

ESTABLISHED 1871.

DORR'S IOWA SEED MANUAL

FOR 1881.

CONTAINING ALSO A LARGE LIST OF THE
CHOICEST SMALL FRUIT

FIREFLY PLOW. PREPARING THE SOIL FOR



DORR'S IOWA SEEDS.

AND MANY MISCELLANEOUS ARTICLES

FOR THE FARM AND GARDEN.

OFFERED BY

C. W. DORR,

GROWER, DEALER AND IMPORTER.

DES MOINES, IOWA.

Orders for SEEDS should be forwarded as early as possible, to insure their being filled before our stock is broken.

If you will send the names and address of any persons who are liable to need good seeds, Manuals will be gladly sent to them.

1881

The Iowa State Register.

1881

THE LARGEST PAPER PUBLISHED WEST OF NEW YORK.

ONLY PAPER THAT GIVES FULL TELEGRAPH NEWS OF THE WEEK.

Complete Agricultural, Commercial and Miscellaneous Departments!

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The Agricultural Department—Is edited by our Mr. C. F. Clarkson, an IOWA farmer with years experience on an IOWA farm and his articles are always seasonable, making it confessedly, the best agricultural paper in the Northwest. All other departments are complete, making it the best family News paper published.

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We call attention to the Large list of Valuable Papers and Magazines that club with

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By sending your subscriptions to us you will in many cases save nearly the price of one of the papers. In other words, you will get two good papers at a little more than the cost of one alone.

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A Farm, Garden, Household and Business Manual, more complete and valuable than many which are sold at \$5, will be mailed FREE to each NEW subscriber to the HOMESTEAD.

THE HOMESTEAD FOR \$1.50.

The HOMESTEAD has concluded that twenty thousand subscribers at \$1.50 a year are preferable to half that number at \$2.00 and acting upon the desire to double its circulation for 1881, we have reduced the price to \$1.50 for single subscriptions. The club rates are reduced in the same proportion. Send for a sample copy which will be sent free to all applicants. We are confident that every household in the West would find the HOMESTEAD worth more than double the value each year of its subscription price. A club can be got up in almost any neighborhood with very little effort. All postmasters are authorized to receive and forward subscriptions. Special inducements are offered to active and energetic agents. For particulars address

THE HOMESTEAD, Des Moines, Iowa.

THE IOWA HOMESTEAD.—This old friend comes back to us again with its good old name. Gov. B. F. GUE, who, our readers will recollect for many years, owned and edited the Northwest, now the Messenger, here in Fort Dodge, has lately bought of Dr. Sprague the Stock Journal and given to it its old name, THE IOWA HOMESTEAD, so familiar to us all, and is going to give to the farmers of Iowa an independent agricultural paper. We expect to see some pretty plain truths spoken. Gov. Gue speaks his own thoughts, and he has ability to express them on the pages of the HOMESTEAD in a way that will tell. This is only another evidence of the facts we have before called to the attention of our readers, viz., that there is a grand day dawning for the farmers of Iowa. There is talent and ability being given to agricultural writing that will tell wonderfully upon the intelligence of the men and women of the farm. With unfeigned gladness we hail Gov. Gue as one of the writers in farm literature who will be true to the highest interests of the farmers. We would rejoice to see the HOMESTEAD go into every homestead of our great State, for we believe its weekly visits would be a mighty lever to lift up the tiller of the soil to his true position. We can most heartily recommend every farmer to make it one of the indispensable things of his household.—L. S. COFFIN in Fort Dodge Messenger.

ELEVENTH ANNUAL CATALOGUE.



OFFICE DORR'S IOWA SEED STORE, JAN'Y, 1881.

To all who have occasion to plant seeds:

This catalogue contains a select list of the choicest and most approved varieties of vegetable and flower seeds, of both foreign and domestic origin, which have been proven to be suitable to the climate of the United States.

The list is not as extended as those offered by some Seedsmen, who evidently pride themselves in confounding the purchaser by advertising unworthy or identical sorts. It is the design to offer nothing unworthy of a place in every garden.

Believing low prices would better subserve the interests of our customers than an expensive elaborate catalogue they have been given the benefit of such judgment.

No attempt is made to compete with venders of cheap or doubtful seeds.

No seeds are sold on commission.

Nothing is substituted except in cases where an article is entirely sold and having another of equal or better quality than that ordered, the substitution can make no material difference to the purchaser.

Everything is carefully and thoroughly tested in the Winter, and nothing sold that does not prove to be perfectly good.

I CLAIM—That my seeds are fresh and reliable.

That with proper treatment, the climate and soil being in a proper condition, they will grow.

That prices are as low as good, fresh seeds can be sold for.

That all papers are large and well filled.

That my business is conducted in an honorable and business like manner.

From the fact that the success of the crop depends on so many contingencies entirely beyond the control of the seed grower, to warrant seeds to invariably produce a perfect crop would be rank quackery, and while I exercise the greatest possible care to have everything strictly reliable and perfectly satisfactory in every particular, yet I can not warrant the same and am not liable or responsible for any loss or damage arising from any seeds sold by me.

I WILL BE RESPONSIBLE that all money sent by Registered Letter, Post Money Order or Bank Draft will reach me. The expense of sending money in this manner may in all cases, where the order amounts to \$2.00 or upwards, be deducted from the amount sent. Small amounts may be sent in stamps when more convenient. *Do not moisten them in the least*, but place them safely in sealed letter. Do not send private checks, as they have to be returned for collection.

That all seeds sent out by me will reach the purchaser in *perfect condition*.

Send your orders early as convenient, so they may be filled before the stock is broken.

Write plainly and do not forget to sign your name with full post office address.

Terms—Cash must accompany all orders.

DISCOUNTS ON SEEDS.

All 5 cent packets, 50 cents per full dozen. All ten cent packets, \$1.00 per full dozen. On all orders for vegetable seeds (except packets at the dozen rate) amounting to \$5.00, and not exceeding \$10.00, five per cent. On orders amounting to \$10.00, and not exceeding \$25.00, ten per cent. Write for special discounts on larger orders than \$25.00, sending list of seeds wanted.

AM I RESPONSIBLE—A great many people naturally hesitate to send money away, fearing it will be lost; and in order that any such may feel fully satisfied that they will receive the seeds ordered, I would respectfully refer them to the Post Master, Agents of the American and United States Express Companies, to any bank or large business house in the city.

Remember the prices quoted (with the exception of peas, beans and corn, in larger quantities than by the packet, and miscellaneous articles—except where noted)—include *express or mail charges prepaid through by me*.

C. W. DORR.

Des Moines, Iowa.

My New Iowa Seed Manual will be ready for mailing,
about January 1st. ~~Write for it!~~ *A copy will then
be sent to you without writing.*

381.

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noted)—include express or mail charges prepaid through by me.

C. W. DORR.

Des Moines, Iowa.

❧VEGETABLE❧SEEDS❧

☞ All vegetable seeds are sent by mail or express to any address, *charges prepaid through by us*, at prices named, except Peas, Beans and Corn in larger quantities than papers, which are sent by express or freight at expense of purchaser, unless 25 cents per quart for Beans and Peas, and 20 cents for Corn, is added to prepay postage.

All Five Cent Papers, Fifty Cents Per Dozen.
All Ten Cent Papers, One Dollar Per Dozen.

ARTICHOKE

Plant early in Spring, in deep, rich, sandy loam. Following Spring transplant to permanent beds in rows three feet apart and 2 feet in the row. They mature the second year. Must be protected in Winter. The edible portion is the undeveloped flower head, which is only fit for use before it begins to bloom. It is eaten both raw and boiled, and by epicures is considered quite a luxury.

POSTPAID.
PAPER. OZ. ¼LB. LB.

French Green Globe..... 5 25

ASPARAGUS.

Soak the seed twenty-four hours in tepid water; sow early in Spring, in rows a foot apart; keep clean by frequent weeding and hoeing. At one or two years old transplant to permanent beds. The ground should be trenched or dug over, two feet deep, burying plenty of manure, decayed leaves, or leaf mold, mixing it thoroughly with the soil. Lay out the beds four and one-half feet wide, and draw three drills fourteen inches apart and six inches deep, lengthwise of each bed; place the roots in them, a foot apart, in their *natural position*, and cover four inches deep. A rich, sandy loam is most suitable. Every Autumn, after clearing off the stalks, spread on a covering of manure, to be forked in, with a good dressing of fine salt, very early in the Spring. A new bed should not be cut over before the third year.

Conover's Colossal—An improved variety of extra large size, tender and productive..... 5 10 20 60
Conover's Colossal Roots—See Miscellaneous Articles, last part of catalogue.

BEANS—DWARF OR BUSH VARIETIES.

Dwarf or Bush Beans require no support, and may be planted in hills or drills, the latter way being preferred. Make the drills an inch and a half deep, and drop the beans three inches apart in the drills. Beans are tender annuals, and cannot be planted till danger of frost is past. Keep clean, but do not hill up or hoe when wet, as it tends to make them rust. A sandy loam is most desirable.

Twenty-five cents per quart must be added to pay postage when beans are ordered by mail.
PER PAPER, TEN CENTS, POSTPAID.

	QRT.	PECK.	BUSH.
Early Valentine —Early and productive. One of the very best....	25	\$1.50	\$5.00
Early China Red-Eye —Early, great bearer; string or shell.....	25	1.50	5.00
Early Rachel —Early, desirable for string or shelling.....	25	1.50	5.00
Early Yellow Six-Weeks —Early and prolific.....	25	1.50	5.00
Large White Kidney, or Royal Dwarf —Excellent.....	25	1.25	4.50
Large White Marrowfat —Fine shelled, green or dry.....	25	1.25	4.50
White Wax —Pods waxy yellow, stringless and very tender.....	40	2.50	9.00
Black Wax —Pods fleshy, waxy yellow, tender and stringless.....	40	2.50	9.00
New Golden Wax —Very superior; early; beautiful golden yellow; entirely stringless.....	40	2.50	9.00

BEANS—POLE OR RUNNING.

These are more tender and require rather more care and culture than the Bush Beans; they succeed best in clay loam, which should be liberally enriched with short manure in the hills, which are formed according to the variety, from three to four feet apart; from five to six seeds are planted in each hill about two inches deep.

PER PAPER, TEN CENTS, POSTPAID.

Horticultural —Productive, fine for Snap Beans or shelled.....	30	2.25	8.00
Giant Wax —Pods waxy yellow, tender, good Snap Bean.....	50	3.50	12.00
Large White Lima —None equal this as a shelled Bean.....	50	3.50	12.00
Breer's Improved Lima —Very productive; superior quality; nearly as large as the Large Lima; remaining green a long time	50	3.50	
White Dutch Case Knife —Matures in 60 days. Pods long and flat, beans kidney-shaped, excellent quality.....	35	2.50	9.00
Scarlet Runner —A favorite Snap Bean in Europe; valuable for table use or as an ornamental vine.....	35	2.50	9.00

BEETS.



Beets are an important crop with market gardeners. They succeed best in deep, rich sandy loam. Early varieties should be sown as early as the ground can be worked, and for a succession every two weeks to first of July. For winter crop sow in May. Seed germinates quicker if soaked in warm water six hours, but care should be taken not to plant soaked seed in very dry ground, as it is liable to die.

PER PAPER, FIVE CENTS.

	POSTPAID.		
	OZ.	¼LB.	LB.
Dark Red Egyptian Turnip —Very earliest; deep red, tender and delicious. Superior for marketing.....	10	30	\$1.00
Extra Early Bassano —Early; turnip-shape; flesh white, circled with rose color. Tender and juicy; keeps well when sown late.....	10	25	.60
Bastian's Extra Early Red —Turnip-shaped, quick growth, large size, bright red color.....	10	30	1.00
Dewing's Improved Blood Turnip —Roots deep blood red, of fine form and flavor. Very early; an excellent market variety.....	10	25	.60
Early Blood Turnip —The standard early sort; good for Winter.....	10	25	.60
Extra Long Dark Blood —Standard Winter; smooth, tender and sweet.....	10	25	.60
Swiss Chard —For greens only.....	10	25	.75

BEETS AND MANGLES FOR FEEDING STOCK.

Sow 4 to 6 pounds of seed per acre, in rows 30 inches apart, on good, rich soil, which should be plowed very deep. Thin to 8 inches in the row. For Winter, store in cellars or pits as soon as frost occurs.

Long Red Mangle —Standard sort; grows mostly above ground.....	10	20	50
Mammoth Long Red —A late introduction of extra large size.....	10	25	.60
Carter's Orange Globe —The best of the Yellow Globe varieties.....	10	25	.60
Red Globe —Same as Yellow except color.....	10	25	.60
Lane's Imperial Sugar —Very productive and sweet.....	10	25	.60
Silesian or White French Sugar —Excellent cropper, very sweet... ..	10	20	.50
Norrbiffon Giant —A new and very superior long red mangle.....	10	25	.60
Red Ovoid —Large oval shape.....	10	25	.60

BROCCOLI.

Growth and habit like the Cauliflower, except that the heads are not as compact. Use and cultivation the same as Cauliflower.

PER PAPER, FIVE CENTS.

Early Purple Cape —A popular sort; heads well and is very hardy.....	40	\$1.25
Carter's Summer —Very early; well suited to this climate.....	40	1.25

BRUSSELS SPROUTS.

Of the Cabbage family, producing numerous small heads on the stem, as well as a cabbage like head at the top. These small heads are very tender and of fine flavor, in the fall after frost. May be stored in the cellar for Winter. Use and cultivation same as Winter Cabbage.

PER PAPER, FIVE CENTS.

Best French —.....	25
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CABBAGE.

Sow early sorts in hot-bed in February and March, or in open ground as soon as it can



EXCELSIOR PREMIUM FLAT DUTCH.

PER PAPER, FIVE CENTS.

	POSTPAID.		
	OZ.	¼LB.	LB.
Extra Early York —A well known and old favorite variety.....	15	40	\$1.50

be worked. Later and winter crops, in May or June, in shallow drills, six inches apart. When the plants are 4 inches high, transplant into *richly manured* ground; the early kinds 2 feet apart, the fall and winter varieties 3 feet apart. The ground should be *deeply loosened and worked thoroughly and often* to produce solid heads.

For Winter and Spring use lift the plants before severe frost sets in. Select the driest and most sheltered part of the garden, and bury the roots, stump, and a portion of the head in the ground, and when the weather is severe cover with straw and a light covering of earth. The crop of seed is very short this year.

CABBAGE--Continued.

	OZ.	¼LB.	LB.
Early Large York —Little larger and later. Endures heat well.....	15	40	\$1.50
Jersey Wakefield —The great favorite with market gardeners, the earliest, and sure to head. The very best early cabbage grown for the family garden. Our stock is extra choice.....	50	1.75	6.00
Winningstadt —Cone-shaped, one of the best Summer sorts; if sown late, good for Fall or even Winter; a sure header and good keeper.....	25	80	2.75
Early Wyman —Allied to the Jersey Wakefield, much larger, but not quite so early; fine quality; highly valued by market gardeners....	30	1.10	4.00
Newark Early Flat Dutch —A well known and valued second early. Heads large and solid.....	40	1.25	4.00
Early Drumhead —Solid heading; early fall sort.....	40	1.25	4.00
Fottler's Improved Brunswick —Superior second early sort; heads large and solid; an excellent keeper; makes a good Winter sort when sown a little late.....	30	1.10	4.00
Hendersons' Early Summer —A superior variety of recent introduction. Ten days later than Wakefield and much larger. FIRST CLASS; try it	60	2.25	8.00
French Oxheart —Early; heads close and solid.....	15	50	1.50
Excelsior Premium Flat Dutch —Without doubt the finest Winter Cabbage grown. From extra selected stock.....	25	80	3.00
Large Late American Drumhead —Superior Fall and Winter sort; large size; solid; fine quality; similar to last.....	25	80	3.00
Stone Mason Drumhead —Very reliable compact heading, Fall and Winter variety. Highly prized by gardeners.....	40	1.25	4.00
Marblehead Mammoth —Largest of all; under high cultivation heads compact and solid; good quality.....	40	1.25	4.00
Perfection Drumhead Savoy —Heads large and very finely curled; very compact; short stalk. Finest Savoy in cultivation.....	30	1.10	4.00
Fine Red Pickling —Deep red color; medium size; solid.....	20	75	
Cabbage Plants —See list of Vegetable Plants, last part of catalogue.			

CARROT.

A light, sandy loam, deeply tilled is best. For early crops, sow in Spring soon as ground can be worked, in rows 15 inches apart, covering 1 inch. For field culture rows should be of sufficient distance to admit the use of a horse cultivator. Sow seed in May.

PER PAPER, FIVE CENTS.



HALF LONG.

Early French Forcing —The earliest variety valuable for forcing.....	10	35	1.25
Early Horn —Favorite sort, much esteemed for Summer use.....	10	30	1.00
Half Long Stump Rooted —Second early; great value to gardeners.....	10	30	1.00
Danvers —A new and promising sort; rich orange color; very smooth; midway between Long Orange and Short Horn.....	15	40	1.50
Improved Long Orange —Standard field variety; good for table use.....	10	30	1.00
Large White Belgian —Very productive; grown for stock.....	10	25	70
Altringham —A large and fine flavored red sort..	10	30	1.00

CAULIFLOWER.

Cultivation same as Cabbage. Extra manure and work will amply repay. Cauliflower requires an abundance of water.

PAPER. OZ.

Erfurt Earliest Dwarf —Early; one of the best for forcing.....	25	\$5.00
Early Favorite —A new and exceedingly fine first early sort. Very sure to head.....	25	5.00
Early Paris —Large and fine heads; very popular.....	5	1.00
Early London —A well known and valuable variety.....	5	75
Walchereen —A very hardy variety.....	5	60
Lenormands —Large, well formed heads, Best late sort.....	10	1.25
Early Snowball —Early. Superior. Sure to head.....	25	5.00
Thorburn's Wonderful —Second early; large, solid, beautiful white heads...	10	2.00
Cauliflower Plants —See list of Vegetable Plants, last part of catalogue.		

CELERY.

Sow seed in open ground, in light, sandy soil, in April, and thoroughly firm the soil; keep shaded, moist and clean of weeds. Clip the tops two or three times, to make the plants stocky, before transplanting, which should be done in July in trenches eight inches deep and 3 feet apart for dwarf and 4 for tall varieties. Cultivate often for 2 months when it will be time to commence "earthing up," which should be done by degrees as the plants grow, being careful not to allow any soil to get into the center of the plant. Store in trenches in well drained, open ground, 12 inches wide and of sufficient depth so the tops of the Celery will be six inches above the surface, which must slope to carry off the surface water. Set plants closely together in an upright position. On the approach of severe cold weather, cover gradually (to prevent heating) with hay or leaves, and boards to keep out moisture. The stalks will blanch perfectly and may be taken out at any time during the Winter.

CELERY--Continued.

	PER PAPER, FIVE CENTS.	OZ. ¼-LB.
Henderson's Half Dwarf —Popular market sort; close habit; solid, crisp, tender.	25	75
Sandringham Dwarf White —Very popular, excellent quality.....	20	60
Large White Solid —Large size; solid and crisp.....	20	60
Boston Market —Dwarf white; excellent quality; well known.....	25	75
Golden Dwarf —A new variety of decided merit. When blanched the heart is of a rich golden color; excellent quality; good keeper.....	50	1.75
Turner's Dwarf White —Stiff, close habit; crisp and juicy.....	20	60
Laing's Mammoth Red —Very large; perfectly solid.....	25	75
Sealey's Leviathan —Large white; solid, fine flavor.....	25	75
Seymour's White Solid —Very popular English sort.....	20	60
Celeriac, or Turnip-Rooted Celery	20	60
Celery Seed —For flavoring, per pound, 50 cents.		
Celery Plants —See list of Vegetable Plants.		

CHUFAS OR EARTH ALMOND.

Can not be sent till danger of frost is past. Paper, 5 cts., oz., 10 cts.

CHICKORY, (Large Rooted.)

Used as a substitute for coffee. Per paper, 5 cts.; oz., 10 cts.; ¼lb., 30 cts.

COLLARDS, (Georgia).

Sow seeds in May; transplant and treat as cabbage. Per packet, 5 cts.; oz., 15 cts.

CHERVIL, (Curled).

Leaves used in soups and salads. Cultivate like Parsley. Per paper, 5 cts.; oz., 20 cts.

CORN SALAD or FETTICUS.

A delicious Winter Salad. Sow early in September in drills quarter of an inch deep and 6 inches apart. Just before cold weather cover with straw or leaves. Per paper, 5 cts.; oz., 10 cts.; ¼lb., 25 cts.

CORN.

Twenty cents per quart must be added to pay postage when corn is ordered by mail.

PER PAPER, TEN CENTS, POSTPAID.

	QRT.	PECK.	BUSH.
Extra Early Six Weeks —Produced good roasting ears for us last season in less than 6 weeks from planting. Ears small but well filled; not sweet.....	20	1.25	4.00
Early Minnesota —Early, excellent; ears large, very uniform.....	15	1.00	3.50
Crosby's Early Sweet —Little later than above, sweet and fine.....	15	1.00	3.50
Moore's Early Concord —Large, well filled ears; highly prized.....	15	1.00	3.50
Early Des Moines —An excellent variety, which has been grown and improved by the gardeners in this vicinity for many years. Among the earliest; good sized ears, delicious flavor.....	30	2.00	6.00
Early Boynton —One of the very earliest. Ears about 7 inches long; quality superb.....	25	1.50	4.50
Egyptian —A new late sort of very superior quality; large ears; very prolific.....	25	1.50	5.00
New England Sugar —A popular variety; fine quality.....	15	1.00	3.50
Early Eight Rowed Sweet —An excellent variety.....	15	1.00	3.50
Stowell's Improved Evergreen —Very large; sixteen rowed; deepkerneled, tender and sugary, remaining a long time in a fit condition for boiling. Best for general purposes.....	15	1.00	3.50
Mammoth Sweet —The largest of all varieties. Superior quality... ..	15	1.00	3.50
Early Adams —A very early, productive white Dent.....	15	1.00	3.50
Pop Corn —Extra fine rice.....	30	2.00	
Sweet Corn —For fodder.....		75	2.00

CRESS, or PEPPERGRASS. (Extra Curled).

A well known salad. Sow thickly and at intervals during the season; cover seed slightly. Per paper, 5 cts.; oz., 10 cts.; ¼lb., 25 cts.

CUCUMBERS.

Cucumbers succeed best in rich, loamy soil. For first early sow in hot-beds, upon pieces of sod or in small flower pots 6 weeks before they can be set out in open ground. When danger of frost is over transplant to hills 4 feet apart each way. For general crop, plant in open ground in May, about 12 seeds in a hill. When danger of bugs is past, thin to 4 strong plants in a hill. For pickles, plant in June. Sprinkle vines with plaster or air-slacked lime to protect from bugs.

	PER PAPER, FIVE CENTS.	OZ. ¼LB.	LB.
Early White Spine —Superior for table use and pickles; straight and well formed.....	10	25	80
Boston Market —Among the finest for table use and pickling.....	10	30	1.00
Early Cluster —Grows in clusters, and extremely productive.....	10	30	1.00
Early Frame or Short Green —One of the best; well known.....	10	25	80
Improved Long Green —Old standard sort; crisp, tender, good flavor.....	10	25	80
Tailby's Hybrid —Large, smooth, exceedingly productive.....	10	30	1.00
London Long Green —One foot in length; flesh greenish white.....	10	30	1.00
Gherkin, or Burr —For Pickles only.....	25	75	

CUCUMBERS—Continued.

	OZ.	¼LB.	LB.
Perfection Pickling —New. Combines many good qualities of a pickling and table sort.....	25	80	
Boston Pickling —Among the very best for pickling.....	10	30	1.00

EGG PLANT.

Sow early in hot beds. Transplant to open ground last of May, in rows 3 feet apart.

	PAPER	OZ.	¼LB.
Early Long Purple —Hardy and productive, 6 to 8 inches long.....	5	30	\$1.00
Improved New York —Extra large and choice; fine flavor.....	5	50	1.75

ENDIVE (Extra Moss Curled).

Sow early and thin; cover slightly. Soon as large enough, thin to 9 inches apart. When leaves are 8 inches long, tie them together near the top with string to blanch; this must be done when quite dry. Before cold weather take up for winter, being careful to leave a small amount of dirt around the roots. Store in dry cellar, with plenty of fresh air. Per paper, 5cts.; oz., 20cts.; ¼lb., 60cts.

KALE, or BORECOLE.

A very excellent member of the Cabbage family and should be more extensively cultivated. It is quite hardy and is improved by frost. Cultivate same as cabbage. For Winter sow in September and treat as Spinach.

Dwarf German Green —Best for winter greens.....	5	10	30
Tall Curled Scotch —Bright green; beautifully curled; 18 inches.....	5	10	30

KOHL RABI, or TURNIP-ROOTED CABBAGE.

An excellent vegetable intermediate between the Cabbage and Turnip. Sow in rows in May or June, 18 inches apart, thinning to 8 inches between the plants. Cook as turnips.

Early White Vienna —Flesh, white and tender; best market sort.....	5	20	75
Early Purple Vienna —Differing from above only in color.....	5	20	75

LEEK.

The Leek is very hardy and easily cultivated. Sow early in Spring, either in the seed bed, to be transplanted, or in the sites where they are intended to perfect their growth. As soon as the plants are 3 or 4 inches high, they may be hoed and thinned 8 inches apart. Hoe the earth well up to the stalk to blanch it. In transplanting put them well down to cover the necks.

London Flag —A hardy, strong growing variety.....	5	15	30
Large Rouen —Large; best for forcing.....	5	25	90

LETTUCE.

Sow in hot-beds in March; open ground soon as can be worked. Transplant to rows 12 inches apart in very rich, pulverized soil. Or, for early plants, sow in September, and winter over in cold frames. For succession, plant every three weeks during the season. Thin out as it grows so that the plants left to head will stand 12 inches apart.

	PER PAPER, FIVE CENTS.	OZ.	¼LB.	LB.
Early Curled Silesia —Early; large, loose heads, excellent flavor....	15	50		\$1.50
Early Curled Simpson —An improved variety of the preceding.....	20	60		2.00
Tennis Ball —One of the earliest heading varieties; being very compact and solid; very best for hot-bed culture.....	20	60		2.00
Ice Drumhead —Heads readily; blanches naturally; crisp, tender....	15	50		1.50
Boston Curled —A variety of great beauty and superior quality.....	20	60		2.00
Victoria Cabbage —Hardy and fine for early sowing.....	20	60		2.00
Improved Head, Imperial Head, or Prize Head —Heads well; tender; slow in running to seed; first class for summer.....	20	60		2.00
Hanson's Extra large and solid.....	20	60		2.00
Curled India —Stands the heat well; very tender.....	20	60		2.00
Paris White Cos —Tender, brittle, mild flavor; very superior quality.....	20	60		2.00
Early Boston Market —One of the best for forcing.....	25	75		2.00
Philadelphia Butter —Extra fine; second early sort.....	20	60		2.00
Premium Curled —Very fine variety for forcing.....	25	80		2.25

MARTYNIA (For Pickles).

Plant in May in hills 4 feet apart. Pick when small. Preserve as cucumbers. Per paper, 5 cts.; oz., 25 cts.; ¼ lb., 75 cts.

MELON—Musk.

Both the Musk and Watermelon thrive best in a warm, mellow, rich, sandy loam. Thoroughly stir the soil. Plant 12 to 15 seed in each hill, which make 6 feet apart. Work under the surface of the hills a liberal quantity of decomposed stable manure. When they begin to vine, thin out to 4 of the most thrifty. To grow melons *very* early pursue the same plan as recommended for Cucumbers.

	PER PAPER, FIVE CENTS, EXCEPT WHERE NOTED.	OZ.	¼LB.	LB.
Skillman's Fine Netted —Flesh green, sugary and excellent quality.....	10	25		80
Green Nutmeg —Fruit oval, good size, rich, exquisite flavor.....	10	25		80
White Japan —Very early; thick flesh, sweet.....	10	35		1.25
Casaba —Large, very sweet and fine.....	10	30		1.00
Green Citron —Medium size, deeply netted; flesh green, delicious flavor.....	10	30		1.00
Improved Cantelope —Large size, flesh light green; most delicious flavor; superior for market or private gardens.....	10	25		80

MELON—Musk—Continued.

	OZ.	¼LB.	LB.
Ward's Nectar —Small size; very sweet and rich; green fleshed.....	10	35	1.25
Surprise —Thin, cream colored skin, thickly netted; flesh deep salmon color, very thick; fine. Per paper, 10 cts.....	20	75	...
Log-of-Wood —Named from its appearance; growing from two to three feet in length; quite early and prolific; good quality. In papers only 15 cts.			
Bay View —Greenish fleshed, very sweet and spicy; large size; extra fine quality. Per paper, 10 cts.....	25	75	..

MELON—Water.

Plant in hills 8 feet apart, and cultivate same as Muskmelon.

PER PAPER, FIVE CENTS, EXCEPT WHERE NOTED.

Mountain Sprout —Large size; oval; red fleshed.....	10	25	80
Mountain Sweet —Oblong; rind thin; flesh red.....	10	25	80
Phinney's Early —Flesh deep red; superior quality, early and productive; valuable market variety.....	10	25	80
Black Spanish —Large size, almost round; skin dark green; flesh red	10	25	80
Ice Cream —Medium size, nearly round, white seed; flesh scarlet.....	10	30	1.00
Orange —One of the sweetest; when ripe rind will peel off like an orange.....	10	30	1.00
Gipsey —Very large and productive; great favorite with gardeners....	10	25	80
Haskell's Excelsior —The very best market sort; flesh bright red; very superior quality; enormous size, frequently weighing over 40 lbs. Took first premium at our State Fair last 2 years.....	10	35	1.25
Citron —For preserves.....	10	30	1.00
Ferry's Peerless —Of unquestionable quality; medium size; thin rind; light mottled green; flesh bright scarlet; splendid.....	10	30	1.00
Chinese Sculptured Seeded —Flesh cream color; very early; delicious; seeds very curiously marked.....	10	25	80
Apple Pie —Excellent substitute for apples for making pies.....	15	50	...
Golden Flesh —Flesh bright golden color; rich, sweet flavor; medium sized. Per paper, 10 cts.....	25	75	..
Boss —New; large size; dark green, slightly ribbed; very showy; flesh highly colored; very rare quality. Per paper, 25 cts.; oz., \$1.00			

MUSTARD.

Sow early in shallow drills.

	PAPER.	OZ.	LB.
White English or London —.....	5	10	50
Brown or Black —.....	5	10	50

NASTURTIUM, or INDIAN CRESS.

The seeds, while young and succulent, are picked and used as capers. The plants are also highly ornamental; the tall variety makes an excellent screen or covering for unsightly places in the garden.

Tall —.....	5	15
Dwarf —.....	5	15

OKRA, or GUMBO (Dwarf White).

Its long pods, when young, are used in soups, stews, etc., and are believed to be very nutritious. Sow at the usual time of all tender vegetables, in drills 2 inches deep, setting the plants from 2 to 3 feet apart. Per paper, 5 cts.; oz. 10 cts.; ¼ lb., 25 cts.

ONION.

The Onion thrives best on very rich, loamy soil. Unlike most vegetables, it flourishes when cultivated on the same land for many successive years. If possible, plow ground in fall. Sow 4 pounds of seed per acre as early in Spring as soil can be worked, which must be thoroughly pulverized and leveled, in drills 15 inches apart; cover one-half inch. Commence hoeing soon as rows can be seen; skim the ground over the surface; avoid stirring deeply, and work the soil away from the bulbs. At second hoeing weed thoroughly and carefully by hand; thin plants to 3 inches in the row. When the tops die, pull and spread evenly over the ground; stir or turn until fully dried, when cut the tops one-half inch from the bulb. To keep onions through Winter, a cool, dry, outside cellar, (those under dwellings being usually too warm,) or barn may be employed, any cool, (not freezing) dry well ventilated room will do. If in a barn, protect on all sides with two feet of good straw. Do not pile them in more than 10 inch layers between the straw. Freezing does not injure if not allowed to thaw and freeze again. To grow sets from seed, sow very early and thick in drills. When tops die down (about middle of July) they are ready to harvest. For the cultivation of onions we know of no tools so useful as Comstock's Horticultural Implements and Planet, Jr., tools. For a description, see back part of Catalogue, or send for special circulars. We take very little stock in any of the new foreign onions. Our seed is grown from bulbs selected for perfect shape and small necks. Price is as low as first class seed can be sold at.

PER PAPER, FIVE CENTS.

	OZ.	¼LB.	LB.
Early Red —Fortnight earlier than Wethersfield, rather small.....	50	\$1.25	\$4.50
Wethersfield Large Red —The staple variety of the Western onion growers, large size, deep red in color; excellent keeper.....	40	1.10	4.00
Yellow Danvers —Mild flavored, early, hardy; good keeper.....	40	1.10	4.00
Large Yellow Dutch or Strasburg —Rather flat, hardy, productive.....	40	1.10	4.00
White Portugal, or Silver Skin —Handsome, mild flavor; poor keeper; extensively grown for pickling.....	40	1.10	4.00
New Queen —Very early, white, small, good keeper.....	50	1.50	5.00
Onion Sets —See Miscellaneous Articles, last part of catalogue.			

ONION--Continued.

	OZ.	¼LB.	LB.
Red Tripoli—.....	50	1.25	...
White Tripoli—.....	50	1.25	...
Marzajoli—.....	50	1.25	...

PARSLEY (Covent Garden).

Sow in March, thinly in drills, one foot apart, half an inch deep. Soak seed a few hours in warm water before sowing, then treat as directed for Carrots. For Winter use, protect in a glass frame or light cellar. Per paper, 5 cts.; oz., 10 cts.; ¼lb., 30 cts.



LONG, SMOOTH
PARSNIP.

PARSNIPS.

Sow early in Spring, in drills 15 inches apart, covering half an inch. Thin to 5 or 6 inches apart in the rows. They are improved by the frost, and it is usual to take up in the Fall a certain quantity for Winter, leaving the rest in the ground until Spring; in this latitude they need no protection if left in the ground.

PER PAPER, FIVE CENTS,	OZ.	¼LB.	LB.
Long Smooth, or Hollow Crown—Best for general use.....	10	25	75
Sutton's Student—A fine flavored variety.....	10	25	75

PEAS.

Peas mature quickest in light, dry soil, not too rich. May be sown as early as the ground can be worked, and for a succession every two weeks up to July, after which there is danger of mildew. Sow in drills 4 to 6 feet apart, according to varieties, 1 inch apart in the drills, not less than 4 inches deep, and late in the season 7 or 8 inches. Occasionally a good late crop can be obtained by sowing an early sort as late as the 20th of August. Wrinkled sorts are marked *. They should be sown thicker in the row than the smooth varieties, as they are more liable to rot. *Twenty-five cents per quart must be added to pay postage when peas are ordered by mail.*

PER PAPER, TEN CENTS, POSTPAID.

EARLIEST VARIETIES.	HEIGHT.	QRT.	PECK.	BUSH.
Carter's First Crop—Very productive; good flavor.....	2½ feet.	30°	\$2.00	\$ 7.00
*Laxton's Alpha—Exquisite flavor, remarkable for its earliness and prolific bearing.....	3 feet.	40	2.75	10.00
Philadelphia Extra Early—Favorite market variety; very early; productive; fine flavor.	2¼ feet.	30	2.00	7.50
Extra Early—Imported from England.....	2½ feet.	40	2.75	10.00
Early Kent—A fine Pea; early and productive.....	2½ feet.	25	1.75	6.00
*McLean's Little Gem—Dwarf, wrinkled; delicious flavor rich and sugary; very early.....	1 foot.	40	2.75	10.00
Tom Thumb—Very dwarf, not exceeding 9 inches.....	9 inches.	40	2.50	9.00
Improved Dan O'Rourke—A popular market variety....	3 feet.	30	1.85	6.50
Kentish Invicta—Earliest blue Pea in cultivation.....	3¼ feet.	30	2.50	9.00
*Premium Gem—Magnificent dwarf; very productive.....	1 foot.	40	2.75	10.00
McLean's Blue Peter—Excellent quality; general habit like Tom Thumb; good yielder.....	9 inches.	40	2.75	10.00

MAIN CROP.

Dwarf White Marrow—Similar in quality to the tall variety; good yielder; much prized by gardeners.....	2 feet.	25	1.75	6.00
*Champion of England—A standard popular variety; delicious flavor; very prolific.....	4 feet.	25	1.75	6.00
White Marrowfat—A favorite market sort.....	4 feet.	20	1.25	4.00
Black Eyed Marrowfat—Hardy and productive.....	4 feet.	20	1.25	4.00
Dwarf Blue Imperial—Large, fine flavored; among the best either for market or private garden.....	2½ feet.	25	1.50	5.50
*McLean's Advancer—A fine wrinkled marrow.....	2½ feet.	35	2.25	8.00
*Yorkshire Hero—Fine marrow; strong growth.....	4 feet.	40	2.75	10.00
Dwarf Sugar—Edible pods.....	2 feet.	50	3.50	13.00

PEPPER.

Grown largely for pickles. Sow in hot-bed in April; transplant to open ground when the weather is favorable, in warm, mellow soil, in rows 18 inches apart. Seeds germinate slowly and require considerable heat.

	PAPER.	OZ.
Large Bell, or Bull Nose—Large; early; rind thick and fleshy.....	5	25
Sweet Mountain, or Mammoth—Large and mild flavor.....	5	25
Red Cayenne—Long, red, tapering; hot for seasoning.....	5	25
Yellow Cayenne—Similar to red except color.....	5	25

POTATOES.

See Miscellaneous Articles, last part of Catalogue.

PUMPKIN.

Plant in hills 8 feet apart in May, among corn or potatoes or in open field.

PER PAPER, FIVE CENTS.

	OZ.	¼LB.	LB.
Large Cheese —The very best for cooking purposes.....	10	25	75
Connecticut Field —Very productive; fine for pies or feeding stock.....	10	20	50
Curshaw —Light cream color; flesh salmon color; resembling the Winter Crook-Neck Squash in shape; somewhat tender.....	10	30	\$1.00

RADISH.

For early use, sow on *thoroughly enriched*, warm soil, protected on the north and west if possible, as early as the ground can be handled. For a succession, at intervals of two weeks until mid-summer. The Winter varieties should be sown about the time of Turnip sowing. Good radishes cannot be raised on poor soil. They require quick growth.



PER PAPER, FIVE CENTS.

	OZ.	¼LB.	LB.
Scarlet, or Red Turnip —First early, round, white flesh.....	10	25	75
White Turnip —Little later than last.....	10	25	75
Scarlet Olive-Shaped —Very early and tender; prized by gardeners.....	10	25	75
White Olive —Different from the other Olive-Shaped only in color.....	10	25	75
French Breakfast —Oval, scarlet, tipped with white; tender, crisp.....	10	25	75
FRENCH BREAKFAST. Early Long Scarlet, Short-Top—Very extensively grown, highly prized by market gardeners.....	10	25	75
Covent Garden Long Scarlet —An improved long scarlet.....	10	30	\$1.00
Long White Naples —Clear white, tinged with green at the top.....	10	30	\$1.00
Golden Globe —Very handsome and excellent Summer radish.....	10	30	1.00
White Summer —Fine Summer variety.....	10	30	1.00
Chinese Rose Winter —Excellent; medium size, firm and tender.....	10	30	1.00
Black Spanish Winter —A standard variety of good quality.....	10	25	75
Mammoth White Winter —An introduction from China.....	15	50	1.50
Wood's Early Frame —In shape between Olive and Long Scarlet—very early; great favorite in England.....	10	30	1.00

RHUBARB, or PIE PLANT (Victoria or Mammoth.)

Succeeds best in deep, rich soil. Sow in Spring in drills, cover 1 inch. Thin plants to 6 inches apart. Transplant in Autumn or Spring to permanent beds, 3 feet apart each way. It is a strong feeder, and will bear manuring heavily. Per paper, 5 cts.; oz., 20 cts.; ¼lb., 60 cts.

SALSIFY or VEGETABLE OYSTER.

A delicious substitute for oysters in soups. Cultivation same as parsnips. Per paper, 5 cts.; oz., 25 cts.; ¼lb., 90 cts.

SPINACH.

Extremely wholesome and palatable. Used for greens. For Summer, sow early in Spring, in deep, rich soil, in drills 1 foot apart, cover 1 inch. Sow at intervals of 2 weeks through the season. For very early Spring use, sow the Winter varieties in August, and protect by covering with straw, etc.

PER PAPER, FIVE CENTS.

Round —Main market sort. Equally good for Spring or Fall.....	10	20	50
Prickly —Stands well in Winter. Gives less bulk per acre than round.....	10	20	50
Flanders —Very productive, large, broad leaves.....	10	20	50
Savoy Leaved —Leaves wrinkled similar to Savoy Cabbage. Produces enormous crops; superior quality; very hardy.....	10	20	50
Viroflay —A very extra variety of lettuce leaved Spinach; leaves long, broad, thick, very fleshy, dark green; grows to an enormous size, and produces wonderful crops.....	10	20	50

SQUASH.

Squashes are all quite tender, therefore no progress can be made in starting them until the weather becomes warm and settled. The Winter varieties should, however, be planted early as possible, and a rapid growth encouraged. Treatment the same as for Melons and Cucumbers. Plant bush varieties 3 feet apart; others, 8.

PER PAPER, FIVE CENTS, EXCEPT WHERE NOTED.

Yellow Bush Scolloped —Early market variety; fine flavor.....	10	25	75
White Bush Scolloped —Similar to first, rather better quality.....	10	25	75
Early Bush Crook-Neck —Best summer sort, early, productive; very fine quality.....	10	25	75
Boston Marrow —Fine for Fall and early Winter.....	10	30	1.00
Hubbard —Flesh, fine grained, dry; excellent flavor, great keeper.....	10	30	1.00
Winter Crook-Neck —Old standard sort; good keeper.....	10	30	1.00
American Turban —Dry, sweet; fine Fall sort.....	10	30	1.00
Marblehead —Excellent; yields and keeps well.....	10	30	1.00

SQUASH—CONTINUED.

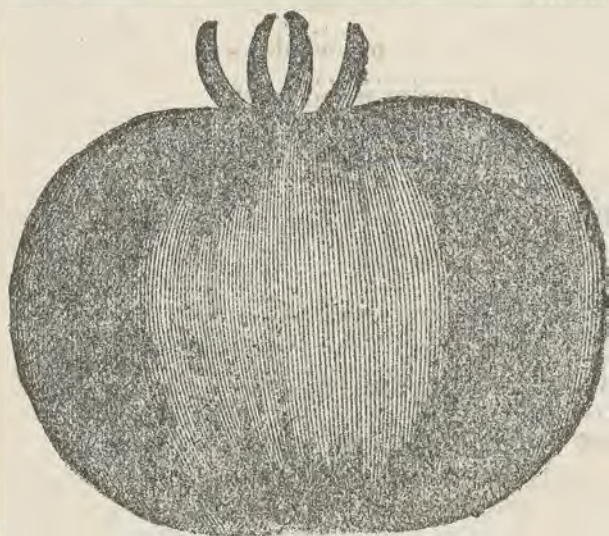
	OZ.	¼LB.	LB.
Butman —Popular Winter Squash.....	10	30	1.00
Mammoth Chili —Immense size, frequently growing to the weight of 800 pounds. Good for stock or cooking.....	25	75	2.50
Little Cocoanut —Beautiful, little new Fall variety of great promise: superior flavor, solid, very fine grained, extremely prolific, quite ornamental. Per paper.....	10	25	75
Essex Hybrid —Cross between the Turban and Hubbard, combining many good qualities of each, somewhat earlier than either. Per paper.....	10	25	75

TOBACCO.

Early in Spring, burn a brush pile on the ground to be used for seed-bed. Then thoroughly pulverize the soil, digging and mixing in the ashes. Sow seed very shallow. When plants are 6 inches high, transplant into rows 4 feet apart. Cultivate thoroughly.

	PAPER.	OZ.
Connecticut Seed Leaf —Standard sort.....	5	25
Imported Havana —.....	5	40
Missouri Broad Leaf —.....	5	30
Orinoco —.....	5	40

TOMATO.



LIVINGSTON'S PERFECTION.

Sow early in Spring in hot-beds or seed-boxes. Transplant to open ground when all danger of frost is past, 4½ feet apart each way. Well manured, light sandy soil is best. Our seed is saved from selected fruit, and is extra choice.

Livingston's Perfection—The acquisition of the season, now offered for the first time; grown by the originator of the celebrated Acme and Paragon, who describes it as being far superior to either of these excellent varieties. He says:—"It is the largest early variety known, being as early as the Canada Victor, and differing from most early sorts in continuing to bear abundantly until frost. It is perfectly smooth; in the entire crop last season there was not a single double or otherwise irregular specimen. It contains but few seeds, and is very solid. Is somewhat larger than Acme, of a glossy blood-red color. Never sun-burns but rather brightens by the effect of the sun. It ripens all over and through at

the same time; is free from rot at the blossom end. Never becomes hollow late in the season. It is a great yielder, and stands shipping exceedingly well. Plants should be set 4 by 7 feet to secure the best crop." In papers only, price 25 cts.

ALL OTHERS, PER PAPER, FIVE CENTS.

	OZ.	¼LB.	LB.
Conqueror —Large size, smooth, vines rather dwarf; very early.....	20	60	\$2.25
Canada Victor —Good size, symmetrical and handsome; fruit heavy, well meated, rich flavor, and very early.....	25	75	2.50
Acme —Too much praise can not be awarded the new esculent. Among the earliest, it possesses all the good qualities desired in a tomato, medium size; very smooth; solid clear through, but few seeds; great bearer; vines stocky; color dark red, tinged with purple; ripens evenly way up to the stem; delicious flavor; stands shipping exceedingly well. Extra selected seed.....	35	\$1.00	3.50
Paragon —Large; bright crimson; medium early; very smooth; great yielder; ripens evenly; few seeds.....	35	1.00	3.50
Trophy —Of comparatively recent introduction. Medium early; large size; well formed; heavy and solid. Great favorite.....	30	1.00	3.00
Golden Trophy —Has all the good qualities of the red variety, from which it is a sport. Golden yellow.....	30	1.00
Golden Rural —A new golden yellow, supposed to be a cross between Golden Trophy and Green Gage. Very early; round; smooth; prolific. Exquisite flavor.....	35	1.00
General Grant —Very regular and symmetrical; firm and solid, fine flavor. Well known.....	20	60	2.00
Hathaway's Excelsior —Early; medium to large; smooth as an apple; excellent quality.....	25	75	2.50
Large Smooth Red —Smooth; handsome; bright red.....	15	50	1.50
Green Gage —Bright orange color; fine flavor; superior quality.....	30	1.00
Red Plum —Good for preserving or Pickling.....	30
Red Currant —Bright Red, growing in long clusters.....	30
Cherry —Small, round red; very prolific; superior for pickles.....	25	75

TURNIP.

For early, sow in April. The Strap-leaved and Early Flat Dutch are the best for this purpose. For main crop, sow during June or July, and just before rain or during a

TURNIP—CONTINUED.

showery time, if possible. Ruta-Bagas should be sown not later than June. The soil should be rich and mellow, and kept free from weeds. Sow in drills 12 inches apart; and half an inch deep. Thin to 6 inches apart in the drills. Ruta-Bagas should be 10 inches apart. Two pounds of seed is sufficient for an acre. To keep turnips through the Winter, top them within one inch of the bulb. Store in cool cellar; cover with dry sand.

	PER PAPER, FIVE CENTS.	OZ.	½LB.	LB.
Early White Six Weeks —Very early and excellent		10	25	75
Early White Egg —Egg shaped; early, rapid growth, fine quality		10	20	60
Purple Top Globe —A new variety, similar to Purple Top Strap Leaved except shape		10	25	75
Cow Horn —New, delicate flavor, rapid growth, pure white, tinged with green at the crown		10	25	75
Strap Leaved Red or Purple Top —The standard for this part of the country; superior for early or late planting. Round, flat, good sized; small top with but few leaves; flesh very fine grained; rich, delicate flavor ..		10	20	60
Early White Flat Dutch —Medium size; grows quick; similar to above except purple top, being all white		10	20	60
Large White Norfolk —A popular variety for feeding		10	20	60
Large White Globe —Fine for field culture		10	20	60
Yellow, or Amber Globe —For field culture ..		10	20	65
Orange Jelly —A beautiful and delicate yellow turnip		10	20	60
Yellow Aberdeen —Excellent for cattle feeding		10	20	65

RUTA-BAGAS.

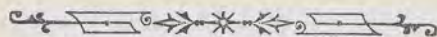
Improved American —Very solid, fine quality; valuable for the table and feeding stock	10	25	75
Skirving's Purple Top —An improved purple-top variety; large	10	25	75
Carter's Improved Hardy Swede —Large size, excellent quality. The best of the imported sorts for feeding stock	10	20	60
Sweet German —Flesh white, solid and sweet; keeps well	10	25	75

HERBS.

No garden is complete without a few sweet, aromatic or medicinal herbs, for flavoring soups, etc., and pains should be taken to harvest them properly. This should be done on a dry day, just before they come into full blossom, then dried quickly and packed closely, entirely excluded from the air. Sow in Spring in shallow drills 1 foot apart, and when up thin out and transplant a few inches apart.

ALL FIVE CENTS PER PAPER.

Anise, Balm, Sweet Basil, Borage, Caraway, Coriander, Dill, Fennel, Horseround, Hyssop, Lavender, Marjoram, Rosemary, Saffron, Summer Savory, Thyme, Wormwood, (Sage. \$2.00 per pound; ¼lb., 75 cts.; oz., 20 cts.)



FLOWER SEEDS.

The soil best adapted for most flowers is a deep, rich, mellow loam, containing a liberal amount of sand or muck, so that it will not bake after hard rains. Be sure that the garden is well drained, that no water may stand near the surface. Clay soils are much improved by being broken up in the autumn and left as rough as possible, working in well rotted manure, sand or road dust. If this is not done in the Fall, be careful not to work it while too wet in the Spring; use sand freely if to be had; sod with leaves well rotted, and ashes makes a good manure, and will improve heavy soils. There are very few flowers that will not do well in sandy soil if it is *rich*. Select such varieties as are suited for the places and purposes for which they are designed.

Under proper conditions and treatment, flower seeds will grow and thrive as readily as vegetable or field seeds. But most of them require careful handling, this is especially true of the finer sorts.

A proper degree of moisture, heat, and a sufficient amount of covering, are necessary to secure germination, each one of these conditions needs attention. The best plan is, if no hot bed can be had, to sow seeds in shallow boxes about two inches deep and of convenient size to handle, filled with prepared soil, which should be gently pressed down and perfectly level. No better general rule can be given than the old one of covering seeds about twice their depth, although something depends on what the covering consists of; one-fourth of an inch of leaf mould would be no more than equivalent to half that amount of common soil, and it is best to use it whenever it can be obtained, as it holds moisture well and does not bake, rendering it the least possible obstruction to the tender shoots. Muck from swamps, or old rotted manure mixed with a little sand, is also good. The covering should never be allowed to become dry, as nothing is more fatal to seeds than to allow them to dry after having commenced to germinate; still care should be used not to keep them too wet.

As soon as the plants can be handled, they should be transplanted into similar boxes from one to two inches apart, where they are to remain until time to transplant to permanent beds. Never pull, but always lift them with a trowel or some other implement. Whether sown in hot beds, boxes or open ground, the same conditions should be secured as nearly as possible.

ALL FLOWER SEEDS ARE SENT POST PAID, BY MAIL, ON RECEIPT OF PRICE.

ANNUALS.

And such others as Produce Flowers the First Season.

	PAPER.		PAPER.
Abronia-Umbellata. Rose lilac, white cts. eye, handsome trailer.....	5	Candytuft—White	5
Adonis-Flosadonis. Summer, scarlet 1ft.	5	Purple.....	5
Ageratum-Mexicanum. Blue.....	5	Dark Crimson (Dunnett's).....	5
Agrostemma-Rose of Heaven	5	New Hybrid—Very fine.....	25
Alonzoa-Grandiflora. White.....	5	All Colors Mixed.....	5
Alyssum-Sweet. Fragrant annual.....	5	Callirhoe —Abundant bloomer.....	5
Amaranthus—Love lies bleeding	5	Catananche —Somewhat resembles the pink.....	5
Cruentus, Princess Feather.....	5	Canna —(Shot plant) fine mixed.....	5
Tricolor, Josephs Coat, old favorite....	5	Celosia —There are two beautiful forms of Celosia—the coxcomb and the feathery.	
Anagallis —Fine mixed varieties.....	5	New Japan Coxcomb.....	10
Antirrhinum—Snapdragon. New dwarf beautiful mixed colors.....	5	Cristata—Mixed.....	5
Brilliant.....	5	Celosia Superba Plumosa—New and beautiful, feathery.....	10
White.....	5	Mixed Varieties—Very pretty.....	5
Best varieties mixed.....	5	Centaurea —Cyanus (Bachelor's Button)	5
Argemone —Mixed varieties, 2 feet.....	5	Gymnocarpa—Silver grey foliage.....	10
Asperula —Sweet scented.....	5	Moschata (Sweet Sultan).....	5
Aster —New Rose—Flowers large; very double; brilliant, beautiful; robust habit; 2 feet.....	10	Centranthus —Mixed.....	5
Truffant's—Pæony—Flowered Perfection—Large, beautiful flowers, mixed colors; 18 inches.....	10	Collinsia —Pretty; free blooming annuals; many colors.....	5
Imbrique Pompon—Very desirable.....	10	Cleome —Curious flowers.....	5
Reid's Improved Quilled—Single petals consist simply of quills; blooms freely and beautifully; many colors; 18 inches.....	10	Crepis —Mixed colors.....	5
German Quilled—Very double; oval form; many colors, mixed.....	5	Convolvulus Minor —(Dwarf Morning Glory) Mixed colors.....	5
Best Varieties—Mixed.....	10	Clarkia Elegans —Mixed colors.....	5
Good Varieties—Mixed.....	5	Dahlia —Will usually flower first season. Take up roots on appearance of frost and store in cellar in dry sand. Best double mixed.....	15
Pyramidal—Extra fine mixed.....	10	Double Daisy —Finest double.....	15
Pyramidal Bouquet—Half dwarf; very fine mixed colors.....	10	Datura —Strong growing plant; trumpet shaped flowers. Mixed.....	5
Balsams —Camelia Flowered, or Blotched—Many colors, mixed; very double; 2 feet.....	10	Dianthus —Pink.....	5
Camelia Flowered—Separate colors, fine rose, pink, solferino, scarlet white spots, purple white spots, pure white; each.....	10	Laciniatus—Magnificent flowers.....	10
Double Mixed—Common.....	5	Chinensis—Best double; mixed colors..	5
Bartonia —Aurea—Very showy; flowers brilliant yellow.....	5	Heddwigii—Often double; best mixed..	5
Belvidere —Fine for cemeteries.....	5	All Varieties Mixed—A fine collection..	5
Brachycome —(Swan River Daisy).....	5	Didiscus —Sky blue flowers.....	5
Browallia —Mixed colors.....	5	Eschscholtzia —Blooms well; four colors; mixed.....	5
Cacalia —Coccinea, (Tassel Flower), flowering in clusters, very pretty.....	5	Eutoca —Dark blue; very pretty.....	5
Calendula —Nankeen color.....	5	Euphorbia —(Snow on the Mountain)...	5
Calandrinia —Grandiflora—Mixed colors; flowers from July to October.....	5	Four O'clock —Mirabilis Jalapa—Bright foliage; handsome fragrant flowers, 2 feet.....	5
Calliopsis —Mixed colors.....	5	Hybrid Mixed.....	5
Campanula —(Canterbury bell).....	5	Forget-Me-Not —(Myosotis)—Delicate blue flowers.....	10
Grandiflora.....	5	Fox Glove —Digitalis—Fine for borders	5
Speculum—Mixed.....	5	Gaillardia —(Blanket Flower) Constant bloomer; mixed colors.....	5
		Gilia —Delicate little flowers. Mixed varieties.....	5
		Godetia —Constant bloomer.....	5

	PAPER.		PAPER.
Gypsophila —Well adapted for hanging baskets, also pretty dried; rose and white; each.....	5	Grandiflora —White.....	10
Hibiscus —Very showy; cream-colored flowers.....	5	Grandiflora —Mixed colors.....	10
Ice Plant —Very pretty and curious....	5	Mixed Varieties —Many beautiful colors	10
Jacoea —Very brilliant, double mixed.	5	Pure White —Purple eye.....	10
Larkspur —Free blooming; very rich in color. Finest Mixed.....	5	Deep Carmine —Very striking.	10
Linum —Pretty for rock work.....	5	Poppy —Beautiful for beds or borders—	
Lobelia —Erenis—Suitable for hanging baskets or borders; delicate flowers. Mixed colors.....	5	Carnation —Finest Mixed double, large flowers, many colors.....	5
Lupinus —Leaves and flowers both beautiful; flowers pea shaped. Mixed.....	5	Portulaca —One of the best beddings annuals; very showy.	
Lychnis —Large flowers, many colors... 10		Single Large Flowering —Mixed colors.	5
Marigold —Well known plants. African Best double mixed colors.....	5	Very Large Rose	5
Mignonette —The long known Frenchman's darling. Very desirable and fragrant.....	5	Very Large—Striped	5
Parson's New White	5	Many Single Varieties —Mixed.....	5
Miles' New Hybrid Spiral —Habit, dwarf and branching, spikes frequently attaining a length of 14 inches; very fragrant.....	5	Double Rose Flowered —Very double and brilliant; many colors.....	10
Mimulus —Moschatus, Musk Plant—Strongly scented.....	10	Ricinus —Very ornamental; 5 to 12 feet high.	
Cupreus Hybridus —Very fine mixed... 10		Giganteus —Enormous size.....	5
Nemophila —Very charming and useful; neat compact habit. Mixed varieties.....	5	Gibsonii —New; dark purple stems, deep red leaves.....	5
Nigella —Love in a Mist.....	5	New Rural Bronze —Cross between Gibsonii and Sanguineus, of great beauty, rich violet bronze.....	10
Nolana —Grandiflora—Pretty trailers... 5		Rocket —(Sweet). Free flowering; very fragrant.....	5
Oenothera —Evening Primrose.....	5	Salpiglossis —Variabilis—Picturesque; all colors mixed.....	5
Pansy —A general favorite the world over. Our seed is saved with the greatest care, and can not be excelled for purity.		Salvia —Very ornamental; rich scarlet.. 10	
Light blue	10	Saponaria —Unsurpass'd for borders and ribbons; constant bloomers, mixed colors.....	5
Bronze colored	10	Solanum —Very ornamental.....	10
Pure white	10	Sanvitalia —Procumbens Fl.-Pl.; dwarf compact, suitable for beds.....	5
Pure yellow	10	Scabiosa —(Mourning bride.) A general favorite. Finest colors mixed.....	5
Dark purple	10	Schizanthus —Elegant, slender, branching annuals. Finest mixed.....	5
Odier or five blotched	25	Sedum —Pretty for rock work.....	5
Emperor William	15	Sensitive Plant —Very curious.....	5
King of the Blacks	15	Silene —(Catchfly).....	5
Very Choice Mixed —From prize German collections, containing the finest strains from the largest and most perfect flowers.....	50	Stevia —Fine for bouquets.....	5
Choice English —Extra mixed seed from prize flowers.....	20	Stocks —(German ten weeks). A large proportion of the flowers quite double; continue a long time in bloom; very desirable.	
Fine Mixed	10	Dwarf German —Best mixed seed.....	10
Good Mixed	5	Dwarf Wall-Flower-Leaved . Finest mixed; one of the best.....	10
First 8 Varieties	75	Large Flowered —Finest mixed.....	10
First 9 Varieties	1.00	Finest Varieties Mixed	10
Perilla Nankinensis —Leaves ornamental; handsome for border.....	5	Good Mixed	5
Petunia —From seed sown in Spring, plants will bloom in June.		Sunflower —Mammoth Russian—Very large.....	5
Grandiflora —Very finely blotched.... 20		Common —By mail, 50 cts. per lb.....	5
Countess of Ellesmere	5	Verbena —Universally popular bedding plants. Some of the most beautiful and fragrant are seedlings. The colors are very distinct and striking and includes everything but yellow. Seed sown in the open ground in May will bloom in August, but by starting early in boxes or hot-beds, they will bloom in June or July.	
Nana Multiflora —(New dwarf Inimitable.) Dwarf; densely branching; profuse bloomer; greatly admired.... 25		Pure White	10
Finest Double —Mixed colors.....	25	Brilliant Red	10
Choice Single —Mixed colors.....	5	Italian Striped	10
Phlox Drummondii —One of the very best annuals; blooms very freely till frost.		Very Choicest Mixed —From named flowers.....	25
Chamoise Rose —Very delicate; fine.... 10		Fine Mixed	10
Brilliant Scarlet	10	Virginia Stocks —Similar to candytuft	5
Dark Purple	10	Whitlavia —Large flowered; handsome bell-shaped flowers.....	5
Pure White	10	Zinnia —Very showy garden annual; many brilliant colors.	
Princess Royal —Light purple, white stripes.....	10	Double Orange	5
William I. —Scarlet; white stripes..... 10		Double White	5
		Double Mixed —Very best.....	5

ORNAMENTAL CLIMBERS.

There is no other class of plants more subject to complete control than the climbers. They are Nature's drapery, and are inclined to furnish us with decorations of exquisite beauty and rare grace.

From the most delicate to the very vigorous growing varieties, all are desirable, and have many places to fill, from the covering of the low screens, trailing from pots and baskets to the clothing of arbors, fences, and even buildings and huge trees with habiliments of verdure.

Adlumina —Cirrhosa—(Mountain Fringe, or Alleghany Vine), graceful, pretty foliage, clusters, pink flowers.....	5	Hedysarum —Humile—From Algiers... 10	
Calampelis —Delicate foliage, bright orange flowers, good bloomer.....	10	Ipomœa —Bona Nox--(Good Night or Evening Glory).....	5
Cardiospermum —(Baloon Vine or Love in a Puff). Curious.....	5	Best Mixed Varieties.....	5
Cobœa Scandens —One of the most beautiful, branches freely and frequently grows 25 to 30 feet.....	10	Star Ipomœa.....	5
Convolvulus Major —Well known morning glory. All best colors mixed	5	Lophospermum —Scandens, Handsome evergreen climber, purplish flowers. Sow early in hot bed, transplant to open ground in May. Roots may be kept over winter in dry sand.....	10
Cypress Vine —Idomœa Quamoclit—Very graceful and beautiful foliage; pretty flowers; mixed colors.....	5	Maurandya —Grows 6 feet; abundant foliage; good sized flowers.	
Scarlet	5	Finest Mixed.....	10
White.....	5	Nasturtium —Lobbianum—Well adapted for green-house or conservatory; brilliant colors.....	10
Dolichos —Lablab—(Hyacinth Bean). White dwarf.....	5	Sweet Peas —Lathyrus Odoratus—Universal favorites.	
Gourds and Cucumbers —These are very numerous and dissimilar. They are vigorous growing and very desirable for arbors, fences, &c., &c. My mixed collection contains at least 40 varieties, a large number of which will be found in each paper.		Scarlet—Oz. 15 cents.....	5
Calabash or Dipper Gourd.....	10	White—Oz. 15 cents.....	5
Egg Shaped.....	10	Mixed—Oz. 10 cents.....	5
Pear Shaped—Striped.....	10	Thunbergia —Fine for baskets.....	5
Mixed Varieties.....	5	Tropæolum —Peregrinum—Canary flower; beautiful variety, frequently growing 20 feet, profuse bloomer, flowers much resembling the little yellow canary, from whence its name	10

EVERLASTINGS.

The everlastings are not very attractive in mid summer, when our gardens are gay with Flora's very choicest treasures.

But after King Winter takes possession, and spreads his carpet of snow over "God's foot stool," and we are wondering where Summer has gone, and dreaming of the beautiful flowers that were so much loved, and such agreeable companions for mother and sisters, the Everlastings are welcome inmates of our homes. It is then that they are arranged into winter bouquets and various ornamental designs for the parlor, dining room or chamber.

They are becoming justly popular in all parts of the civilized world.

For mottoes, monograms and emblems of many designs, the Everlastings are utilized. When Robert comes home; you are arranging for Minnie's wedding, and a thousand other joyful occasions, not forgetting Christmas—that day of all days—we are prone to add cheer and strengthen loves chains, by appropriately decorating our homes and churches.

Flowers should be gathered just before fully expanded, tied into small bunches and hung up to dry. Gomphrenas must be fully developed before picking.

The Everlastings readily thrive with kind treatment.

	PAPER. CTS.		PAPER.
Acroclinium —		for Winter bouquets and ornamental work.	
Rose—	5	Red—	5
White—	5	Yellow—	5
Mixed Colors—	5	White—	5
Ammobium —Alatum—White.....	5	Mixed—	5
Gomphrena —Globe Amaranth—These are extra fine, and the colors will be found distinct and striking.		Helipterum —Sanfordi—Rich yellow colored flowers.....	10
Flesh color.....	5	Rodanthe —Handsome	10
Variegated—	5	Statice —Mixed colors	5
Purplish Red—	5	Waitzia —Beautiful yellow.....	20
White—	5	Xeranthemum —	
Mixed Colors—	5	White—	5
Helichrysum —Very full double flowers, extremely useful and handsome		Mixed—	5

ORNAMENTAL GRASSES.

These are used with Everlasting flowers for decorative purposes, winter bouquets, wreaths, &c., &c. There are many curious and pretty varieties of the grasses, which are easily cultivated.

They should be cut just as they are coming into flower, and dried in small bunches.

They are frequently dyed bright and showey colors.

In France this is quite an extensive business, and large quantities are annually exported to this country.

	PAPER.		PAPER.
Agrostis —Very elegant; fine and feathery	5	Gynerium —Argenteum—(Pampas Grass.) The most stately of all, attaining, in its home, the height of 12 to 15 feet. It is too tender for the Winters of this latitude, but can be protected and made to bloom the second season. The plumes are from 20 to 36 inches long; when bleached, of a beautiful silvery white, being highly ornamental	5
Avena —Sterilis—Animated Oats	5	Hordeum —Jubatum—(Squirrel tail grass).....	5
Andropogon —Very fine; mixed.....	25	Lagurus —Ovatus—(Hare's tail grass)...	
Briza —Compacta—.....	5	Stipa —Pennata—(Feather grass). Very fine and graceful; large feathery panicles of flowers.....	10
Maxima—Large Quaking Grass.....	5	A Mixture —Of many of the best ornamental grasses suitable for bouquets. 5	5
Gracillis—.....	5		
Bromus —Brizæ formis—Very graceful and showy	5		
Maximus—.....	5		
Chloris —Barbata—.....	5		
Coix —Exaltata—(Job's tears).....	5		
Erianthus —Revennæ—Resembling Pampas grass, but being quite hardy is adapted to a cooler climate.....	10		

BIENNIALS AND PERENNIALS.

Those that do not bloom before the second season, are arranged in this department.

	PAPER.		PAPER.
Aconitium —(Monks Hood).....	10	Lathyrus —(Everlasting Peas). Mixed varieties.....	10
Beet —Chilian scarlet.....	10	Pyrethrum —Common double, Feverfew.....	10
Chrysanthemum —Garden-Artemisias Indicum—Double.....	5	Penstemon —Grandiflora—Splendid border plants.....	10
Mixed.....	5	Phlox —Purple.....	10
Carnation Pink —German Seed—From choicest named flowers.....	25	White.....	10
Extra Italian Seed—From very choicest prize flowers.....	50	Mixed.....	10
Fine Mixed—For borders.....	10	Picotee Pink —Similar to the Carnation; beautifully colored.	
Good Mixed—.....	5	German Seed—From choicest named flowers.....	25
Columbine —Aquilegia—Well known and highly prized.		Extra Italian Seed—From finest prize flowers.....	50
Mixed Varieties—.....	5	Fine Mixed.....	10
Delphinium —Formosum—Rich blue and white.....	5	Sweet William —Perfectly hardy, beautiful. Mixed colors.....	5
Honesty —Very hardy; beautiful purple	5	Sweet Violet —Viola Odorata.....	10
Hollyhocks —Very fine double mixed, from Germany.....	10	Wall Flower —	
Ipomopsis —Splendid for conservatory or out-doors.		Finest Double—Mixed colors.....	15
Mixed Varieties—.....	5	Fine Mixed—Single.....	5
Larkspur —Delphinium—Best new varieties mixed.....	5		

SEEDS FOR THE GREENHOUSE.

For Florists and Amateurs. Imported from the best European sources.

Abutilon —Choicest varieties mixed....	20	Cuphea —Cigar plant.....	10
Begonia —Victoria.....	15	Cyclamen —Persicum—Sweet scented..	20
Boston Smilax —Unexcelled for decorative purposes.....	20	Fuchsia —Hybrida—Best new sorts mixed	25
Calceolaria —Hybrida—New; striped or spotted, extra.....	50	Geranium —Newest varieties mixed....	50
Carnation —Remontant or Tree Carnation—Choice Italian.....	50	Gloxinia —Hybrida—Splended mixed...	35
Cineraria —Hybrida—Best	20	Heliotrope —Best mixed.....	10
Maritima—The beautiful white foliaged bedding or border plant.....	5	Lantana —Hybrida—Best mixed.....	10
Chrysanthemum —		Passion Flower —.....	10
Indicum—Best double.....	20	Primula —Sinensis—Very best double mixed.....	50
Pompon or Dwarf.....	20	Fine mixed—.....	25
Cilanthus —Dampieri—(Scarce).....	25	Vinca —From East India. Succeeds out of doors in warm sheltered places.	
Coleus —From finest German collections.		Mixed.....	10
Mixed.....	20		

COLLECTIONS OF FLOWER SEEDS, BY MAIL, POSTPAID.

To assist those who are somewhat unacquainted with the various kinds and classes of flowers, in making selections, we have arranged the following collections of flower seeds which contain the most popular and desirable sorts. Being our own selection they will invariably be found satisfactory in quality and exceedingly liberal in quantity. They are put up ready for mailing and can not be divided or changed, but will be sent to any address, postpaid, on receipt of price.

COLLECTION A	contains 25 varieties splendid annuals.....	\$1.00
COLLECTION B	contains 12 varieties splendid annuals.....	50
COLLECTION C	contains 12 varieties extra choice annuals.....	1.00
COLLECTION D	contains 20 varieties biennials and perennials.....	1.00
COLLECTION E	contains 10 varieties extra choice biennials and perennials.....	1.00
COLLECTION F	contains 5 varieties very choicest annuals, biennials, and perennials, including the finest German prize pansy.....	1.00
COLLECTION G	contains 25 varieties assorted from the most popular annuals, biennials, perennials, ornamental climbers, ornamental grasses and everlastings.....	1.00
COLLECTION H	contains 50 varieties assorted from the most popular annuals, biennials, perennials, ornamental climbers, ornamental grasses and everlastings.....	1.75
COLLECTION I	contains 100 varieties assorted from the most popular annuals, biennials, perennials, ornamental climbers, ornamental grasses and everlastings.....	3.00
COLLECTION J	contains 10 varieties choice green-house seeds.....	2.00

Those preferring to make their own selection from the general list, and for the benefit of all who are enough interested in the growing of flowers to assist in encouraging the taste for flower gardens among their neighbors, by getting up clubs for seeds, the following liberal discount is offered.

Persons remitting \$ 1.00	may select seeds by the paper at catalogue prices am'ting to.	\$1.20
" 2.00	" " " " " "	2.50
" 3.00	" " " " " "	3.75
" 4.00	" " " " " "	5.00
" 5.00	" " " " " "	6.50
" 10.00	" " " " " "	14.00
" 20.00	" " " " " "	30.00
" 30.00	" " " " " "	45.00
" 50.00	" " " " " "	100.00

FRUIT TREES, GRAPE VINES, SMALL FRUITS, ETC.

BY MAIL.

Each season I have many calls and enquiries for small fruits, &c., &c., and am now happy to announce that perfect arrangements have been made with one of the most extensive, and in every way perfectly reliable nurseries in America, to supply anything from the following very excellent list of out-door fruits and plants, which are to be sent by mail at any address, *postage paid*, and

SAFE ARRIVAL GUARANTEED.—If not received in good condition, notice should be immediately returned to us naming the number and kinds dead, so that there may be no delay in our replacing them.

ORDERS IN THIS DEPARTMENT MUST AMOUNT TO ONE DOLLAR.—We cannot afford to give our attention to orders of less amount, unless in addition to the amount for plant or plants wanted ten cents is sent. The office work on a small order is the same as on a larger one, and it also requires nearly as much material and time to pack it, and takes almost as much postage, as an order of double or triple the size.

PACKING AND PACKAGES FREE.—At prices in this list we make no charge for packing or for material used in packing, such as baskets, boxes, &c.

RARE EVERGREENS, GRAPE VINES, &c.—Persons desiring to stock up in Grape Vines, Small Fruits, Evergreens, Seedlings, &c., will find it far the cheapest to order direct of us; by so doing they can secure a supply at half the cost that traveling dealers can afford to supply at.

THE BEST TIME for forwarding plants is from the first of October to the first of June. They are less liable to suffer from frost than from extreme heat.

MAIL CLUBBING RATES.—Postage pre-paid:

Persons sending \$2.00 may select articles valued at \$2.20	
" " 4.00 " " " " " "	4.50
" " 6.00 " " " " " "	7.00
" " 8.00 " " " " " "	9.50
" " 10.00 " " " " " "	12.00
" " 15.00 " " " " " "	18.50
" " 20.00 " " " " " "	25.00

And for all amounts remitted above \$20, twenty-five per cent may be added to order, Purchaser's choice from Catalogue or dollar collections.

EXPRESS CLUBBING RATES.—Transportation changes paid by the purchaser

Persons sending \$2.00 may select articles valued at \$2.40	
" " 4.00 " " " " " "	5.00
" " 6.00 " " " " " "	8.00
" " 8.00 " " " " " "	11.00
" " 10.00 " " " " " "	14.00
" " 15.00 " " " " " "	22.00
" " 20.00 " " " " " "	30.00

And for all amounts remitted above \$20, fifty per cent may be added to order. Purchaser's choice from Catalogue or dollar collections.

Individual orders for any of the preceding amounts, will be entitled to the same premium as Club Orders.

DOLLAR COLLECTIONS

of trees and plants of suitable size to be sent by mail, postage paid by us.

Our selection of sorts all labled. Persons wishing their choice of sorts will please order at the single rates which accompany the descriptions.

- Set 41—8 Apple trees, 4 sorts for \$1.00.
 " 42—4 Pear trees, 4 sorts for \$1.00.
 " 43—4 Cherry trees, 4 sorts for \$1.00.
 " 44—2 Pear, 2 sorts, 2 Quince, 2 sorts, \$1.00.
 " 45—8 Peach trees, 4 sorts, \$1.00.
 " 46—2 Pear, 2 Peach, 2 Apple, \$1.00.
 " 47 2 Apple, 1 Pear, 1 Cherry, 1 Quince, 1 Peach, \$1.00.
 " 48 8 Grape Vines, 2 each of Concord, Hartford, Ives and Rogers' Hybrids, for \$1.00.
 " 49—10 Grape Vines, 5 sorts entirely our choice, \$1.00.
 " 50—20 Raspberries, 4 each of Mammoth Cluster, Doolittle's Improved, Miami, Philadelphia and Turner, \$1.00.
 " 51—25 Raspberries, 5 sorts our choice exclusively, \$1.00.
 " 52 —8 Currants 2 Cherry, 3 La Versailles and 3 White Grape, \$1.00.
 " 53—50 Strawberry Plants, 10 Monarch of the West, 10 Crescent Seedlings, 20 Wilson's Albany, and 10 Chas. Downing, \$1.00.
 " 54—75 Strawberry Plants, 3 sorts exclusively our choice, \$1.00.
 " 55—40 Sharpless Strawberry Plants, fruit immensely large, for \$1.00.
 " 56—2 Grapes, 2 Currants, 4 Raspberry and 20 Strawberry Plants for \$1.00.
 " 57—5 Sweet Chestnut, 2 Spanish Chestnut, 2 Butternut, 1 Black Walnut, and 1 Madeira Nut for \$1.00.
 " 58—100 Catalpa Speciosa; perfectly hardy, rapid grower, very durable timber, \$1.00.
 " 59—40 Sweet Chestnut trees for \$1.00.
 " 60—10 Norway Spruce, 3 to 4 inches, 1 American Arbor Vitæ, 1 Pyramidal Arbor Vitæ, 1 Irish Juniper, 1 Scotch Pine, 1 Tree Box, 1 Retinospora \$1.00.

We have frequent letters of inquiry, similar to the following: "In your set of 10 Grape Vines for a dollar, please let me know what sorts you send, and in your sets of 75 Strawberries for a dollar, what sorts do you send; also, in your set of 25 Raspberry Plants for \$1.00, what varieties do you send?" In reply to all such inquiries, permit us to say, that we are only enabled to offer so large a number for a dollar by retaining the privilege of selecting the varieties when we fill the order, and this excludes the possibility of naming in advance of filling the orders, what varieties will be used. But all sets will be filled with good sorts. In sets where the varieties are named, those of course will always be sent.

PRICE LIST

OF ARTICLES THAT CAN BE SENT TO ANY PART OF THE UNITED STATES BY MAIL.

APPLES--Standard.

Plant 30 feet apart each way; 48 trees to the acre. One year grafts, 1 to 1½ feet high; price, 15 cents each; 8 for \$1.00.

LEADING VARIETIES.

SUMMER.	
Benoni,	Golden Sweet,
Early Harvest,	Holland Pippin,
Early Strawberry,	Keswick Codlin,
Concord,	Red Astrachan,
	Sweet Bough.

AUTUMN.	
Autumn Swaar,	Fall Jenneeting,
Autumn Strawberry,	Fall Pippin,
Buckingham,	Gravenstein,
Colvert,	Lowell,
Cayuga Red Streak,	Munson Sweet,
Maiden's Blush,	Pumpkin Russet,
Sherwood's Favorite,	St. Lawrence,
Trumbull Sweet.	

WINTER.	
Ben Davis,	Golden Russet,
Bailey's Sweet,	H. Nonsuch,

WINTER—CONTINUED.

Belmont,	King (of Tomp. Co.),
Baldwin,	Limber Twig,
Bellflower Yellow,	Large Striped Pear-
Dominie,	main,
Danver's Winter	Lady Apple,
Sweet,	Monmouth Pippin,
Dutch Mignonne,	Milam,
Fallawater,	Northern Spy,
Fameuse,	Peck's Pleasant,
Flora Bellflower,	Paradise Sweet,
Grimes' Golden,	Rome Beauty,
Green Sweeting,	Russet Roxbury,
R. I. Greening,	Rawles' Janet,
Rambo,	Reinette Canada,
Ribston Pippin,	Smokehouse,
Seek-no-further,	Stark,
Talman Sweet,	Vandevere,
White Pippin,	Wagner,
Wine Sap.	

RUSSIAN APPLES AND OTHERS OF SPECIAL MERIT.

One year grafts, 1 to 1½ feet high, 20 cents each; 6 for \$1.00.

ALEXANDER—A large, beautiful red Apple. September.

BOTTLE GREENING—Fruit medium; greenish yellow, shaded with dull crimson; sub-acid, almost melting. January and February.

CORRIS' FAVORITE—A medium sized, dessert apple of deep red color and good quality; very productive; always fair and uniform in size; everywhere desirable.

DUCHESS OF OLDENBURG—Large, striped yellow and red. Popular everywhere. September.

DUTCH BUTTER—A beautiful, even sized, sweet, red apple, admirably adapted for apple butter. December to March.

HAAS—Large size; splashed and mottled light red; juicy acid, rich, extremely hardy. November to March.

LAWVER—Large, dark bright red. Flesh white, crisp, sprightly, aromatic, sub-acid, January to May.

MCINTOSH RED—A new, hardy variety, of Canadian origin. Fruit medium, dark red; very handsome, fine grained, juicy, tender and mild. January.

MANN—A good sized apple of the Greening type, keeping until June or July.

PEWAUKEE—Medium size; bright yellow, splashed and striped dull red; sub-acid with a rich aromatic flavor; perfectly hardy. December to March.

RED CANADA—This is the old Richfield Non-such. A handsome red winter apple, but difficult to propagate. December to February.

SARASOTA CIDER—Very desirable; medium, striped, productive. November to March.

SEEDLESS—Medium sized; greenish yellow, with dark carmine cheek in sun. It is entirely seedless, and quite a novelty. November and December.

SHIAWASSEE BEAUTY—Fruit medium, white marbled, splashed and striped with red. Flesh firm, very white, tender, juicy, brisk, refreshing, sub-acid. October to January.

TETOFISKY—An early Russian apple, ripening in July and August; bears extremely early. Fruit handsome, medium to large; yellow, striped with red; juicy, pleasant acid, aromatic.

WEALTHY—A native of Minnesota; perfectly hardy; fruit large, red, sub-acid. December to February.

WALBRIDGE—Medium size; handsome; striped red; one of the hardiest. March to June.

HYDE'S KING OF THE WEST.

One year trees suitable for mailing, 40 cents each; 3 for \$1.00. Large to very large; handsome, yellowish green; good quality, a remarkable keeper. Apples of crops of 1878 and 1879 were exhibited side by side at the winter meeting of the Ohio State Horticultural Society, held at Canton in December of 1879, and attracted great attention. Time of keeping all the year round.

APPLES--Crab.

Plant 20 feet apart each way, 108 trees to the acre. Price of trees 1 to 1½ feet high, 20 cents each; 6 for \$1.00.

Aucubifolia.	Hyslop.
Briar's Sweet.	Montreal Beauty.
Chicago.	Marengo.
Golden Beauty.	Powers' Large Red.
Transcendent.	Van Wyck's Sweet.
Whitney's No. 20.	Yellow Siberian.

PEARS--Standard.

Plant 20 feet apart each way, 108 trees to the acre. One year old buds cut back to about one foot for convenience in mailing. Price, each 30 cents; 4 for \$1.00.

LEADING VARIETIES.

SUMMER.

Bartlett.	Brandywine.
Madelaine.	Osband's Summer.
Dearborn's Seeding.	Tyson and Clapp's Favorite.

AUTUMN.

Buffam.	Beurre d'Anjou.
Belle Lucrative.	Duchesse d'Angoulême.
Howell.	Louise Bonne de Jersey.
Swan's Orange.	Sheldon.
Beurre Clairgeau.	Flemish Beauty.
Seckel.	Steven's Genesee.

WINTER.

Beurre Easter.	Lawrence.
Vicar of Winkfield.	Columbia.
	Mt. Vernon.

PEARS--NEW.

Price, 50 cents each, except when noted.

BEURRE DE L'ASSUMPTION—Fruit large and melting, ripening early in August.

BROCKWORTH PARK—A new English variety; large pale yellow, flushed and streaked with red on the sunny side; flesh white, buttery, melting; very juicy, vinous and rich. September.

DUCHESS DE BORDEAUX—Medium to large; sweet and pleasant. December to February.

FREDERICK CLAPP—Above medium size; clear lemon yellow; fine grained, juicy, melting, sprightly, rich and aromatic; very good to best. Season, October 15th to November 1st. Price, \$1.00 each.

SOUVENIR DU CONGRESS—A seedling of the Bartlett, ripening before it, and larger. The fruit is very fine and of immense size, but unfortunately the tree blights badly.

GOODALE—Fruit large, light yellow with a blush in the sun; juicy, melting, vinous. October.

PEARS--DWARF.

Leading sorts one year buds, 1 to 1½ feet, 30 cents each; 4 for \$1.00.

HEARTS AND BIGARREAU.

Plant Hearts and Bigarreaux 20 feet apart each way; 108 trees to the acre.

CHERRIES—CONTINUED.

Plant Dukes and Morellos 10 to 12 feet apart; 363 trees to the acre.

One year from bud, cut back for convenience in mailing to about one foot. Price, 80 cents each; 4 for \$1.00

LEADING SORTS.

Black Eagle.	Black Tartarian.
Early Purple Guigne.	Elton.
Napoleon.	Ohio Beauty.
Belle Magnifique.	Carnation.
May Duke.	English Morello.
Yellow Spanish.	Gov. Wood.
Early Richmond.	Reine Hortense.

NEW CHERRIES.

EMPRESS EUGENIE—A new variety from France of great excellence; a profuse bearer. Price, 50 cents.

MONTMORENCY ORDINAIRE—A sort of quite recent introduction of the Early Richmond class, but larger and later, and a prodigious bearer. A variety of great value. 50 cents each.

JUELLING—A new seedling from Oregon, supposed to be a cross between Napoleon Bigarreau and Black Tartarian, having the firm flesh of the former and the color of the latter; claimed to be the largest cherry known. Specimens measuring three and a half inches in circumference. 50 cents.

OLIVET—Large, globular; a shiny deep red sort, tender, rich and vinous; one of the largest of its class. 50 cents.

LOUIS PHILIPPE—Large; dark red, almost black; tender, sprightly, mild acid; stone small; tree vigorous and very productive; ripens middle to last of July. 50 cents.

PLUMS.

Plant 16 by 18 feet apart each way. One year buds cut back for convenience in mailing, 50 cents each.

LEADING SORTS.

Coe's Golden Drop.	Italian Prune.
Dennison's Red.	Jefferson.
German Prune.	Lombard.
General Hand.	Magnum Bonum Yellow.
Imperial Gage.	Pond's Seedling.
Princes Imperial Gage.	Reagle's Union Purple.
Reine Claude.	Shropshire Damson.
	Smith's Orleans.

Improved varieties of American Plums on Peach Stocks. Price 50 cents each.

DE CRADEUC—Medium, round, slightly flattened; skin yellow, nearly covered with red; flesh melting, sweet and vinous. End of June and first of July.

NEWMAN—Medium oblong; skin a beautiful glossy red, with delicate purple bloom; flesh somewhat coarse but juicy. August and September.

WILD GOOSE—Well adapted to Peach Stocks; an improved variety of the Chickasaw; large deep red, with purplish bloom; flesh melting and good.

WEAVER—Fruit large, purple, very prolific; regular bearer. This tree is very hardy and will thrive in the very northern limits of the United States. Ripens August.

PEACH TREES.

Plants 15 to 18 feet apart; one year buds cut back for mailing, 15 cents each; 8 for \$1.00.

PEACH TREES—CONTINUED.**LEADING SORTS.**

Amsden's June,	Hale's Early,
Alexander Early,	Hill's Chili,
Bernard's Yellow	Jacques' Rareripec,
Rareripec,	Large Early York,
Crawford's Early,	Lemon Cling,
Crawford's Late,	Mountain Rose,
Coolidge Favorite,	Old Mixon Cling,
Chinese Cling,	Old Mixon Free,
Early Beatrice,	Red Cheek Melocoton.
Early Louise,	Richmond,
Early Rivers,	Snow,
Foster,	Geo. the 4th,
Smock's Free,	Smock's Cling,
Steadley,	Salway,
Scott's Nonpareil,	Stump the World,
Sturtevant,	Susquehanna,
Troth's Early,	Ward's Late Free,
Yellow Rareripec	

NEW VARIETIES OF PEACHES.

BOWERS' EARLY—A magnificent large free-stone Peach. Specimens measuring over nine inches in circumference, light colored flesh with a beautiful dark red cheek; of excellent quality, ripening in July. 35 cents each. Mr. Thomas Meehan, of the *Gardners' Monthly*, says of it, "It is a great pleasure to see so large a size with so early a fruit. The flavor was exquisite; so far as it is possible to judge we should say this was a long way in advance of our best early kind."

BEERS' SMOCK—Very large orange yellow with a red cheek; juicy and enormously productive. Last of September and first of October. Price, 35 cents each.

BILYEU'S LATE OCTOBER—A large white flesh peach with a beautiful flush cheek, ripening two weeks later than Smock. Freestone and an excellent shipper, having been shipped successfully to Europe. Price, 35 cents.

HONEYWELL—An exceedingly early peach, ripening about with Alexander. Fruit medium with a fine red cheek; juicy, half-melting, sweet and vinous; adheres partly to the stone. 35 cents.

DOWNING, SAUNDERS, and WILDER, } Seedlings raised by H.M. Engle. They resemble Alexander and Amsden, are of good quality, and are claimed to be very valuable acquisitions. Downing is said to ripen fully two weeks earlier than Hale; Saunders 10 to 12 days and Wilder 8 to 10 days before Hale's Early. Price, 35 cents each.

MARSHALL'S LATE—A new variety originated by Mr. Raphael Marshall, which bids fair to be a great acquisition, ripening midway between Smock and Salway, filling a very important gap. Fruit very large, deep yellow; immensely productive. Price 50 cents.

NECTARINES AND APRICOTS.

A good assortment. Plants 15 to 18 feet apart. Price, 50 cents each.

QUINCES.

ORANGE—Suitable size for mailing. 30 cents each.

ANGERS—Suitable size for mailing. 30 cents each.

REAS MAMMOTH—Suitable size for mailing; 50 cents each.

NUTS.

AMERICAN SWEET CHESTNUT—6 to 10 inches; 10 cents each; 40 cents per 10; \$2.50 per 100. Among all our nut bearing trees there is none so valuable as the Sweet Chestnut.

It is found growing naturally over a wide extent of country, and is perfectly hardy. It will grow on almost any dry soil, affording the most valuable timber, and the sweetest and most delicious nuts that are grown in this country.

SPANISH CHESTNUT—6 to 10 inches. 15 cents each; 8 for \$1.00. A splendid large nut, worthy of general planting, but not as sweet as the American.

BUTTERNUT, WHITE WALNUT—6 to 10 inches 15 cents each; 8 for \$1.00.

BLACK WALNUT—6 to 10 inches. 15 cents each; 8 for \$1.00.

ENGLISH WALNUT OR MADERIA NUT—6 to 10 inches. 20 cents each; 6 for \$1.00.

ALMONDS, SOFT AND HARD SHELLS—2 feet trees cut back. 50 cents each.

PECANS—1 to 1½ feet. 50 cents each.

HICKORY NUT SHELL BARK—6 inches. 10 cents each; 10 for \$1.00.

MULBERRIES

WHITE—12 to 15 inches; each 25 cents.

DOWNING'S EVERBEARING—12 to 15 inches; each 75 cents.

NEW AMERICAN—12 to 15 inches; each 75 cents.

NEW GRAPES.

We offer the following named New Grapes, which we consider very great acquisitions to our list of hardy, native Grapes. Each has been fruited for some years, and the fruit of all has been before our leading horticultural societies and pomologists, and has universally received commendation, which limited space prevents publishing here.

LADY WASHINGTON—This showy and beautiful White Grape was originated by Mr. Jas. Ricketts, of Newburgh, N. Y., who says he is confident it will vie with the Concord as to health, vigor, growth and productiveness. Bunch and berry very large; color, yellowish white with a tinge of delicate pink where exposed to the sun: covered with a thin, white bloom; flesh soft, tender, juicy, sweet and good; ripens before the Concord, and is one of the most delicious White Grapes it has ever been our pleasure to taste. Price, \$2.00 each.

WORDEN—A splendid, large, black Grape of the Concord type, but earlier; larger in bunch and berry, and of decidedly better quality; vine hardier than that old standby, the Concord, and every way as healthy. Price 50 cents each.

THE PRENTISS—THE NEW WHITE GRAPE.

Description—Bunch large, not often shouldered, compact. Berry medium to large, yellowish green, sometimes with a rosy tint on side next to sun; skin thin but firm; flesh tender, sweet, melting, juicy, with a pleasant and musky aroma; free from foxiness; little, if any pulp; seeds few and small; very similar to Rebecca in quality, but vine a vigorous grower, and foliage very distinct from Rebecca. Foliage healthy, thick, resembling Diana or Isabella, showing its native origin. Vine a good grower and very productive, inclined to overbear, and clusters should be thinned unless pruned close; vine hardy, and buds uninjured with thermometer 15 to 20 degrees below zero. The grape is an excellent keeper, and was exhibited at the Western New York Horticultural Society, at Rochester, January 22, 1879, in perfect condition. Ripens with Concord. The fruit has sold in New York markets for the past four years, wholesale, in quantities of 500 to 1,000 lbs., at 15 to 20

cents per lb., when Concords were selling at 4 to 6 cts., and Delawares 6 to 9 cts.

NEWBURG, N. Y., Sept. 23, 1878.

The Prentiss grapes were received in good condition. So far as I can judge from the specimen bunches, it is the best pure native white grape I have eaten.

Very respectfully,

CHARLES DOWNING.

BOSTON, Mass., Oct. 2, 1878.

I am much pleased with the Prentiss grape. It is excellent, and I think will prove one of the best acquisitions to our white American grapes that we have ever had. It is rich, and its Frontignan flavor, which few varieties possess, renders it still more desirable as a delicate fruit.

M. P. WILDER, Pres. Am. Pomological Society.

Price, for Spring, 1881—1 year, first class, \$1.50 each.

THE DUCHESS—Originated by A. J. Caywood, in Ulster Co., N. Y. Bunch medium to large, (often eight inches long) shouldered, compact; berries medium, round, greenish white, skin thin, flesh tender, without pulp, sprightly, rich and delicious; ripens with Delaware. Mr. John J. Thomas, the noted horticulturist and associate editor of the *Country Gentleman*, says of it: "I have examined, at different times, the fruit of the Duchess Grape, and have seen the growth of the vine on my own grounds and elsewhere. In quality, it is unquestionably one of the most delicious of out-door varieties, and in growth the vine possesses great vigor and hardiness, withstanding our winters uninjured." Price, \$1.50 each.

GRAPE VINES.

Plant rows 8 feet apart and 6 to 10 feet in rows.

The following prices are for first-class one year vines, two year vines being too heavy to forward by mail.

Price 25 cents each, except otherwise noted.

AGAWAM, (Rogers' No. 15)—A dark red grape of the Hamburg Cross; bunches large, compact, frequently shouldered; berries very large, with a thick skin, pulp soft, sweet, sprightly; vine very vigorous; ripens early.

BRIGHTON—An excellent new grape; bunch large, well formed; berries above medium to large, round, Catawba color; excellent flavor and quality; one of the best. One of the earliest in ripening. 50 cents.

CROTON—Vine moderately strong, berries medium size, yellowish green; flesh melting and sweet; ripens early. 50 cents.

CLINTON—Bunches small and compact, berries nearly round, black, pulpy, juicy, of medium quality; ripens some two weeks earlier than the Isabella; a great bearer, valuable for wine and culinary purposes. 15 cents.

CATAWBA—Bunches of good size, rather loose; berries large, round; when fully ripe of a dark copper color, with a sweet, rich, musky flavor. Requires a long season to arrive at full maturity. Excellent both for the table and wine. 15 cents.

CONCORD—A large, purplish black grape, ripening about the middle of September; vine remarkably vigorous and free from disease. It is now being planted over a greater extent of country than any other one variety. 15 cents.

DELAWARE—This is undoubtedly the best table grape, ranking pre-eminently above all others in its pure, rich, sugary, wine-like juice. Bunches small, compact, shouldered; berries medium size, fine wine color, translucent; vines hardy, moderately vigorous and very productive. Ripens 15th September.

EUMELAN—Medium size, deep purplish black, covered with a fine bloom, fine quality, hardy, productive and early. 30 cents.

EARLY CHAMPION—Vine vigorous; bunch and berry medium in size; black, thin skin; pulp sweet and pleasant, soft and melting. Ripens earlier than Hartford.

GOETHE, (Rogers' Hybrid No. 1)—A strong, healthy vine, producing large crops of beautiful bunches; berries very large, yellowish green; flesh tender and melting; ripens late; very valuable at the South.

HARTFORD PROLIFIC—Bunches large; berries large, round and dark, of medium quality. Ripens some three weeks earlier than the Isabella. Hardy and prolific. 15 cents.

IVES' SEEDLING—Bunches medium to large, compact, often shouldered; berries medium, slightly oblong, of a dark purple color. 15 cents.

ISABELLA—Bunches long, large and loose; berries large, oval, dark purple or black; pulp tender, juicy, sweet and rich when fully ripe. Ripens first of October. 15 cents.

LINDLEY, (Rogers' No. 9)—Vine vigorous, berries medium to large, reddish in color; flesh tender, sweet and aromatic; ripens early.

LADY—A new white grape, a seedling of the Concord, possessing all the vigor of the parent vine; berries large, light, greenish yellow, skin thin, pulp tender; sweet and rich; ripens earlier than Hartford; worthy of trial in all sections. 50 cents.

MERRIMAC, (Rogers' No. 19)—Black, bunches large, berries very large, round; one of the most reliable varieties, ripening from the 10th to 15th of Sept.

MARTHA—A light colored grape. Bunches compact, berries large, round; vine a strong grower, said to be a seedling of the Concord, but ripening earlier, and sweeter.

MOORE'S EARLY—Bunch large, berry large, round; color black with heavy blue bloom; vines exceedingly hardy, entirely exempt from mildew or disease. Its earliness makes it desirable for an early crop, and its hardiness particularly adapts it to Canada and the northern portions of the United States. 75 cents each.

MASSASOIT, (Rogers' Hybrid No. 3)—A vigorous vine; berries medium size, brownish red; flesh tender and sweet; ripens early.

REBECCA—Bunches rather large, berries above medium size, color light green, rich amber in the sun; flesh rich and sweet. Vines moderately vigorous, rather tender when young. Ripens ten days before Isabella. 50 cts.

SALEM, (Rogers' No. 53)—A strong, vigorous vine; a Hybrid between the native and Black Hamburg; berries large, Catawba color, thin skin, free from hard pulp, very sweet and sprightly; ripens as early as Hartford.

SENASQUA—Bunch large, often shouldered, compact; berry large, round; flesh firm, but tender, juicy, sweet, rich; ripens about with the Concord. 75 cents.

WILDER, (Rogers' No. 4)—Bunches and berries very large, black, round; flesh tolerably tender, flavor sprightly, sweet

and agreeable. One of the best of Mr. Rogers' Hybrids, ripening quite early.

WALTER—Bunch and berry medium, resembling the Delaware in color, but larger in size; flesh tender, rich and sweet, ripening very early; vine fair grower, with dark brown, short jointed wood. 75 cents.

GOOSEBERRIES.

DOWNING—Price 25 cents each. Very large, handsome, pale green, and of splendid quality for both cooking and table use; bush a vigorous grower, very productive, and usually free from mildew.

SMITH'S IMPROVED—Price, 25 cents each. Large, pale greenish yellow; skin thin, of very excellent quality, being unsurpassed by any other variety for table use or cooking; bush moderately vigorous, and excessively productive.

HOUGHTON SEEDLING—15 cts. each. Small to medium, roundish oval; pale red, sweet tender, very good; plants spreading, shoots slender, enormously productive.

MOUNTAIN SEEDLING—Price, 25 cents. Large roundish oval; pale red; skin thick, medium quality; plant a free grower and very productive.

RASPBERRIES.

The Raspberry should be planted in good rich soil, in rows about five feet apart, and three feet apart in the row, with three or five canes to the hill. As soon as they have done bearing, cut out the old wood to give more vigor to the young canes. Price, unless noted, 10 cents each; 50 cents per 10; \$3.50 per 100.

AMAZON—A very large and fine flavored berry, and one of the most vigorous of growers.

ANTWERP RED—An old variety, originally from Antwerp. Fruit large, conical, dull red; flavor rich and sweet; leaves large and plaited.

ANTWERP YELLOW—Large, pale yellow, of excellent quality.

BRANDYWINE—A large, bright red berry, of very beautiful appearance, which makes it a favorite market variety, although not of the highest quality. It does well on nearly all soils, and endures the drouth and heat of the South better than most varieties.

CATAWISSA—Dark crimson, covered with a thick bloom; flavor sprightly; canes vigorous and productive.

CLARKE—Large, conical, bright crimson, juicy, sweet and excellent, but rather soft for long shipments.

DELAWARE—Medium size, bright red; originated in New Jersey, where it is spoken of as one of the most delicious of berries.

DAVIDSON'S THORNLESS—One of the earliest and best of the Black Caps, and nearly exempt from spines.

DOOLITTLE'S IMPROVED BLACK CAP—Although one of the first introduced, it still holds its place as one of the most valuable.

HERSTINE—Very large bright crimson; fine flavored; a strong grower and abundant bearer; one of the very best berries for home use.

HIGHLAND HARDY—An early, strong growing and very productive variety, thriving in almost any soil. Berry medium, bright red; its earliness, great productiveness, and bright, handsome appearance, make it a favorite market variety.

KIRTLAND—An excellent red variety; perfectly hardy.

LUM'S EVERBEARING—Raised by H. B. Lum, of Sandusky, Ohio. It is similar to the Ohio Everbearing, but of larger size and more productive. 15 cents each.

GREGG—This is decidedly the largest and most prolific Black Cap that we have ever seen, far surpassing in size the famous Mammoth Cluster; averaging when grown side by side, with the same treatment, from one-third to one-half larger. 15 cents each; 10 for \$1.00.

GREAT WESTERN—A Black Cap from Pennsylvania, resembling the Gregg very closely. Thought by some to be identical. 15 cents each; 10 for \$1.00.

MAMMOTH CLUSTER—One of the largest, latest and best of the Black Caps; juicy and sweet.

MIAMI—Large, juicy, sweet; very productive.

PHILADELPHIA—Dark red, good size, flesh moderately firm; plants hardy, and enormously productive. Valuable for market.

SENECA BLACK CAP—Larger than Doolittle, a week later in ripening; firm, sweet and rich, hardy and very productive.

TURNER—A beautiful red berry of fine size and excellent quality; said to be the hardiest and most productive throughout the entire west.

NEW RASPBERRIES.

CUTHBERT, OR QUEEN OF THE MARKET—A remarkably strong, hardy variety, said to stand the northern winters and southern summers better than any other variety. Berries very large, measuring three inches around; conical; rich crimson; very handsome, and so firm they can be shipped hundreds of miles by rail in good condition; flavor is sweet, rich, and luscious. Price, 20 cents each; 6 for \$1.00.

RELIANCE—A new Red Raspberry of superlative excellence; firm, beautiful fruit; hardy and an immense bearer. Price, 10 cents each; 12 for \$1.00.

THWACK—This new variety appears to be gaining in favor. The canes are short—3½ to 4 feet, are as hardy as the hardiest, producing large crops of beautiful fruit; very firm, rendering it one of the best for shipping. Price, 10 cents each; 12 for \$1.00.

CURRENTS.

The Currant has not hitherto received the attention its merit demands. It presents us its annual offering of grateful refreshing fruit, just at the time it is most needed. Price, 15 cents each; the set of 8 sorts for \$1.00.

BLACK NAPLES—Very large. Fine for wine or jellies.

CHERRY—The largest of all the red currants.

LA VERSAILLAISE—Very large, long bunches, deep red, productive.

RED DUTCH—An old, well known, thrifty, upright sort; very productive.

VICTORIA—Large bright red, with very long bunches; late; a good bearer.

WHITE GRAPE—An early and immense bearer. Very valuable.

WHITE GOINDOIN—A large, light colored sort; sweet, vigorous and productive.

WHITE DUTCH—Milder flavor than the common red, and preferable for the desert.

BLACKBERRIES.

Plant 3 by 8 feet apart.

LAWTON, KITTATINNY, SNYDER AND EARLY WILSON—10 cents each; 3 sorts for 25 cts.

HOOSAC THORNLESS, AND MISSOURI MAMMOTH—15 cents each.

STRAWBERRIES.

For field culture, plant 1 by 4 feet apart, 10,000 to the acre; for garden culture, plant 1 by 2 feet apart. Any rich soil that will produce good corn or potatoes is suitable for the strawberry. The plants may be set in the spring or fall, but if set in the fall, they should be planted during September, so as to have them well rooted before winter. When planted late in the fall they require to be well mulched to prevent their winter-killing, but the leaves and crown must not be closely covered, as strawberry plants are easily smothered.

THE FOLLOWING ELEVEN MAY JUSTLY BE CONSIDERED THE

CREAM OF THE STRAWBERRIES.

For 188-81, as they have been selected from a large number of varieties, for their superior size, flavor and productiveness.

Those marked (p) are pistillate, others are perfect in their flowers.

LONGFELLOW—A magnificent new comer from Kentucky; plants with us robust and very productive; fruit very long and necked, of large size, firm, and of good quality; promising. Price, 10 cents each; \$1.00 per dozen.

WARREN—Plant vigorous, moderately productive; fruit of large size, fine form and color and delicious flavor. Price, 10 cents each, 12 for \$1.00.

WINDSOR CHIEF—(p.) A vigorous grower with healthy foliage, and immensely productive; the fruit of large size to the end of the season. It is said to be more profitable than the old standard kinds, and more productive than the Wilson. It was grown from the seed of the Champion, fertilized with the Charles Downing. Its resemblance to the former has caused some to suppose it the same. Price 10 cents each, 12 for \$1.00.

PRESIDENT LINCOLN—One of the largest berries in cultivation; rich dark color and fine quality. The size is really immense, irregular in form. The originator claims to have measured berries 10 to 11 inches in circumference. It requires rich soil and high culture. Price 10 cents each, 12 for \$1.00.

GLENDALE—So far the best late market berry that has been tested; plant very thrifty, with lall, rank foliage, and very productive; succeeds well on both light and heavy soils; fruit of large size, regular, uniform, conical, bright scarlet color, fair quality; very firm, being fully equal to Wilson in shipping and keeping qualities. Price 10 cents each, 12 for \$1.00.

SHARPLESS—With the exception of President Lincoln, the largest berry of the entire collection, and has maintained its high reputation for vigor of plant, size of berry, flavor and productiveness; flesh firm, sweet, with a delicate aroma, of first quality, color clear, light red, with a smooth, shining surface. Price 40 cents per 10, \$2.50 per 100.

MONARCH OF THE WEST—This is a well tested and truly worthy variety; will grow on most any good soil; stands drouth and wet; berry very large, firm and of most delicious quality. Price 40 cents per 10, \$2.50 per 100.

CRESCENT SEEDLING—(p-) Large, conical, quite uniform in size and shape; bright scarlet; moderately firm; a remarkable

grower, and considered the most productive variety grown, one grower having picked 346 bushels to the acre; will bear more neglect than any other, taking entire possession of the ground to the exclusion of weeds. It appears alike at home in all soils. Price 40 cents per 10, \$2.50 per 100.

SETH BOYDEN—A general favorite; medium early, large size, bright crimson, firm, juicy, rich, immensely productive. Price 40 cents per 10, \$2.50 per 100.

CHAS. DOWNING—Fruit medium to large, conical; deep scarlet, fine flavor, productive. Price 40 cents per 10, \$2.50 per 100.

JUCUNDA—A strawberry of the largest size, high color, holding its fruit well up on the vines; bringing the highest price in market. Price 40 cents per 10, \$2.50 per 100.

NEW VARIETIES.

CINDERELLA—Large, conical, regularly formed, bright glossy scarlet; mild, rich, aromatic, vigorous and productive; very fine for home use. 10 cents each, \$1.00 per 12.

PIONEER—Very early, of large size, bright red, flesh firm and of excellent quality. Price 40 cents per 10, \$2.50 per 100.

IOWA PROLIFIC—A new variety from Iowa, large and prolific and of good quality. Price 40 cents per 10, \$2.50 per 100.

MARVIN—A cross of Jucunda with Wilson, resembling to a certain extent both, although distinct from either; a berry of extraordinary promise, being one of the very latest in ripening. Price 10 cents each, \$1.00 per 12.

MINER'S GREAT PROLIFIC—Large to very large; deep crimson; strong grower, and so enormously prolific that the fruit is literally heaped about the plants. Price 10 cents each, \$1.00 for 12.

ESSEX BEAUTY—One of the early varieties; fruit firm, very large, cone shaped; crimson, exceedingly handsome. Price 10 cents each, \$1.00 for 12.

DUNCAN—A large, early variety of delicious flavor, making it especially valuable for home use. Price 10 cents each, \$1.00 for 12.

SENECA CHIEF—Very large, conical; dark crimson; firm, very good, late; productive and vigorous. Price 40 cents for 10, \$2.50 per 100.

OTHER VARIETIES OF STRAWBERRIES THAT HAVE BEEN FULLY TESTED.

Price of plants, 30 cents per 10; \$2.00 per 100.

AGRICULTURIST—(p.) Splendid berry of large size and good flavor.

COL. CHEENEY—(p.) Large, roundish ovate; bright scarlet; flesh rather firm; fine quality.

DR. WARDER—Large, showy; productive; of exquisite flavor.

GREEN PROLIFIC—(p.) Fruit large, of fine scarlet color. Very productive.

KENTUCKY—A strong, vigorous, productive variety, bearing its berries well up from the ground. Fruit large, bright scarlet; firm, juicy, rich and sweet.

MICHIGAN SEEDLING—Ripens a week to ten days later than Wilson's.

NICANOR—Plants vigorous and productive; berries fair size, bright scarlet.

PRESIDENT WILDER—Plant a vigorous, healthy grower, very productive. Fruit large, roundish, quite regular, bright crimson scarlet, firm, juicy, sweet and rich.

RUSSELL'S PROLIFIC—(p.) Large size, pretty firm, good flavor, less acid than Wilson's.

STERLING—(p.) New; highly recommended both for family use and market.

STAR OF THE WEST—Bright deep red color, smooth, flesh firm, good quality.

WILSON'S SEEDLING—One of the most productive and profitable varieties for market culture.

NEWER VARIETIES-

ALL POSSESSING SOME POINTS OF MERIT.

Price, 40 cents per 10; \$2.50 per 100.

BLACK DEFIANCE—A splendid sort, one of the best; very large, fine perfect form and fine flavor; a luxuriant grower and productive.

CAPT. JACK—A most vigorous grower, healthy and productive. Berries large, handsome and solid.

CUMBERLAND TRIUMPH—A magnificent variety, berries immense, fine perfect form, and of fine flavor. Plant very vigorous and productive.

DUCHESS OF EDINBURG—Recommended very highly as one of the largest and best.

FOREST ROSE—A variety of great excellence, of large size and handsome. A very luscious berry, somewhat resembling the Jucunda in color and texture. Plants very vigorous and productive.

GREAT AMERICAN—The plants and berries of this are prodigious. Single berries have been exhibited measuring nine inches in circumference. It ripens late, after most varieties are gone.

EVERGREENS.

In the following list we quote only such sizes of Evergreens as can be sent by mail.

NORWAY SPRUCE—When planted alone on the lawn makes a majestic pyramid of living green from base to summit; perfectly hardy to withstand the severest cold of our Northern winters or the greatest heat of summer. Unrivalled as a screen or wind-break. No evergreen excels it in safety of transplanting, in close, compact habit of growth, and in endurance of close pruning from year to year without injury. 2 years, 3 to 4 inches, 25 cents per 10; \$1.25 per 100; 4 years, 6 to 8 inches, 10 cents each; 50 cents per 10; \$3.00 per 100.

AMERICAN ARBOR VITÆ—A hardy pyramidal tree; when grown singly and properly sheared, a handsome object; planted closely, it makes a compact and beautiful hedge of light green. 4 to 6 inches, 10 cents each; 50 cents per 10; \$4.00 per 100.

ARBOR VITÆ, (Golden.)—A beautiful variety of the Chinese, compact and globular in form; color a lively yellowish green; not quite hardy at the North; should be planted in a shaded situation. 4 to 6 inches, \$1.00.

ARBOR VITÆ, (Pumila.)—A little dwarf; very fine both in color and form. 5 to 6 inches, 25 cents each.

ARBOR VITÆ, (Pyramidalis.)—An exceedingly beautiful, bright variety, resembling the Irish Juniper in form; foliage deep green; color well retained in winter; perfectly hardy. Should have a place in every collection. 4 to 5 inches, 25 cents each.

ARBOR VITÆ, (Siberian.)—A small, conical shaped tree; foliage dense, dark green; perfectly hardy and excellent for a single specimen or for hedges. 4 to 5 inches, 25 cents each.

ARBOR VITÆ, (Tom Thumb.)—A very small compact little evergreen; very fine foliage. Makes a beautiful ornament for a small yard or cemetery lot; fine for low hedges. 4 to 6 inches, 25 cents each.

ARBOR VITÆ, (Hoveyi.)—A small tree, globular in form; foliage light green and very compact; hardy. 4 to 5 inches, 25 cents each.

ARBOR VITÆ, (Victoria.)—A moderately free growing variety, foliage lively green tipped with creamy white; very desirable. 6 to 8 inches, 75 cents.

ARBOR VITÆ, (Compacta), "Parson's."—A very compact variety; hardy and desirable. 5 to 6 inches, 25 cents.

CUPRESSUS NUTKENSIS—A very fine evergreen from Nootka Sound. One of the best; foliage dark green; perfectly hardy. 6 to 8 inches, 50 cents.

IRISH JUNIPER—Erect and formal in habit; foliage deep green and very compact, making a splendid column, sometimes 15 or 20 feet high. Much used in cemeteries. 4 to five inches, 25 cents each.

SWEDISH JUNIPER—Not quite as erect in growth as the Irish; foliage light yellowish green. It attains a height of 10 or 15 feet. Perfectly hardy. 4 to 5 inches, 25 cents each.

JUNIPERUS SUECICA NANA—A dwarf variety, compact habit of growth; foliage light, not changing in winter; perfectly hardy. 4 to 5 inches, 25 cents each.

PINE, (Austrian)—A strong, hardy grower, fine for wind-breaks; grows rapidly on light sandy soils; hardy. 4 to 6 inches, 15 cents each.

PINE, (Scotch)—Like the preceding, its quick strong growth, makes it valuable for protective screens; very hardy. 4 to 6 inches, 15 cents each.

PODOCARPUS NUBIGENS—A rare Evergreen from Japan; erect like the Irish Yew, with heavier and denser foliage. 4 to 5 inches, 40 cents.

RETINOSPORA PLUMOSA—An exceedingly handsome small evergreen, from Japan, with feathery, light green foliage. 4 to 5 inches, 25 cents each.

RETINOSPORA PLUMOSA AUREA—Like the preceding, a plant of great beauty; soft, plume-like foliage, of a golden color; close and compact habit; should be in every amateur collection. 4 to 5 inches, 35 cents each.

RETINOSPORA SQUARROSA—A small sized tree, with graceful drooping branches and glaucous green foliage. 4 to 5 inches, 35 cents.

YEW, (Elegantissima)—An erect little tree with variegated leaves; valuable at the South. 4 to 5 inches, 50 cents each.

YEW, (IRISH)—Upright in growth, with dense foliage, of a dark, sombre hue; not quite hardy here; valuable at the South for cemeteries or small yards. 3 to 4 inches, 35 cents each.

YEW ERECT ENGLISH—An upright growing variety of this very desirable evergreen, and as hardy as its prototype. 4 to 6 inches, 35 cents.

BOX TREE—A fine small evergreen, with pale green leaves. Can be trained in any desirable form by shearing. 4 inches, 15 cents each; 10 for \$1.00.

DECIDUOUS TREES.

CATALPA, (syringifolia.)—A tree of medium size, with large heart-shaped leaves, and large clusters of white and purple flowers. In bloom the last of July. 8 to 12 inches, 10 cents each; 30 cents per 10; \$1.00 per 100.

CATALPA SPECIOSA, (Hardy, or Western Catalpa)—This early blooming upright growing variety appears to be much hardier than the common syringifolia, having proved itself capable of enduring the severe winters of Wisconsin and Iowa, making, when planted in groves, straight symmetrical trees, suitable for posts or railway ties, for which purpose it is one of the most durable timbers known, lasting in many well authenticated instances, nearly or quite a century. 8 to 12 inches, 10 cents each; 30 cents per 10; \$1.00 per 100.

ACER NEGUNDO, (Ash-leaved Maple)—A distinct variety, making a handsome lawn tree. 4 to 6 inches, 20 cents.

TILIA AMERICANA, (American Linden or Basswood)—A rapid growing beautiful tree, with very large leaves and fragrant flowers. 8 to 12 inches, 20 cents.

RED FLOWERING HORSE CHESTNUT—2 years, stocky, 1 foot in height, 50 cents each. This is a beautiful tree, with splendid rosy-red flowers, forming a fine contrast with the white flowering sort.

WHITE FLOWERING HORSE CHESTNUT—2 years, stocky, 1 foot in height, 35 cents each. This makes an admirable tree for all ornamental planting.

FLOWER PLANTS.

BY MAIL, POSTPAID.

Abutilon—Flowering Maple. Bushy plants, with white, yellow, crimson and striped flowers; erect and drooping species, green and blotched leaves. 15

Achyranthus—Crimson, green and yellow leaves and stems, for bedding. 10

Begonia—As choice pot plants, nothing can excel the fancy-leaved Begonias. Shade in summer. Warm temperature with little water in winter. 25

The plain-leaved summer bloomers are beautiful pot plants. 15

Carnation—Large stock of best varieties. Large plants. 25 to 50

Cactus—Of these plants we have a good variety. 25 to 1.00

Cuphea—Cigar Plant. For pots, hanging baskets or bedding; always in bloom. 10

Calla Ethiopica—Lily of the Nile. Showy white large flower. Calla Maculosa, a variety of Calla with leaves spotted white; keep this one dry in winter. 25

Coleus—Used extensively for bedding in masses. In 24 choicest named varieties. Per dozen, 75 cts. 8

Feverfew—Double white, abundant bloomer, fine for planting out. 10

Fuchsia—Fifty finest sorts, double and single. 15

Geranium—An immense stock in the finest varieties, double and single, white, pink, salmon, scarlet and crimson. From 2 inch pots, 10 cents each, \$1.00 per doz.; 3 inch pots, 15 cents each, \$1.50 per dozen. Silver-leaved, tricolor and the best fancy-foliaged varieties. 15 and 25

- Heliotrope**—Well known fragrant flower, ever in bloom; does well in the warm, dry air of sitting rooms: white and dark purple varieties..... 15
- Hydrangea**—Immense heads of pink and white flowers, continuing on all summer; wintered safely in cellar..... 25
- Hoya Carnosa**—Wax plant..... 20
- Ivy**—Several different varieties..... 15
- Lobelia**—Drooping plants, good for hanging pots; blue flowers..... 10
- Linaria**—Kenilworth Ivy. Neat for hanging pots; does best in shade..... 10
- Lycopodium**—Moss-like plants, for fern cases and shady, moist situations.. 15
- Othonna**—Drooping, thick, fleshy stems; small yellow flowers..... 10
- Pansy**—Choice English seedlings; per dozen, 25 cents.
- Roses**—An immense stock of the Ever Blooming or Tea Roses, in 100 choicest varieties, in pink, salmon, rose, white, buff, yellow, crimson, all the best shades. Long lists are puzzling to the inexperienced, hence if customers will send us a list of colors wanted, whether for summer or winter flowering, we will guarantee them reasonable satisfaction. Strong young plants from 3 inch pots, 15 cents each, or 8 for \$1.00.
- Verbenas**—In great variety. Per dozen, 75 cents..... 10

BULBS AND ROOTS FOR SPRING PLANTING.

PRICE INCLUDES POSTAGE PREPAID.

Amaryllis—Bulbs may be potted any time in spring; they bloom year after year; must not be allowed to freeze.

- | | EACH. |
|---|-----------|
| Formosissima —Jrcobean Lily. Dark crimson..... | 40 |
| Atamasco —Pink and white..... | 25 |
| Vittata —Extra fine, red ground striped with white..... | 1.25 |
| Caladium —Esculentum—Roots should be planted in the spring, taken up in the fall and stored in a dry cellar. The Caladium is highly ornamental and very showy, the leaves frequently growing 3 feet in length..... | 25 and 50 |
| Canna —Beautiful foliage plants growing from 3 to 6 feet high. In fall, store roots in a dry cellar. Good mixed, 25 cts. each: Extra fine clumps, choicest English..... | 50 |
| Dahlia —Especial attention is called to my large collection of these exceedingly show and grand fall flowers, of which I grew last season nearly two acres of fully two hundred distinct varieties, comprising all the gorgeous shades and colors imaginable. Plant roots soon as weather is warm. Before severe frosts, take up the roots, cut off the tops, and when dry store in a cellar, packed in dry sand. Per dozen, \$2.50..... | 25 |
| Gladiolus —Very beautiful and showy; tall spikes of flowers of many colors; bloom all summer. Plant in spring 3 or 4 inches deep, 6 inches apart in the rows; before severe | |

- frosts, take up the bulbs and as soon as dry store in a cool place till spring.
- Fine mixed varieties, many shades of red.** Per dozen, 50 cents..... 5
- Fine mixed varieties, light and white.** Per dozen, \$1.00; per hundred, \$5.50..... 10
- Fine mixed varieties, all colors mixed.** Per doz., 50 cts.; per hundred, \$3.00.
- Madeira Vine**—Ornamental climber of very rapid growth; thick, light green, glossy leaves; keep roots in cellar over winter. Small roots, per dozen, 50 cents..... 1
- Large roots, per dozen, \$1.00.....**
- Double Tuberoses**—The roots of this delightfully fragrant, pure white, wax like double flower, may be planted from February to July. Before planting, remove the small offsets; use good, rich soil; plant in 6 inch pots, one root in a pot. Good flowering roots per doz., \$1.00; per hundred, \$5.00..... 10
- Extra large size, per dozen, \$1.50; per hundred, \$8.00.....** 15
- New Double Dwarf Pearl, per dozen, \$1.50; per hundred, \$8.00.....** 15

MISCELLANEOUS SEEDS.

POTATOES, ESCULENT ROOTS, PLANTS, &C.

Everything in this department is packed and delivered free of charge, at express or freight office in Des Moines, from where it is forwarded at purchasers expense, except in cases where noted by mail.

Quotations on all articles subject to change or market will be furnished on application.

Those needing large lots of clover and other farm seeds will find it to their interest to send a list of what is wanted, for special prices.

SEEDS.

- | | LB. BY MAIL. | BU. |
|---|--------------|----------|
| Apple Seed —Very scarce and high..... | \$.60 | |
| Broom Corn — | | |
| Black Spanish — Finest corn..... | 80 | \$3.00 |
| Evergreen..... | 25 | 2.50 |
| Common..... | 25 | 2.00 |
| Buckwheat — | | |
| Silver Hull—A great improvement upon the common black or gray; it continues in bloom longer, matures sooner and yields better under the same treatment; the husk is thinner, thus saving a large per cent. of waste in manufacturing into flour, which is of a whiter color and superior quality..... | 25 | 75 2.50 |
| Common --- (Subject to change of market)..... | | 1.25 |
| Beans —Navy—(Subject to change of market... .. | | BU. 2.50 |
| Corn —Blount's White Prolific—Field. The result of ten years improvement by Prof. A. E. Blount of Colorado. Described as producing wonderfully enormous crops; eight to sixteen ears growing from each stalk. Paper 10 cents, post paid; quart, 25 cents; peck, \$1.50; bushel, \$5.00. | | |

If ordered by mail, 20 cents per quart must be added to pay postage.

Compton's Early Field—Sent out in 1877, at \$1.00 per pint. It is very early, ripening in 80 days; ears are long and well filled, yields well; a very valuable yellow flint corn for late planting; paper, 10 cents post paid; quart, 20 cents; peck, 75 cents; bushel, \$2.50.

Large White Field—Very fine. Per bushel, \$1.50.

	LB. BY MAIL.	PER BU. M'K TPR.
Clover —		
Common Red—.....	35	" "
Mammoth Red—.....	40	" "
White Dutch—.....	65	" "
Alsike or Swedish—.....	50	" "
Alfalfa, Lucern or Chili	50	" "
Grass Seeds —		
Timothy—.....	25	" "
Kentucky Blue Grass... ..	40 (about)	1.50
Orchard Grass—.....	45 (about)	2.25
Red Top—.....	30 (about)	1.00
Millet—Common—.....	25 (about)	1.00
German or Golden—.....	30 (about)	1.50
Pearl—The forage plant which is creating such a sensation. It is very distinct from the other varieties of Millet, growing to the height of 8 to 10 feet, and producing an enormous bulk of fodder per acre. It is quite nutritious, and is readily eaten by stock. By mail, per paper, 10 cents; lb., 50 cents; 5 lbs., by express, for \$1.00.		

Imported Grasses—From the most reliable sources.

	LB. BY MAIL.
Perennial Rye Grass.....	40
Italian Rye Grass.....	40
Meadow Fescue.....	60
Sheeps Fescue.....	50
Sheeps Fescue—Fine leaved.....	60
Evergreen Fescue.....	50
Red Fescue.....	50
Fall Fescue.....	60
Meadow Foxtail.....	75
Sweet Vernal.....	60
Crested Dogtail.....	65
Yellow Oat Grass.....	40
Fall Meadow Oat Grass.....	50

Lower prices on large quantities of any of the above imported grasses. Send list of what is wanted for special prices by the bushel, or more.

	LB. BY MAIL.	BU.
Lawn Grass —Fine mixed (of the various kinds of grasses suited for the formation of lawns)....	40	2.00
Central Park Mixture.....	60	4.00
Flax Seed —For sowing... ..	(about)	1.50
Field Peas —(Canada).....		2.50

Hedge Seeds—

Osage Orange—(For directions for sprouting, see last year's catalogue, sent for 3 cent stamp). Per pound, by mail 50 cts. Per bushel (32 lbs.) about 6.00.

Honey Locust—50 cents per pound by mail; 10 lbs. or more, by freight or express, 25 cents per pound.

Hulless Oats—Hulless oats are not new by any means, but have been cultivated on a limited scale in this country for years. The berry, which is much larger than that of ordinary Oats, is threshed from the head as clean as wheat, and weighs 55 pounds per measured bushel. Pound, by mail, 30 cts.; 33 pounds per bushel; \$2.50.

Sugar Cane—Early Minnesota Amber—Of the list of recent introductions, we know of nothing promising more value to the country.

It grows to a good height, and stands up exceedingly well. The heads are more com-

pact than the Sorgo, but less so than the Libarian.

It is much richer in saccharine matter than any variety of either African or Chinese cane yet introduced into this country.

The syrup, when properly manufactured, is of a beautiful clear amber color and exquisite flavor, being entirely free from that disagreeable odor, unpleasant taste and cloudy appearance, which so characterizes sorgham. It yields on an average about 200 gallons of syrup per acre, which readily granulates.

It ripens very early, and is sure to mature as far north as latitude 44-30, which fact particularly recommends it to the northern portion of our country.

It is very prolific in seed, which is a valuable food for poultry or stock.

Any good corn land will do for cane. A light sandy loam will produce the heaviest crop.

Plow deep; prepare land as for corn; plant seed in shallow checks or drills, when ground is warm and moist.

Cane grows slowly at first, and weeds should be kept down until it is large enough to plow. This early work always pays well.

Any missing hills may be supplied by transplanting the young plants. Only 5 or 6 stalks should be left to mature in a hill.

If thoroughly cultivated until it reaches the height of 3 feet, it will then take care of itself until harvest. Late plowing is liable to injure the roots.

Cane should be cut as soon as the seed ripens, and a few days previous to grinding.

Strip the leaves off while standing, immediately before cutting the cane.

The leaves make superior fodder for stock.

Our seed was raised from stock obtained directly from headquarters, and is strictly pure and reliable in every respect. Per lb. by mail, 40 cents; 3 lbs., \$1.00; by express or freight, 10 lbs. or more, 20 cents per lb.

Sunflower for Poultry—Being exceedingly productive of oil, it gives to the feathers a beautiful luster. It is greedily eaten and very nutritious.

Mammoth Russian—Per lb., by mail, 50 cents; 3 lbs., \$1.00; by express, 10 lbs. or more, 20 cents per lb.

Defiance Spring Wheat—This variety was introduced in 1878, at \$1.00 per pint. It is the result of a series of experiments by Mr. Pringle, in his endeavor to incorporate high qualities upon the hardy stock of common Club Wheat by hybridizing it with one of the finest and whitest varieties grown on the Pacific coast. It is a beardless white chaff wheat, with heads frequently 5 to 6 inches long, very closely set white kernels, frequently numbering 75 to 80 to the single head. Its white, stiff, erect straw, exempt from the attack of rust, its earliness combined with great vigor and superior qualities, should claim for it universal trial. It has produced 528 pounds from a single pound of seed under good cultivation. My stock is from the original, having been grown in Iowa two years, and is perfectly pure.

One lb. by mail, 40 cents; 3 lbs., \$1.00, by express or freight; peck, \$1.25; 1 bushel, \$4.00; 3 bushels, \$10.00; 10 bushels, \$25.00.

White Russian Spring Wheat—Imported from Russia. First grown in Wisconsin, from where it has been disseminated, proving to be one of the most valuable varieties ever introduced into

this country. It has long, straight, stiff straw; is an excellent yielder; stands well after being ripe; very healthy, in many cases producing a full average crop where other varieties have failed entirely. It has received the highest praise from those who have grown it, both in Iowa and elsewhere.

One lb. by mail, 40 cents; 3 lbs., \$1.00; by express or freight, peck, 75 cents; bushel, \$2.00; 10 bushels, \$17.50.

POTATOES--Irish.

In these days of infinite varieties of potatoes, it is somewhat difficult matter to make selections from the unabridged lists offered for sale.

It is my intention to offer only such tested sorts as are worthy of cultivation. I spend considerable many each season in testing new potatoes, many of which are never offered for sale in my lists, but occasionally a very valuable acquisition is made. The past season was not very favorable for potatoes, yet I succeeded in growing very fair crops of most of the following sorts, which will be found true to name.

Beauty of Hebron—This beautiful new variety is predestined to occupy a very high place in our list of potatoes.

Tubers are similar in shape to the Early Rose, very smooth, slightly tinged with pink about the eyes. It ripens at least ten days before the Early Rose, and yields *simply enormous*, tubers lying very close together in the hill. Its mealy qualities and rich delicate flavor, are the highest recommends for culinary purposes.

By mail, 1 lb., 50 cents; 3 lbs., \$1.00; by freight or express, peck, 75 cents; bushel, \$2.00.

Iowa Beauty—During the past two seasons I have grown this splendid variety from stock received direct from the introducer, who thus describes it:

"IOWA BEAUTY—This, without doubt, is the earliest, as well as the best, early potato in cultivation. This new and very superior variety was raised by myself, in 1875, from seed sent me by Mr. C. G. Pringle, of Vermont, produced the summer before by

pressed at the seed end. Its mealiness, pure delicate flavor, and the evenness with which it cooks, have never been eclipsed.

Grows in very compact clusters around the base of the stalks in the hill.

By mail, 1 lb., 30 cents; 4 lbs., \$1.00. By freight or express, peck, 50 cents; bushel, \$1.50; bbl., \$4.00.

Extra Early Vermont—Very similar in general appearance to the Early Rose, but is more hardy and somewhat better keeper; very early, splendid quality.

It was awarded a first class certificate in 1873, by the Royal Horticultural Society of London.

Cy mail, 1 lb., 30 cents; 4 lbs., \$1.00. By freight or express, peck, 50 cents; bushel, \$1.50; bbl., \$4.00.

Crawford's Seedling—This is a new Iowa Seedling which was sent to me by the originator, Mr. Crawford, who produced it from seed. Although not grown by myself, I can confidently recommend it to our customers as very valuable new sort. In color and shape it closely resembles the early Rose, but the tubers are much smoother than this well known excellent variety, and the yield under the same treatment is fully *one-fourth* heavier, while the time of maturity is the same. Awarded first premium at our State Fair last fall for an early potato. I have the testimonials of a large number of competent judges who have thoroughly tested the quality, and pronounce it *superior to any early potato they have ever used*. Do not fail to give this new Iowa seedling a trial.

Per lb., by mail, \$1.00; 3 lbs., \$2.00. By express, peck, \$3.00; ½ bu., \$5.00; bushel, \$9.00.

Dunmore—White skin and flesh, fine quality, great yielder. I consider it one of the very best late sorts for profit.

Lb., by mail, 50 cents; 3 lbs., \$1.00; by freight or express, peck, 75 cts.; bu., \$2.00.

Pride of America—Closely resembles the Snowflake in appearance and quality, ripens a few days later, is more productive and adapted to a greater variety of soils, FRANK W. HEERS.

THOMAS G. ORWIG & CO.,

Solicitors of Patents and Editors and Publishers of the "Industrial Motor."

pressed; its flesh is white, fine grained, dry and mealy, and possesses a superior flavor. Its vines are of medium height, somewhat spreading, the foliage broad, dark green, healthy and of very vigorous growth. Its time of maturity is at least ten days in advance of the Early Rose, or about with the Alpha. Its yield with me, the past season, was greater than that of any of the old or new sorts grown by me, being, in one instance, at the rate of five hundred and sixty bushels to the acre. The wonderful cropping qualities of this new variety will be seen in the fact that the first year from the seed ball, the yield was six pounds, all large sized potatoes. It does not seem to deteriorate."

By mail, 1 lb., 50 cents; 3 lbs., \$1.00; by freight or express, peck 75 cts.; bu. \$2.00.

Snow Flake—For a table potato, the Snow Flake is unexcelled. Among the earliest, ripening with the Early Rose; it keeps equal with any of the late sorts.

The tubers are white, very slightly tinged with russet; symmetrical and uniform in shape, medium size, eyes are entire flat on the base, and but slightly de-

pressed; its flesh is white, fine grained, dry and mealy, and possesses a superior flavor. Its vines are of medium height, somewhat spreading, the foliage broad, dark green, healthy and of very vigorous growth. Its time of maturity is at least ten days in advance of the Early Rose, or about with the Alpha. Its yield with me, the past season, was greater than that of any of the old or new sorts grown by me, being, in one instance, at the rate of five hundred and sixty bushels to the acre. The wonderful cropping qualities of this new variety will be seen in the fact that the first year from the seed ball, the yield was six pounds, all large sized potatoes. It does not seem to deteriorate."

One lb., by mail, 50 cts.; 3 lbs., \$1.00.

St. Patrick—Introduced in 1879, since when it has become quite popular. The best result of twelve years careful experiments by the originator, and is a direct descendent of the Garnet, Chili and Early Rosé. Smooth white skin, few and shallow eyes, oblong in shape, flesh white, fine quality, heavy yielder, medium early.

One lb., by mail 50 cents; 3 lbs., \$1.00; peck, freight or express, \$1.00.

Silver Skin—Handsome. White skin and flesh; a cross between the White Peach-Blow and Early Rose. Tubers medium to large, excellent quality, good keeper. Ripens little before Peerless. 1 lb. by mail, 50 cents, 3 lbs., \$1.00.

Matchless—Another cross between the White Peach-Blow and Early Rose. Tubers generally quite round, medium size. Skin white, slightly russeted; eyes very shallow; flesh fine grained, white and high quality. Ripens trifle later

than Silver Skin. Good cropper and keeper; 1 lb. by mail, 50 cents; 3 lbs., \$1.00; peck by express, \$1.00.

Early Ohio—This has proven to be one of the very best early sorts in every respect. Ten days to two weeks earlier than the Early Rose. Tubers large, no small ones; excellent yielder, quality very high, vines stocky and upright; grows close in the hill.

One lb. by mail, 50 cents; 3 lbs., \$1.00; peck, 75 cents; bushel, \$2.00 by express.

Victor—In this we consider we have one of the most valuable potatoes ever introduced. A seedling of the Peach Blow and Prince Albert. Skin purplish red, white spots; flesh very white, fine grained, never hollow, medium late, great cropper, remarkably good keeper, very free from rot. Took first premium for best late potato at Iowa State Fair last fall.

One lb. by mail, 50 cents; 3 lbs., \$1.00; peck, 75 cents; bushel, \$2.00 by express.

Pure Early Rose—The well known standard early sort.

By mail, 1 lb. 30 cents, 4 lbs. \$1.00; by freight or express, peck 50 cents, bushel \$1.50, bbl. \$4.00.

Breeze's Peerless No. 6—Grows to enormous size, very prolific but of inferior quality for table use.

By mail, 1 lb. 30 cents, 4 lbs. \$1.00; by freight or express, peck 50 cents, bushel \$1.50, bbl. \$4.00.

Peach-Blow—Too well known to require a description.

By mail, 1 lb. 30 cents, 4 lbs. \$1.00; by freight or express, peck 50 cents, bushel \$1.50, bbl. \$4.00.

Late Rose—Ripens three weeks later than the Early Rose; much more productive, hardier and better keeper.

By mail, 1 lb. 30 cents, 4 lbs. \$1.00; by freight or express, peck 50 cents, bushel \$1.50, bbl. \$4.00.

SWEET POTATOES.

Yellow Nansemond—The standard sort for this country. Peck 50 cts., bu. \$1.50.

Southern Queen—Large white, very early variety. Peck 50 cents, bu. \$1.50.

Sweet Potato Plants—See general list of vegetable plants.

ARTICHOKE.

Jerusalem—(White). Peck 50 cts., bushel \$1.50.

Brazillian—(Red). Peck 60 cents, bushel \$2.00.

ASPARAGUS ROOTS.

For directions for planting, &c., &c., see page 3, under heading of "Asparagus."

Conover's Colossal—1 year old roots per 100, 75 cents; per 1000, \$5.00. 2 year old roots per 100, \$1.00; per 1000, \$8.00.

ONION SETS AND TOP ONIONS.

	QRT. BY MAIL.	PER BU.
Yellow Sets —From seed.....	50	M't price.
Red Sets —From seed.....	50	" "
White or Silver-Skin Sets —From seed.....	50	" "
Top or Button Onions —.....	50	" "
Potato Onion Sets —.....	50	" "

RHUBARB OR PIE PLANT ROOTS.

Victoria or Mammoth—Each 25 cents, dozen \$2.50.

BOWKER'S AMMONIATED FOOD FOR FLOWERS.

what is wanted for special prices by the bushel, or more.

Lawn Grass—Fine mixed

(of the various kinds of

grasses suited for the

LB. BY

A few letters from ladies in the west, and Boston florists

cents; 3 lbs., \$1.00; by express, 10 lbs. or more, 20 cents per lb.

Defiance Spring Wheat—This variety was introduced in 1878, at \$1.00 per pint.

It is the result of a cross of

From the Superintendent of the Boston Public Garden.

BOSTON, Sept. 1, 1879.—I have used Bowker's Food for Flowers in the flowerbeds of the Public Garden and Squares of Boston during the past season, and find it to be all that it is represented, both as to producing healthy growth of the plant and its generous flowering.

WILLIAM DOOGUE, Supt.

OWOSSO, Mich., Sept. 28, 1879.—Bowker Fertilizer Co., Gentlemen:—I have used your Ammoniated Food for Plants, and find it all you represent. I had the nicest plants in Owosso, last winter, all due to the use of your Fertilizer.

MRS. C. E. S.

Du Bois, Ill., Oct. 2, 1879.—Bowker Fertilizer Co.:—The package of Bowker's Ammoniated Food for Flowers received from you has given my wife great satisfaction, in the increased growth of plants and increase in number and size of blossoms.

Very respectfully,

L. BUNCE.

From W. C. Strong, Ex-President of Massachusetts Horticultural Society, and a Large Grower of Flowers and Roses.

NEWTON, Mass., Oct. 11, 1879.—Gentlemen:—For several months past we have used your Plant Fertilizers upon our roses in pots, for the purpose of testing results. While we do not consider the experiment as completed, we yet feel safe in saying that our plants have received very decided benefit, and are now in better condition than we have ever had them at this season. A most excellent condition of wood and roots has been obtained. We are so much encouraged that we are now using it upon our rose borders for winter forcing, and confidently expect that we shall be able to give you more positive and very favorable results at a later date.

Yours truly,

W. C. STRONG.

TABOR, Iowa, Oct. 3, 1879.—Bowker Fertilizer Co.:—Your Ammoniated Food for Flowers give entire satisfaction.

Very Respectfully,

WM. M. BROOKS.

For sale by C. W. DORR, Des Moines, Iowa. Manufactured by Bowker Fertilizer Co., Boston, New York, and Rochester, N. Y.

COMSTOCK'S HORTICULTURAL IMPLEMENTS.

THESE Implements comprises, in simple combinations, a *Wheel Seed Sower, Wheel Cultivator, Wheel Rake, Wheel Scuffle Hoe, Wheel Shovel Plow, Wheel Strawberry Runner Cutter, and Wheel Verge or Turf Cutter.*

Comstock's Hand Cultivator and Onion Weeder combined. In the cultivation of Onions, Carrots, and other small drill crops, will do the work of six men with hoes, and do it with ease. It *pulls the weeds* and thoroughly pulverizes the soil. For cultivation and weeding, we believe it has no equal.

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The combined Machine, with the extra attachments complete, sows all kinds of seed in drills; weeds all kinds in drills and pulverizes the soil, cultivates between rows, cultivates one or both sides of a row at once, opens and covers drills, deep or shallow; skims the surface or loosens the soil, gathers loose weeds into heaps between rows, plows and hoes any depth and width required, throws the earth up to or away from the rows, cuts strawberry runners and cleans the ground, cuts the turf edges of walks and borders, scrapes and cleans walks and alleys. The shape of the frame protects large plants from being torn by the teeth when run between rows which nearly meet together. The same frame, wheel and handles answers for all the combinations. They are shipped by express or freight, either from Des Moines or the factory.

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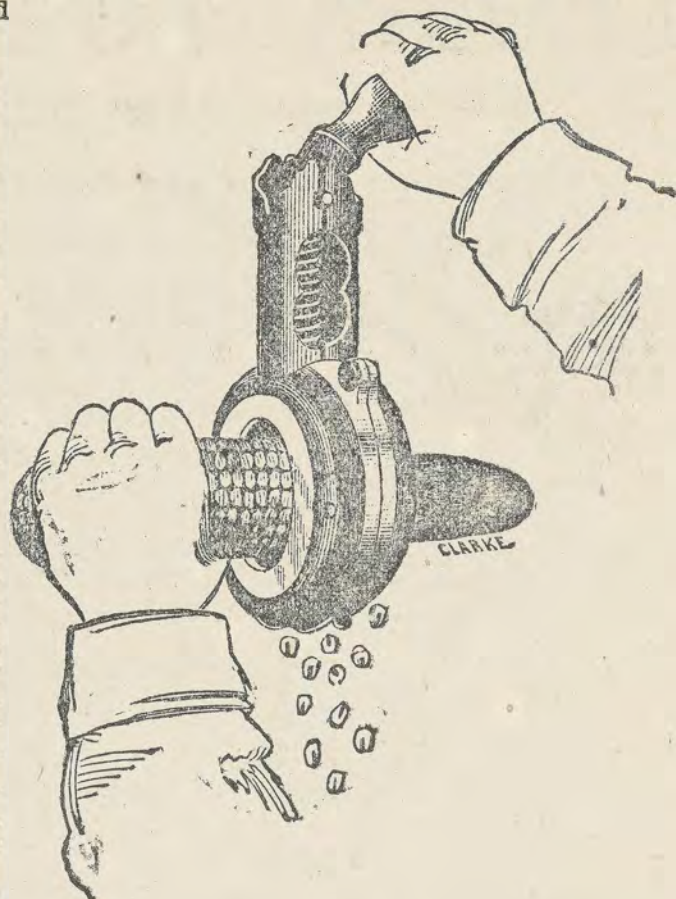
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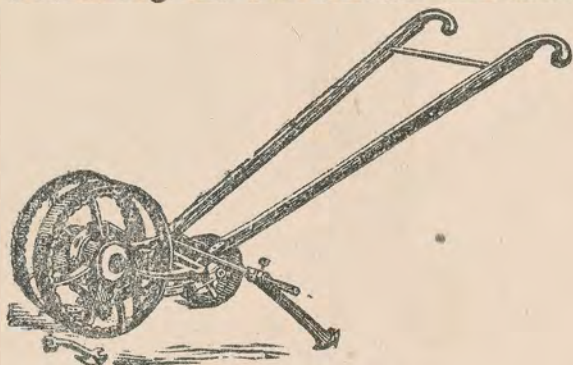
We desire to call the attention of our readers to the worth of the HOMESTEAD, published by B. F. Gue, at Des Moines, Iowa. The paper has been largely improved since Mr. Gue took control of it, and it now ranks equal to any published anywhere.—*Ogden Reporter.*

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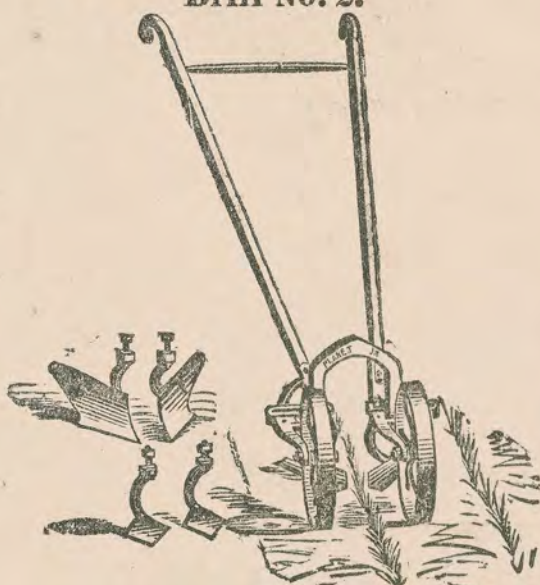
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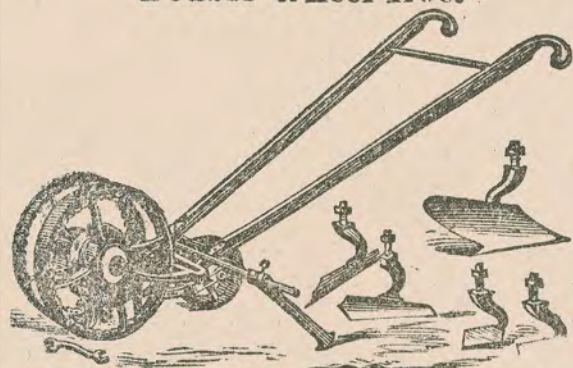


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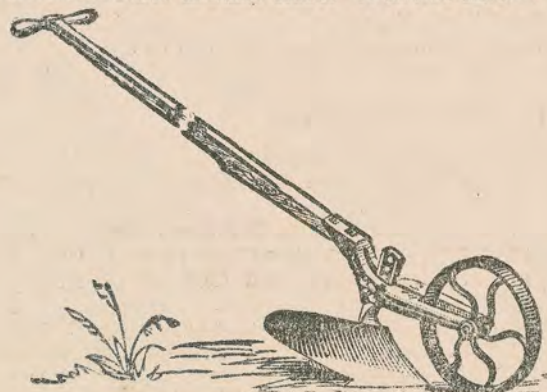
Is a tool farmers who grow roots for stock or vegetables for market, cannot afford to be without. When used as shown in the cut it will shave close to the small plants both sides at once, without covering them, and ten times faster than with the hand hoe, doing perfect work. When the two cultivating teeth are use, it loosens the ground thoroughly, killing young weeds and cultivating deeply, while with the two small plows neat furrows can be thrown to or from the rows of Potatoes, Peas, Beans, Celery, &c. Price, boxed, \$9.00.



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And for 1879 it was.....	46,843.18
Total risks written in 1878.....	448,238.00
In 1879.....	2,108,555.00

The Largest Business ever done by any Insurance Company in the same length of time, dating from its Organization.

The Cedar Rapids Insurance Company made the largest increase of premium receipts in 1879 as compared with 1878 of any company doing business in Iowa.

The following is taken from the Companies' sworn report to the Auditor, and shows the respective loss or gain in the premium receipts of 1879 as compared with 1878:

American, Net loss.....	\$ 3,615.22
Burlington, Net gain.....	12,460.18
Continental, Net loss ..	17,094.99
Cedar Rapids, Net gain - - - -	\$36,421.23
Farmers, Net gain.....	7,974.35
Hawkeye, Net loss.....	19,147.75
State, Net gain.....	19,117.92
Watertown, Net loss.....	930.53

The following is a comparative statement of the business transacted by the Cedar Rapids Insurance Company in May, 1879 and 1880:

No. of Policies Issued in May, 1880.....	1,012
" " " " 1879.....	239
Amount of Premiums Received in May, 1880.....	\$18,673.19
" " " " 1879.....	\$ 3,692.08
Amount of Property Insured in May, 1880.....	902,308
" " " " 1879.....	182,397

This is the largest month's business ever done by any Insurance Company in the State of Iowa, and denotes a degree of popularity never before attained by any Company.