pkt., 10c.

187 Double Mixed. Fine for cutting. Pkt. 10c

188 Vaughan's Special Mixture. A grand selection of clove pinks of the above Plumarius type and others. Pkt., 20c.

189 Latifolius Atro-coccineus Plenus. 15 in. Double fiery crimson. Pkt., 10c.

DIANTHUS BARBATUS

(Sweet William)

18 to 24 in.

THE varieties offered are an improvement on the old-fashioned kinds, inasmuch as the colors and size or flower are far superior, being grown from select seed. Sweet Williams look well in solid beds of masses and require a good, rich well drained soil to grow them to perfection, excellent border plants and fine for cut flowers.

Single Varieties

192 Scarlet Beauty. A charming and distinct color. Pkt., 15c.

193 Copper Red. A new and rich color. Attractive for cut flowers. Pkt., 15c.

194 Diadematus. One of the prettiest; flowers rose, spotted and sprinkled with white. Pkt., 10c.

DIANTHUS BARBATUS—Continued.

- 5197 Salmon. A very pleasing shade. Pkt., 10c.
- 5200 Atro - sanguineus. Single blood - red. Pkt., 10c.
- 5201 Roseus. Single pink. Pkt., 10c.
- 5202 Single Mixed. Pkt., 10c.
- 5203 Single Giant-Flowered Mixed. Pkt., 10c.
- Double Varieties*
- 5204 White. Pkt., 10c.
- 5206 Blood-Red. Pkt., 10c.
- 5207 Mixed. Pkt., 10c.
- 5208 Double Giant-Flowered Mixed. Pkt., 15c.
- 5209 Vaughan's Special Mixture, Sweet William. A mixture of all the beautiful varieties here listed and others. This is sure to please in the varied and unique coloring and markings of the flowers. Pkt., 15c.



DIGITALIS (Foxglove)

THREE to five feet. Stately old garden favorites for garden, shrubby borders and naturalizing in suitable places.

- 5213 Gloxiniaeflora, White. Flowers shaped and spotted like a gloxinia. Pkt., 10c.
- 5214 Pink. 5215 Purple. Each color. Pkt., 10c.
- 5217 Mixed Colors. Pkt., 10c.
- 5218 Grandiflora. Bright yellow. Pkt., 10c.
- 5223 Vaughan's Special Mixture of Digitalis. A grand mixture of the above, and many other colors, grown especially for this mixture. Pkt., 15c.



COREOPSIS Lanceolata

ECHINACEA (Coneflower). 4 ft.

- 5225 Hybrida. Flowers of various shapes, produced in a wide range of colors. Pkt., 15c.
- 5226 Purpurea. A very handsome border plant bearing large heads of rosy purple flowers, and dark central disc. Pkt., 15c.

ECHINOPS (Globe Thistle)

HANDSOME, strong-growing plants with thistle-like leaves and globe-shaped bristly flowers.

5227 Ritro. 3 ft. Metallic blue flower heads. Pkt., 10c.

GAILLARDIA (Blanket Flower)

JUNE to October, 2 ft. Their long-flowering period, long stems and bright colors make these one of the most valuable of perennials, being easily grown in beds or borders in ordinary garden soil.

- 5240 Grandiflora Mixed. Composite flowers, variegated with shades of red and yellow. Pkt., 10c.
- 5245 Maxima Kermesina Splendens. Center crimson, canary yellow border. Pkt., 10c.
- 5246 Sulphurea Oculata. Pale yellow, maroon eye. Pkt., 10c.
- 5247 New Hybrids. Very large flowers, in a great variety of colors. Pkt., 25c.

5250 GEUM Coccineum Atrounginea Plenum. 1½ ft. Flowers are double, bright scarlet in color and last well when cut. Very large and profuse bloomer. Pkt., 10c.

5252 Mrs. Bradshaw. Double. The orange-scarlet flowers are very large and full; comes quite true from seed and blooms the first year. Pkt., 25c.

GYPSOPHILA

GRACEFUL border and rock plants with small flowers on light stems. Greatly prized for cutting.

5262 Paniculata (Baby's Breath). 2 ft. July-Aug. Small flowers on branched stems, so thick as to give the plant a white lace-like effect. Pkt., 10c.

HELENIUM (Sneezewort)

DELIGHTFUL perennials allied to the Helianthus (Sunflower). Splendid and lasting as cut flowers.

- 5264 Autumnale Superbum. 5 ft. Large clear light yellow, flowers in Sept. Pkt., 10c.
- 5267 Bigelowii. 2 ft. Large rich yellow flowers. Pkt., 10c.
- 5268 Hoopesii. 2 ft. May-July. Rich orange yellow. Pkt., 10c.
- 5269 Riverton Gem. 2 to 3 ft. Covered from August to October with brilliant old gold and splashes of darker shades, changing later to wall-flower red. Pkt., 15c.

HESPERIS MATRONALIS (Sweet Rocket)

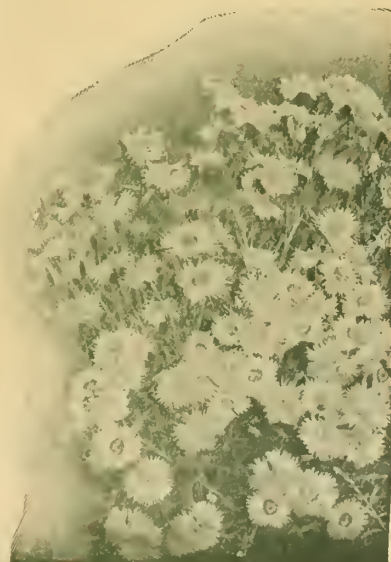
DELICIOUSLY sweet scented flowers for garden or cutting. Sow in spring in boxes and transplant in April or May—or sow in open ground in April for later bloom.

- 5276 Purpurea. Purple. Pkt., 10c.
- 5277 Alba. White. Pkt., 10c.
- 5279 HEUCHERA (Alum Root) Sanguinea. 2 ft. July-Aug. Long stems of large crimson-scarlet flowers. Splendid for cutting. Pkt., 25c.

HIBISCUS (Rose Mallow) 3 to 5 ft.

NOBLE shrub-like plants, with handsome green foliage, bearing throughout summer large bright flowers, from 3 to 5 inches in diameter. Very hardy. Suitable for garden and indoor use when cut.

- 5281 Crimson Eye. Creamy white flowers, large crimson center. Pkt., 10c.
- 5282 Golden Bowl. Deep cream, with a velvety maroon center. Pkt., 10c.
- 5283 Moschetos (Rose Mallow). Very showy pink flowers. Pkt., 10c.
- 5284 Mixed Mallow Marvels. Grand assortment. Pkt., 10c.



DIANTHUS (Hardy Pink)

Vaughan's Perennial Flower Seed



DIGITALIS (Foxglove)

HOLLYHOCK 6 to 8 ft. Aug. to Sept.

ONE of the best hardy garden flowers. Makes a charming hedge or background. Hollyhock rust is the bane of every person who tries to grow hollyhocks. There is no remedy, but much can be done to prevent it and reduce the damage by spraying the plants with Bordeaux mixture.

<i>Double Varieties</i>			
5286	White	5290	Salmon
5287	Pink	5291	Yellow
5288	Rose	5292	Crimson
5289	Black	5293	Blood-Red

Each color, pkt., 10c.

5299 Allegheny Mixed. Flowers come single, semi-double and double, seldom less than 5 inches across, and are beautifully fringed. They are perpetual bloomers, two to four buds forming at the base of every leaf, where the old-style Hollyhocks have but one or two. These buds open in succession, prolonging the flowering season until autumn. Pkt., 10c.

5300 Vaughan's Prize Mixture. Finest shades in perfect flowers. Pkt., 10c.

Single Varieties

MORE permanent and hardy than the double when planted with a deep green background, such as arborvitae hedge, they afford a most striking effect. Fine among shrubbery and will last for years when once established.

5301	Red	5305	Rose
5302	Pink	5306	White
5303	Black	5307	Salmon
5304	Flesh		

Each, pkt., 10c.

5308 Mixed. Pkt., 10c.

5309 HYACINTHUS Candicans. White Yucca-like flowers. Very decorative. Pkt., 10c.

5310 IRIS (Flowering Flag) Kaempferi (Japanese Iris.) The seeds we offer have been saved from our own unrivalled collection, and should produce only varieties of the highest merit. Seed of slow germination. Pkt., 10c.

IBERIS (Perennial Candytuft) 6 to 10 in.

DWARF evergreen plants, covered with blooms in spring and early summer. Excellent for rockeries or borders where bright dwarf masses are wanted.

5312 Gibraltarica. Pinkish white, bushy habit. Pkt., 10c.

5313 Sempervirens. Flowers form a sheet of whiteness. Pkt., 15c.

LINARIA (Toad Flax)

SHOWY free flowering plants of a trailing habit. Good for borders, window boxes, or rockeries.

5323 Cymbalaria (Kenilworth Ivy). 3 in. Dainty lilac and orange; flowers throughout summer; trailing habit. Pkt., 10c.

LINUM (Flax)

5326 Perenne. 2 ft. Pearly blue flowers. A graceful hardy perennial. Pkt., 10c.

5327 Album. Milk white flowers, very decorative. Pkt., 10c.

5328 Mixed. Pkt., 10c.

5348 LYCHNIS Chalcedonica (Jerusalem Cross). 3 ft. June-Aug. Burning Star. Flowers which are of the most fiery red imaginable, appear in clusters, each individual blossom forming a perfect maltese cross. Will bloom from seed the first year. Pkt., 10c.

5350 Alpina. 4 in. Clusters of rose colored flowers, dwarf. Pkt., 20c.

5353 Haageana Hybrids. Mixed, ranging from nearly white to bright scarlet. Pkt., 10c.

5354 Viscaria Splendens. 1½ ft. Makes large clumps of almost evergreen foliage. Comes into bloom in early June and continues for six weeks or more. Its flowers are bright crimson; useful for cut-flowers. Without doubt one of the finest red-flowered hardy perennials. Pkt., 10c.

MYOSOTIS (Forget-Me-Not). 4 to 9 in.

THE true forget-me-nots—a lovely dwarf plant for damp places, spreading rapidly and carpeting the ground. Makes excellent edgings and carpetings for beds or borders of perennial plants.

5359 Dissitiflora. Rich blue, early and compact. One of the best. Pkt., 10c.

5360 Palustris. The true Swamp Forget-me-not. Pkt., 20c.

5361 Semperflorens. Dwarf blue, in flower from early spring until autumn. Pkt., 20c.

WE list the seeds of Alpestris varieties among annuals as they are better treated as such by those who have no hot bed or cold frame accommodations for wintering the yearling plants.



GAILLARDIA GRANDIFLORA

OENOTHERA (Evening Primrose). 2 ft.

SHOWY and beautiful plants for borders, beds, etc., flowering from June to October.

5365 Fraseri. Rich golden yellow flowers. Pkt., 10c.

5366 Macrocarpa. 1 ft. Long trailing stems with large yellow flowers. Pkt., 10c.

PAPAVER—Poppy

5367 Nudicaule (Iceland Poppy). 15 in. Mixed. Elegant free flowering plants bearing flowers in abundance all summer. Pkt., 10c.

5368 Nudicaule Yellow. 5369 Orange. 5370 White. Any color. Pkt., 10c.

5371 Double Mixed. Extra fine strain. Pkt., 15c.

Please Order by Catalogue Numbers

ORIENTALE (Oriental Poppy). 3 ft.

FOR gorgeous coloring the Oriental Poppies have few rivals among hardy plants. They produce magnificent effect in shrubberies and herbaceous borders, while for cutting they are invaluable.

5375 Oriental Red. Pkt., 10c.

5376 Oriental Hybrids, Mixed. Pkt., 10c.

5382 PHLOX (Decussata). Perennial varieties mixed from a celebrated collection. Seed slow in germination and may not sprout in a year. Pkt., 10c.

5385 PHYSALIS Franchetti (Chinese Lantern Plant). 1½ ft. Flowers yellow with dark center. Produces balloon like husks, which turn bright red when ripe and resemble Chinese paper lanterns. Pkt., 10c.

PHYSOSTEGIA (False Dragon Head) 3 ft. June to Sept.

5386 Virginica. Dense bushes with spikes of delicate pink tubular flowers. Pkt., 10c.

5387 Alba. White. Pkt., 10c.

PLATYCODON (Chinese Moon Flower)

VERY handsome border plants of the Campanulid family; the flowers in bud having the appearance of inflated balloons, they flower from June to September.

5391 Grandiflorum. Large handsome deep blue flowers. Pkt., 10c.

5392 Album. Pure white. Pkt., 10c.

5393 Mariesii. 1 ft. Deep blue flowers, dwarf. Pkt., 10c.

POPPY—See Papaver

5410 PUERARIA Thunbergiana (Kudzu Vine or Jack-and-the-Bean-Stalk). 50 ft. Flourishes where nothing else will grow. The large bold leaves of the brightest green afford dense shade. Its greatest feature is its wonderful strong growth. Pkt., 10c.

PYRETHRUM

ONE of the most valuable of our early summer flowers. Charming color, and wonderful lasting properties as a cut flower; flowers in May or June, and frequently in August and September of colors almost every shade, which make the foremost in this particular season.

5411 Roseum, Double Mixed. Extra choice selected seed. Only a small percentage will be double, balance will be semi-double or single in fine variety. Pkt., 25c.

5412 Roseum, Single Mixed. Pkt., 10c.

5413 Roseum Hybridum Grandiflorum. Single Mixed. Pkt., 15c.

5443 STACHYS Lanata. Grown for the effect of its dwarf, white wooly foliage; the flow spikes should be removed. Pkt., 10c.

SWEET WILLIAM. See Dianthus Barbat

THALICTRUM (Meadow Rue)

5450 Dipteroacarpum (New). 4-5 ft. A new introduction from China. Very graceful plumes of rosy purple flowers and conspicuous yellow anthers.



HOLLYHOCK—Double Mixed

Gladioli in the Garden

By Katherine Butterfield

AUGUST 31, 1921, will be the eightieth birthday of the Gladiolus as a garden plant, the most stately, decorative, gorgeous and delicate of coloring and most reliable and easy of culture of all summer flowering plants.

On August 31, 1841, Louis Van Houtte, a famous French plant breeder, now best known for the snowy spiraea bearing his name (the Bridal Wreath), exhibited a collection of hybrid Gladioli, the first ever exhibited. These were named Gladiolus Gandavensis and were the parents of the present-day strain bearing the same name.

Van Houtte did not himself breed the Gladioli he displayed, but had found them in the garden of the Duke of Aremberg at Enghien,

rapidity with which it multiplies by bulblets and the profusion of its seed. It was eagerly seized upon by gladiolus breeders for it offered an ideal for which they had long struggled, a pure bright yellow and a loose, graceful spike previously unknown.

Van Houtte and Souchet had many rivals, but all devoted themselves to the gandavensis type until Lemoine, the great horticulturalist of Nancy, famous for his Lilacs, Syringas, Deutzias and other shrubs, exhibited the Lemoine hybrids at Paris in 1878. Shortly after that he experimented farther and developed the Nanceianus strain, characterized by the largest flowers yet developed. These he exhibited for the first time in 1889.

In Germany, a little later, Max Leichtlin, a world name in horticulture, produced another vigorous large-flowered strain which is now known as the Childsii strain. These three with the Primulinus are now the best known types, but there are others.

Principes Type Introduced by Vaughan

AMERICAN plant breeders took up the gladiolus more slowly. Dr. W. Van Fleet, more famous as a rose originator, has made some valuable contributions. A. E. Kunderd of Goshen, Ind., produced a ruffled strain as well as a number of other valuable kinds. Mrs. Pendleton being one of the best, and Myrtle, the finest pure pink.

A great advance in gladiolus breeding was brought about by the introduction of Gladiolus Principes, originated by Dr. Van Fleet, and introduced into commerce by J. C. Vaughan of Vaughan's Seed Store. It was the forerunner of a race of magnificent giant flowered varieties. Principes is an enormous flower of brilliant red with glitteringly contrasting white stripes on the lower petals. It has given some wonderful seedlings.

Gladiolus breeders have had three color ideals, a pure, unsullied white, without spots or lines, a blue and a pure golden yellow. The white and yellow have been attained but the blue—a true, pure blue, is yet to come, though there are purples, lavenders and pale blue shadings.

Every conceivable shade in red, pink, rose, purple, lavender, lilac, violet, yellows and oranges may be found with a marvelous and infinite variety of spotting, striping, flaking, picotée edging and blotching and with a most remarkable diversity in the shape of the flowers from the closely hooded Lemoinei and some of the Gandavensis type to the widely flaring Principes. They differ in size from an inch and a half to six inches or more under intensive cultivation. They also vary in height. It is merely a matter of picking the color or style wanted from the catalogues. There are thousands of named varieties, some breeders cataloguing only their own productions.

American gladioli now lead the world and their superiority is being recognized abroad in awards by horticultural societies. Intensity of color, size of flowers and sturdiness of growth are characteristics. Our hot summers are better calculated for their development than the climate of European countries.

Easiest of Flowers to Grow

THE culture is simple. Stick the bulb in the ground almost any way and it is likely to give flowers of some kind. There is one requi-

site, however. A gladiolus must have sun and lots of it, and the better the soil the better the flower. It is advisable not to grow them more than three seasons at most in the same location. If possible, they should be changed every year. The various types have their peculiarities. Some produce their best bloom only in alternate years.

It is a good plan to spade in a good dressing of manure in the fall. In the spring the ground should be spaded deeply and finely pulverized. If the manure is added at this time, it should be well rotted, otherwise use a commercial fertilizer (see page 57). Plant the bulbs about six inches deep unless the soil is unusually heavy, when four is enough. With the deeper planting the necessity of staking is largely obviated and this is a burdensome task if many bulbs are grown.

Plant at intervals of a week or two, for a succession of bloom from the time the weather is safely frost-proof until July 1.

Bulbs which are sprouting should be planted early and those that show the least inclination to sprout saved for the later plantings.

Four to eight inches apart in rows, according to the size of the bulbs, is about right. If the soil is not well enriched, however, it is better to give them more room.

For the finest blooms, liquid manure should be given in weak, but frequent doses, as the blooming season approaches. Pulverized sheep manure may be raked into the soil, but not too close to the bulbs. Frequent soakings of the soil in the evening if the weather is dry are a big help. The soil should be kept stirred and formation of a crust prevented. Ground bone or bone meal and nitrate of soda at the rate of a tablespoonful to two gallons of water may be used with good effect.

The more carefully and frequently fertilizer is applied, if not given in too great strength, the finer the bloom and the greater the vigor of the plants. If prize winning blooms are desired, the bulbs should be set at least a foot apart and in rows two feet apart so that each bulb may secure all the plant food it can use without competition.

In the fall before heavy frosts set in, dig the bulbs and allow them to dry with the tops attached. Then cut off the tops and store them in a dry, cool, but frost-proof place.

Supreme As Summer Cut Flower

THE greatest value of the gladiolus as a garden flower is that it thrives in mid-summer heat, when there is little else in bloom.

Clumps of a single variety make a striking effect with a background of shrubbery or evergreens. Nothing is finer in the perennial border to refurbish plantings of early spring flowers.

But it is as a cut flower that the gladiolus is at its best. It blooms even better when cut than when left growing. Cut when the lowest buds open and placed in water, every flower on the spike will unfold in turn.

Nothing is easier than increasing a stock of bulbs. The bulblets found clinging to the bottom of the old bulb when it is dug in the fall can be raised to blooming size in two seasons. They should be soaked in warm water for a few hours and planted in drills like seed in the spring and cultivated during the summer.



Just what humble gardener crossed them and tenderly raised them or whether they were natural hybrids is not known.

The Gladiolus has never enjoyed a common name. It should be pronounced with the accent on the "di" according to strict Latinists, but to the plain every-day gardener the stress falls on the "o." The word means, literally, "a little sword," from the shape of the sharp pointed, rather slender, leaves.

Although 1841 marked the advent of the Gladiolus as a garden plant, it had been known to botanists for many years. It was first brought to Europe in the 18th Century by Dutch explorers from South Africa, among other so-called "Cape" bulbs, so named because they came from the region of the Cape of Good Hope. Nearly all of these cape bulbs are members of the Iris family and their leaves are almost exactly alike, varying only in size. A Freesia or a Montbretia looks like a small Gladiolus until its bloom distinguishes it.

Souchet, another famous Frenchman who saw the new flowers shown by Van Houtte, realized their possibilities and started selecting and hybridizing until he made them more a product of his own than of Van Houtte's. From France they spread into England and Germany.

New species were discovered from time to time, as Africa was penetrated, some growing on the plains, some in the mountains, until now there are about 140 species classified by botanists and the hybridist has a vast field for experimentation, as only a few of them have been used to date in producing the modern strains.

Gladiolus primulinus, discovered in 1905, growing at the foot of the Zambesi falls is the latest addition to the garden list, and a most important one.

There are now scores of named primulinus hybrids, it having made more rapid progress than any other pronounced type because of the

Well Known Types of Gladiolus Blossoms



Primulinus hybrid

Gandavensis

Nanceianus

Ruffled

Vaughan's Gladioli

Grown on our Farms. Free from Disease

GLADIOLI are the most attractive and useful for cut flowers of all the summer flowering bulbs. They give you giant spikes of perfect flowers with wonderful colors in fascinating profusion; often changing as each flower opens fully.

We grow over one hundred acres of these bulbs and harvest many hundreds of thousands, developing every year scores of new Hybrid Seedlings which surprise even our own trained men with their new types and giant blooms in novel colors.

The long graceful spikes carrying often twenty buds may be cut as the first lower flower opens, placed in water each successive bud develops a perfect flower. Our collection consists of the finest types of French, Dutch and American Hybrids. Our counter displays during August and September attract much favorable attention, at which time many buyers make selection. We also display at many Garden Club Shows.

Plantings each ten days from April to mid June will provide flowers from August to October. Planting directions given free on request.

Parcel Post 12 bulbs weigh 1 lb.; 100 bulbs 6 lbs. Add postage at zone rates.

Vaughan's Finest Introductions

***MRS. FRANCIS KING** (Leading Decorative Gladiolus). This has become the most popular and effective variety for window, store and hotel decorations. The long, strong flower stalks and foliage, its effective flower spike with a good line of reserve buds continually opening, with flower $4\frac{1}{2}$ inches across, five to six flowers will spread out on the spike at the same time, its brilliant vermilion scarlet color gives for vases, in hotel lobbies and dining rooms, parlor decorations, etc., an effect not produced in any other Gladiolus. Large bulbs, each, 8c; doz., 75c; per 100, \$4.00. Medium bulbs, each, 5c; doz., 50c; per 100, \$3.00.

***THE DETROIT**. A giant flower with orchid colorings. Fully developed flowers measure five inches across. The color is a light pink with deeper pencilings of light crimson on the inside and outside of the upper petals, and with carmine splashes overlaying sulphur on the center third of the lower petals. Some of the flowers show little of the penciling on the upper petals. The flower spike is long and strong like Mrs. Francis King with 13 flowers to the spike, six flowers open at a time. The general effect is as light as America. This is the largest Gladiolus flower we know of. Price, each, \$1.00; doz., \$10.00.

***PONTIAC, Princes** (Giant Seedling of Princes). Considerably lighter red. Very large flower with Princes throat markings. Petals slightly striped with deep vermilion stalk as strong as Schwaben and a taller grower than King. Price, each, \$1.00; doz., \$10.00.

***MARTHA WASHINGTON**. Flowers light red, but with dark, almost black blotches on the three lower petals. They set evenly and regularly on the stalk, which usually contains about 13 to 15 flowers, with 5 or 6 open at a time. Price, each, 35c; doz., \$3.50.

ALINE. Pure white, slightly striped crimson. Each, 15c; doz., \$1.50; 100, \$10.00.

AMERICA. Soft lavender pink. Large bulbs. Each, 8c; doz., 75c; 100, \$4.00.

Medium bulbs. All good bloomers. Each, 5c; doz., 50c; 100, \$3.00.

ANNIE WIGMAN. Pale yellow, dark blotch. Each, 10c; doz., \$1.00; 100, \$7.00.

ATTRACTION. Deep crimson, with large white center and throat. Each, 10c; doz., 75c; 100, \$4.25.

AUGUSTA. Pure white, blue anthers. Large bulbs. Each, 10c; doz., 85c; 100, \$4.50.

Medium Bulbs. All good bloomers. Each, 7c; doz., 65c; 100, \$4.00.

BARON J. HULOT. Dark velvety purple. Each, 12c; doz., \$1.25; 100, \$8.00.

BERTRAX. Pure white flowers of great substance. Each, 20c; doz., \$2.00; 100, \$15.00.

BLANCHE. Pure white, with very faint markings. Each, 25c; doz., \$2.75; 100, \$20.00.

BOUQUET D'OR. Cream yellow suffused pink with deep cherry red, yellow blotch. Each, 10c; doz., \$1.00; 100, \$7.00.

CANARY BIRD. Clear canary yellow. Each, 15c; doz., \$1.50; 100, \$10.00.

CHARMER. Soft mauve-pink, blending off lighter in the throat which is penciled carmine-lake with a large blotch of same color on lower petals. Each, 12c; doz., \$1.25; 100, \$8.00.

***CHAS. L. HUTCHINSON**. The color of the flowers is a rich blood red, the middle rib of each petal being a shade deeper with a velvety lustre. Free flowering. Each, \$2.00.

***MARGARET**. A brilliant carmine with a large white blotch on the lower petals, the white and carmine blending into a violet tint. The spike is straight and strong, never twisted or deformed. The flowers are large, beautifully arched and 6 to 7 are open at one time. They are arranged in two rows, facing the same way, and set without crowding. A good cut flower; if cut when the first flowers open, is usable for ten days. Price, each, 20c; doz., \$2.00; per 100, \$15.00.

***PRIMULINUS "SUNBEAM"**. One of the first varieties of Primulinus blood in America to receive a name. This variety, which we introduced in 1914 for the first time, is a cross of select yellows from the Primulinus Mixture, with the variety Sulphur King. The graceful form of all of the Primulinus type insures their popularity in our best Decorative Class. It has a clear yellow color and is a strong grower. Price, each, 12c; doz., \$1.25; 100, \$8.00.

***FIELD MARSHAL HAIG**. A very attractive shade of light salmon-pink with ox-blood-red blotches. Medium in season, flowering in about 85 days from planting. Habit erect, with a good well opened flower spike with often eight to ten flowers showing at one time at its prime. The ruffled edges put the variety in the desirable novelty class in form as well as color. This variety does well in a cool or moist soil. Price, each, 45c; per doz., \$4.50.

***MRS. W. S. BREWSTER**. A new Nanceianus seedling, and one of the best of this fine type. The color is white, overlaid bluish, blotched brilliant red with a creamy halo; the whole forming a most pleasing blend entirely distinct and unique. The flowers are large, produced in a double row with six open at a time all facing one way in a shapely compact spike. It is an early flower, 4 feet. Good keeper. Price, each, 35c; doz., \$3.50.

***CHICAGO RED**. Brilliant scarlet, large, opens well. Each, 12c; doz., \$1.25; 100, \$8.00.

***CHICAGO SALMON**. Clear Salmon with carmine throat. Each, 15c; doz., \$1.50; 100, \$10.00.

***CHICAGO WHITE**. White, lavender marking in throat. Each, 10c; doz., 75c; 100, \$4.50.

CONTRAST. Large scarlet with white center. Each, 35c; doz., \$3.50; 100, \$25.00.

CRYSTAL WHITE. One of the best pure whites. Each, 10c; doz., 90c; 100, \$6.00.

DAZZLER. Magnificent large Princes-like flowers of vivid salmon-scarlet with throat blotch of red-orange on lower petals, further ornamented with carmine-lake flakes; fine long spikes well-filled. Each, \$1.00; doz., \$7.50.

DESDEMONE. Ashy-rose striped lilac; large dark red blotch, edged Ivory-white. Immense spike of double-row flowers well placed. Each, 30c; doz., \$3.00; 100, \$22.00.

ELIZABETH KURZ. Pure white with faint marking. Each, 15c; doz., \$1.50; 100, \$10.00.

EUROPE. Pure white. Best white we know. Each, 15c; doz., \$1.50; 100, \$10.00.

FASCINATOR. Splendid large flowers of salmon-pink tinted with flakes of carmine, throat bluish with carmine-lake pencilings, long spike, graceful. Each, 12c; doz., \$1.25; 100, \$8.00.

FIRE KING. Long graceful spikes showing half a dozen immense blooms open at the same time. Color intense fire-scarlet. More brilliant than Brenchlyensis or Cardinal. Is perfectly grand. Each, 10c; doz., 90c; 100, \$6.00.

*Introduced by Vaughan's Seed Store.



FLAMBEAU. Immense flowers of vivid orange-scarlet with an effective throat blotch of white, shaded and marked with tyrian-lake on the lower petals. Each, \$1.00; doz., \$10.00.

FLORENCE. Bright lilac, white blotch on lower petals. Each, 45c; doz., \$4.50.

EVELYN KIRTLAND. The flowers, of strong substance are a beautiful shade of rosy pink, darker at the edges, fading to shell-pink at the enter with brilliant scarlet blotches on lower petals; the entire flower showing a glistening, sparkling lustre. Very tall spike. Extra fine form and color. Each, 25c; doz., \$2.60; 100, \$20.00.

***GIANT WHITE**. A very large flower. Each, 30c; doz., \$3.00; 100, \$22.00.

GLORY OF HOLLAND. Pure white. Each, 10c; doz., \$1.00; 100, \$7.00.

GLORY OF BRIGHTWOOD. Scarlet, lemon throat. Each, 10c; doz., \$1.00; 100, \$7.00.

GORGEOUS. Vivid scarlet, with large, strongly contrasting, silvery white throat blotch on three lower petals. Each, 15c; doz., \$1.60; 100, \$12.00.

GRETCHEN ZANG. A fitting companion to the Evelyn Kirtland. Large heavy sparkling blooms, a beautiful soft melting shade of pink blending into scarlet on lower petals. Spike tall and graceful. Each, 15c; doz., \$1.50; 100, \$10.00.

GOLDEN KING. A brilliant golden yellow, with intense crimson blotch in throat, giving a magnificent effect. Flowers well opened and well set on a very careful spike. Each, 10c; doz., 90c; 100, \$6.00.

HALLEY. The predominating color of these flowers is delicate salmon-pink with a slight roseate tinge, though the lower petals bear a creamy blotch with a stripe of bright red through the center, the whole producing a delightful effect. Each, 10c; doz., 90c; 100, \$6.00.

HERADA. Something entirely different, but another good one. Blooms of immense size on tall straight spikes. Massive in every way. The large blooms are pure mauve, glistening and clear, with deeper markings in throat. A very attractive color. Each, 20c; doz., \$2.00; 100, \$15.00.

Vaughan's "Primulinus Sunbeam" was awarded First Prize for the best yellow at Monmouth County Show, 1917.



SCHWABEN



EUROPE



"RUFFLED" GLORY



MARGARET

HYDE PARK. Frosty sparkling white, penciled and feathered with light and dark rose, but the lower petals are much more distinctly blotched with cream. Each, 10c; doz., \$1.00; 100, \$7.00.

KLONDYKE. Light yellow, with crimson. Each, 10c; doz., 90c; 100, \$6.00.

LA LORAINÉ. Bright salmony-red, blotch dark purplish red. Each, 25c; doz., \$2.50.

LUSTROUS. Large flowers of lovely orange-rose; lower petals have a large throat blotch of yellow, slightly shot with purplish-lake. Each, 20c; doz., \$2.00; 100, \$15.00.

MRS. W. E. FRYER. Bright scarlet. Each, 35c; doz., \$3.50.

MENTOR. Slate color with a rosy hue, red blotch on white ground. Each, 40c; doz., \$4.00.

MARY BLACKMAN. Flowers salmony red; feathered and penciled with carmine. Each, 20c; doz., \$2.00.

MARGARET. A brilliant carmine, with a large white blotch on the lower petals, the white and carmine blending into a violet tint. The spike is straight and strong. Each, 20c; doz., \$2.00; 100, \$15.00.

MYRTLE. Tender and delicate rose pink. "The most beautiful pink yet produced in Gladiolus." Brings highest price of any variety in the Chicago market. Each, 15c; doz., \$1.50; 100, \$10.00.

MORNING STAR. White with crimson throat. Each, 10c; doz., 90c; 100, \$6.00.

MADAME APPERT. Tall plant; large well opened flowers of carmine-rose color; blood red blotch on a white ground; white middle band. Each, 35c; doz., \$3.50.

MRS. FRANK PENDLETON. Flushed salmon pink, with rich maroon blotch on the three lower petals. Each, 12c; doz., \$1.25; 100, \$8.00.

MEPHISTO. Coppery scarlet. Each, 40c; doz., \$4.00.

MRS. FRANCIS KING. Brilliant vermilion scarlet. Most popular and effective variety for all occasions. Large bulbs, each, 8c; doz., 75c; 100, \$4.00. Medium bulbs, each, 5c; doz., 50c; 100, \$3.00.

MRS. W. S. BREWSTER. White overlaid blush; blotched brilliant red with a creamy halo. Each, 35c; doz., \$3.50.

NIAGARA. A delightful cream shade blending to canary yellow, splashed with carmine. Each, 10c; doz., \$1.00; 100, \$7.00.

NEZINSCOTT. Bright blood scarlet with deep velvety crimson-black blotch and white mottlings. Each, 12c; doz., \$1.25; 100, \$8.00.

ORANGE GLORY. Bright orange with slight purple and white markings in throat. Each, 35c; doz., \$3.50.

PANAMA. A grand variety which evokes words of praise wherever exhibited. Color, rich salmon-pink. Each, 10c; doz., \$1.00; 100, \$7.00.

PEACE. A grand white flower, very large, with pale violet feathering on lower petals; flowers correctly placed on a tall graceful spike. Should be planted early. Each, 10c; doz., \$1.00; 100, \$7.00.

PRINCEPS. Brilliant scarlet crimson, carrying mostly three white blotches on lower petals. Each, 10c; doz., \$1.00; 100, \$7.00.

PRIMULINUS MAJOR HYBRIDS. Each, 10c; doz., 90c; 100, \$6.00.

PINK PERFECTION. Delicate apple blossom pink. Each, 15c; doz., \$1.50; 100, \$10.00.

RUFFLED GLORY (With "Ruffled" Petals). Delicate pink, with crimson stripe in the center of each lower petal. The broadly expanded, wide open, paired flowers, all face in the same direction and are carried on straight, stout 3½ feet stalks. Each petal is exquisitely ruffled. Each, 15c; doz., \$1.50; 100, \$10.00.

ROSY SPRAY. White, beautifully sprayed rose. Each, 10c; doz., 90c; 100, \$6.00.

SCRIBE. Tender rose, tinted white, striped carmine. Each, 10c; doz., 90c; 100, \$6.00.

SHAKESPEARE. Blush white, with large rosy blotch. Each, 10c; doz., 90c; 100, \$6.00.

SILVERETTA. Blush white with carmine blotch. Each, 35c; doz., \$3.50.

SCHWABEN. Clear canary yellow, shading to soft sulphur. Each, 12c; doz., \$1.25; 100, \$8.00.

SPHINX. Very tall plant; long spike of pure lilac red flowers, with a purplish-red blotch and a white band on the lower petals. Each, 35c; doz., \$3.50.

SULPHUR KING. Clear sulphur yellow. Each, 15c; doz., \$1.60; 100, \$12.00.

WAR. Deep blood-red, shaded crimson-black. Each, 15c; doz., \$1.50; 100, \$10.00.

WILLY WIGMAN. Creamy white, scarlet blotch. Each, 10c; doz., \$1.00; 100, \$7.00.

WILD ROSE. Delicate rose. Each, 10c; doz., \$1.00; 100, \$7.00.

Mixtures and Special Offers

Vaughan's Rainbow Mixture. This name has been chosen by us for the highest quality blendings of the many excellent named varieties shown on this page, including French kinds with several other choice varieties of which we do not have sufficiently large quantities to offer in our catalogues. This is the best mixture we can make up, and we believe unexcelled by that offered by any American firm. Price, doz., \$1.00, postpaid; by exp., 50 for \$2.75; 100 for \$5.00; 250 for \$12.00; per 1000, \$45.00.

Extra Fine Mixed. This mixture contains many of the new named sorts used in the "Rainbow" with fifty per cent of standard best kinds mixed together. This insures a wide range of colors, shades and types. Doz., 75c, postpaid; by exp., 50 for \$2.25; 100 for \$4.00; per 1000, \$32.00.

Vaughan's Standard Mixed. We have thrown away all the common and cheap left-overs which our trial grounds have proved to exist

in old mixtures. We do not send out any mixtures that will not make a brilliant showing in the gardens of our customers. This one, "STANDARD MIXED," will be found satisfactory everywhere, except where special named kinds are wanted. They are useful for mixed beds, borders and masses. Price, doz., 45c, postpaid; by express, 50 for \$1.50; 100 for \$2.75; 250 for \$6.75; 500 for \$13.00; per 1000, \$25.00.

Special Offer No. 100B. Two each of the following six varieties sent by mail, postpaid, for 75c: Mrs. Francis King, America, Chicago White, Schwaben, Halley, Baron J. Hulot.

Special Offer No. 200B. Two each of the following six varieties sent by mail, postpaid, \$1.00: Chicago White, Chicago, Panama, Chicago Red, Peace, Klondyke, Panama.

Special Offer No. 300B. Two each of the following six varieties sent by mail, postpaid, for \$1.25: War, Margaret, Primulinus, Sunbeam, Mrs. Frank Pendleton, Pink Perfection, Baron J. Hulot.

GLADIOLI IN COLORS

Blue shades, doz., \$1.00; 100, \$7.00.
 Lilac and Violet, doz., \$2.00; 100, \$15.00.
 Pink, doz., 50c; 100, \$3.25.
 Pink and White, doz., 75c; 100, \$5.00.
 Scarlet and Red, doz., 50c; 100, \$3.25.
 Scarlet with White, doz., 60c; 100, \$4.00.
 Striped shades, doz., 60c; 100, \$4.00.
 White and Light, doz., 50c; 100, \$3.25.
 Yellow shades, doz., 75c; 100, \$5.00.



ACTUAL SIZE OF BULBS USED IN HOMEWOOD MIXTURE.

Homewood Mixture. This is a fine grade of bulbs about one inch in diameter, all blooming size, selected from some of the choice kinds we grow in large quantities on our farms. They will give as large a spike as a fully matured bulb, but as they do not come up to the specified size for our regular trade, we make this special offer to those who want a moderately priced grade of some of the choicest kinds. The best pinks, whites, reds and many odd and pleasing shades are included. Price, prepaid, 50 bulbs for \$1.00; by express at purchaser's expense, 250 for \$4.00; 500 for \$7.00.

*Introduced by Vaughan's Seed Store.



Planting the Home Grounds

By C. L. Burkholder

Purdue University

Some desire plantings which grow rather tall, others low groups of shrubs. Group 8 is a planting that will attain a height of six to eight feet; group 10 only half that height.

Where the steps are at the side only half of one of the porch plantings could be used. One of the main things in the suggestive plantings for the foundation of the porch and corners of the house is to show what varieties of shrubs work well together and what distance apart they should be planted. Often there is a long straight stretch along the side of the house which is always best broken up by a small mass planting of shrubs, such as Group 5, for instance.

Always plant in clumps and never plant in straight lines. The secret of naturally attractive grounds is a natural grouping or placing of shrubbery in masses with open stretches of lawn between. That is why a star shaped flower bed always strikes a discordant note in well arranged grounds.

ENTRANCE PLANTINGS

NEXT to the entrance of the house one of the most important places requiring plantings of shrubbery is about the entrances of walks and drives. In entering the grounds you begin to form your opinion of the whole place as soon as you reach the gate.

A walk leading to the front steps is always a prominent feature and a planting on both sides of the outside gate adds greatly to the naturalness and beauty of the entrance.

Usually low varieties of shrubbery are most desirable for this location but sometimes a mass of medium height plants seems more desirable according to the location, in which case a group such as Group 8 can be substituted for Group 10, the low planting suggested for this location.

SCREEN PLANTINGS

IN almost every grounds there is a building or view that detracts from, rather than adds to the attractiveness of the whole scene. How easy it is to cover up such a view with one that is pleasing.

The small planting suggested for the side of the house makes an ideal screen when placed in front of a small building. In case of a large building the corner plantings suggested for the corners of the house can be used to advantage, linked together by Group 5. The higher the building the higher the varieties of shrubbery which can be used.

Sometimes a view somewhat in the distance is the objectionable feature, such as a barnyard shed or chicken coop. A tall planting of shrubbery along the boundary of the grounds will screen this and at the same time provide a delightful variation of flowering plants, some of which will be in bloom every month of the summer. Group 1 is a suggestion along this line.

This planting also makes an ideal one for the side of the grounds, cutting off the view for a few feet and bringing out and intensifying it at the ends. It is a good plan to screen off another house in the next grounds and at the same time give privacy to your own grounds.

CORNER PLANTINGS

IN moderate sized places a planting in the front corners of the grounds is almost a necessity for the best effect. This planting may be of low growing shrubbery and of only a few plants, if the grounds are small.

The entrance plantings in Group 10, for instance, might be used in the corners of a small front yard and no plantings be used about the walk entrance. However, shrubs about the size of those in Group 8 ordinarily are well suited to this location. The back corners of the grounds naturally take higher plantings. They are the background for the whole planting scheme.

THE BIRD'S CORNER PLANTING

A GREAT many people enjoy having birds about their grounds. Winter species of birds especially cannot make their home in

grounds where no provision has been made for feeding them. Blue Jays, for instance, feed on a great variety of winter berries such as bitter sweet, wahoo, sumac, wild grape and dogwood berries.

In the summer, Robins are especially fond of blackberries, raspberries and mulberries. Groups 9 and 14 have a selection of shrubs which provide food for birds the year around. The mulberry tree in Group 14 would make a good place to put bird boxes or to hang pieces of beef suet in the winter. Birds belonging to the Woodpecker family are very fond of beef suet.

HEDGE PLANTS

SOME locations almost require a hedge of some sort. There are a number of exceptionally good shrubs that make fine hedges. Of the Privets, Iloba, Amour River and Common Privet are all good while the California Privet should never be planted in north central United States because of winter killing.

The Rugosa rose makes a natural hedge plant without any pruning except to cut off straggling shoots. The single roses are produced in abundance over a long season. The foliage is very resistant to disease and insect attack.

Probably the best shrub for a low hedge is the Japanese Barberry. It is not attacked by wheat rust. The autumn coloration is as brilliant as any other shrub used for landscape purposes and the red berries hang on all winter.

VINES

NO vines are included in the foundation planting groups. Everyone has his favorites. The greatest effect for the investment can often be realized through the purchase of a few vines for the porch. A couple of Virginia Creeper plants will quickly transform a porch from a gaunt, unattractive structure to one of beautiful green.

The Japanese Clematis is naturally a favorite because it is hardy, a vigorous grower and the only one of the porch vines to bloom profusely in the fall. Hall's Japanese Honeysuckle is noted for its fragrance and habit of blooming almost continually throughout the summer. The Wisteria is an old favorite and is an excellent porch or pergola climber. No porch is complete without at least one vine. A Rambler rose, a honeysuckle and a clematis give almost a continual succession of bloom during the entire summer.

BULBS

THE first bloom in the spring is always appreciated more than one of three times its beauty later on in the summer. Along the edge of the shrub beds is the ideal place for plantings of tulip, crocus, daffodil and narcissus. An old broom handle sharpened on one end makes the ideal tool for planting bulbs. Punch it into the ground the desired depth, drop in the bulb, growing point up, press down the dirt over the hole with the foot and the bulb is planted. These bulbs must be planted in the fall or early winter. (Note: Vaughan's Seed Store Bulb Catalogue is issued annually, September 1, and will be sent free on request.)

PERENNIALS

SO far nothing has been said about flowers for the inside of the house. Here lies one of the greatest sources of pleasure and enjoyment of flowers. The annual flowers require planting each year while the perennials do not require half the attention and present equally as varied a collection of desirable blooming varieties.

Once planted they are a joy for years to come.

Some prefer to use perennials in a formal garden effect, as in Group 12, but the majority like them in a bed similar to Group 11. This last group is composed of a few of the very hardiest and most attractive perennials.

The blooming season for the group starts early and lasts till frost time in the fall. It will furnish a continual procession of cut flowers for the house and while not a large planting, if given average care can be enlarged the second year by dividing the largest clumps. The cost of such a planting is within the reach of everyone.

IT is not absolutely necessary to employ a professional landscape architect to landscape your home grounds. Of course for those who can afford this additional expense it is no doubt the best way. On the other hand there is an immense measure of satisfaction to be derived from a piece of work you yourself have laid out and planted. It is the object of this article to discuss briefly the principal things to be taken into consideration in landscaping the home grounds of moderate extent and to offer suggestions as to varieties and locations of groups of perennials, shrubs and bulbs which have been found most satisfactory in central and northern United States.

THE LAWN

EVERY effort toward home ground beautification must fail for lack of a good lawn. It is the setting for all else.

So many times the lawn is underlaid with poor dirt which has been taken out of the cellar of the house. The result is the growth of grass is weak and patchy. The cure is to buy a "complete fertilizer" with a high percentage of nitrogen (See page 57). Scatter this over the lawn in the spring at the rate of one pound to every twenty-five or thirty square feet. Repeat later on in the summer if the lawn has not shown sufficient improvement.

The close clipping the lawn gets during its entire growing season prevents the production of seed which is Nature's way of keeping a good stand of grass. Every spring a little grass seed should be scattered over the lawn. This should be done while the ground is still freezing and thawing. A good grass seed mixture is best for this purpose. (See page 23.)

HARDY FLOWERING SHRUBS

AVOID the use of too many flower beds except in their proper place. Nothing does more to destroy a fine piece of landscape work than geometrical flower beds scattered about the lawn.

The hardy flowering shrub is one of the best materials for all plantings up to ten or twelve feet in height. They live for a great many years, produce the same flowering effect you get from annual plants and if you leave home for a month they are even more beautiful when you return.

FOUNDATION PLANTINGS

IN starting to landscape the home grounds invariably the first place to receive treatment is the foundation of the house. This is the most prominent place and there always seems to be a need of some sort of planting to connect up the house with the grounds and make it a natural part of the whole scene. The first place to receive consideration should be the main entrance.

A Spiraea Van Houtte planted on either side of the entrance is a foundation planting well started. Work from this point around the house. It is not desirable always to cover up all of the foundation unless it is made of some unattractive material such as cement blocks. Naturally it takes a knowledge of shrub varieties, character of growth, height, color and time of flowering to work out intelligently such a foundation planting. It is to furnish this type of information that groups particularly suited for special locations have been drawn up as illustrated on the opposite page. In a majority of cases they can be used just as arranged, a little change in the general shape of the group will fit them to any location.

A house built close out on the street would be "overdone" if group 3 were used; group 4 would be more suitable under such conditions

CARE OF SHRUBBERY AND PERENNIALS

UP to this time the discussion has not mentioned the care of shrubs or perennials. It is not as much as required by an annual flower garden of equal size. However, it must be remembered that, especially when first planted, shrubs and perennials are babies and cannot complete unaided with their natural enemies, the weeds. Above all else keep the shrub beds covered with a heavy coat of manure at least three inches thick the year around. The perennial beds should also be kept mulched with manure.

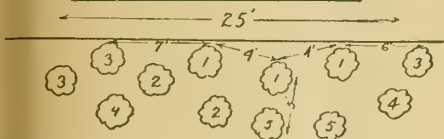
It is always best to give a heavy application in the early winter and work this in about the shrubbery and perennials in the spring. More manure and less watering is a good rule to follow. The manure furnishes plenty of food and conserves moisture.

Vines around the porch and house have unusually adverse soil and moisture conditions and each vine should get at least two bushels of manure a year. Do not blame the nurseryman for your losses if you have not been willing to give your plantings this much attention.

It is not necessary to do a whole lot in one year. Start out with a few plantings of shrubs and perennials. Be sure to hoe them enough to keep the weeds down the first year and mulch heavily with manure. The varieties of shrubs and perennials suggested in this article are the pick of the hardy varieties. A trial of any of them will bring satisfaction and pleasure if given the small amount of attention that has just been described.

Planting Groups to Fit All Situations

1—A Screen Planting



Symbol No.	No. Plants
(1) Philadelphia grandiflorum—Syringa	3
(2) Spiraea Van Houtte—Bridal Wreath	2
(3) Lonicera Tartarica—Rosea—Bush Honeysuckle	3
(4) Forsythia intermedia—Golden Bell	2
(5) Cornus Sibirica—Red Osier	2
	<hr/> 12

This planting is selected for the purpose of screening off an objectionable view. The first four varieties are among the hardiest and best of the flowering shrubs while the Red Osier with its fiery red branches gives a beautiful color effect in the winter. This group of shrubs will ultimately grow to a height of ten feet or more.

Twelve shrubs for planting Group No. 1 complete, of the following sizes: (1), (2) and (4), 3 to 4 feet high; (3), 5 to 6 feet, and (5), 2 to 3 feet, will be sent by express for \$9.00.

3—For Porch Foundation

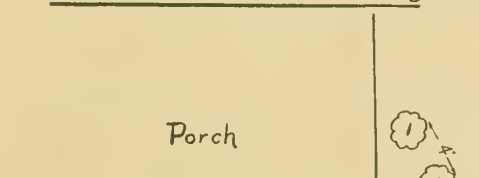


Symbol No.	Total Plants
(1) Spiraea Van Houtte—Bridal Wreath	4
(2) Spiraea Thunbergii—Thunberg's spiraea	2
(3) Viburnum opulus—High Bush Cranberry	4
(4) Berberis Thunbergii—Japanese Barberry	4
(5) Symphoricarpos carpus racemosus—Snowberry	4
(6) Weigelia rosea—Pink Weigelia	2
	<hr/> 20

All the varieties used in this combination are attractive bloomers. Following the bloom the Snowberry, High Bush Cranberry, and Barberry produce fruits which cling to the plants the greater part of the winter. Short sprays of these berries are often used for table and fireplace decorations. The group will stand considerable shade, altho doing best with at least a half day of direct sunlight. The arrangement takes 10 plants to each side of the porch, or 20 in all.

Twenty shrubs for planting Group No. 3 complete, of the following size: (1), (3), (5) and (6), 3 to 4 feet; (2), 1½ to 2 feet; (4), 4 year, will be sent by express for \$15.00.

4—Skeleton Porch Planting



Symbol No.	Total Plants
(1) Forsythia intermedia—Golden Bell	2
(2) Weigelia rosea—Pink Weigelia	2
(3) Symphoricarpus racemosus—Snowberry	2
(4) Spiraea Van Houtte—Bridal Wreath	2
(5) Viburnum Lantana—White Lantana	4
	<hr/> 12

This group does not give quite as satisfactory results as Group III which contains eight more plants. However, the plants at the corner of the porch give a very good mass effect. The Golden Bell blooms as soon as the frost is out of the ground. Short branches are often cut

and placed in water in the house where they quickly come into full bloom. The Viburnum Lantana has a very beautiful bloom in June and later the shrub is covered with showy clusters of red fruit. It retains its foliage till December 12. Plants make up the list for both sides of the porch.

Twelve shrubs for planting Group No. 4 complete, all from 3 to 4 feet high, will be sent by express for \$8.25.

5—To Break a Straight Line

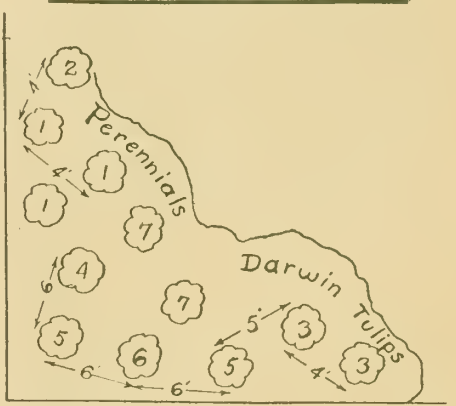


Symbol No.	Total Plants
(1) Cornus sanguinea—Red-barked Dogwood	1
(2) Rosa Rugosa—Japanese Rose	4
(3) Ligustrum lbota—lbota Privet	1
	<hr/> 6

This arrangement is especially suggested for a planting along the foundation of the house to break up a long straight line effect. The three varieties of shrubs besides blooming in the summer give a valuable berry and bark effect in the winter.

Six shrubs for planting Group No. 5 complete, of the following sizes: (1), 4 to 5 feet; (2), 3 year; (3), 3 to 4 feet, will be sent by express for \$4.25.

6—For a Back Yard Corner

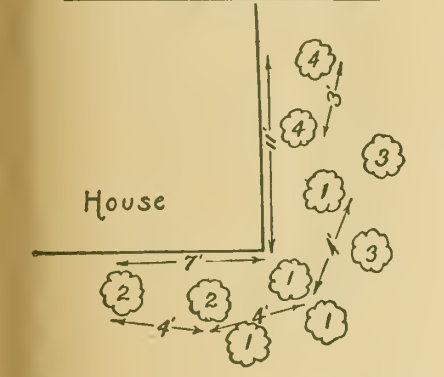


Symbol No.	Total Plants
(1) Hydrangea grandiflora—Fall blooming hydrangea	3
(2) Forsythia intermedia—Golden Bell	1
(3) Deutzia Pride of Rochester	2
(4) Spiraea opulifolia—Golden Spiraea	1
(5) Vulgaris purpurea—Common purple lilac	2
(6) Lilac Japonica—Japan White	1
(7) Cornus stolonifera aurea—Golden twigged dogwood	2
	<hr/> 12

This arrangement is suggested for a corner in the back yard or back of grounds. The two varieties of lilacs are selected to give an especially long blooming period. No landscape treatment is complete without the fall blooming hydrangea, the showiest and most attractive of all the fall blooming shrubs. The varieties in this group are selected so that something is in bloom during nearly the entire summer. In front of this group is an excellent place to plant early flowering bulbs such as Crocus, Daffodils, Narcissus and Darwin tulips.

Twelve shrubs for planting Group No. 6 complete, of the following sizes: (1), 4 year; (2) and (7) 3 to 4 feet; (3), 4 feet; (4), 2 to 3 feet; (5), 5 to 6 feet; (6), 4 to 5 feet, will be sent by express for \$11.00.

2—Foundation Planting



Symbol No.	No. Plants
(1) Spiraea Van Houtte—Bridal Wreath	4
(2) Weigelia rosea—Pink Weigelia	2
(3) Deutzia Pride of Rochester	2
(4) Aralia pentaphylla—Five Leafed Aralia	2
	<hr/> 10

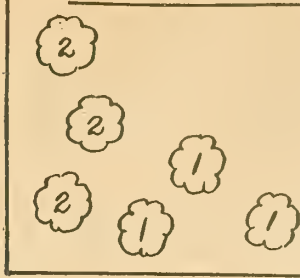
A selection and arrangement of shrubs for a foundation planting at the corner of the house. The Pink Weigelia continues to bloom during most of the summer. These shrubs will grow well even if considerably shaded but must have direct sunlight a portion of the day. The Bridal Wreath used in the center of this planting is one of the best of all the flowering shrubs. It is always hardy, a vigorous grower and a profuse bloomer.

Ten shrubs for planting Group No. 2 complete, of the following sizes: (1), (2) and (4), 3 to 4 feet; (3), 4 feet, will be sent by express for \$8.00.

NURSERY CATALOGUE FREE

Vaughan's Seed Store's complete catalogue containing our full list of trees, shrubs, vines and perennial plants, including peonies, will be sent upon request to those who wish to make their own selections of planting combinations. Orders for trees, shrubs and plants should be sent early as the supply is very limited.

7—For a Front Yard



Symbol No.	Total Plants
(1) Berberis Thunbergii	6
(2) Philadelphus Lemoine—Syringa	6
	12

Both the varieties used in this group are low growing, ultimate height 3 feet. A small planting of this type is especially needed where there are no trees in the front of the lawn.

Twelve shrubs for planting Group No. 7 complete, of the following sizes: (1), 4 year; (2), 2 to 3 feet, will be sent by express for \$8.75.

8—Good for Any Corner



Symbol No.	Total Plants
(1) Spiraea Van Houtte—Bridal Wreath	2
(2) Rosa rugosa—Japanese rose	4
(3) Spiraea arguta—Snow garland	3
	9

The large red seed balls of the Japanese roses attract attention all winter. They are vigorous growers and resistant to insect and fungous attack. The bloom is heavy and lasts over an extended period. Spiraea arguta is a showy shrub with fine feathery light green foliage.

Nine shrubs for planting Group No. 8 complete, of the following sizes: (1), 3 to 4 feet; (2) and (3), 3 year, will be sent by express for \$7.00.

9—A Bird's Nesting Thicket

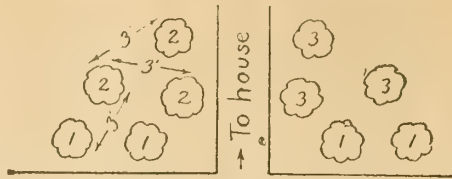


Symbol No.	Total Plants
(1) Rhamnus Catharticus—Buckthorn	4
(2) Sambucus nigra aurea—Golden Elder	2
(3) Cornus sanguinea—Red Barked Dogwood	4
(4) Raspberry Var Gregg	4
(5) Ligustrum Ibota—Ibota privet	3
(6) Cornus mascula—Cornelian Cherry	3
(7) Virginia creeper	1
(8) Celastrus scandens—Bitter Sweet	1
	22

Twenty-two shrubs for planting Group No. 9 complete, of the following sizes: (1), 5 to 6 feet; (2) and

(5), 3 to 4 feet; (3) and (6), 4 to 5 feet; (7) and (8), 3 year, will be sent by express for \$15.00.

10—For the Entrance Walk



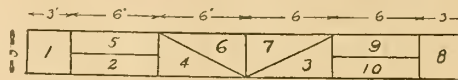
Side Walk

Symbol No.	Total Plants
(1) Berberis Thunbergii—Japanese barberry	4
(2) Symphoricarpos racemosus—Snowberry	3
(3) Spiraea Anthony Waterer—Anthony Waterer Spiraea	3
	10

The planting of thorny barberry along the front walk helps to protect the other shrubs of the group. This is a low planting suited to the location.

Ten shrubs for planting Group No. 10 complete of the following sizes: (1), 4 year; (2), 3 to 4 feet; (3), 2 to 3 feet, will be sent by express for \$6.50.

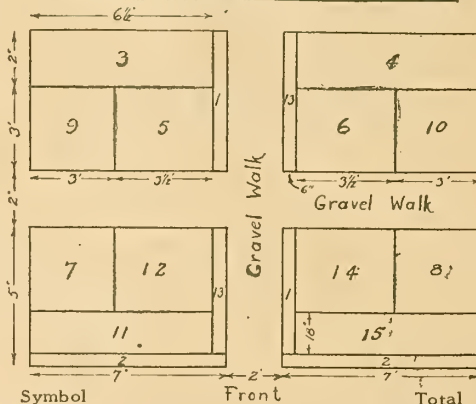
11—Perennial Flower Border



Symbol No.	Total Plants
(1) Delphinium Formosum—Larkspur	9
(2) Shasta Daisy	6
(3) Gaillardia Grandiflora—Blanket flower	6
(4) Coreopsis lanceolata—Tick seed	6
(5) Climax Aster—(Hardy)	6
(6) Phlox, Antoine Mercie—Hardy phlox	9
(7) Phlox, Jeanne d'Arc	9
(8) Hardy Chrysanthemum—Mixed	6
(9) Oriental Poppies	6
(10) Aquilegia—Long Spurred Columbine	6
	69

Sixty-nine plants for planting Group No. 11 complete, sent by express for \$12.00.

12—Formal Perennial Planting



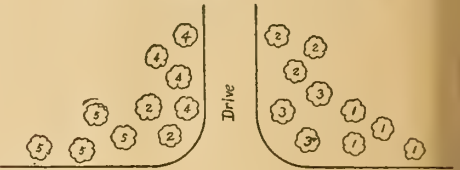
Symbol No.	Total Plants
(1) Iris Jeanne d'Arc	12
(2) Sedum rubrum—Golden moss	24
(3) Delphinium Formosum—Larkspur	9
(4) Chrysanthemums—Mixed	6
(5) Aquilegia—mixed—Columbine	9
(6) Coreopsis lanceolata—Tickseed	6
(7) Digitalis—Foxglove—mixed vars.	6
(8) Phlox—Jeanne d'Arc	9
(9) Phlox—Antoine Mercie	9
(10) Climax Hardy Aster	6
(11) Oriental Poppies	6
(12) Gaillardia Grandiflora—Blanket flower	9
(13) Iris Lord Seymour	12
(14) Physostegia Virginica—False Dragon Head	6
(15) Funkia Lancifolia—Day Lily	6
	135

For those who would like a small bed of exceptionally vigorous, hardy perennials, the

list in group 11 is ideal. It can be placed along one side of the garden, along the back of the yard or along the fence at one side of the front lawn. The varieties are selected so as to furnish a succession of flowers for cutting from May until frost in the fall. An arrangement of this sort takes less work than group 12, in which the perennials are arranged in a small formal garden. The latter for some locations is much to be preferred, however, and contains a larger assortment of varieties. This little garden would be exceedingly attractive if none of the flowers were cut for indoor use, although the varieties are equally suitable for both purposes.

One hundred thirty-five plants for planting Group No. 12 complete, sent by express for \$22.00.

13—Driveway Planting



Symbol No.	Total Plants
(1) Forsythia intermedia—Golden Bell	4
(2) Spiraea Van Houtte—Bridal Wreath	5
(3) Philadelphus Lemoine—Syringa	3
(4) Cornus Siberica—Red Osier	4
(5) Cornus mascula—Cornelian cherry	4
	20

This is an especially fine list of shrubs. The group will average from two to three times the ultimate height of Group 10. The first three varieties will keep the planting in a mass of bloom during the early part of the summer. The Red Osier is especially valuable for its fiery red bark in winter.

Twenty shrubs for planting Group No. 13 complete, of the following sizes: (1) and (5), 4 to 5 feet; (2) and (4), 3 to 4 feet; (3), 2 to 3 feet, will be sent by express for \$16.00.

14—A Berried Bird's Corner



Symbol No.	Total Plants
(1) Symphoricarpos racemosus—Snowberry	3
(2) Sambucus nigra aurea—Golden Elder	4
(3) Sambucus nigra laciniata—Cut-leaved Elder	7
(4) Celastrus Scandens—Climbing Bitter Sweet	1
(5) Hall's Japanese Honeysuckle	1
(6) Symphoricarpos vulgaris—Coral Berry	3
(7) Viburnum opulus—High bush Cranberry	3
(8) Morus Tartarica—Russian Mulberry	1
	23

Nothing adds more to the naturalness of a grounds than the native birds. Unless some provision is made for feeding and housing them they are forced to make their home in more favorable localities. The shrubs, vines and trees in Groups IX and XIV will produce a succession of fruits and berries through the entire winter.

Twenty-three shrubs for planting Group No. 14 complete, of the following sizes: (1), (2), (3), (6) and (7), 3 to 4 feet; (4), 3 year; (5), 2 year; (8), 5 to 6 feet, will be sent by express for \$17.00.

VAUGHAN'S FANCY GRASSES AND CLOVERS

THE MARKET on grass seeds and clovers varies from day to day. Prices on this page represent fair values for the highest quality seeds at the time this catalog went to press. Write us for our latest prices when buying in quantity. In preparing prices on grass seeds the purity and germination of the different seed offered must be considered.

We furnish such tests with each lot of our seeds and will always be glad to send identical samples of the different lots to intending purchasers. Our seed testing laboratory is in charge of trained experts, trained in the Seed Laboratory of the U. S. Department of Agriculture in Washington.

Timothy (Phleum pratense)

One of the best grasses for hay or pasture. Withstands extremes of heat and cold.

Chicago is the World's Timothy center. We have the opportunity and avail ourselves of it, to pick the cream of the crop of the country. Our samples are the best—tested for purity and germination—and prices the lowest.

Vaughan's Fancy Seed, 99.5 pure. Lb., 18c; 10 lbs., \$1.35; 100 lbs., \$10.50.

Vaughan's Choice Seed, Lb., 16c; 10 lbs., \$1.25; 100 lbs., \$9.50. Grain bags 50c each, extra.



Fancy Kentucky Blue Grass

(Poa pratensis)

The greatest of all pasture grasses for America particularly on limestone soils. All live stock like it and thrive and fatten upon it. It requires time to establish itself and should be grazed on lightly for the first two years. Bushel, 14 lbs., sow three per acre.

Vaughan's re-cleaned, the highest grade of this grass seed that perfect growing and careful cleaning can produce, is the best that can possibly be procured.

Extra Fancy Sun-dried Seed, twice re-cleaned; very high germination. Actual weight, 25 lbs. per bush., sold at legal weight (14 lbs. per bush.), 1 lb., 50c; 5 lbs., \$2.40; 10 lbs., \$4.50; 100 lbs., \$40.00.

Fancy Seed, actual weight 21 lbs. per bush., sold at legal weight (14 lbs. per bush.) 1 lb., 40c; 10 lbs., \$3.75; 100 lbs., \$35.00.

Red Top Grass (Agrostis alba)

It is one of the most valuable grasses for pastures and meadows but it is not as nutritious as Timothy for hay. Sow in spring or fall with or without a nurse crop. One bushel of chaff or unhulled Red Top, or one-half bushel of fancy seed is enough to sow an acre. For lawn mixtures it is invaluable.

Extra Fancy re-cleaned solid seed (32 pounds per bushel), 1 lb., 30c; 10 lbs., \$2.35; 100 lbs., \$20.00. Grain bags 50c each.

Natural or Unhulled (bushel, 14 lbs.), lb., 18c; 10 lbs., \$1.50; 100 lbs., \$12.00.

Orchard Grass (Dactylis glomerata)

A very hardy grass, invaluable for pasture mixtures. Ready to cut for hay before Timothy. Wet soils do not suit it. Not recommended for lawn mixtures as it grows in tufts and leaves bare spots. Sow in Spring, 25 to 30 lbs. per acre. (14 lbs. per bushel).

1 lb., 25c; 10 lbs., \$2.15; 100 lbs., \$17.50.

Crimson Clover

Erect growing annual with long narrow and pointed flower heads. Grown extensively in the East and South for turning under to improve the soil. 15 lbs. per acre.

Lb., 25c; 10 lbs., \$1.80; bush. (60 lbs.), \$10.00; 100 lbs., \$15.00. Grain bags, 50c each extra.

New Annual Sweet Clover

Introduced by Prof. Hughes of Iowa Agricultural College. One of the most important new plants yet brought out. Planted in the early spring it produces a rank growth 4 to 5 feet high like the Bokhara Clover and seeds the first year. We offer trial packets only this year. Oz., 75c.

White Clover

Extremely valuable for permanent grass mixtures. It will stand more grazing than any other Clover. As the growth is short it has no value in a hay crop. Much used in lawns. Sow in spring, 3 to 4 lbs. per acre.

Extra Fancy Seed, Lb., 75c; 10 lbs., \$7.00; bush. (60 lbs.), \$39.50; 100 lbs., \$65.00.

Choice Seed. Clean, but not as bright as the above. Lb., 70c; 10 lbs., \$6.50; bush. (60 lbs.), \$36.50; 100 lbs., \$60.00. Grain bags, 50c each extra.

Alsike or Hybrid Clover

Thrives well on damp soils where it is impossible to secure a catch of Red Clover. Because the seed goes so much further than Medium Red and because of its comparatively reasonable price many farmers are sowing Alsike. Sow 5 to 6 lbs. per acre in spring.

Vaughan's Brand, Lb., 40c; 10 lbs., \$3.85; bush. (60 lbs.), \$22.00; 100 lbs., \$36.00. Grain bags, 50c each extra.



VAUGHAN'S ALFALFA ON A DAIRY FARM IN NORTHERN ILLINOIS

Bokhara or Sweet Clover—White Blossom

On worn out or poor soils all over the country, and on good farm lands in the dry sections of states like Nebraska and South Dakota no other soil-renovating plant can produce as good results. It withstands summer heat and the cold of northern winters. Cattle, sheep and hogs soon acquire a taste for it and as a feed it ranks in value close to Alfalfa. It has the same nitrogenous value as Alfalfa. Cut before getting too large, it makes good hay. Sow in spring or fall. We offer hulled seed, scarified and tested.

Lb., 25c; 10 lbs., \$2.00; 100 lbs., \$16.50. Grain bags, 50c each extra.

ALFALFA

"The best paying crop on the farm." For success in sowing note the following: (1) Land must be well prepared and free from weeds; compact before sowing; drill seed if possible; it should be slightly covered. (2) Inoculate the land with first plantings. Use soil from an old alfalfa field or from the roots of sweet clover, scattering one-half wagon load per acre, or use Nitragin (See page 55). Lime the soil. (3) Use Northern grown acclimated seed when planting in the Central or Northern states. (4) Season to sow: In Illinois and New York, June 1st to middle of July, but successful sowings may also be made in April, May and September.

The "Grimm" or Everlasting Alfalfa

Renowned the world over for its hardness. It is a type of Northern origin, consequently has a very wide range of adaptability and hardness.

Endures extremes of cold and withstands excessive heat. The seed is identical with other types of Alfalfa. We offer genuine Grimm Seed from an inspected field in South Dakota. Our customers for Alfalfa in the North who wish to make a beginning will make no mistake in using this. Order early as the true stock is limited.

Lb., 80c; 10 lbs., \$7.25; bush., \$41.00; 100 lbs., \$68.00. Grain bags, 50c each extra.

New Alfalfa, Cossack

A variety brought to this country by Prof. Hanson of North Dakota. Said to be harder than any variety yet found. We offer a limited amount of seed so our customers may try it.

Lb., \$1.50; 10 lbs., \$12.50.

WESTERN GROWN IDAHO SEED. This is extra fine, better than 99.5 per cent pure.

Lb., 35c; 10 lbs., \$3.00; bushel, \$17.00; 100 lbs., \$27.50. Grain bags holding about 150 lbs., 50c each extra.

DAKOTA GROWN DRY LAND SEED. This is an extra hardy strain of strong vitality and great productiveness. It withstands cold and climatic conditions in a marked degree. In wet weather it yields no seed crop.

Lb., 50c; 10 lbs., \$4.25; bush., \$24.75; 100 lbs., \$40.00. Grain bags holding about 150 lbs., 50c each extra.

Fancy Medium Red Clover

Farmers should not neglect soiling crops like clover. We are very proud of our fancy clover; purity, color and germination are of the highest standard. We invite comparison on a basis of quality. Write for latest prices.

Fancy Seed, Lb., 35c; 10 lbs., \$3.25; bush., \$17.00; 100 lbs., \$28.00. Grain bags, 50c each extra. Choice grade, for less money.

Mammoth Red Clover

Should be included in all permanent grass mixtures, especially on heavy and medium soils. Flowers later than Medium Red, is harder and not so liable to winter kill.

Fancy Seed, Lb., 35c; 10 lbs., \$3.25; bush. (about 60 lbs.), \$17.00; 100 lbs., \$28.00. Grain bags, 50c each extra.

Fancy European Lawn and Golf Grasses—Red Tissue, Creeping Bent, Wood Meadow, Rhode Island Bent, etc. Write us for sample and prices. We supply many of the largest golf courses in the country.

Canada Blue Grass (Poa compressa)

A hardy grass with dense creeping root stocks. Adapted to all soils. Recommended for the Eastern and Middle States for pasture and dairy use. Sow 3 bushels of seed to the acre in the Spring. (14 lbs. to the bushel).

Price, 1 lb., 30c; 10 lbs., \$2.35; 100 lbs., \$20.00.

Awnless Brome Grass (Bromus inermis)

Successful on arid soils, very strong, thick growth, making two big crops. Cut in bloom, it nearly equals Timothy. It prevents washing on banks of streams; is hard to eradicate—fine pasture. Sow in Spring, Vaughan's extra cleaned seed, 2 bushels per acre (14 pounds to bushel).

1 lb., 40c; 10 lbs., \$3.60; 100 lbs., \$32.00.

Italian Rye Grass (Lolium italicum)

Likes a rich, moist, loamy soil where it does remarkably well and produces good hay and pasturage. Valuable in lawn grass mixtures demanding immediate effect. Does particularly well in the south. Sow in spring, 60 to 70 lbs. per acre. (18 lbs. to the bushel).

Price, lb., 25c; 10 lbs., \$1.65; 100 lbs., \$14.00.

English or Perennial Rye Grass

(Lolium perenne)

Does very well in this country. Good for both pastures and meadows. Moist and rich clays or loams are the soil best suited to it. The seed is heavy and very quick to start. It is a valuable lawn grass, especially where quick results are sought. Sow in spring, 60 to 70 lbs. per acre.

Extra Heavy Seed, Lb., 25c; 10 lbs., \$1.65; 100 lbs., \$14.00. Standard Weight, 24 lbs. to the bushel. Lb., 20c; 10 lbs., \$1.50; 100 lbs., \$12.00.

VAUGHAN'S TESTED FARM GRAINS

OUR list will be found made up of standard varieties and such new things as have been thoroughly tried out and proven of worth. Free Samples to Intending Purchasers—Most of our seeds are grown on contract especially for us or grown on our own farm. So we have them true to type.

Prices in the market are changing constantly. Prices below represent values at the date this catalogue went to press. When purchasing in quantity write or wire us for our latest prices.

Seed Barley, Selected, Re-cleaned

Wisconsin Pedigree Barley (No. 5)

This barley has won many State and National Championships as the best six-rowed variety. Prof. Moore of the Wisconsin Experiment Station developed this from the famous Oderbrucker strain after many years' breeding and testing. It is tall growing with plump grain, very stiff straw and large well filled heads. Selected on account of yield and also for malting and feeding qualities.

Price, peck, 75c; bush., \$2.25; 10 bush., \$21.00; bags free.

ODERBRUCKER BARLEY (Wisconsin No. 55)

A heavy yielding and plump six-rowed variety, introduced in 1906 by the Wisconsin Agricultural Experiment Station. A large percentage of the barley acreage in Wisconsin is now of this grain. Compared to Manshury, Oderbrucker has a stiffer straw, higher protein content and is a better rust resister. Average yield of five to ten bushels more per acre than other six-row sorts was reported on a series of tests. High protein content makes Oderbrucker of exceptional value for both feeding and malting. Ours is an excellent sample, Wisconsin-grown, produced from seed secured from the Wisconsin Experiment Station.

Price, peck, 75c; bush., \$2.25; 10 bush., \$21.00; bags free.

SUCCESS OR BEARDLESS. This is the earliest and hardest of all barleys. May be sown as early as possible in the Spring without danger from frost. The straw is heavy and stands up under a heavy crop. The grain is without beards and can be handled and threshed as easily as oats. In stock-feeding it is of much more value than common barley as it may be fed without danger of injury to the animals. Yields always show some bearded plants, although our stock is exceptionally fine.

Price, peck, 85c; bush., \$3.00; 10 bush., \$28.50; bags free.

WHITE HULLLESS. This variety is strictly a feeding sort. It has a grain like that of wheat. In feeding value it is almost equal to wheat and the yield is nearly twice as large. As a dry feed it has no superior. The straw is heavy with good leaves, and when cut green makes good hay. Our seed is grown in the far Northwest and is heavy, fine, bright and very free from hulls. This variety never runs entirely true to type.

Price, peck, \$1.10; bush., \$4.00; 10 bush., \$37.50; bags free.



GOLDEN MILLET

OATS

Vaughan's "Swedish Select"

Extra Heavy Re-cleaned Seed

Introduced by the U. S. Department of Agriculture and to-day the most largely planted of all varieties in the Northern Central States. Pure white; the hull is thin and the kernel large and plump; straw is stiff and strong enough not to lodge. A remarkable root development makes the Swedish Oat a good drought resister—a special feature on light soils. Season medium early and the earliest of the heavy yielding sorts. Especially suited to high land.

Price, peck, 55c; bush., \$1.65; 10 bush., \$15.00; bags free.

New White Kherson Oats (Iowa 103)

The best variety to date on rich, heavy soils. In Iowa it is by far the most popular variety, as it produces a crop before extreme heat. In favorable cool seasons, on heavy soil, on account of its short straw, there is little loss from lodging. Extra early in season.

Price, peck, 55c; bush., \$1.65; 10 bush., \$15.00; bags free.

Kherson or Sixty Day Oats

The most popular new Oat for rich prairie soils. It matures in July and admits of harvesting before wild oats and other noxious weeds ripen and drop their seed. The straw is short. The grain is small with a remarkably thin hull and light yellow color. Introduced by the Nebraska Experiment Station and in that state the best yielding sort. An excellent feeding oat, the only objection to it being its color, which injures its market value.

Price, peck, 55c; bush., \$1.65; 10 bush. lots, \$15.00; bags free.

Victory Oats

American grown seed, raised from imported Swedish stock. The result of twenty-five years of scientific seed breeding. In season it is like Swedish Select. The grain is of medium size, white, broad and nearly beardless. The straw is very stiff and firm.

Peck, 55c; bush., \$1.70; 10 bush., \$15.50; Bags free.

WHEAT—Spring

Fancy Northern Seed

On account of high value of wheat we ship in grain sacks only, for which there is a charge of 50c each. Write for latest "quantity" prices. Sow 1½ bush. to acre.

Marquis

In the northwest spring wheat district Marquis Wheat is now regarded as the finest of all varieties. Introduced by Prof. Saunders of Ottawa, Canada, the result of a cross between Red Fife and acclimated Hard Red Calcutta wheat. It is earlier than Red Fife and has out-yielded all other spring wheats wherever grown. In milling quality and appearance it is in a class by itself. It has won first prize for the best American wheat at all the International Shows the past three years. Wheat price changeable. Write for prices in quantity.

Price, peck, \$1.00; bush., \$3.50.

Saskatchewan Fife

A very hardy and productive red variety. Makes the famous Northwest No. 1 milling wheat.

Price, peck, \$1.00; bush., \$3.50. Write for latest "quantity" prices.

Blue Stem Pedigreed

A heavy yielding variety, very popular in the Northwest. Heads are very large and well filled. Plants stool freely. Our seed is carefully selected.

Price, peck, \$1.00; bush., \$3.50. Write for latest "quantity" prices.

Macaroni or Durum

We have true and carefully selected stock of this now famous introduction of the U. S. Dept. of Agriculture. Best for dry districts.

Price, peck, 95c; bush., \$3.25. Write for latest "quantity" prices.



VAUGHAN'S SEEDS FOR ALL ENSILAGE ARE THE BEST

SPRING EMMER

Incorrectly called "Speltz"

A grain especially suited to dry lands. Being semi-hardy, it can be sown very early. Emmer grows best in the dry prairie regions with hot summers, and even does well in poor or stony ground. It is a better drought and rust resister than either Oats or Barley, and it also yields considerably better. The feeding value is high. Sow 1½ bu. to acre.

Price, lb., 20c; 3 lbs., 50c; bush. (40 lbs.), \$1.90; 5 bush., \$9.00; bags free.

SPRING RYE

A good catch crop, as it may be sown later than most grains. Not so good a yielder as Winter Rye. Sow about 1½ bu. per acre. Crop is very short.

Price, peck, \$1.10; bush., \$3.75; 10 bush., \$35.00; bags free.

FLAX-SEED

Primost Variety, fancy re-cleaned Dakota seed. (Bu. 56 lbs.)

Peck, \$1.25; bu., \$4.50; bags free.

BUCKWHEAT

Write for "quantity" prices.

Sow after June 15. On worn-out soils, a plowed under buckwheat crop is a good fertilizer and improver. Sow 25 lbs. per acre.

JAPANESE. Very large grains of dark brown color. Early and heavy yielding. Choice re-cleaned seed. (Bush. 48 lbs.)

Price, peck, 75c; bush., \$2.25; 100 lbs., \$4.25; grain bags 50c extra.

SILVER HULL. A very prolific and early sort. Grain a light gray in color. A great favorite with millers on account of the white flour it produces. (Bush. 48 lbs.) Choice seed.

Price, peck, 75c; bush., \$2.25; 100 lbs., \$4.25; grain bags 50c extra.

MILLETS

Grain Bags, 50c each, extra.

GOLDEN. Planted on good land produces a large crop of hay forage during the summer months and leaves the ground in the finest condition for wheat. There is no larger yielding forage plant. Seed is valuable for poultry. (Bush. 50 lbs.) Sow ½ bu. to the acre. Values constantly changing. Write for prices for quantities.

Choice seed, price, bush., \$2.25; 100 lbs., \$4.00.

HUNGARIAN MILLET. Yields heavy growth of excellent hay. When saved for hay should be cut before the seeds become hard. Can be sown as late as July. (Bush. 48 lbs.) Sow ½ bu. to the acre. Subject to market changes.

Price, bush., \$2.75; 100 lbs., \$5.25.

JAPANESE MILLET. Entirely distinct. It grows 6 ft. high and yields 10 tons green fodder per acre. When cured it makes an excellent quality of hay, and is a much relished green fodder. Cure as you would a heavy crop of Clover. It may be sown from the middle of May to the 1st of July, if broadcast, at the rate of 15 lbs. per acre but it is better to sow in rows 12 to 18 inches apart, using 10 to 12 lbs. per acre, and cultivate until 15 inches high, when its rapid growth will smother all weeds.

Price, lbs., 15c; 10 lbs., \$1.00; 50 lbs., \$4.00; 100 lbs., \$7.50.

VAUGHAN'S TESTED FARM SEEDS



DWARF ESSEX RAPE

DWARF ESSEX RAPE

This is an ideal sheep feed. Any corn soil will grow Rape. Sow the seed by the end of June and the crop can be ready to feed at a season when it is most needed. If the soil is rich and clean, sow broadcast; if not so clean, sow in drills and cultivate as for corn. When sown broadcast use 5 lbs. and if in drills 2 lbs. to the acre.

Genuine English Grown. Dwarf Essex Rape. Lb., 22c; 10 lbs., \$1.60; 100 lbs., \$13.50.
Japanese grown (Winter Sowing Rape). Lb., 20c; 10 lbs., \$1.35; 100 lbs., \$11.00. Bags, 50c each extra.

SUNFLOWER MAM. RUSSIAN

Standard crop raised for the seed which is used in Poultry and Parrot feeds. Fancy domestic seed. Sow about 8 lbs. to acre.
7½, 5c; lb., 15c; 10 lbs., \$1.00; 100 lbs., \$7.00. Bags free.

PEANUTS

Spanish—Earliest variety, solid and well filled. Sow in rows 3 feet apart, 8 to 10 inches in the row.
Pkt., 10c; lb., 30c; 5 lbs., \$1.20; 10 lbs., \$2.00.
Mammoth Virginia, later than Spanish—with large pods and kernels.
Pkt., 10c; lb., 30c; 5 lbs., \$1.20; 10 lbs., \$2.00.

VETCHES

WINTER VETCH. (*Vicia villosa*) Sand or Hairy Vetch. The winter cover crop. This is a hardy legume sown in the Northern States in the fall months, growing well that season and remaining green all winter. It supplies the place in the North that the less hardy crimson clover does in the South. Drill for cover crop 10 to 20 lbs. per acre. For hay use 1 bushel per acre.

Price: Lb., 30c; bush., (60 lbs.), \$11.00; 100 lbs., \$18.00. Grain bags, 50c each. Write for latest prices in August. We are direct importers of this seed.

SPRING VETCH OR TARES (*Vicia sativa*—Oregon Vetch). Sown broadcast at rate of 1 to 1½ bushels to acre, like wheat or barley, and sometimes mixed with oats, for soil-ing. Valuable for orchards. Culture same as field peas.

Per lb., 18c; peck, \$1.50; bush., \$5.50. Grain bags, 50c each, extra.

Nitragin—Pure Culture

A legume-inoculating material manufactured under a late German (Nobbe-Hiltner) Process. We believe this the best of the many Nitrogen Bacteria Cultures. "Nitragin Pure Culture" is put up in round tin cans, in five sizes—garden, one-half acre, one acre, five acres and ten acres. Full directions for use with each can. We can offer cultures for all the different legumes, including Alfalfa, Clovers, Cow Peas, Soja Beans, Vetches, etc., etc.

Price, garden size, can, 30c; ½ acre can, 50c; 1 acre can, \$1.00; 5 acre can, \$4.00; 10 acre can, \$7.50.



CANADA FIELD PEAS

A valuable crop in the northern states for soiling and for cattle feed. Sown with oats all stock eat the hay greedily and thrive upon it. Sow broadcast, 2 bushels per acre—if sown with oats, use a bushel with 1½ bu. oats. Prices subject to market changes.

Bush., \$4.50; 2 bush., \$8.25; 10 bush., \$42.50. Bags free.

SOJA OR SOY BEANS

An ideal crop for turning under to improve worn out soils. As a fodder crop it should be fed in conjunction with corn, one part Beans to five of Corn, to reduce the excess of protein in the former. It should be cut for hay before the stems become too woody. For latitudes north of Chicago we advise Northern grown seed. Sow in June at the rate of ½ bushel per acre and in drills 30 inches apart.

Its San. Northern grown.
Peck, \$2.00; bush., \$7.50. Bags free.
Black Beauty.
Half peck, \$2.25; peck, \$8.00; bush., \$7.50. Bags free.

Mammoth—Yellow. Southern grown seed. Use south of middle Illinois.
½ peck, 75c; peck, \$1.25; bush., \$4.00.

COW PEAS

The value of cow peas as a soil enricher is now well known. It adds nitrogen to the soil at less cost than by any other method. Cow peas make excellent hay. A warm, sandy soil will give best results. Where never grown before, drilling in and cultivating at first, as for field beans, is the best way to start.

Northern Grown Cow Pea. Michigan Favorite. A true early type, so long sought. The best for Northern planting, as it ripens as far north as Central Michigan and Wisconsin.

Peck, \$1.75; bush., \$6.50.
Southern Black Eye.
Peck, \$1.25; bush., \$4.50.
Whip-Poor-Will.
Peck, \$1.15; bush., \$4.25.
New Era.
Peck, \$1.15; bush., \$4.25.
Prices for All Cow Peas, 35c per quart of about 2 lbs., postpaid in first three zones.

Write for latest market price on quantity of any of the above. Burlap bags included.

POP CORN

BLACK BEAUTY (New). An extra early variety which pops very large and is the most tender and crisp of all. Although the kernels are black it pops a pearly white.
Pkt., 10c; lb., 25c; 5 lbs., 95c; 10 lbs., \$1.60; 100 lbs., \$12.00.

JAPANESE DWARF RICE. Very tender and almost hullless. Ears short and chunky. Heavy yielder. We regard this as the coming commercial variety. Crop very short.
Pkt., 10c; lb., 25c; 10 lbs., \$1.60; 100 lbs., \$12.00.

Price of any of the following kinds of Pop Corn, Pkt., 5c; lb., 20c; 5 lbs., 85c; 10 lbs., \$1.50; 100 lbs., \$10.00.

ILLINOIS SNOWBALL. An improved variety, very prolific; a fine sort for home use.

WHITE RICE. Most popular, grain pointed, pops white, and full.

MAPLEDALE PROLIFIC. A great yielder, it pops pure white.

QUEEN'S GOLDEN. It pops perfectly white and a single kernel will expand nearly one inch.

Extra Early Flint Corns

Flint Corns are grown in the colder sections as they are earlier than the dent type. In the central belts they mature when it is much too late to plant dent sorts. Equally as good as dent for silage.

LONGFELLOW FLINT. A beautiful cob of rich, glossy yellow, and very long—10 to 15 inches. The stalks grow to the height of 7 to 7½ feet, and the ears are borne about 3 feet from the ground. A favorite with chicken raisers.

Shelled, ½ pk., 50c; pk., 90c; bu., \$3.25.

GIANT LONG FLINT. A tawny, smoky white sort, good for ensilage and fodder because of its suckering habit and breadth of blade. The ears are 12 to 15 inches long, smooth and symmetrical. Stalks bear two to three ears.

Shelled, ½ pk., 50c; pk., 90c; bu., \$3.25.

KING PHILLIP. Extra early Red Flint sort. The ears are ten inches long and eight-rowed. On poor land it does much better in yield than most other sorts. One of the very earliest field corns.

Shelled, ½ pk., 50c; pk., 90c; bu., \$3.25.

Sorghums, Kaffir, Cane, Broom Corn

VAUGHAN'S EARLY AMBER CANE. Even fodder corn does not produce so rich and rank a growth of good feed for so little money as Sugar Cane. Sow 60 pounds to the acre.

Northern Seed. Pkt., 5c; lb., 15c; 10 lbs., 90c; 50 lbs., \$3.75; 100 lbs., \$7.00.
Southern Seed (for fodder). 10 lbs., 70c; 50 lbs., \$2.85; 100 lbs., \$5.25. Bags free.

FETERITA. Earliest of the drought resisting sorghums. Worthy of a trial in Northern sections.

Price, lb., 15c; 10 lbs., 70c; 50 lbs., \$2.85; 100 lbs., \$5.25.

KAFFIR CORN. One of the best forage plants. Preferred by some to Cane. Grows four to five feet high. For fodder sow 40 lbs. per acre broadcast.

Pkt., 5c; lb., 15c; 10 lbs., 70c; 50 lbs., \$2.85; 100 lbs., \$5.25.

IMPROVED EVERGREEN BROOM CORN. The most popular variety in the Western broom corn-growing localities. Brush of good length and handsome appearance and shows almost no red color. Sow 15 lbs. to the acre.

Western Grown. Price, lb., 15c; 5 lbs., 50c; 10 lbs., 90c; 50 lbs., \$3.75; 100 lbs., \$7.00.

Illinois Grown. Lb., 22c; 10 lbs., \$1.50; 100 lbs., \$12.00.

SUDAN GRASS. Closely related to the cultivated sorghums; of value particularly in the dry Middle West as a drought resisting hay crop. In the Eastern and Central Northern sections should be tried as a substitute for millet, as the crop is larger and has better feeding value. Care should be exercised as with cane and other sorghums in turning cattle on to second growth.

Price, lb., 20c; 10 lbs., \$1.35; 100 lbs., \$10.00.

MULFORD

CULTURE

A standard brand of the "Jelly" legume cultures. One of the very best cultures for all legume crops, Alfalfa, Clover, Soja Beans, Sweet Peas, Cow Peas, etc. Specify crop for which wanted.

Price, garden size, ¼ acre, 50c; 1 acre, \$1.50 postpaid; 5 acres, \$5.00; not prepaid.



A FIELD OF COW PEAS

Plowed under, a great soil enricher; or cut makes fine hay.

VAUGHAN'S PEDIGREED SEED CORN

Our Seed Corns, Early and Late Dents and Flints are the best bred types and are grown in their respective seed sections. Plant corn suited to your locality. We give full descriptions and state where grown. Our corn is thoroughly tested and we know it grows, before sending it out.

LATE DENTS

Reid's Yellow Dent

(Standard Type) Pedigreed Seed

The great prizewinning Show Corn brought to Illinois in 1864, from Ohio. For Southern Iowa, Central Illinois, (see Northern Crown Reid's for North Central Illinois), Central Indiana, Kansas, Missouri and Nebraska this is the most satisfactory yellow Dent Corn to grow. We do not recommend this or any other variety on this page for Wisconsin, Michigan or similar latitudes. It is most accurately described as follows: Ear 9 to 10 inches long, 7 inches around, 18 to 24 rows with narrow space between them; deep grains with small cob, well filled at butt and tip. Matures in about 115 days in Central Illinois. We offer a very choice selection of seed from pedigree stock selected for years, grown in Illinois by one of the best corn breeders in the United States.

Selected Ears, bush., \$4.50; 3 bush. at \$4.25. Shelled and Graded, ½ peck, 60c; peck, \$1.00; 5 bush., \$3.50; 5 bush. at \$3.25.

Reid's Yellow Dent—Northern

Grown

Ten days earlier than the Standard Type. This is the highest standard Yellow Dent Corn grown in North Central Illinois. We have never dared to sell the regular full sized type of "Reid's" north of Kankakee and La Salle Counties. This strain differs from the standard type only in running slightly smaller and with larger cobs. Can be used in Cook County and westward and is the finest, highest grade yellow Corn which can be safely planted this far north. A very fine variety for ensilage planted north of this section.

Selected ears, bush., \$4.00. Shelled, ½ peck, 50c; peck, 90c; bush., \$3.25; 5 bush. at \$3.00.

Leaming Improved

Probably planted over a greater area of country than any other sort on account of its great adaptability to various soil and other influences. Ripens in 100 to 110 days under favorable conditions in central corn belts. The ear is tapering, length 10 inches; circumference, 7 inches; wedge-shaped yellow kernels smooth and firm on the cob; 18 to 20 rows, with medium space between; well filled and rounded tips and butts; cob red, of medium size. The stalks are very leafy, so that it is one of the best fodder varieties.

Nebraska Grown—Shelled, ½ peck, 50c; peck, 75c; bush., \$2.75; 5 bush. at \$2.50.

Iowa Silver Mine

One of the very best yielding White Dent Corns. Matures in North Central Illinois and in Iowa as far north as Dubuque. Creamy white, cylindrical shape, 18 to 20 rows; length 9 inches, circumference, 7¼ inches, kernels rough and deep, little space between rows; cob small and white. A fine shelling and high yielding variety. In good corn weather ripens in 110 days. Our seed is grown by one of the most famous Iowa breeders.

Central Iowa Grown—Shelled and graded, ½ peck, 50c; peck, 85c; bush., \$2.75; 5 bush. at \$2.50.

Gold Mine

A Yellow Dent similar in its general characteristics to the Silver Mine. Ears average about half an inch shorter and two rows less. In certain sections of North Central Illinois and Iowa as far north as Cedar Rapids, parts of Kansas and Nebraska—a standard sort. Our seed is carefully selected.

Nebraska Grown—Shelled, ½ peck, 50c; peck, 85c; bush., \$2.75; 5 bush., at \$2.50.

Boone County White

The best type of the White Dent for the Central Corn Belt States, such as Champaign, Decatur, Central Illinois and Central Iowa sections. This corn has been bred for large ears and matures rather slowly, requiring about 120 days good corn weather. The ear tapers slightly, length 10 inches, circumference 7½ inches, 16 to 22 rows, medium space between, cob white, medium size. This variety is also known as Johnson County White in Indiana, and is the great white show corn and holds most of the high yields per acre records.

Selected ears, bush., \$4.50; 3 bush., at \$4.25. Shelled and Graded, ½ peck, 60c; peck, \$1.00; bush., \$3.50; 5 bush. lots at \$3.25.

MINNESOTA No. 13

This is known also as Wisconsin No. 8, and is a heavy yielding, very early Yellow Dent corn; matures in 90 days of corn-growing weather. Grows 8 feet on good soil and furnishes a great amount of fodder. The ears are 8 inches long, with 16 rows of kernels and taper to tip; the kernels show a good Dent type and are of fair depth. Although not yet as well bred as Madison Dent, it is about 10 days earlier.

Grown on our own farms in Central Michigan. Selected ears, bush., \$4.50; 3 bush., at \$4.25. Shelled and graded, ½ peck, 50c; peck, 90c; bush., \$3.25; 5 bush., at \$3.00.

EARLY DENTS

Madison Yellow Dent

For the vicinity of Chicago, Northwestern Indiana, Wisconsin and Michigan, this, we believe, is the best corn ever introduced. It matures in 100 to 106 days of ordinary corn growing weather, and is a magnificent yielder. The ears are a little smaller than Reid's Yellow Dent, but resemble that sort otherwise; they are 8½ inches long, and have 16 rows of deep set kernels arranged close together in even rows, but with space enough to permit perfect drying, a very essential point in northern corn. Our strain is grown on the Vaughan farms in Central Michigan and Northern Illinois, and by contract with expert growers in the same localities under our direct supervision. Germination about 100%. Selected Ears. Price, bush., \$4.50; 3 bush., at \$4.25. Shelled and graded, ½ peck, 50c; peck, 90c; bush., \$3.25; 5 bush., at \$3.00.

Silver King—or Wisconsin No. 7

This corn, introduced some years ago by Prof. Moore of the Wisconsin experiment station, is gaining in favor with corn growers. The ears have a good cylindrical shape, are about 8 inches long and usually have 16 rows of kernels which are deep set, and just thick enough to permit rapid ripening. This is an excellent corn for central and southern Wisconsin. Grown on our own farms in Central Michigan. Price, Selected ears, bush., \$4.75; 3 bush., at \$4.50. Shelled, ½ peck, 60c; peck, \$1.00; bush., \$3.50; 5 bush., at \$3.25.

Golden Glow—Wisconsin No. 12

A fine product of "Minnesota No. 13," crossed with "North Star." It is very early and develops ears of good size, 8 inches in length, slightly tapering. The kernels are of medium depth, slightly rough. The cob is large enough to aid early drying, but is not too large.

Wisconsin Grown. Price, Selected ears, bush., \$4.75; 3 bush., at \$4.50. Shelled, ½ peck, 65c; peck, \$1.10; bush., \$3.75; 5 bush., at \$3.50.

Pride of the North

This is the most extensively planted Yellow Dent corn in northern Illinois and Iowa. It is a standard early, and the seed which we offer is grown in eastern Nebraska. We find it even in type, and earlier in season than much of the southern "Pride." The type varies, but usually has 16 rows of kernels on a cob, with tapering tip.

Nebraska Grown. Shelled, ½ peck, 50c; peck, 85c; bush., \$2.75; 5 bush. at \$2.50.

Seed Corn From Our Own

Farms

OUR farms in Central Michigan and Northern Illinois give us an immense advantage over seed houses without such growing facilities, especially as regards the earlier Dent varieties of field corn. Many of this class we raise ourselves, and we keep practically informed through trials at these farms just what improvements and selections are being made in the different parts of the country. Our corns are field sorted, put in crates, hand sorted, then hung on hangers, and in off seasons artificially dried. Varieties we do not raise ourselves are produced by the most experienced and reliable growers we can find in the respective sections in which the different varieties and types do best.

FODDER CORN

The recent increase in planting corn for fodder has been mostly due to substitution of this crop when too late for other things. Results have clearly shown that fodder is a paying, necessary crop, especially in dairying.

RED COB ENSILAGE or FODDER. This selection has a great reputation. Has a deep red cob, strong leafy stalks and short joints. Southern Grown. Peck, 70c; bush., \$2.25. **VIRGINIA MAMMOTH WHITE HORSE TOOTH.** Small stalk, vast quantity foliage, short joints, kernels large and white. Peck, 75c; bush., \$2.50.

SWEET FODDER. A great dairy feed. Nothing better for summer and fall green feed, or curing for winter, than sweet corn. Peck, \$1.10; bush., \$4.00.

Early Flint Corns—See Page 55

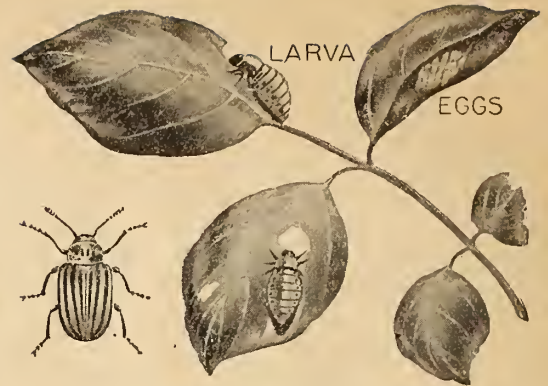


REID'S YELLOW DENT

Garden Insect Enemies

Description and Remedies

(SEE OPPOSITE PAGE FOR PRICES AND APPLIANCES)



POTATO BEETLE

POTATO BEETLE—These striped yellow and black beetles appear in numbers in early spring and as soon as young plants are up. They commence depositing eggs on the underside of leaves, meanwhile feeding upon the tender foliage. In about one week these hatch a horde of hungry larvae who destroy the foliage rapidly, attaining full size in from 2½ to 3 weeks. Remedies: Spraying or dusting with Calcium Arsenate, Arsenate of Lead, Pyrox, Paris Green.



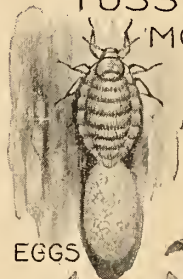
CABBAGE WORM

CABBAGE WORM — These green caterpillars hatch from eggs laid by the common white butterfly. There are several broods produced each season. The most effective means of control is by spraying or dusting with Arsenate of Lead, Calcium Arsenate, Kerosene Emulsion, Pyrox, Hellebore, Hammond's Slug Shot.



CABBAGE BUTTERFLY

TUSSOCK MOTH



EGGS

TUSSOCK MOTH—A handsome red-headed yellow and black tufted caterpillar, about one inch long, which devours the foliage of both shade and fruit trees, sometimes eating into fruit. To control this pest, the cotton-like egg masses should be collected in both fall and winter, and trees banded with Tree Tanglefoot. Spray often with Arsenate of Lead, taking care to cover underside of foliage thoroughly.

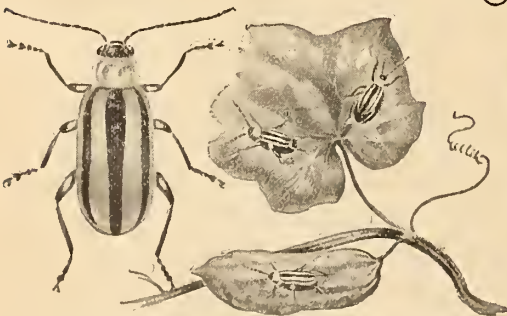


TUSSOCK-MOTH CATERPILLAR



TOMATO WORM

TOMATO WORM—The moths appear in May or June and deposit the eggs singly upon the lower surface of the leaves from which the caterpillars hatch in 4 to 8 days. As they feed voraciously they become full grown in 3 weeks' time. There are sometimes two broods in a season. The most successful remedies are Pyrox, Calcium Arsenate, Arsenate of Lead.



CUCUMBER BEETLE
NATURAL SIZE ¼ INCH

CUCUMBER BEETLE—These striped black and yellow beetles appear in great numbers and attack the young plants as soon as up. Protect the vines with screens until they begin to run. Spray or dust with Bordeaux Mixture, Arsenate of Lead, Hammond's Slug Shot, Tobacco Dust, Pyrox, covering underside of foliage.



NATURAL SIZE ⅛ INCH

PLANT-LOUSE [APHID]

CARL F. GRONE MANN

APHIDES—Plant Lice, Green Fly, Bark Lice, etc., are minute insects feeding upon the sap in the tender parts of plants, both indoor and out. Can be successfully destroyed by the use of the following contact remedies: Black Leaf 40, Nikoteen, Aphine, Kerosene Emulsion, Lemon Oil, Nicofume, Tobacco Soap. Contact remedies are effective only when the poison touches the insect. Be sure to cover the under side of the leaves.

INSECT DESTROYERS, SPRAYERS AND DUSTERS

Prices on all insecticides are subject to change as season advances. Chemical market unsteady.

BLACK LEAF 40, is a solution of Nicotine Sulphate. It is highly recommended by Experiment Stations throughout the United States as a spray for soft bodied sucking insects. For spraying only. Directions must be followed carefully: 1 oz. bottle, 25c; ½ lb. can, \$1.00, makes 40 to 100 gallons; 2-lb. can, \$3.25, makes 200 to 500 gallons; 10-lb. can, \$13.75, makes 840 to 2100 gallons.



LIME SULPHUR. The best remedy for San Jose scale. One gallon makes ten. Also one of the best summer sprays, as it is an excellent fungicide. When used in summer dilute with 20 to 30 parts water. Per qt. can, 45c; 1 gal., \$1.00; 5-gal. can, \$4.00.

CALCIUM, ARSENATE. (Dry). For dusting and spraying. A new arsenical poison for chewing insects, especially potato beetles. Harmless to foliage, not easily washed off. Lb., 55c; 5-lbs., \$2.50; 10 lbs., \$4.50.

BORDEAUX MIXTURE. (Dry). The best fungicide for curing and preventing black rot, mildew, blight, leaf curl, scab or other fungoid diseases on fruits and plants. 1 lb. will make 5 gallons liquid. Lb., 40c; 5 lbs., \$1.75; 25-lb. kegs, \$6.50.

BORDEAUX MIXTURE. (Liquid). Ready for use by simply adding water. 1 gallon will make 50 gallons liquid. 1 qt., 65c; 1 gal., \$1.65; 5 gals., \$6.50.

CARBON DISULPHIDE. For ants and cut worms. 1 lb., 45c; ¼ lb., 20c.

FISH-OIL SOAP. Standard wash for trees and plants where insects and eggs affect the bark. Lb., 30c; 5 lbs., \$1.25.

FLOWERS OF SULPHUR. Lb., 12c; 10 lbs., \$1.00; 50 lbs., \$4.00; 100 lbs., \$7.50.

GRAPE DUST. Excellent for the prevention and destruction of mildew on plants. Per lb., 30c; 5 lbs., 95c; 10 lbs., \$1.80.

HELLEBORE POWDERED, White. Less poisonous than Paris Green and safer to use when fruit and vegetables are nearly ripe. Per ¼ lb., 20c; ½ lb., 35c; lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.25.

ARSENATE OF LEAD (Paste). The latest and best known insecticide for all leaf eating insects. It adheres to the foliage for weeks, thus doing away with repeated sprayings. There is absolutely no danger of burning or scorching the leaves. Lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.00; 25 lbs., \$6.25; 50 lbs., \$10.50; 100 lbs., \$20.00

ARSENATE OF LEAD. (Dry). For dusting and spraying. Solves the problem of controlling practically all leaf-eating insects in a particularly efficient manner. 1 lb., 60c; 5 lbs., \$2.65; 10 lbs., \$5.00; 25 lbs., \$10.50; 50 lbs., \$19.50; 100 lbs., \$38.00.

PYROX. Kills all leaf-eating insects, destroys fungus growth, blight and rot. Mixes easily in cold water, sprays without clogging and sticks to foliage. Price, lb., 45c; 5 lbs., \$1.90; 10 lbs., \$3.25; 25 lbs., \$6.75; 50 lbs., \$11.75; 100 lbs., \$21.00.



PARIS GREEN. A poisonous insecticide in powder form, for insects which chew. When applied as a powder, use one part Paris Green to 100 parts plaster or flour. As a liquid one pound of Paris Green in 150 to 300 gallons water; if used on fruit trees add one pound quick-lime. Changes with market. ½ lb., 40c; per lb., 70c; 5 lbs., \$3.25; 14 lbs., \$8.50.

SCALECID. An oil preparation for San Jose scale. Use 1 gal. to 15 gals. water. Qt., 70c; gal., \$1.75; 5 gals., \$7.00; 10 gals., \$12.00.

SLUG SHOT, Hammond's. Guaranteed to destroy potato bugs, and those on tomato and egg plants, currant worms, cabbage lice and worms. Price, 1 lb. 20c; 5 lb. package, 60c; 25 to 50 lbs., at 10½c per lb. Per keg 125 lbs., \$12.00; barrel, 250 lbs. in bulk, \$23.00. **Slug Shot Duster**. Large size, 60c.



TOBACCO DUST, (Fumigating and Dusting). Fine dark powder of high strength and will do the work. 5 lbs. 45c; 10 lbs., 80c; 100 lbs., \$4.75.

TREE TANGLEFOOT. Perfect safeguard for trees. Lb., 50c; 3 lbs., \$1.45; 10 lbs., \$4.50.



Tree Tanglefoot

WORM ERADICATOR. Electric destroyer of worms of every kind at the roots of Trees, Shrubs, Flowers, Grape Vines, Vegetables, etc. Brings worms to surface and rids Golf Grounds of worms without discoloring grass. Use 1 or 2 ounces to 1 gal. of water. 24 oz., \$1.00; 1 gal., \$4.00; 5 gals., \$17.50.

Insecticides Containing Poison Go at Buyers' Expense by Express — Shipment by Mail is Prohibited.

Sunshine Double Action Spray Pump

A first-class orchard barrel sprayer, made of best material. Solid brass upper and lower cylinders. Main body and pump is all air chamber, and will withstand a pressure of 150 pounds per square inch.

By using an extension rod the tops of highest trees can be reached.

Pump complete with agitator, suction pipe, brass strainer and two leads ½ inch hose 5 feet long, fitted with Vermorel or Bordeaux Nozzles. Price, \$17.50.

Iron Age Bucket Sprayer

No. 195 is the complete Bucket Sprayer with special bucket in place of the foot piece. An automatic agitator keeps the solution thoroughly stirred. Easily carried in one hand by the pump cross piece or by the lever at the top.

Equipment—33 inches of hose, two-foot steel pipe extension with adjustable hand grip and "Iron Age" nozzle are included with each No. 195. With the pipe extension you can stand away from your work—also reach higher bushes, small trees, buildings, etc. Price, \$15.00.

Powder Gun, Cyclone



Small size, 20c. Jumbo size, 45c. Postage, extra, each, 5c.

Duster, Lowell

Handy for dusting any powder. Operated same as hand sprayer. Each, 95c.

Success Whitewash and Spray Pump

This is most excellent for use in gardens, green-houses, orchards, washing windows, and buggies or whitewashing and spraying poultry houses. Is fitted with Bordeaux nozzle, the best combination spraying device, and can be changed from a solid stream to a spray. It is double action and has large air chamber which throws an absolutely continuous stream solid or in fine spray. It is one of the best pumps made for the money.

Price, complete, \$7.50, without bucket.

The Auto Spray

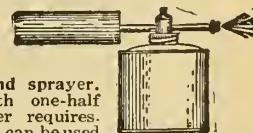


Eight to ten strokes of plunger in air chamber compresses enough air to discharge entire contents, making continuous spray for nine minutes. "Auto Spray" is improved by addition of the "Auto Pop" shown in illustration.

Price, galvanized iron reservoir, \$7.50, with Auto Pop, \$8.00; solid brass reservoir, \$10.50, with AutoPop, \$11.00. Extension rods, 2 ft. lengths, 60c. \$1.50.

Two-row attachments,

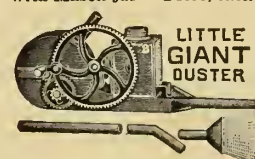
Pneumatic Sprayer



Compressed air hand sprayer. Operator sprays with one-half labor ordinary sprayer requires. Throws a fine mist and can be used to apply insecticides, etc. One quart size. Galvanized Tank \$1.25; Brass Tank, each \$2.25.

The Lowell Sprayer

For applying insecticides in form of mist. Reservoir is glass, so operator sees ingredients mixing. Will not corrode or rust. If broken can be replaced with Mason jar. Price, each, 95c.

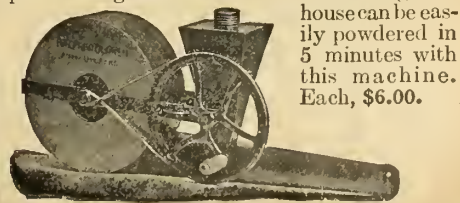


Little Giant

The best dry powder gun; will distribute any dry insecticides. Will do as much work in a day as a horse power sprayer. Price, \$11.50.

Peerless Blower

The best machine on the market for applying sulphur, Paris green, slug shot, etc., to plants in greenhouses.



A 200-ft. greenhouse can be easily powdered in 5 minutes with this machine. Each, \$6.00.

HOT BED SASH

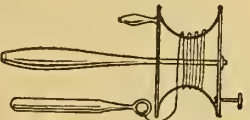
HOT BED SASH—Made of the very finest material. Unglazed are not painted. Glazed, painted one coat. Single strength glass. Add 95c. per sash for double strength.
 Size, 3x6 ft., holds 3 rows 10-inch glass. Unglazed, each, \$2.85; 3 for \$7.90; doz., \$30.00. Glazed, single strength glass, each, \$7.30; 3 for \$21.50; doz., \$83.00.
 Size, 38 inch x6 ft., holds 4 rows 8-inch glass. Unglazed, each, \$3.60; 3 for \$10.50; doz., \$39.00. Glazed, each, \$7.75; 3 for \$22.75; doz., \$86.00. Sash with double lights, making air cushion between for warmth.
 Size, 3x6 ft., 3 rows 10-inch glass, Glazed, single strength (for double strength add \$1.90 per sash). Each, \$12.25; 3 for \$35.75; 6 for \$69.50.
 Prices include Crating. F. O. B. Chicago. Prices subject to change without notice.

RED DEVIL GLASS CUTTER. Each, 30c.
GLASS CUTTER DIAMOND. Each, \$5.00
GLAZING POINTS.—Vaughan's Perfection No rights or lefts; No. 2, small, for single thick glass; No. 2½, double thick, for greenhouses and skylights. Price per box of 1 lb., 70c; by mail, 80c.
Siebert's Improved.—Easy to drive, and will not wedge or crack glass, 2 sizes, ½ and ⅓-inch long. Price per lb., 70c.



GLOVES.—Gardener's. Per pair, \$1.75.

GARDEN LINE REEL.—Each, \$1.10; (weight 2 lbs.)



GARDEN LINE. Each heavy braided. Per 100 feet, \$1.25; by mail, \$1.35.

GRAFTING WAX.—Per ¼ lb. bar, 15c; ½ lb. bar, 25c; 1 lb. bar, 45c.

HOES

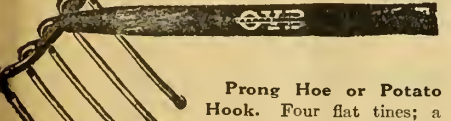


Draw or Field. Socket handle. Each, \$1.10.

Combination Draw and Rake. 4½-inch cut and 4 teeth. Each, \$1.10; 6½-inch cut and 6 teeth, \$1.20.



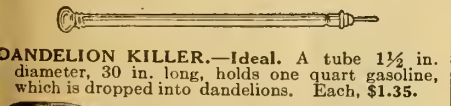
English Scuffle or Push. 6-inch, \$1.35; 8-in., \$1.50.



Prong Hoe or Potato Hook. Four flat tines; a handy tool for loosening the soil and digging potatoes. Each, \$1.35



Warren. 7 in. cast steel, polished blade; best Garden Hoe made. Each, \$1.25.



DANDELION KILLER.—Ideal. A tube 1½ in. diameter, 30 in. long, holds one quart gasoline, which is dropped into dandelions. Each, \$1.35.

DIBBER. For transplanting vegetable plants; steel point. Each, 65c; (weight 10 oz.)

HOT BED MATS AND PLANT BED CLOTH

Burlap Mats, lined, waste wool and cotton quilted. Size A, 40x76 in., \$3.25 each; per dozen, \$36.00. Size B, 76x76 in., \$4.50 each; per dozen, \$50.00.
PLANT BED CLOTH. For Flower Beds, cheap substitute for glass, answering many uses equally well, width 36 in., 20 to 60 yards, medium, per yd., 30c; heavy, 45c; 60 to 100 yds., medium, per yd., 28c; heavy, 45c; not less than 20 yds. of a kind sold.

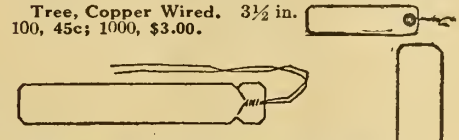
KNIVES



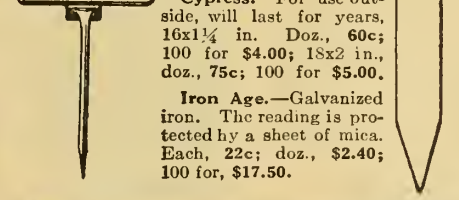
KNIVES.—Asparagus. Straight Cut. Each, 55c; by mail, 60c.
 Asparagus. Concave. Each, 60c; by mail, 65c.
 Budding. Ivory handle. Each, \$3.00; by mail, \$3.05.
Budding Knife. Imported, 2 blades. Stag handle. Each, \$2.00; by mail, \$2.10.
Propagating. Ivory handle. Each, \$3.00; by mail, \$3.05.
Propagating. "The Vaughan," best of all. Each, \$1.25; by mail \$1.30.
Pruning. Stag handle, English. Each, \$2.00; by mail, \$2.05.
Potato Knife. "The Humphrey." Will cut to one or more eyes without injuring the vital tissues. Each postpaid, 40c; 3 for \$1.00.



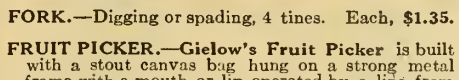
LABELS.—Zinc Tree. Wired ¾ inches long, ¾ inch wide. Price per dozen, 25c; 100, \$1.75. Wooden. For pots, painted.
 100 1000 100 1000
 4 in.....\$0.30 \$1.75 6 in.....\$0.45 \$ 3.00
 5 in......35 2.25 12 in..... 1.15 12.00
Tree, Copper Wired. 3½ in. 100, 45c; 1000, \$3.00.



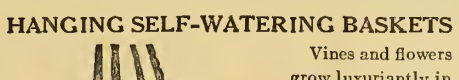
Copper. Indestructible. Small, 25c doz; 100, \$1.75; large, 35c doz; 100 for \$2.50.



Cypress.—For use outside, will last for years, 16x1¼ in. Doz., 60c; 100 for \$4.00; 18x2 in., doz., 75c; 100 for \$5.00.

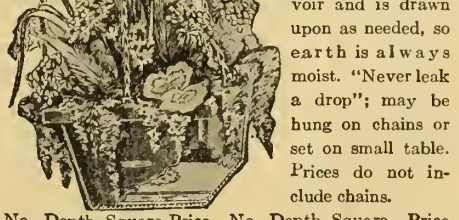


Iron Age.—Galvanized iron. The reading is protected by a sheet of mica. Each, 22c; doz., \$2.40; 100 for, \$17.50.



FORK.—Digging or spading, 4 tines. Each, \$1.35.

FRUIT PICKER.—Gielow's Fruit Picker is built with a stout canvas bag hung on a strong metal frame with a mouth or lip operated by a line from below. Reaches all branches, high or low, works quickly, keeps fruit from getting bruised, does away with ladders. Each, \$1.75



HANGING SELF-WATERING BASKETS
 Vines and flowers grow luxuriantly in these baskets. They require watering only once a week. The water goes directly into reservoir and is drawn upon as needed, so earth is always moist. "Never leak a drop"; may be hung on chains or set on small table. Prices do not include chains.
 No. Depth Square Price No. Depth Square Price
 8...6 in... 8 in... \$2.25 12...8 in... 12 in... \$2.95
 10...7 in... 10 in... 2.45 14...9 in... 14 in... 3.35
BASKETS—Wire, Hanging. Each, 6-in., 20c; 8-in., 25c; 10-in., 30c; 12-in., 35c. 14 in., 45c; 16 in., 65c.
Earthenware Hanging.—Terra Cotta. Without hanging wire.
 Each Doz. Each Doz.
 7 in.....\$0.32 \$2.75 10 in.....\$0.50 \$5.35
 8 in......38 3.35 12 in......65 6.75
 9 in......43 3.90

BEST MATERIALS FOR GREENHOUSE USE

POTS (Flower)

F. O. Chicago. Write for New York Prices.



RED CLAY POTS. We pack these carefully but will not be responsible for breakage.
 Doz. 100 1000
 2 in. \$0.35 \$1.60 \$12.60 6 in. \$1.25 \$ 9.10
 2½ in. .40 1.75 14.25 7 in. 2.10 14.75
 3 in... .55 3.10 25.90 8 in. 2.75 21.00
 4 in... .70 3.60 10 in. each, \$0.60
 5 in... .90 6.00 12 in. each, 1.00

PANS (Azalea).
 Each Doz. Each Doz.
 6 in.....\$0.15 \$1.25 9 in.....\$0.29 \$4.15
 7 in......22 2.10 10 in......60
 8 in......27 2.75 12 in..... 1.00

PANS (Fern).
 Each Doz. Each Doz.
 6 in.....\$0.15 \$1.25 8 in.....\$0.27 \$2.75
 7 in......22 2.10 10 in......60 6.50

SAUCERS Fibre, waterproof and unbreakable.
 Each Doz. Each Doz.
 5 in.....\$0.42 \$4.50 9 in.....\$0.55 \$6.00
 6 in......45 4.75 10 in......65 6.35
 7 in......48 5.00 12 in......80 8.25
 8 in......50 5.25

NEPONSET PAPER POTS. Made of water-proof paper, light, clean and unbreakable.



Doz. 100 1000
 2¼ in.....\$0.14 \$0.70 \$ 5.35
 2½ in......17 .80 6.25
 3 in......20 1.00 8.25
 3½ in......23 1.30 11.20
 4 in......28 1.55 13.95
 5 in......35 2.35 21.75
 6 in......45 3.10 28.20

POT HANGER. Kramer's. Converting flower pots into hanging baskets. Price, each, 15c; doz., postpaid, \$2.00.

MASTICA. For glazing greenhouses, hotbeds, sash etc., better than putty, does not crack, always remains soft. Per gallon, \$2.75.

MASTICA MACHINE. For applying above. (Weight 1½ lbs.) Each, \$3.00.

PUTTY. Twemlow's Old English. Semi-liquid. Same as Mastica. Per gallon, \$3.25.

PUTTY BULB. Scollay's. Useful tool with a tube for applying liquid putty in glazing greenhouses. (Weight ½ lb.) Each, \$1.50.

PUTTY KNIFE. Each, 35c.
MOLE TRAP. Out O' Sight. One of the best mole and gopher traps. Each, \$1.25.
MOSS. Sphagnum. Burlapped bales. Ea., \$2.75.
SHEET MOSS (Green). Freshly gathered; for Windows, Boxes, etc. Per sack, \$2.75.

"ILLINOIS" PORCH BOXES

Made on the same principle but they are wider and deeper than window boxes and of heavier material. They insure thrifty growth of flowers and vines during the hottest summer months. Never drip, like old wooden boxes. Refill every 10 days.

9 in. deep, 12 in. wide.	8 in. deep, 12 in. wide.
No. Length Price	No. Length Price
23.....45 in.....\$6.50	25..... 53 in.....\$7.75
24.....49 in..... 7.15	

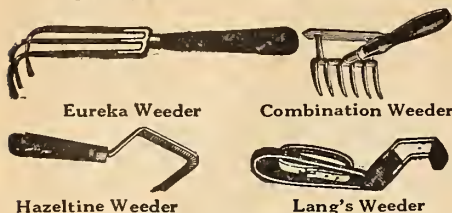
"SAVO" SELF-WATERING FLOWER BOXES



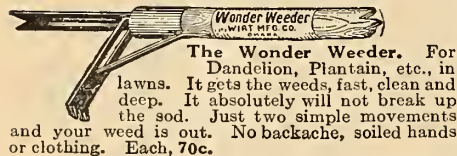
Savo Self-Watering Flower Boxes—one of the best of this type of flower boxes. Made of the best grade of galvanized steel with neat round corners and a full roll rim—beautifully finished in aluminum.

Model	Height	Width	Length	Price
Model A,	6½ inches,	6½ inches,	23 inches,	\$3.50
Model B,	8 inches,	9½ inches,	29 inches,	4.00
Model C,	8 inches,	9½ inches,	35 inches,	4.50
Model D,	8 inches,	9½ inches,	41 inches,	5.00
Model E,	8 inches,	12 inches,	12 inches,	3.50
Model F,	12 inches,	12 inches,	12 inches,	4.00

WATERING POTS.—American. Heavy galvanized round can, two copper-faced roses, long spout; 4 quart, \$4.00; 6 quart, \$4.35; 8 quart, \$4.70; 10 quart, \$5.00; 12 quart, \$5.40.
French Style. Oval, otherwise same make as above; 6 quart, \$4.70; 8 quart, \$5.25; 10 quart, \$5.60; 12 quart, \$6.30.



WEEDERS.—Combination. Each, 40c.
Eureka. Best hand weeder for loosening soil around plants. Short handled, 45c; long handled, 60c; (Mailing weight, ½ lb.)
Excelsior. Each, 15c, (Mailing wt., 4 oz.)
Lang's. We find this by actual trial a real labor saver. Each, \$25c. (Mailing weight, 4 oz.)
Hazeltine. Each, 35c. (Mailing weight, 6 oz.)
Norcross Weeder. Each, 45c.
Piqua. Long handled useful tool, makes weeding easy, no stooping. Price, \$1.35.



The Wonder Weeder. For Dandelion, Plantain, etc., in lawns. It gets the weeds, fast, clean and deep. It absolutely will not break up the sod. Just two simple movements and your weed is out. No backache, soiled hands or clothing. Each, 70c.



RAKES.—Steel Bow Garden. Best, does not break; 12 teeth, \$1.20; 14 teeth, \$1.30; 16 teeth, \$1.40.
Garden Rake. Garden, 12 teeth, 80c; 14 teeth, 90c; 16 teeth, \$1.00.
Lawn Rakes. (See Page 60.)

SHOVELS.—Ames. D handle, round point. Ea. \$2.75
 Ames. Long handle, round point. Each. . . . 2.75
 Ames. D handle, square edge. Each. . . . 2.75



SPADES.—Vaughan's. Special D handle. Ea. \$2.25
 Ames. D or long handle. Each. 2.75
STAND. Rolling. For heavy plants. Made of indurated fiber ware. Castors have ball bearings; 12-inch, \$1.15; 14-inch, \$1.50; 16-inch, \$2.00; 18-inch, \$2.50.

THERMOMETERS. Tin Case. 8-in, 45c; 10-in. 50c.
Cabinet. Wood case, 85c; 3 for \$2.25.
Hot Bed. Brass point, wooden frame, \$2.50.
Self Registering. With magnet to set it, 8-inch, each, \$5.50; registers highest and lowest temperature. Minimum for registering cold, \$3.00.

Coppered Tin Case. 8-inch, easy reading, 50c.



SPRINKLERS.—The Lenox. A splendid Sprayer for in or outdoor plants, rose bushes, etc. Throws fine spray under or over foliage of any plant or shrub, removing dust and insects. Each, 75c; by mail, 80c.

Scollay's Rubber. Indispensable for floral work. Large, \$1.50; by mail, \$1.55; medium, \$1.25; by mail, \$1.30; small, \$1.00; by mail, \$1.05.



TOMATO SUPPORTS.—Made of heavy galvanized wire.

F. O. B. New York. Each, 45c; doz., \$4.35.

F. O. B. Chicago. Each, 50c; doz., \$4.75.



TRELLIS.—Wood. Fanshape. 18-inch, 50c; 3 for \$1.35. 24-inch, 55c; 3 for \$1.50. 30-inch, 80c; 3 for \$2.25. 36-inch, \$1.25; 3 for \$3.60. 3½ ft., 21 inches wide, \$1.35; 4 ft., 27 in. wide, \$1.85; 5 ft., 32 in. wide, \$2.25; 6 ft., 38 in. wide, \$2.60; 7 ft., 42 in. wide, \$3.00.

Veranda.—18-inch wide, 5 feet, \$2.25; 6-feet, \$2.45; 7 feet, \$2.60, 8-feet, \$3.20, 9 feet, \$3.65; 10 feet, \$3.85.

TROWELS.—Vaughan's Steel. One solid piece of steel and will outwear all others. Each, \$1.25, 3 for \$3.50, Postpaid, each, \$1.35.

Ordinary Garden. 6-inch, each, 15c, prepaid, 20c.
English Steel. 6-inch, each, 35c; prepaid, 45c.

Transplanting Trowel. Can be used either as a transplant, dibber or weed digger, blade being deeply curved. 6-inch, 30c; postpaid, 35c.

VASE.—Cemetery. —Earthen, green, 10 inch, sharp point, each, 50c.
Fibre For Cut-Flowers. Unbreakable.

9 inches deep, 4½ in. diam., each, \$1.50.
 10 inches deep, 5½ in. diam., each, \$1.70,
 13 inches deep, 8 in., diam., each, \$2.10.
 18 inches deep, 5½ in. diam., \$2.25.



Green Cemetery Vase.

Fibre Glazed Vase.

SHEARS.—Hedge. Best imported.
 8-inch, with notch. . . . \$2.75
 9-inch, with notch. . . . 3.25
 10-inch, with notch. . . . 3.50
 Notch at crutch of blade to cut small branches.

STAKES. Per doz. 100
 Heavy Dahlia. 3 ft. \$1.65 \$12.25
 Heavy Dahlia. 4 ft. 2.20 16.00
 Heavy Dahlia. 5 ft. 2.75 20.25

STAKES.—Green Painted Wood. Very useful for tying plants, shrubs, etc.
Light Weight.
 Per doz. 100 Per doz. 100
 1½ ft. . . . \$0.40 \$2.40 3½ ft. . . . \$1.35 \$9.75
 2 ft.65 4.15 4 ft. 1.70 12.75
 2½ ft.90 6.25 5 ft. 2.10 14.95
 3 ft. 1.15 8.00 Per 1000 1000
 Cane Stakes. 6 to 8 ft. long. . . . \$2.00 \$10.00
 Cane Stakes. 9 to 12 ft. long, extra heavy. 2.50 18.00
 Prices on cane Stakes f. o. b. Chicago. Write for prices f. o. b. New York.

JAPANESE BAMBOO.—Plain and Green Painted.
 1½ ft. . . . \$0.80 \$ 5.75 3 ft. . . . \$1.50 \$11.25
 2 ft. 1.00 7.00 3½ ft. . . . 1.65 12.25
 2½ ft. . . . 1.25 9.00 4 ft. 1.75 13.75
 Natural, 6 ft. 2.00 16.00

Galvanized Wire Stakes.
 No. 9 Doz. 100 No. 8 Doz. 100
 1½ ft. . . . \$0.20 \$1.10 3½ ft. . . . \$0.50 \$2.60
 2 ft.25 1.45 4 ft.50 2.90
 2½ ft.30 1.65 5 ft.60 3.50
 3 ft.35 1.95 6 ft.65 4.00

Owing to market conditions prices are subject to change without notice.

TOOLS FOR PRUNING

SAWS, DOUBLE EDGED PRUNING.

16-inch, \$1.50; 18-inch, \$1.60; 20-inch, \$1.75.



VAUGHAN'S PERFECTION PRUNING. Made of the best steel with adjustable blade, so any branch can be easily removed close to trunk of the tree. Can be used as a hand saw or fastened to any size pole. Each, \$2.50; 3 for \$7.25. Extra blades, 35c.



CALIFORNIA POLE TRIMMER. Curved, draw-cut saw with crook for removing branches. Each, \$1.90.



FORESTER PRUNING SAW. Makes heavy pruning easy and saves time. 26 inches long. Each, \$1.75



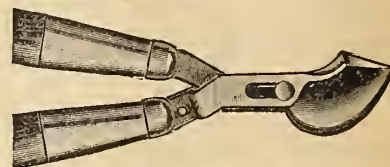
PRUNING. 6-inch, nickel-plated, \$1.50; 9-inch, \$2.00 Extra springs, each, 15c.



PRUNING. Best grade, with double brass springs Each, \$2.25.

LEVIN'S PRUNING. One of the best pruning shears made. Each, 85c.

IMPORTED PRUNING SHEARS. 8-inch, with-out ratchet. Each, \$2.00.



CLYDE DRAW CUT PRUNER. Extra strong, long handle, \$3.50.



BUCKEYE

BUCKEYE PRUNING. Long handle. Each, \$1.85; large size, heavier, \$2.25.

TREE PRUNERS. Waters'. Length of pole, 6 ft., \$1.65; 8 ft., \$1.90; 10 ft., \$2.25; 12 ft., \$2.50. Extra knives, each, 25c.

No. 4, JOINED TREE PRUNER. The cutting head is made truss shape from strong high grade rolled steel. The pole is made of 4 ft. lengths, making a tool convenient to carry on street car or automobile, and can be used as an 8 ft. or 12 ft. pruner. Price, complete, \$5.00.

TUBS.—(Flower) Richmond.

These are made of best seasoned White Virginia Cedar, securely bound with welded wire hoops. They are nicely painted green, paint of best oils. Prices F. O. B. Chicago or New York.

No.	Each	Four	No.	Each	Four
1. 6x 6	\$0.70	\$2.60	9. 14x13	\$1.90	\$7.20
3. 8x 8	.80	3.00	11. 16x15	2.45	9.40
5. 10x 9	1.05	4.00	13. 18x17	3.10	12.00
7. 12x11	1.45	5.60	14. 19x18	3.65	14.00

If handles are required add 35c per tub.

The first numeral is diameter at top; the second is depth.

SIEVES. For sifting soil. 18 inches in diameter, all sizes mesh from ¼ to ½ inch. Each, \$1.65.

Double and Single Wheel Hoes

IRON AGE

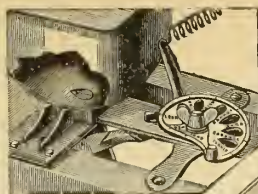
WE ARE SPECIAL CHICAGO AGENTS

Hill and Drill Seeders

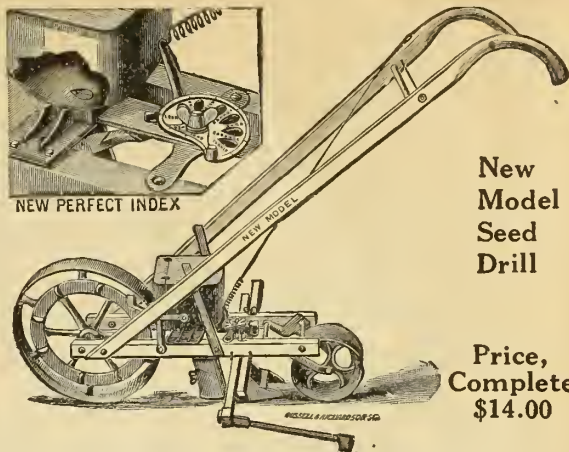
The "Iron Age" is a quality line throughout. The finest materials and latest models.

The "Iron Age" is a complete line, including Wheel Hoes, double and single; Hill and Drill Seeders, Fertilizer Distributors in many sizes and combinations.—A great feature is the many combinations that can be made of the same frame.

We do not prepay railroad or delivery charges on any "Iron Age" Implements. Allowing ourselves a very small margin we have cut our prices as low as possible for prompt cash payment—A comparison with others will show our close prices.



NEW PERFECT INDEX



New Model Seed Drill

Price, Complete \$14.00

New Model Seed Drill

Very popular with seedsmen and market gardeners. Exact regulation of seed discharge by using an eccentric index or indicator which adjusts the slide for seed opening exactly where you want it. No series of holes which have to be used whether they answer or not. A swinging cut-off stops flow of seed—does not jam with falling seed.

No. 306. Combined Double and Single Wheel Hoe, Hill and Drill Seeder

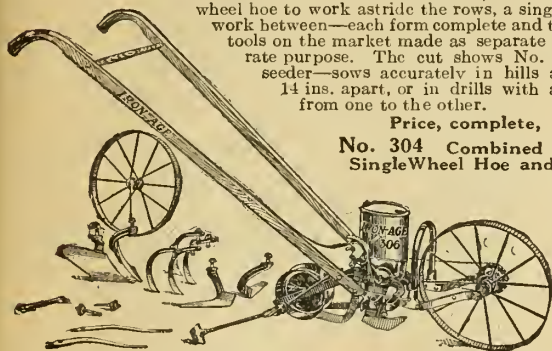
Four machines in one—a hill seeder, a drill seeder, a double wheel hoe to work astride the rows, a single wheel hoe to work between—each form complete and the equal of any tools on the market made as separate tools for separate purpose. The cut shows No. 306 set up as a seeder—sows accurately in hills at 4, 6, 8 12 or 14 ins. apart, or in drills with a quick change from one to the other.

Price, complete, \$20.50.

No. 304 Combined Double and Single Wheel Hoe and Drill Seeder.

Like 306, but sows in rows only and has different plow.

Price, \$19.50



No. 301. Combined Double and Single Wheel Hoe

This is the Wheel Hoe form of No. 306. Can be made into Single Wheel Hoe in one minute. Cultivate astride the row close up on each side without injury to the plants or between any width rows with hoes reversed. The high wheels make it an easy-running machine. Takes all of the tools shown and various attachments for special work including Drill Attachments to sow in continuous rows or both drills and hills. The latter are \$9.00 and \$10.00 respectively.

If this Wheel Hoe is wanted plain with hoes only, order as No. 303.

Price, \$8.50.

If wanted with rakes order as No. 301R.

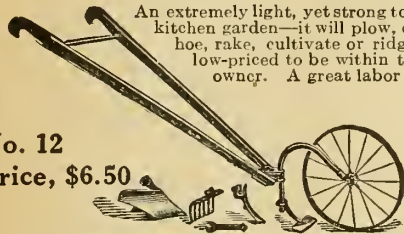
Price, \$13.00.



Price, Complete \$12.25

No. 12 Wheel Plow and Cultivator

An extremely light, yet strong tool, designed for use in a small kitchen garden—it will plow, open furrows and cover them, hoe, rake, cultivate or ridge crops. This is sufficiently low-priced to be within the reach of any small garden owner. A great labor saver. **Price, No. 12, \$6.50**



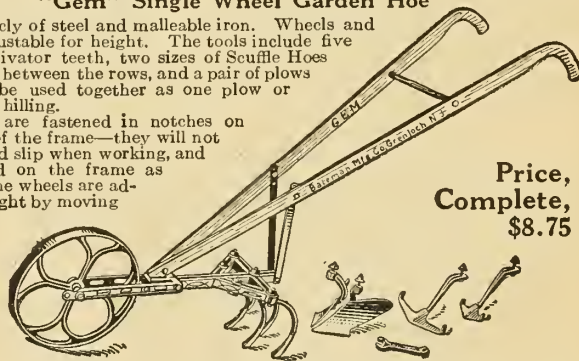
No. 12 Price, \$6.50

No. 11 Wheel Plow and Cultivator is practically the same tool except furnished with plow only. **Price, \$5.25.**

"Gem" Single Wheel Garden Hoe

Built largely of steel and malleable iron. Wheels and handles adjustable for height. The tools include five slender cultivator teeth, two sizes of Scuffle Hoes for working between the rows, and a pair of plows which can be used together as one plow or separate for hilling.

All tools are fastened in notches on under side of the frame—they will not get loose and slip when working, and are adjusted on the frame as needed. The wheels are adjusted in height by moving frame braces up or down on ratchet just in front of handles.

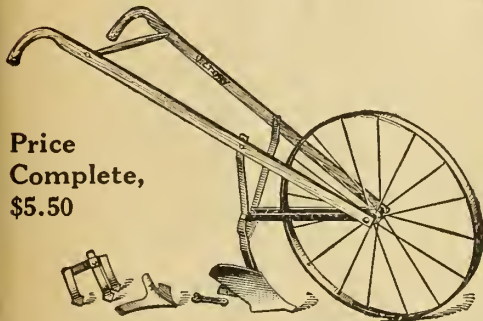


Price, Complete, \$8.75

Victory Wheel Plow and Cultivator

Well put together. Steel construction throughout except handles, which are made of strong oak or ash. 24-inch wheel, rides easily over rough ground. Tools furnished consist of a set of three cultivator teeth on a bracket, a scuffle hoe and a landslide plow. Has hardwood handles with plow-shaped grips.

Victory Wheel Plow and Cultivator, \$5.50



Price Complete, \$5.50

No. 19C Wheel Plow and Cultivator

A popular tool of great strength. This tool will do plowing in light soils, and will open furrows for seed or fertilizer. Cannot be excelled as a one-wheel cultivator. Has two sizes of single teeth for work in narrow rows, scuffle hoe, set of three teeth on a bracket and a landslide plow.

Landside fitted on the plow acts as a guide, absolutely necessary if you expect to make a clean cut furrow, to stay in the ground and do a real job. The 24-inch wheel travels over rough ground easily. Has long hardwood handles adjustable for height, with full plow-shaped grips.



Price No. 19C \$6.75

Corn Planter—Hand

"The Eagle." This is a rotary planter, having three different sized plates which can be easily changed. Each, **\$3.25.**

Cahoon Seeder

It will seed evenly four to six acres per hour. It will scatter the following distances: Wheat, Barley, Rye, 25 feet; Clover and Timothy, 18 to 20 feet. The bag and hopper hold about 22 quarts. Weight, 5½ lbs. **Price, \$6.25.**



FOUR VIEWS OF VAUGHAN'S NURSERIES, WESTERN SPRINGS, ILLINOIS



ONE OF OUR PEONY FIELDS



PROPAGATING FRAMES, PACKING SHEDS



A BLOCK OF APPLE TREES



ROW AFTER ROW OF BLUE SPRUCE

How to Order

We respectfully request customers to follow these instructions and to fill out order sheets carefully.

Early Orders Kindly send in your order as soon as convenient after receiving catalog. Our rush season comes in the months of March and April. Orders received earliest secure the promptest shipment and from our complete stocks.

Daily filling of seed orders is the Vaughan rule.

Order Sheets Use the order sheets accompanying this catalogue. One for **Seeds, Bulbs and Garden Sundries**, the other for **Trees, Plants and other Nursery Stock**. Please fill in all particulars carefully and distinctly with your **Zone Number** and keep a copy of your order.

Seed and Bulb Orders should have the quantity required written distinctly in the column provided for same with prices. Flower Seeds may be ordered by name, or by the marginal number.

Plant and Tree Orders should be written on the order sheet provided for these, and should state quantity, size or age required of each variety, with the price for same carried out. No plants, trees or shrubs sent C. O. D.

Order Trees, Shrubs and Hardy Vines, if possible, before end of March—it gives us more time for selecting, packing and shipping when the planting season opens up. Early orders receive first attention.

All **Trees Shrubs and Hardy Plants** are shipped as soon as weather permits. Tender plants from Green-houses for bedding, etc., are shipped after frosts are past, usually after May 15th. (Southern shipments any time after February). State plainly date and manner of shipping you wish.

Parcel Post Fourth Class Mail Matter, which includes seeds, plants, bulbs, roots, books, tools, insecticides (that are non-poisonous), odorless fertilizers and requisites may be forwarded by domestic parcel post within the United States. We recommend this mode of conveyance for all seeds and bulbs, where weight permits, also implements, insecticides, etc., where we give mailable weights throughout the catalog.

You will find your **Zone Number** following your name on the wrapper of this catalog. Please mark this number in the space provided for same on the top right hand corner of all orders which you send to us.

Express Shipments General orders for garden seeds, where **peas, beans and corn** form a large proportion, are best sent this way. Orders over **FIVE POUNDS** (5 lbs.) weight going to **5th Zone and beyond**, will travel cheaper by express than by parcel post.

How to Send Money Send by New York or Chicago draft, registered letters, or postoffice or express money order; both are cheap and absolutely safe. Small postage stamps are taken as cash, but we prefer larger denominations such as fives, tens or fifteens. Registered letters can be sent from any postoffice, and your receipt sent you by return mail if demanded by you, by which you know it has reached us. If local checks are used, 25 cents must be added to cover the cost of collecting. Make money orders payable to "Vaughan's Seed Store." (Mark your Zone Number on order.)

Parcel Post Rates By Zones

Vaughan's Seed Store at Chicago and New York, covers the United States in a remarkable way to secure cheap postal rates for its many mail order customers.

All parcels under 8 ounces are carried everywhere regardless of zone rates at one cent for 2 ounces.

Packages of such size Vaughan's Seed Store prepays FREE. BUT seeds ordered at peck, bushel or five pound rates, or bought in even larger quantities at cheaper prices, should go by freight when possible.

To liberal orders from distant points WE ADD FREE, SPECIAL NEW VARIETIES of value to partly cover postage or express charges.

"Say it with Flowers" 50 Cents

6 Packets for

50 Cents

REGULAR PRICE 65c.

The "Friendship Garden," whose treasures are gifts from the garden of one's friends, or are of their choosing, is an idea long in favor with garden lovers. One never wanders among one's flowers without renewing happy associations—"Mary gave me this" or "John sent me these." For the convenience of customers who would like to "Say it with Flowers" we are offering from our finest strains of easily grown flower seeds a "Friendship Collection" to be mailed with your card to some flower-loving friend. We have combined them at a special price, so we can make no change in the varieties.

VAUGHAN'S
Friendship Collection

Colossal Zinnia, Mixed
Special Mixture of Single Poppies
Special Mixture of Strawflowers
Giant Pansy Mixture
Giant Branching Asters, Mixed
Special Mixture of Tall Nasturtium

Every one of these, the "best of its kind," a collection of flowers that can be grown in any garden anywhere, we will mail this collection with your card if for a friend, to any address in the United States or Canada for 50 cents.

the crop which may be raised from seeds which we sell.

At the same time, in case of any failure to secure proper results caused from some inherent fault in the seeds themselves, Vaughan's Seed Store accepts responsibility, not for crop, but to the extent of the amount of money paid for the seeds, if we are immediately advised in case of any dissatisfaction.

We wish it understood that all our stocks are sold under the following conditions:

We Do Not Warrant in any way, expressed or implied, the contents or the description, purity, productiveness or any other matter of any seeds, bulbs, plants, shrubs or trees sold by us, and we will not be in any way responsible for the crop. If the purchaser does not accept these goods on above terms, no sale is made thereof, and he must return them at once, and money will be refunded. Subject to above conditions, we make this sale at the moderate prices at which we sell our goods.

DOMESTIC PARCEL POST RATES		First pound or fraction	Each additional pound or fraction
On Seeds, Plants, Bulbs, Roots, Books, Tools, etc. within the U. S. and Possessions.			
First Zone Chicago or New York City or 50 miles thereof ..		5c.	1c.
Second Zone within 50 to 150 miles of either ..		5c.	1c.
Third Zone within 150 to 300 miles ..		6c.	2c.
(See our prepaid offer above for zones 1 to 3.)			
Fourth Zone within 300 to 600 miles ..		7c.	4c.
Fifth Zone within 600 to 1000 miles ..		8c.	6c.
Sixth Zone within 1000 to 1400 miles ..		9c.	8c.
Seventh Zone within 1400 to 1800 miles ..		11c.	10c.
Eighth Zone all over 1800 miles and Canada ..		12c.	12c.

NOTE.—Limit of weight for delivery within the first and second zones, 50 pounds; to Canada 4 lbs., 6 ozs. (postage 60c); to all other zones 20 pounds. If weight exceeds this, we will pack in 2 or 3 parcels (not more) provided money is remitted to cover postage. (Mark your Zone Number on order.)

Free Delivery

We prepay at our option (mail or express) in Local,

First, Second and Third Zones from Chicago or New York all Flower and Vegetable Seeds ordered at rates of single packet, ounce, quarter-pound, half-pound and pound; also two pound lots of Peas, Beans and Sweet Corn.

Where bought in quantities exceeding the above, and at special quantity prices, add postage at zone rates.

N. B.—Buyers who reside beyond the third zone from Chicago or New York may have all the seeds above mentioned prepaid for FIVE CENTS (5 cts.) per pound additional.

This offer includes the 4th, 5th, 6th, 7th and 8th zones and the dependencies of the United States.

These Special Free Deliveries do not include C. O. D. shipments, which travel at buyer's expense.

BY EXPRESS—We advise for safety against injury, to use express shipments on parcels weighing over 15 pounds.

Mistakes These will happen in spite of all care. Write us at once with copy of original order if possible, and mistakes will be promptly rectified. Please do not return goods until you hear from us.

Gardeners Supplied

We usually have on our books, names of dependable, experienced gardeners, and are very careful to recommend none but those with good records. No charge is made for this to either party.

Our Terms

with customers not having an account are strictly cash with order. We prefer not to send C.O.D., but if wanted by that method, customers should enclose one-fourth of the amount in remittance with order. No trees, plants or other perishable stock, are sent C. O. D.

Our Responsibility

It is so manifestly impossible for a seller of any perishable article to be responsible for what may happen to it after it leaves his hand, especially onlike seeds, which are replanted in the ground under varying conditions of soil and climate that we, in common with all American seed houses, disclaim responsibility as to



TREES and NURSERY STOCK only on this sheet **PLANTS**

Our Order No

U. S. Gov't. License No. 31074

See instructions in Catalogue, "HOW TO ORDER"

Order to Vaughan's Seed Store

Greenhouses, Nurseries and Trial Grounds, Western Springs, Ill.

41-43 Barclay St., NEW YORK

10-12 W. Randolph St., CHICAGO

Date

Your Name
(Very Plain)

Please do not write here.

Post Office P. O. Box

County State

Street No. Forwarded by
(Mail, Express or Freight)

Express Office Name of Ex. Co.

AMOUNT ENCLOSED Cash, \$..... Money Order, \$.....

 State how much money you enclose. Postage Stamps, \$..... Draft or Check, \$.....

NOTICE—We do not warrant in any way, expressed, or implied, the contents, or the description, purity, productiveness, or any other matter of any seeds, bulbs, or plants, sold by us, and we will not be in any way responsible for the crop. If the purchaser does not accept these goods on the above terms, no sale is made thereof, and he must return them at once, and money will be refunded. Subject to above conditions we make this sale, at the moderate prices at which we sell our goods. Vaughan's Seed Store (Incorporated).

QUANTITY	NAMES OF ARTICLES	PRICE	
		Dollars	Cents

If by parcel post, and not quoted at prepaid prices, add 5c per plant and 20c per dozen for postage. No Nursery Stock sent C. O. D.

Do not Write in this space.

QUANTITY	TREES, PLANTS and NURSERY STOCK—Continued	Mailing Weight	Dollars	Cents

DOMESTIC PARCEL POST RATES On Seeds, Plants, Bulbs, Roots, Books, Tools, etc. within the U. S. and Possessions.		First pound or fraction	Each additional pound or fraction	Total Weight lbs.	
First Zone	Chicago or New York or 50 miles thereof . . .	5c	1c	Amount for postage	\$
Second Zone	within 50 to 150 miles of either	5c	1c		
Third Zone	within 150 to 300 miles	6c	2c		
Fourth Zone	within 300 to 600 miles	7c	4c		
Fifth Zone	within 600 to 1000 miles	8c	6c		
Sixth Zone	within 1000 to 1400 miles	9c	8c		
Seventh Zone	within 1400 to 1800 miles	11c	10c		
Eighth Zone	all over 1800 miles	12c	12c		
				GRAND TOTAL	\$

In making your order, please give the prices to avoid delay and errors.

We will consider it a special favor if you write below, the names of some of your friends who are likely to use seeds or plants.

NAMES	POST OFFICE	COUNTY	STATE

QUANTITY	NAME OR CATALOG NUMBER OF ARTICLE Where Catalog gives a Number, please order by it.	WEIGHT	PRICE	
		For Parcel Post Only	Dols.	Cents
	Brought Forward			

	First pound or fraction	Each additional pound or fraction
First Zone Chicago or New York or 50 miles thereof..	5c	1c
Second Zone within 50 to 150 miles of either.....	5c	1c
Third Zone within 150 to 300 miles.....	6c	2c
Fourth Zone within 300 to 600 miles.....	7c	4c
Fifth Zone within 600 to 1000 miles.....	8c	6c
Sixth Zone within 1000 to 1400 miles.....	9c	8c
Seventh Zone within 1400 to 1800 miles.....	11c	10c
Eighth Zone all over 1800 miles.....	12c	12c

Total Weight, _____

Amount for Postage, _____

Grand Total, \$ _____

Filled by..... Checked by..... Packed by.....

Shipped by..... Style of Package.....

Date..... Book..... Weight.....

From _____

P. O. _____ State _____

Vaughan's Seed Store

New York

43 Barclay Street

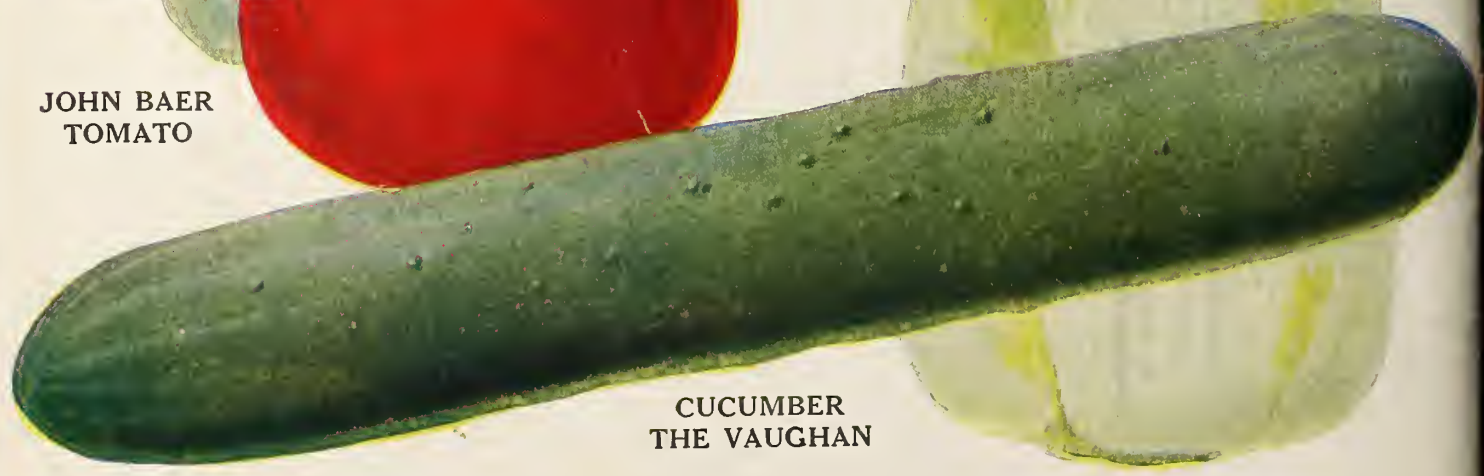


VAUGHAN'S SEEDS

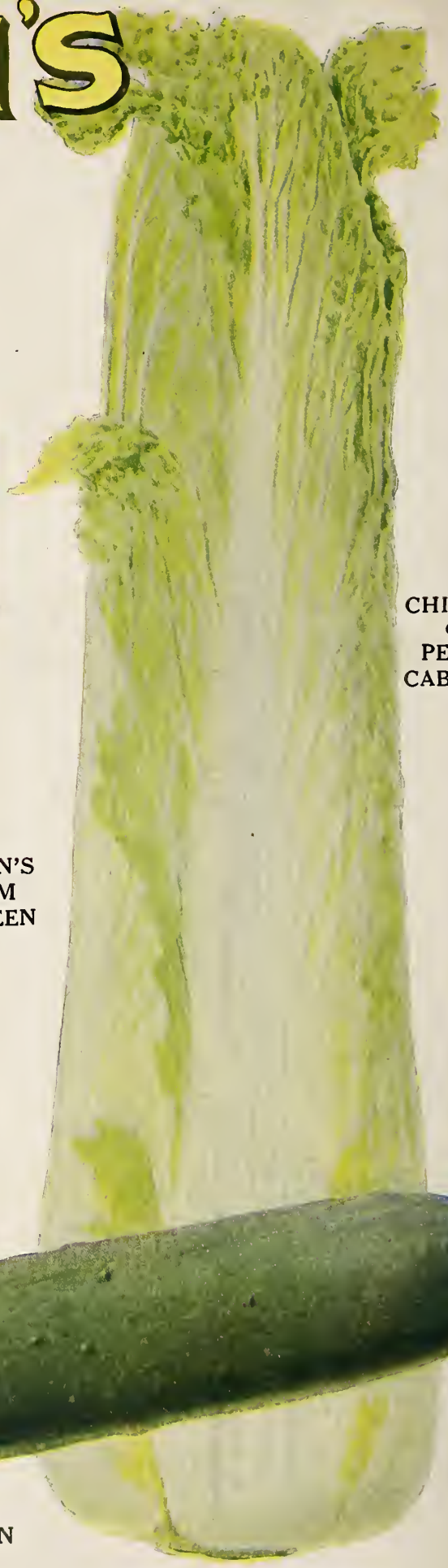


VAUGHAN'S
BANTAM
EVERGREEN

JOHN BAER
TOMATO



CUCUMBER
THE VAUGHAN



CHINESE
OR
PETAISI
CABBAGE