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1889

DESCRIPTIVE CATALOGUE
—OF—

SEEDS

GARDEN

FIELD ^{AND}

FLOWER

FERTILIZERS, &c

AGRICULTURAL ^{AND}

HORTICULTURAL

IMPLEMENTS

ROBERT C. REEVES,
185 AND 187 WATER STREET,

(Between Fulton Street and Burling Slip.)

NEW YORK.

TO MY CUSTOMERS.

I have the pleasure of presenting you my Seed and Implement Catalogue for 1889. If you have no use for it, I shall esteem it a favor if you will kindly hand it to some friend to whom it may be of service.

My Seed Department is under my personal supervision. No pains or expense have been spared to secure the very best Seeds from reliable growers.

I would call attention to the descriptions and directions given in the Catalogue, concerning each variety of Seeds and their culture. They are very full and explicit, and worthy of constant reference and study. The directions are derived from years of experience, and aim to meet the requirements of soil, climate and culture in and around New York. For more Northern and Southern localities, changes in the time of sowing, &c., are, of course, necessary, and will readily suggest themselves.

TERMS, &c.

My Terms are strictly Net Cash. All orders from unknown parties should be accompanied by remittance, or reference to some responsible house in this city.

To MAIL CORRESPONDENTS.—Seeds can be sent by mail to any part of the United States at the rate of eight cents per pound.

Parties ordering Seeds by mail will please write their name and Post Office address distinctly.

All orders by mail will receive prompt attention. Correspondence cheerfully answered.

PRICES OF BAGS.

Quarter Bushel,	- - - -	\$0 10	One Bushel,	- - - -	\$0 20
Half Bushel,	- - - -	15	Two Bushel (Seamless),	- - - -	25

Bags used in Packing Seeds will be credited at cost, if returned in good order within fifteen days from date of invoice. Return charges must be pre-paid.

WARRANTIES.

Irreproachable Seeds sometimes fail to germinate through many causes, one of the most common being heavy rains after sowing, and the consequent baking of the ground afterwards. The germination of seeds underground is caused and maintained by the formation of gases in the seed, which, in truth, consume the seed and nourish the sprouts until these are above ground, when the sun and air supply the necessary nutriment; a process which fails in case, by too deep sowing, or the ground forming a hard crust on the top, the seed is consumed before its sprouts have reached the surface of the ground. Besides, an untimely frost, or a very cold current of air passing over the shoots immediately on their appearance above ground, may destroy the whole process of vegetation; or want of moisture in the soil may prevent the seed from germinating at all. Then again, vermin, cutworms and other insects scarcely visible, may destroy a crop, unknown to the planter. And, finally, there are sometimes causes at work changing the habits and character of plants, which escape the closest observation, owing to conditions of temperature, and which are but little understood.

For the above reasons, I wish to state in this explicit form, that while I exercise the greatest care to have all seeds pure and reliable, I sell no seeds with warranty, express or implied, in any respect, and will not be in any way responsible for the crop. If the purchaser does not accept the Seeds on these terms, they must be returned at once.

ROBERT C. REEVES.

ROBERT C. REEVES,

185 & 187 WATER ST., NEW YORK.

SELECT LIST OF

GARDEN, FIELD & FLOWER SEEDS

EMBRACING

ALL THE BEST VARIETIES IN CULTIVATION,
WITH DIRECTIONS FOR THEIR CULTURE.

ARTICHOKE.

ARTICHAUT—*Alcachofa*—*Artichoker.*

French Green Globe..... $\frac{1}{2}$ oz., 30cts; $\frac{1}{2}$ lb., \$3.00.

Large Paris, very hardy..... $\frac{1}{2}$ oz., 75 cents.

Jerusalem, roots.....\$3.50 $\frac{1}{2}$ bush.; 25cts. $\frac{1}{2}$ quart.

CULTURE.—Deep, rich, light loam, not liable to retain water in Winter. Give plenty of well-rotted manure. Sow the seed the beginning of May; if dry weather, water frequently. The seedlings should be planted in rows three and a half feet apart, and three feet distant in the rows. They come to maturity the second year. When cold weather approaches they should be covered with coarse litter, and every Spring receive a good dressing of well-rotted manure, well worked in with a fork. The offsets may be taken off and the strongest used for new beds. A bed will last five or six years.

ASPARAGUS.

ASPERGE—*Esparrago*—*Spargel.*

Smalley's Early Defiance. This variety originated in New Jersey several years since. The "Sprouts are a pale green, of good size, very productive, and roots throwing off a great number of strong, well-developed shoots, which can be cut two weeks earlier than any other variety, and will continue bearing through the entire season, very tender, and of delicious flavor. Its earliness makes it a very desirable variety, either for private growers or market gardeners. Packets, 10 cts.; oz., \$0.25; $\frac{1}{4}$ lb., \$0.75; 1 lb., \$2.50. Roots, one year, 25 cts. per dozen, \$1.00 per hundred; two years, 30 cts. per dozen; \$2.00 per hundred.

Conover's Colossal.....10 cts. $\frac{1}{2}$ oz.; 40 cts. $\frac{1}{2}$ lb.

" " Roots, 2 years old... $\frac{1}{2}$ 1.000. \$7.00; $\frac{1}{2}$ 100. \$1.00.

Palmetto.....30 cts. $\frac{1}{2}$ oz.; \$3.00 $\frac{1}{2}$ lb.

" " Roots, 2 years old..... $\frac{1}{2}$ 100, \$1.50; $\frac{1}{2}$ 1,000, \$10.00.

CULTURE.—The seeds may be sown in the Fall, or as early as the season will permit in the Spring, in drills one foot apart. Keep free from weeds, and in the Spring of the second year, transplant into permanent beds, which may be made as follows. The ground should not be too wet, nor too strong, and should have a large supply of well-rotted manure, several inches thick, laid on, and then regularly trenched eighteen inches deep, mixing well the manure. If the ground be clayey or stiff, add sufficient sand to make it porous. The beds should be six feet wide, with walks two feet wide. Four rows of plants should be put in each bed, and the plants twelve inches distant in the rows. The crown of each plant should be about six inches below the level of the bed. Every Fall cut the stalks down, afterwards give a good dressing of manure, which turn under in the Spring without disturbing the roots. A slight dressing of salt in the early Spring is very beneficial.

ENGLISH DWARF BEANS.

FEVEDE MARAIS—*Haba*—*Grosse Bohnen.*

	$\frac{1}{2}$ bush.	$\frac{1}{2}$ qt.		$\frac{1}{2}$ bush.	$\frac{1}{2}$ qt.
Early Mazagan.....	\$4 00	\$0 25	Sword Long Pod.....	\$3 50	\$0 25
Broad Windsor.....	4 50	25	Green Nonpareil.....	4 00	25

CULTURE.—Broad Beans should be planted as early as possible after the ground is open, in order to get them into pod before the heat of Summer. When in pod, break off the tops of the plant to check growth. Plant and Hoe same as for Dwarf Beans. A strong soil suits them best.

The Ready Asparagus Buncher, \$3.00 (best in use.)

CARROT.CAROTTE—*Zanahoria*—*Möhren*.

	⌔ lb.	⌔ oz.		⌔ lb.	⌔ oz.
Extra Early Forcing.....	\$1 00	10	Improved Long Orange...	\$0 75	10
* Early Scarlet Horn.....	1 00	10	Danver's Half Long Orange	75	10
Half Long Red, pointed....	75	10	Large Orange Belgian.....	75	10
Half Long Red, stump rooted	75	10	Long White.....	50	10

CULTURE.—Sow * as early as the ground can be worked, or for late crop, until latter part of July; for main crop, sow from the middle of May to first of July. Thin out early crop to five inches in row; main crop six to seven inches, the rows ten inches apart for early crop; fourteen for main crop. Hoe often and deeply between rows. Soil, light sandy loam, richly manured and deeply dug.

CAULIFLOWER.CHOU-FLEUR—*Coliflor*—*Blumenkohl*.

Extra Early Dwarf Erfurt..... ⌔ pkt., 50c.; ⌔ ounce, \$8.00.
Early Snowball..... " 25c.; " 3.50.

	⌔ lb.	⌔ oz.		⌔ lb.	⌔ oz.
Early Dwarf Erfurt ..	\$20 00	\$1 50	Walcheren.....	\$5 50	\$0 50
Algiers.....	11 00	80	Late London.....	4 50	40
Early Paris.....	11 00	80	Lenormands.....	11 00	80
Nonpareil.....	9 00	75	Autumn Giant.....	5 50	50
Early London.....	4 50	40	Stadtholder.....	5 00	50

CULTURE.—Sow in light, rich soil, about the 20th of August to the middle of September, to transplant into cold frames and protect through the Winter, and transplant early in Spring, to head in June; or sow in hot-bed in February; transplant the latter part of March into another frame, and plant out early in May to head at the same time. Plant three feet by two. For Autumn, or main crop, sow in open situation in May, and transplant in July. Soil must be rich and deep, and if dry weather, water liberally. As the flower heads appear, the large leaves should be broken down over them to keep the sun and rain from injuring them.

CELERY.CELERI—*Apio*—*Sellerie*.

	⌔ lb.	⌔ oz.		⌔ lb.	⌔ oz.
Improved White Plume...	\$5 00	50	Dwarf Crimson.....	\$2 50	25
Half Dwarf Golden Heart.	3 00	30	Sandringham Dwarf White	1 50	20
Crawford's H'f Dw'f White	3 00	30	Giant White Solid.....	2 50	25
Golden Self Blanching.....	9 00	80	Celeriac, or Turnip Rooted	1 25	20
Boston Dwarf.....	3 00	30	Celery for Flavoring.....	40	10

CULTURE.—Sow early in Spring in a seed-bed half an inch deep, at any time after night frosts are gone, or on a slight hot bed if wished early. Thin out the plants, when up, to an inch apart, or transplant into a second bed three inches apart. When the plants are strong, dig trenches five feet apart and fifteen inches wide; dig each trench a moderate spade deep, put four inches of well rotted dung all over the bottom of each trench, then pare the sides, and dig the dung and parings with an inch or two of loose mould at the bottom, incorporating all well together, and put in the plants in two rows of six inches apart, and eight inches apart in rows. Give a good watering after planting, and earth up as the plants make growth. For the Dwarf variety trench but half the depth. The Turnip-rooted variety does not require trenches at all; ordinary garden culture is all that is necessary.

CHERVIL.CERFEUIL—*Perifollo*—*Bensenlauch*.

Curled.....15 cents ⌔ oz.; \$1.00 ⌔ lb.
Tuberous20 cents ⌔ oz.; \$2.50 ⌔ lb.

CULTURE.—Cultivate and use like Parsley. Sow at any time in the Spring, in shallow drills, one foot apart. The Tuberous Chervil should be sown in August or September, and treated like the Carrot.

Imperial Egg Food, 1 lb., 50c.; 2½ lb., \$1.00; 6 lb., \$2.00
10 lb., \$3.00; 25 lb., \$6.25

COLLARDS.CHOU-CABU—*Cabu*—*Blatterkohl*.Georgia Grown.....15 cents $\frac{1}{2}$ oz.; \$1.25 per lb.

CULTURE.—Sow seeds as for cabbage, in June, July and August, for succession. Transplant when one month old, in rows a foot apart each way, and hoe frequently.

CORN.MAIS—*Maiz*—*Mais*.

FOR GARDEN CULTURE.

	$\frac{1}{2}$ ear, 5 cts.,	$\frac{1}{2}$ quart, 20 cts.	$\frac{1}{2}$ bushel, \$4 00
Tom Thumb.....	" 5 "	" 20 "	" 4 00
Early Cory.....	" 5 "	" 20 "	" 4 00
Perry's Hybrid.....	" 5 "	" 20 "	" 4 00
Early Marblehead.....	" 5 "	" 20 "	" 4 00
Early Minnesota Sugar....	" 5 "	" 20 "	" 4 00
Early Narragansett Sugar..	" 5 "	" 20 "	" 4 00
Triumph Sugar.....	" 5 "	" 20 "	" 4 00
Moore's Early Concord Sugar	" 5 "	" 20 "	" 4 00
Early Crosby Sugar....	" 5 "	" 20 "	" 4 00
Early Eight-Rowed Sugar.	" 5 "	" 20 "	" 4 00
Egyptian Sugar.....	" 5 "	" 20 "	" 4 00
Pee and Kay.....	" 5 "	" 20 "	" 4 00
Mammoth Sugar.....	" 5 "	" 20 "	" 4 00
Stowell's Evergreen Sugar.	" 5 "	" 20 "	" 4 00
Black Sugar.....	" 5 "	" 20 "	" 4 00
Early Adams.....	" 5 "	" 20 "	" 4 00
Hickox.....	" 5 "	" 20 "	" 4 00
Common and Rice Pop....	" 3 "		

CULTURE.—Plant in hills three feet apart each way, and five or six in a hill. Hoe often and draw soil up to the stems; break off side shoots. Make the ground rich with well-rotted manure.

CORN.FOR FIELD CULTURE—*Mais pour la Grande culture*.

	$\frac{1}{2}$ bushel, \$2 00	ears $\frac{1}{2}$ 100 \$2 50
Compton's Early.....	" 2 00	" " 2 50
Golden Beauty.....	" 2 00	" " 2 50
Queen of the Prairie.....	" 3 00	" " 3 00
Self Husking.....	" 2 00	" " 2 50
Chester County Mammoth.....	" 2 00	" " 2 50
Long White Flint.....	" 2 00	" " 2 50
White Sanford.....	" 2 00	" " 2 50
Early Canada.....	" 2 00	" " 2 50
King Philip.....	" 2 00	" " 2 50
Eight-Rowed Yellow Flint.....	" 2 00	" " 2 50
Southern Fodder.....	" 1 25	
Sweet Fodder.....	" 1 75	

CORN SALAD, or FETTICUS.MACHE—*Mach é*—*Valerianilla*—*Stecksalat*.

Large Seeded	10 cents $\frac{1}{2}$ oz.; \$0 75 $\frac{1}{2}$ lb.
Small Seeded.....	10 " " 0 75 "

CULTURE.—Sow during August, or early in September, in drills a quarter of an inch deep and six inches apart. If dry weather, tread in the seed lightly. Keep down weeds with hoe. Just before the first of Winter cover thinly with clean straw or leaves. A delicious hardy salad.

CRESS.CRESSON.—*Berro é*—*Mastuerzo*—*Kresse*.

	$\frac{1}{2}$ lb. \$0 50	$\frac{1}{2}$ oz. \$0 10	$\frac{1}{2}$ oz. \$0 40
*Curled or Peppergrass..			
*Broad-Leaved.....	50	10	75
Broad-Leaved Winter....	75	10	
True Water Cress.....			
Erfurt Sweet Water Cress.....			

CULTURE.—Sow* thickly, in shallow drills, every two or three weeks. Curled should be cut often, and it will continue to grow; it is useful not only for salad, but for the breakfast table and for garnishing. Sow Winter, which is quite hardy, early in Spring, at midsummer, and also in the Autumn, in rich ground. This will furnish a

Denton's "Acme" Fertilizer Distributor, \$18.00.

supply from September until the following May. In hot weather it becomes too strong to be agreeable. An excellent substitute for Water Cress. Sow Water Cress on a stream of running water, or in any moist location in which it will grow without care, except keeping, at first, weeds from interfering with it; also in frames for Winter Salads. Water Cress is delicious cultivated in pots in greenhouses, or will thrive well in hot-beds.

CUCUMBER.

CONCOMBRE—*Pepino*—*Gurken*.

	lb.	oz.		lb.	oz.
Early Russian.....	\$1 00	10	Long Green Turkey....	\$1 25	15
Early Short Green.....	1 00	10	Boston Pickling.....	1 00	10
Improved White Spined...	1 00	10	Extra Long Grecian.....	3 00	30
Extra Long White Spined.	1 00	10	Green Prolific (Westchester		
Early Green Cluster.....	1 00	10	Pickling).....	1 00	10
Long Green.....	1 00	10	Small Gherkin (Burr)....	2 00	20

CULTURE.—In February and March plant seed in hot-bed, or in April in cold-frame, well covered. Plant out in rich, newly dug ground, in hills or ridges, when night frosts are gone, and cover up with Hand or Bell Glasses. In frames, protect well at night; give air in day; avoid winds; shade from mid-day sun. Keep up heat when grown early in the year by hot dung lining as temperature of bed subsides. Stop the leading shoots continually as the fruit shows. Or plant the seed in open ground as soon as the weather becomes settled and warm, in hills four feet apart. Use a shovelful of warm manure to each hill, which cover with an inch or two of earth; scatter eight or ten seeds to a hill, cover half an inch deep with fine earth, and press it down. Hoe often, and when out of danger from insects, thin the plants to four in a hill.

CUCUMBER.

ENGLISH VARIETIES FOR FRAMES.

Packets contain five to fifteen seeds each.

	pkt.		pkt.
Carter's Tender and True.....	\$0 25	Lord Kenyon's Favorite	\$0 25
Duke of Edinburgh.....	25	Prize Fighter.....	25
General Grant.....	25	Goliath.....	25
Giant of Arnstadt.....	25	Telegraph.....	25
Bismark.....	25	Lynch's Star of the West.....	25
Blue Gown.....	25	Lancashire Witch.....	25
Marquis of Lorne.....	25	Cuthill's Black Spine.....	25
British Volunteer.....	25	Improved Sion House.....	25
Invincible.....	25	Swan's Neck.....	25

DANDELION.

PISSENLIT.

French Seed, 20 cents $\frac{7}{8}$ ounce; \$2.00 $\frac{7}{8}$ pound.

CULTURE.—The Dandelion is a hardy perennial plant, and one of the most desirable early Spring Salads. Sow in May or June, in drills half an inch deep, and ten inches apart; in July or August thin out the plants to three inches apart. Keep clear of weeds during the Summer, and in April of the ensuing Spring the plants will be fit for the table.

EGG PLANT.

AUBERGINE—*Berèngena*—*Eierpflanze*.

	lb.	oz.		lb.	oz.
Early Dwarf Purple	\$3 00	30	Scarlet Chinese (Beautiful).....	\$0 40	
Long Purple.....	2 00	20	Striped.....	30	
New York Purple	5 00	50	Round White	30	
Black Pekin (fine).....	4 00	40	Long White.....	30	

CULTURE.—Sow in hot-beds very early in Spring; transplant when two inches high, into a second bed; if that is not done, thin to four inches apart. Do not plant out till the weather becomes perfectly settled and warm, and cover up with Hand Glass. Cool nights or wet weather will check them. Keep some back in frames for a second planting, in case of weather changing unexpectedly. Keep plants watered for a few days, if the sun is hot when put out. *When the plants have grown to about a foot in height, cut them down six inches, promoting thereby more abundant fruiting.* Keep them tilled by the hoe, and draw earth up as for Cabbage.

Creamery and Dairy Fixtures.

ENDIVE.CHICOREE—*Escarola o Endivia—Endivien.*

	lb.	oz.		lb.	oz.
Green Curled.....	\$1 50	20	Wild, or Chicory.....	\$ 75	10
White Curled.....	2 00	20	Broad-Leaved Escarolle...	2 00	20

CULTURE.—Sow Escarolle early in Spring; other varieties from latter part of May to end of July. Sow thin and cover slightly. When up, thin out to eight inches apart, and give a good watering afterwards, if dry. When leaves are six or eight inches long, blanch them by gathering the leaves in the hand and tying them together near the top with yarn or bast. This must be done when quite dry, or they will rot. At the approach of Winter, the growing crop may be taken up carefully; with ball of earth to each plant, and placed close together in frame or cellar for use, but they must be kept dry, and have plenty of air, or they will rot.

GARLIC.Ail—*Ajo—Knoblauch.*

Sets, 35 cents per lb.

CULTURE.—Light rich soil. Plant the sets in rows six inches apart and about two inches deep. Leave a foot between the rows, which keep hoed deeply. When the leaves turn yellow, take up the crop.

ICE PLANT.

FICOIDE GLACIALE.

Clean Seed, per packet, 5 cents; per oz., 50 cents.

CULTURE.—Sow in good garden soil as soon as ground becomes warm in Spring in shallow drills. A desirable vegetable for boiling like Spinach, or for garnishing.

KALE.CHOU VERT FRISE—*Col—Blatterkohl.*

	lb.	oz.		lb.	oz.
Green Curled Scotch.....	\$1 00	10	Mosbach Winter.....	\$1 00	10
Brown German Curled....	1 00	10	Garnishing.....	2 50	25
Siberian (German Greens) .	75	10	Sea Kale.....	3 00	30

CULTURE.—All are cultivated and grown exactly like Cabbage, except Siberian and Sea Kale. Siberian sow in September for early Spring Greens. Sea Kale sow early in Spring in a frame, transplant to another bed, six inches apart, in six weeks' time. Dig and manure highly a piece of ground, and plant out in hills three feet apart, and three plants in each hill, about the end of July. Before Winter, cover these with litter or leaves. The following Spring uncover and dig in manure. Keep them well cultivated through the Summer, and the following Autumn it will begin to produce a crop. Salt is a good manure to be given to this plant, as well as to Asparagus.

KOHLRABI, or Turnip-Rooted Cabbage.CHOURAVE—*Colinabo.*

*Early White Vienna.....	lb.	\$2 50	oz.	25
Early Purple Vienna.....	"	3 50	"	30
Large White or Green.....	"	1 50	"	15

CULTURE.—Sow * for early forcing and also for general crop. This is a delightful vegetable and should be grown in every garden. May be sown from April to July, and the plants afterwards treated the same as Cabbage, only that in earthing up the plants you must be careful not to cover up the globular part. Set out in drills one foot apart, and ten inches in the drills.

LEEK.POIREAU—*Puerro—Porro.*

Large Flag.....	oz.	20 cents.	lb.	\$2 00
Large Rouen.....	"	20 "	"	2 00
Large Carenton.....	"	20 "	"	2 00

CULTURE.—Sow very early in Spring, in drills six inches apart, and one inch deep. Thin out to one inch apart. When they are about seven inches high plant them out in rows eight inches apart, and as deep as possible, so as not to cover the young centre leaves. Water thoroughly, if dry weather when planted out. Draw earth up to them as they grow. Require very rich soil. Take up and store away before Winter weather.

The "Long Island" Seed Drill \$8.00.

LETTUCE.

LAITUE—*Lechuga*—*Salat*.

	⌔ lb.	⌔ oz.		⌔ lb.	⌔ oz.
*White Forcing Head....	\$2 00	\$0 20	Buttercup.....	\$2 00	\$0 20
Early Curled Silesia.....	1 50	20	True Boston Market	1 50	20
* " " Simpson... 1 50		20	Ice Drumhead.....	1 00	15
*Black Seeded " .. 2 00		20	Salamander Head.....	1 50	20
American Gathering (fine) 1 50		20	All the Year Round.....	1 50	20
Satisfaction.....	1 50	20	Large Yellow Butter	1 50	20
*Tennisball or Boston ... 2 00		20	Brown Dutch.....	1 50	20
Hanson.....	1 50	20	White Cos.....	2 00	20
Victoria Cabbage.....	1 25	20	Green Cos.....	2 00	20
White Cabbage.....	1 25	20	Hardy Green Winter	1 50	20
Golden Stone Head... .. 2 00		20	Brown Winter Cabbage..	1 50	20
American Oak Leaved.. 2 00		20	Perpetual.....	1 50	20

CULTURE.—Sow* in frames, in March, and in the open ground as early as it opens, and transplant in rows eight inches apart. Sow in a month's time same varieties again, as also Cos for succession. In August sow any of the varieties, except Winter sorts, which should be sown in September. In October some of these may be planted in frames to head in Winter and early Spring. Always sow thin, and thin out well, or the plants will not be strong. The last Spring sowing had better be grown where sown, being thinned out to six or eight inches apart. To have Cos in good order, they must be sown in hot-bed early in the year and transplanted in a cold frame, so as to have them good plants to set out at the opening of the ground. They require tying when grown, for a few days to blanch. Lettuce requires good ground and moisture in abundance. Hoe carefully every week.

MARTYNIA.

FOR PICKLES.

Craniolaria.. ⌔ lb., \$3 00; ⌔ oz., \$0 30 | *Proboscidea*.. ⌔ lb., \$3 00; ⌔ oz., \$0 30

Both are productive and fine for Pickles.

CULTURE.—Plant in May, in the open ground, three feet apart in each direction, where the plants are to remain, leaving only one plant in each hill; or the seed may be sown in a hot-bed, and the seedlings afterwards transplanted.

MUSK MELON.

MELON MUSCADE—*Melon Muscatel*—*Xantalupen*.

	⌔ lb.	⌔ oz.		⌔ lb.	⌔ oz.
Golden Perfection... ..	\$2 00	\$0 20	Jenny Lind.....	\$1 00	\$0 15
The Surprise.....	1 00	15	Emerald Gem	1 50	20
Fine White Japan.....	1 00	15	Sill's Hybrid.....	1 00	15
Fine Nutmeg	1 00	15	Ward's Nectar	1 00	15
Baltimore Market.....	1 00	15	Hackensack.....	1 00	15
Orange Christina	1 00	15	Golden Netted Gem....	1 00	15
Hybrid Bay View.....	1 00	15	Yellow Cantelope.....	1 00	15
Green Montreal.....	1 00	15	Banana Citron.....	1 50	20
Green Citron.....	1 00	15	Pomegranate for Perfume.	5 00	50

ENGLISH VARIETIES—FOR FRAMES.

Invincible Scarlet..... ⌔ pkt., \$0 25 | Monroe's Little Heath... ⌔ pkt., \$0 25
The Squire..... " 25 | Dr. Hogg..... " 25

CULTURE.—Sow in hills six feet apart each way, six to twelve seeds in each, and thin out to two or three plants when in a state of forwardness. It is a good plan to make a hole for each hill, two feet wide, in which dig some rotted stable manure or burnt sods. Dust a little soot or wood ashes on the growing plants, when up. Pinch off, to make them branch when they begin to run. Lay them out evenly to cover the ground, which keep clear from weeds at all times. A light but rich soil suits them best.

Ice Plows and Tools.

WATER MELON.MELON D'Eau—*Zandia*—*Wassermelonen*.

	per lb.	per oz.		per lb.	per oz.
Green and Gold.....	\$1 50	\$0 20	Vick's Early.....	\$1 00	\$0 15
The Boss (fine).....	1 00	15	Cuban Queen.....	75	10
Kolb Gem.....	75	10	Oemler's Triumph.....	6 00	60
Pride of Georgia.....	1 00	15	Mountain Sweet.....	75	10
Mammoth Iron Clad.....	75	10	Goodwin's Imperial.....	1 50	20
Excelsior.....	1 00	15	Ice Cream or Strawberry.....	75	10
Scaly Bark.....	1 00	15	Apple Pie Melon.....	75	10
Sculptured Seeded Japan.....	1 00	15	Orange.....	1 50	15
Early Mountain Sprout... ..	75	10	Phinney.....	75	10
Striped Gipsy.....	75	10	Improved Rattlesnake... ..	75	10
Black Spanish.....	75	10	Citron for Preserves.....	75	10

CULTURE.—Same as Musk Melon, except that the hills should be eight feet apart each way.

MUSHROOM SPAWN.BLANC DE CHAMPIGNON—*Seta*—*Champignonbrut*.

English Spawn.....12 cents per lb.; 10 lbs. for \$1.00

CULTURE.—Mushroom beds are best made under cover. Any cellar or shed will do. Collect a quantity of fresh stable manure, without the long straw, and turn it over daily for six or eight days to get rid of the rank heat. Dig out a foot and a half deep of the space to contain the bed. Lay some long manure at bottom, and then the prepared dung a little at a time, evenly and well beaten down, till it is a foot and a half high; put a layer of light earth on this one inch thick, then another layer dung, principally horse droppings. In eight or ten days, or as soon as the heat has declined to about 70°, or just to feel a little warm to the finger, insert lumps of Spawn the size of hen's eggs, ten inches apart, and just even with the surface of the bed, and cover with earth an inch thick. Beat it all gently down, and immediately inclose the bed all around and over the top with a wall of warm dung previously well prepared by turning over to temper and sweeten it, and, if out of doors, keep off rain by mats or thin boards.

MUSTARD.MOUTARDE—*Mostaza*—*Senf*.

	per lb.	per oz.		per lb.	per oz.
White London.....	\$0 30	\$0 05	Black.....	\$0 25	\$0 05

CULTURE.—Sow thickly during April and early in May, in shallow drills; press the earth well down. For Fall Salad, sow in September; or in frames or boxes, in any outhouse during the Winter. Sow very thickly.

NASTRUTUM.CAPUCINE—*Maranuela*—*Nasturtium*.

Tall Mixed. 15 cents per oz.; \$1.00 per lb. | Dwarf Mixed. 25 cents per oz.; \$2.00 per lb.

CULTURE.—Sow in June or July, in drills about an inch deep; the Tall kind near fences or poles on which they can climb and have support. If left to trail upon the ground the fruit is apt to be injured.

OKRA.GOMBO—*Quimbombo*—*Safran*.

Improved Dwarf... ..per lb., \$1.00 per ounce, 10 cents.

Long Green.....per lb., 1 00 per ounce, 10 cents.

CULTURE.—Plant late in Spring, after the ground has become warm, in drills three feet apart, where the plants are to remain. Thin out to nine inches. They should be well manured.

ONION.OIGNON—*Cebolla*—*Zwiebeln*.

	per lb.	per oz.		per lb.	per oz.
Queen (Early White).....	\$2 00	\$0 20	Pale Red Bermuda.....	\$1 50	\$0 20
White Tripoli.....	2 00	20	Yellow Strasburg.....	1 50	20
White Globe (Extra Fine).....	2 50	25	Ruby King.....	2 50	25
White Portugal.....	2 50	25	Welsh (for Salad).....	2 00	20
Early Red Bristol.....	2 00	20	Red Top Onions.....	per qt.,	25
Large Red Wethersfield..	2 00	20	Potato Onions.....	"	25
Red Globe.....	2 00	20	Red Onion Sets.....	"	25
Yellow Danvers.....	2 00	20	Yellow Onion Sets.....	"	20
Yellow Globe.....	2 00	20	White Onion Sets.....	"	25
Giant Rocco.....	1 25	15	Shallots.....	"	30

The "Queen" is small, but the earliest and one of the best introduced for years.

No. 1. Peruvian Guano: warranted pure.

CULTURE.—Rich soil, deeply dug, and then lightly rolled. Sow first nine varieties moderately thick, in drills one inch deep and twelve inches apart; as soon as the ground is open in the Spring, thin to three inches apart. Keep down weeds but avoid covering the bulbs. Welsh should be sown last of August or early in September, and will produce new leaves for Salad early in Spring. Onion Sets and Tops are placed on the surface, in shallow twelve inch drills, about four inches apart, but not covered. Potato Onions plant in Spring or Fall, as they will survive the Winter if slightly covered with dung.

ORACH, or French Spinach.

ARROCHE.

Red..... $\frac{3}{4}$ lb., \$1.00; $\frac{3}{4}$ oz., 15cts. | White..... $\frac{3}{4}$ lb., \$1.00; $\frac{3}{4}$ oz., 15cts.

CULTURE.—Sow early in Spring, and cultivate and use like Spinach.

PARSLEY.

PERSIL—*Perijil*—*Petersilie*.

	$\frac{3}{4}$ lb.	$\frac{3}{4}$ oz.		$\frac{3}{4}$ lb.	$\frac{3}{4}$ oz.
Extra Curled (Myatt's Gar-nishing).....	\$1 00	10	Plain.....	\$0 50	10
Moss Curled.....	1 00	10	Fern Leaved.....	1 00	10
			Hamburg or Rooted.....	1 00	10

CULTURE.—Soak the seeds a few hours in lukewarm water, and sow early in Spring, in drills an inch deep and one foot apart. Thin out the plants to four inches apart. To preserve in Winter, transplant some, and set them in a light cellar. Hamburg should be thinned out while young, and managed the same as Carrots or Parsnips.

PARSNIP.

PANAIS—*Chirivia*—*Pastinake*.

	$\frac{3}{4}$ lb.	$\frac{3}{4}$ oz.		$\frac{3}{4}$ lb.	$\frac{3}{4}$ oz.
Sutton's Student.....	\$0 60	\$0 10	Long White.....	\$0 60	\$0 10
Guernsey, or Cup.....	60	10	Early Round.....	60	10

Culture.—Sow as soon as the ground opens in Spring, in drills one inch deep and fifteen inches apart. When plants are two or three inches high, thin out to seven inches in row. Hoe often. Soil should be deep and rich.

PEAS.

Pois—*Chicaros* & *Guisantes*—*Erbsen*.

EXTRA EARLY.

	Height.	$\frac{3}{4}$ bush.	$\frac{3}{4}$ qt.
Reeves' Extra Early Market.....	2 $\frac{1}{2}$ feet.	\$5 00	25
Caractacus.....	2 $\frac{1}{2}$ "	5 00	25
*Laxton's Earliest of all.....	2 $\frac{1}{2}$ "	5 00	25
Rural New Yorker.....	2 $\frac{1}{2}$ "	4 50	25
*Alpha (Extra Early Wrinkled, and best of all).....	3 "	5 00	25
Carter's "First Crop,".....	2 $\frac{1}{2}$ "	5 00	25
Daniel O'Rourke (improved—fine).....	2 $\frac{1}{2}$ "	5 00	25
First and Best.....	2 $\frac{1}{2}$ "	4 50	25
Improved Philadelphia (extra early—fine).....	2 $\frac{1}{2}$ "	4 50	25
Alaska.....	2 $\frac{1}{2}$ "	5 00	25

EARLY.

Kentish Invicta (best for canning).....	.4 "	4 00	25
*McLean's Advancer (fine).....	.2 $\frac{1}{2}$ "	5 00	25
Laxton's Prolific Long Pod.....	.4 "	4 00	25

GENERAL CROP.

*Ever Bearing.....	2 $\frac{1}{2}$ "	5 50	30
Pride of the Market (sow thin).....	.2 "	8 00	40
*Champion of England.....	.5 "	4 50	25
Blue Imperial (fine).....	2 $\frac{1}{2}$ "	4 00	25
Dwarf Sugar (edible pods).....	.2 "	8 00	35
Tall Sugar (edible pods).....	.5 "	8 00	35
*Wrinkled Sugar (edible pods—fine).....	2 $\frac{1}{2}$ "	10 00	50
*Yorkshire Hero (sow thin).....	2 $\frac{1}{2}$ "	5 00	30
Prince of Wales.....	.3 "	6 00	30

Wright's 'Excelsior' Comb'd Cultivator & Hilling Plow, \$10.00.

PEAS.—Continued.**LATE CROP.**

	Height.	⌘ bush.	⌘ qt.
White Marrowfat.....	5 feet.	\$2 50	\$0 20
Black Eyed Marrowfat.....	3 "	2 50	20
*British Queen.....	5 "	5 00	25
*Carter's Telephone.....	4 "	10 00	40
Canada Field.....	3 "	1 50	15

DWARF VARIETIES—WITHOUT BRUSH.

McLean's Blue Peter (extra early).....	8 inches.	6 00	30
*Stratagem.....	18 "	10 00	40
*Abundance.....	18 "	6 00	30
*Premium Gem (extra early).....	1 foot.	5 00	25
*McLean's Little Gem (fine extra early).....	1 foot.	5 00	25
*American Wonder (true and earliest grown).....	8 inches.	6 00	30
Tom Thumb (extra early).....	9 inches.	5 00	25
Bishops Long Pod.....	15 inches.	4 00	25

Those marked * are Wrinkled Marrows, and should be sown thicker than the Round Peas, as they are more liable to rot. They are the finest flavored of all the Peas.

CULTURE.—Light, dry soil, not over rich, suits the Pea. Plant as early as the ground can be worked, and again every two weeks for succession, throughout the season. Plant in single or double rows, from four to six feet apart, according to the different heights, about an inch apart in the row, and four inches deep. In Summer, plant six to eight inches deep. Hoe often. The tall sorts can be made to bear more freely by pinching in.

PEPPER.**PIMENT—Pimiento—Pfeffer.**

	⌘ lb.	⌘ oz.		⌘ lb.	⌘ oz.
Sweet Golden Dawn.....	\$3 00	\$0 30	Long Cayenne (Red).....	\$3 00	\$0 30
Red Cherry.....	3 00	30	Long Cayenne (Yellow)...	3 00	30
Red Chili (for Pepper Sauce).....	3 00	30	Large Bell.....	3 00	30
Sweet Spanish (for Salad).....	3 00	30	New Oxheart.....	3 00	30
Sweet M'tain (for Mangoes).....	3 00	30	Cranberry.....	3 00	30
Large Squash.....	3 00	30	Ruby King.....	5 00	50

CULTURE.—Sow in hot beds in March, or in open ground in a seed-bed in middle of Spring, in light, warm ground. When three inches high, transplant to eighteen inches apart each way, and cover with Hand Glass. Hoe frequently.

POTATO.**POMME DE TERRE—Patata—Kartoffel.**

The prices may vary as the season advances.

The following are the leading kinds. Can furnish many others, if desired.

	Bushel.	Barrel.
Clark's No. 1, resembles Early Rose, but earlier.....	\$1 50	\$3 50
Early Puritan, white skin and flesh, medium early.....	2 50	5 50
Charles Downing, fine form, good quality.....	1 50	3 50
The Blush, bluish skin, flesh slightly tinged with pink, heavy yielder.	1 50	3 50
Beauty of Hebron, the best early yet introduced, pure white skin and flesh.....	1 50	3 50
Early Sunrise, resembles Early Rose.....	1 50	3 50
Pearl of Savoy, white flesh, large yielder.....	1 50	3 50
Early Vermont, habit of Early Rose, but earlier.....	1 50	3 50
Early Maine, another seedling of Early Rose.....	1 50	3 50
Morning Star, a seedling of Beauty of Hebron.....	1 50	3 5
Early Rose, bluish skin and white flesh.....	1 50	3 2
Mayflower, resembles snowflake but earlier.....	1 50	3 5
St. Patrick, white skin and flesh.....	1 50	3 5
Rose's Beauty of Beauties, seedling of the Peach Blow, large yielder, white flesh, good quality.....	1 50	3 50
Late Rose, hardy and productive.....	1 50	3 50
White Elephant, of all Winter sorts the best.....	1 50	3 50
Empire State, white skin and flesh-productive.....	1 50	3 50
Dakota Red, red skin, white flesh.....	1 50	3 50
White Star, white flesh, fine floury texture.....	1 50	3 50
Late Beauty of Hebron, resembles White Elephant.....	1 50	3 50

CULTURE.—To grow healthy Potatoes and free from rot, it is necessary to plant them very early in the season, in good, rich soil that has been liberally manured the previous year. When the plants make their appearance above ground, apply to each

Aspinwall Potato Planter, with Fertilizer Attachment \$90.00.

hill a double handful each of wood ashes and plaster mixed; if kept free from weeds, a large crop will be the result. To have potatoes VERY EARLY, the seed must be *sprouted*, i. e., it must have made an advancement in growth of at least an inch. The sprout should be strong and well developed; its thickness about that of the stem of a common tobacco pipe, and its top crowned with green buds just bursting into leaf; at the bottom of the sprout are emitted, or in the course of emission, small, thread-like roots, which as soon as planted, take possession of the soil. Here is the great secret of obtaining *early* Potatoes.

To acquire this stage of advancement many expedients are resorted to. It is the natural habit to sprout early, indeed oftentimes there is a difficulty in retarding this movement, for, if the sprout is too long it runs great risk of being knocked off in course of setting. The mode generally adopted is, in January and February, place them in baskets, not over a peck in each, in a room that is *light and warm*.

PUMPKIN.

POTIRON—*Calabaza*—*Grosse Kurbis*.

	per lb.	per oz.		per lb.	per oz.
Large Cheese.....	\$0 60	10	Improved Mammoth.....	\$2 00	20
Cushaw.....	75	10	Golden Yellow.....	60	10
Black Sugar.....	1 00	10	Connecticut Field.....	per qt.,	25

CULTURE.—May be planted middle of Spring, among the Indian Corn, or in the field or garden in hills eight or ten feet apart each way, four seeds in a hill. In other respects, are cultivated in the same manner as Melons and Cucumbers; but avoid planting them anywhere near other vines.

RADISH.

RADISET RAVE—*Rabanos* and *Rabantos*—*Radies* und *Rettig*.

	per lb.	per oz.		per lb.	per oz.
Extra Early Deep Scarlet Turnip.....	\$0 60	10	Giant Stuttgart Summer..	\$1 00	10
French Breakfast.....	60	10	Long Purple.....	75	10
Wood's Early Frame.....	60	10	Long White Naples.....	75	10
Early Scarlet Turnip.....	60	10	White Summer Turnip....	75	10
Early Scarlet Turnip with white tip—(fine).....	60	10	Yellow " ".....	75	10
Early White Turnip.....	75	10	Purple " ".....	75	10
" Yellow ".....	75	10	Gray " ".....	75	10
Scarlet Olive-shaped.....	60	10	*Black Spanish.....	75	10
White ".....	75	10	*White Spanish.....	75	10
Long Scarlet Short Top (Covert Garden).....	60	10	*Scarlet Chinese Winter..	1 00	10
Improved Chartier, long..	75	10	*California (Large White Winter).....	1 00	10
			Raphanus Caudatus, or Edible Pod Radish.....		40

Scarlet Chinese is the best Winter sort; keeps like a Turnip.

CULTURE.—Sow first eight varieties as early in Spring as the ground can be worked, and every two weeks till the 15th of June, from which time sow Summer varieties till first of September. *Should be sown from first of August to the first of September. A light rich soil suits best.

RHUBARB, or Pie Plant.

RHUBARBE—*Ruibarbo*—*Rhabarber*.

Linnaeus...25 cts. per oz.; \$1 50 per lb. | Roots.....10 cts. each; \$1 00 per doz.

CULTURE.—Sow in drills an inch deep; thin out to six inches apart. In the Fall trench a piece of ground and manure it well; then transplant the young plants into it, three feet apart each way; cover with leaves or litter the first Winter, and a dressing of coarse manure should be given every Fall.

ROQUETTE.

Per lb.....\$1.00. Per ounce.....10 cents.

CULTURE.—Sow early in Spring, in rows, and thin out to eight or ten inches.

Patent Flexible Metal and Porcelain Lined Pumps.

SALSIFY, or Vegetable Oyster.SALSIFIS—*Ostion Vegetal*—*Zaferwurzel*.**Long White**..... $\frac{7}{8}$ lb., \$2.00; $\frac{7}{8}$ oz., 20 cents.

CULTURE.—Sow as early as the ground can be worked in the Spring, in drills twelve inches apart, and inch deep, and thin out to six inches in row. Keep them clear from weeds. Cultivate the same as for Carrots and Parsnips.

SAVOY.

CHOU FRISE DE MILAN.

New Tom Thumb Savoy, very fine..... $\frac{7}{8}$ oz., 40 cents.**Feather Stem**, a delicious vegetable..... “ 40 “**Dalmeny Sprouts**. (Hybrid of Savoy and Brussel's Sprouts) “ 40 “**CULTURE.**—Same as for Brussel's Sprouts.**SCOLYMUS (Spanish Oyster Plant).**

A vegetable from Spain. The root resembles a small Parsnip, and will keep through the Winter like a Turnip. It is cultivated precisely like the Carrot and boiled like Salsify. 20 cents $\frac{7}{8}$ oz., \$2.00 $\frac{7}{8}$ lb.

SCORZONERA.SCORZONERE—*Escorconera*—*Scorzionwurzel*.20 cents $\frac{7}{8}$ oz., \$2.00 $\frac{7}{8}$ lb.**CULTURE.**—Cultivate precisely in the same manner as Salsify.**SKIRRETT.**CHERVIS—*Zuckerwurzel*.30 cents $\frac{7}{8}$ ounce.

CULTURE.—Sow in drills half an inch deep and a foot apart; thin out to eight inches in a row; keep down the weeds. Take up the roots before Winter, and store in sand or earth.

SORREL.OSEILLE—*Acedera*—*Sauerampfer*.**Garden**.....10 cents $\frac{7}{8}$ ounce; \$1.00 $\frac{7}{8}$ lb.**CULTURE.**—Sow in the Spring, in drills six or eight inches apart.**SPINACH.**EPINARDS—*Espinaca*—*Spinat*.

	$\frac{7}{8}$ lb.	$\frac{7}{8}$ oz.		$\frac{7}{8}$ lb.	$\frac{7}{8}$ oz.
Large Viroflay	\$0 40	\$0 10	Prickly ...	\$0 40	\$0 10
Flander	40	10	Lettuce-Leaved	50	10
Round Leaved	40	10	New Zealand (Summer) ...	1 00	10
Round Savoy-Leaved ...	40	10	Long Standing	40	10
Curled Savoy or Bloomsdale (true)	40	10	New Thick Leaved ...	40	10

CULTURE.—Rich soil; sow a half inch deep, and a foot between the rows. Thin out to eight inches. Sow as soon as the frost is out of the ground, and hoe frequently to prevent the plant running to seed. For Winter crop sow end of August and in September. Lay straw between the rows at approach of Winter, and very thinly over the leaves.

SPROUTS.

CHOUX VERTS NON POMMES.

Spring, or Rape..... $\frac{7}{8}$ quart, 25 cents.**Winter, or Siberian Kale**..... $\frac{7}{8}$ lb. 0.75; $\frac{7}{8}$ oz. 10 cents.**CULTURE.**—Sow Spring variety very early in Spring, and Winter in September.

'New Process' Dog Biscuit, (in 25 lb. boxes,) 10c. per lb.

SQUASH.COURGE—*Calabaza*—*Kuchenkurbis*.

	lb.	oz.		lb.	oz.
Perfect Gem.....	\$1	00	Boston Marrow.....	\$0	75
Early Golden Bush... ..	75	10	Hubbard.....	75	10
Early White Scallop Bush	75	10	Winter Crook-Neck.....	1	00
Green Striped Bergen... ..	75	10	Turban.....	1	00
Summer Crook-Neck.....	75	10	Butman.....	1	00
Pine Apple.....	1	00	Mammoth Chili.....	2	00
Marblehead.....	75	10	English Vegetable Marrow	1	00

CULTURE.—Plant in hills, in the same manner and at the same time as Cucumbers and Melons; the bush three or four feet apart, and the running kind from six to nine.

TABACCO SEED.—*Tabac*.

	lb.	oz.		lb.	oz.
Imported Havana.....	\$4	00	Kentucky.....	\$2	50
Connecticut Seed Leaf....	2	50	James River Virginia.....	2	50
Maryland.....	2	50	Ruffled Leaf Virginia.....	2	50
Florida.....	2	50	White Stem Oronoka.....	2	50
Ohio.....	2	50	One-Sucker Virginia.....	2	50
Yellow Pryor.....	2	50	Virginia.....	2	50
Pennsylvania.....	2	50	Hester (very fine).....	2	50

TOMATO.TOMATE—*Tomates*—*Liebesapfel*.

	lb.	oz.		lb.	oz.
King Humbert.....	\$2	50	Alpha....	\$2	50
Livingston's Perfection....	2	50	Livingston's Beauty.....	2	50
“ Favorite,.....	2	50	Hundred Days.....	3	00
Cardinal... ..	2	50	New Jersey.....	4	00
Mikado.....	3	50	Puritan.....	3	00
Acme (finest red).....	2	50	Yellow Plum.....	2	50
Paragon (second early)....	2	50	Large Yellow.....	2	50
Improved Queen.....	2	50	Golden Trophy.....	3	00
Trophy (selected).. ..	3	50	Green Gage.....	3	00
Early Red Smooth.....	2	50	Red Cherry.....	3	00
Optimus.....	2	50	Yellow Cherry.....	3	00
Conqueror (best early)....	2	50	Pear Shaped.....	3	00
Fejee Island.....	2	50	Red Currant (very small)...	4	00
Cook's Favorite (fine)....	2	50	White Apple.....	3	00
Volunteer.....	4	00	Strawberry.....	3	00

CULTURE.—Sow in hot-bed in March, and transplant into the open ground when weather becomes warm and settled; or sow in open ground in May, and transplant when plants are six inches high, four feet distant from each other. Soil should be made rich and light.

TURNIP.NAVET—*Nabo*—*Ruben*.

	lb.	oz.		lb.	oz.
Early Snowball.....	50	10	Yellow Malta.....	\$0	75
Purple Top Munich.....	50	10	Yellow Stone.....	50	10
Early Dutch.....	50	10	Yellow Aberdeen.....	50	10
White Egg.....	50	10	Robson's Golden Ball.....	50	10
German Teltow.....	75	10	Orange Jelly.....	50	10
Cow Horn.....	50	10	Montmagny (yellow flat)...	75	10
Red Top, Strap-Leaf.....	50	10	Yellow Globe.....	50	10
White Norfolk.....	50	10	*Improved Am. Ruta Baga.	50	10
White Strap-Leaf.....	50	10	White Ruta Baga.....	50	10
Red Top White Globe....	50	10	Laing's Ruta Baga.....	50	10
*White French.....	50	10	Skirving's Ruta Baga.....	50	10
Green Globe.....	75	10	Webb's Imperial Swede... ..	50	10
Green Barrel.....	75	10	Shamrock Swede.....	50	10
Jersey Navet (true).....	75	10	Long White Tankard.....	75	10

CULTURE.—For early Turnips, sow as soon as ground opens in Spring. *Should be sown from any time in July to 1st of August; but the other kinds for Winter use, may be sown from middle of July to end of August. Turnips are generally sown broadcast but much larger crops are obtained (particularly of the Ruta Baga) by cultivating them in drills twelve inches apart, and thinned to six inches in the drill; one pound to an acre.

Pork and Beef Scraps, for Poultry and Dogs.

Pot, Sweet and Medicinal Herb Seeds.

These are valuable for culinary and medicinal purposes. They are easily grown and when preserved by drying are ready for use at any season of the year.

	lb.	oz.		lb.	oz.
Anise.....	\$0 75	\$0 10	Lavender.....	\$3 00	\$0 30
Balm.....		40	Pennyroyal.....	9 00	60
Sweet Basil.....	2 50	25	Pot Marigold.....	2 00	20
Bene.....	1 50	20	Rosemary.....	5 00	50
Borage.....	1 00	15	Rue.....	2 00	20
Caraway.....	75	10	Sage.....	2 50	25
Catnip.....	5 00	50	Saffron.....	1 50	15
Coriander.....	1 00	20	Summer Savory.....	1 50	20
Dill.....	1 00	15	Sweet Marjoram.....	2 00	20
Fennel.....	1 00	15	Tansy.....	4 00	40
Hop.....		1 00	Tarragon.....	½ pkt., 25	
Horehound.....	4 00	40	Thyme.....	3 00	30
Hyssop.....	3 00	30	Wormwood.....	3 00	30

CULTURE.—Plant in Spring when the ground is warm, in drills, covering lightly. When the plants are well up, thin out or transplant.

Flower Seeds.

ALL VARIETIES NOT NAMED WILL BE FURNISHED.

Common Name.	Color.	½ pkt.
Adonis Flower.....	Scarlet.....	\$0 05
Ageratum.....	Blue.....	05
Alyssum, Sweet.....	White.....	05
Aster, China.....	Mixed.....	05
Amaranthus, Globe.....	Purple.....	05
Balsam, Double.....	Mixed.....	05
Bartonia.....	Yellow.....	05
*Balloon Vine.....	White and Green.....	05
Coreopsis.....	Yellow.....	05
Cockscomb.....	Mixed.....	05
Centranthus.....	Red.....	05
Chrysanthemum.....	Mixed.....	05
Clarkia.....	White.....	05
Calandrina.....	Purple.....	05
Commelina.....	Blue.....	05
Candytuft.....	Purple.....	05
*Cypress Vine.....	Mixed.....	05
*Canary Bird Flower.....	Yellow.....	10
Convolvulus, Dwarf.....	Three Colored.....	05
Drummond's Phlox.....	Mixed.....	05
Dahlia, Double.....	Mixed.....	10
Delphinium Formosum.....	Blue.....	10
Euphorbia.....	Variegated.....	05
Eternal Flower.....	Mixed.....	05
Eschscholtzia.....	Orange.....	05
Forget-me-not.....	Blue.....	10
Geranium.....	Mixed.....	25
Gilia.....	Mixed.....	05
Hawkweed.....	Yellow.....	05
Hollyhock.....	Double Mixed.....	10
*Hyacinth Bean.....	Mixed.....	05
Hibiscus.....	Yellow and Brown.....	05
*Ipomea.....	Dark Purple.....	05
Joseph's Coat.....	Mixed.....	05
Larkspur, Chinese.....	Mixed.....	05

Strictly Pure Ground Raw Bone, \$40.00 per ton.

Grass Seeds for Lawns.

Finest Mixed. This is my own mixture of the grasses best suited for lawns, croquet grounds, etc. qt. , 20 cts.; bush. of 15 lbs. \$4 00
Second Quality. Very good. bush. of 15 lbs. 3 50
Rhode Island Bent Grass. Best of all grasses for lawns when only one variety is used. qt. , 25 cts.; bush. of 12 lbs. 3 00

FORMATION OF LAWNS FROM SEEDS.

In the first place, see that your ground is thoroughly drained and well prepared, *sowing at least three bushels of seed to the acre.*

Perhaps the best description of soil for a lawn is the stiff loam or clayey soils which predominate in so many districts. This ought to be not by any means too rich, as a rapid growth is not wanted in the grasses of a lawn; but in preparing it for laying down, let the surface be as much alike in quality as possible, *and do not stint the quantity of seed.* A very stiff clay is no better than a very dry sand for resisting drought, as it is in a measure sealed up against the insertion of roots, and the surface contracting by the withdrawal of moisture, it is liable to crack, &c., to a great depth. Nevertheless, a stiff soil usually makes the best lawn.

If your ground is in condition to raise a good crop of potatoes, it will make a good lawn, adding about half a ton of Bone Dust to the acre, harrowed in before sowing the seed. The success of establishing a good lawn depends much on the season and condition of the ground at the time of sowing. A very slight raking in will protect the seed much, or a sowing of wood ashes will render them distasteful to birds. Rolling, however, is at all times indispensable.

The best time to sow Lawn Grass Seed is early in the Spring, or about the latter part of August. I prefer the early Spring.

One important thing ought not to be forgotten in the preparation of the ground. Let it all have a surface of about six inches alike, for nothing looks worse than to see a lawn grow all in patches. One exception, however, may be mentioned, and that is if there be any steep slopes facing the south, or other exposed places, let the earth on them be better than on the ground level, for the aspect, and other causes, render such places liable to burn with less sun than level places. They ought, therefore, to be of a better material, and sod ought to be provided to lay there if accuracy be expected. When the grass becomes well established, it should be frequently cut. The oftener you mow, the finer your grass will be.

It is proper here to observe that no lawn can be maintained long in good order without successive rollings. Mowing alone will not secure a good bottom without that compression which the roller tends to give.

Leading Varieties of Grass Seeds.

OTHERS FURNISHED IF DESIRED.

The best means of improving Meadows, Pastures and Lawns, is to sow a sufficient variety of Grass Seeds, and I trust my numerous customers will give some of the following kinds a trial in connection with Timothy, which, by many, is believed to be about the only Grass to be sown.

Agrostis canina, Rhode Island Bent Grass; a valuable grass for lawns. For lawns, sow three bushels to the acre; for pastures one to one and a half bushels. See "Formation of Lawns." qt. , 25 cts.; bush. of 12 lbs., \$3.00.

Agrostis vulgaris, or Red Top Grass; a valuable native permanent grass as a mixture in either meadows, pastures or lawns, growing in almost any soil, moist or dry, and standing well our hot climate. (14 lbs. to bush.) bush. , ~~\$2.00~~ \$1.25

Anthoxanthum odoratum, or Sweet Vernal Grass; for a mixture with pasture grasses it is valuable on account of its vernal growth, and also continuing to throw up root foliage until late in the Autumn; for meadows, its chief merits are its fragrant odor, which the leaves emit when partially dried, thus sweetening hay: it is a vegetable condiment rather than a grass of much nutritive value. lb. , 30 cents.

True Perennial Sweet Vernal Grass, lb. 85 cents.

Dactylis Glomerata, or Orchard Grass; is less exhausting to the soil than Timothy, and will endure considerable shade; it blossoms about the same time as Red Clover, making it on that account a desirable mixture with that plant; it is exceedingly palatable to stock of all kinds, and its powers of enduring the cropping of cattle commend it as one of the very best pasture grasses. (14 lbs to bush.) bush. \$2.00.

The "Gregg" Improved Reaper, \$85.00

GRASS SEEDS—Continued.

- Lolium Italicum**, or *Italian Rye Grass*, is one of the most valuable grasses in Europe, being equally suited to all the climates; in England it is considered the best known grass to cut green for soiling, affording repeated large and nutritive crops; we recommend it here for use in pasture mixtures. (18 lbs. to bush.) $\frac{1}{2}$ bush., \$1 35.
- Lolium perenne**, or *English Rye Grass*, is the staple grass of Great Britain, entering largely into the composition of many of the richest meadows and pastures; its natural adaptation to almost all cultivated soils, and its early maturity, is the reason it has hitherto been so extensively cultivated in preference to many other equally nutritious sorts. (24 lbs. to bush.) $\frac{1}{2}$ bush., \$1.50
- Onobrychis sativa**, or *Sainfoin*: a perennial leguminous plant used extensively in France as a Forage plant; requires a calcareous soil. (26 lbs. to bush.) $\frac{1}{2}$ lb., 15 cts.; per 100 lbs., \$10.00.
- Phleum pratense**, or *Timothy*; a grass so well known needs no description, except that for a hay crop on moist, peaty or clay soils, it will produce a larger crop than any other sort; it is not so well suited for light, sandy soils. (45 lbs. to bush.) Price Variable, from \$2.50 to \$3.50 per bush.
- Poa pratensis**, or *Kentucky Blue Grass*; (fancy triple-clean), also known as *Green Grass*, *June Grass*, &c., thrives on a variety of soils, but does best in dry and somewhat shady locations. It requires several years to become well established in the ground as a pasture grass. Very valuable for our Southern States, as it will stand the hottest Summers, (14 lbs. to bush.) $\frac{1}{2}$ bush., \$1.50.
- Poa pratensis**, or *Kentucky Blue Grass* (extra clean), 14 lbs. to bush. $\frac{1}{2}$ bush. \$1.25.

MILLETS.

- Pearl Millet**, (*Pennisetum glaucum*). This splendid forage plant is becoming yearly more popular as its value becomes more widely known. It is a tender annual, and must not be planted until the weather has become settled warm. Wherever corn flourishes, it will yield bountiful crops of fodder, which cows, horses and other farm stock are exceedingly fond of. It is equal in nutritive value to corn fodder, while its yield is many times greater. Sow at the time of sowing corn (and not earlier), in drills three to four feet apart, and when well up, the plants should be trimmed out to one foot apart in the rows. Sown in this way, five or six pounds of the seed will plant an acre. Price, 30 cents per lb.
- Hungarian Grass**, (*Setaria Germanica*) a splendid forage crop for light land. On rich land two crops may be grown the same season. Withstands drought and yields abundantly, height, 2 to 3 feet. Per bushel of 48 lbs., \$1.50.
- Golden or German Millet**; a heavier cropper than the Hungarian, and needs a longer season and a stiffer soil; stands up well, is easily cured, makes a coarse, harsh hay which is greedily eaten by all kinds of stock. Per bushel, \$1.75.
- Italian Millet**, (*Setaria Italica*) sometimes called *Common Millet*. Medium early, leafy, stalk small; three or four feet high; heads thick, nodding, six to nine inches long; yellowish seeds, nearly round, flattened, glossy. Per bushel, \$1.25.

AMBER SUGAR CANE.

Of great value to our *Northern States*, as it ripens its seed before frost. Its saccharine matter is of first quality, fine and rich; it stands well and is not easily blown down, attains a height of 10 to 12 feet; the seed is relished by all kinds of stock. Sugar or syrup equal to any in the market. For green fodder, producing 2 to 3 cuttings during the summer. The earliest and most productive variety; sow 2 quarts per acre. Culture same as for corn. Price, per 100 lbs, \$7.00; per lb., 15 cents.

CLOVERS.

25 lbs. and upward at reduced prices.

Alfalfa , (or <i>Lucerne Clover</i>).....	Per lb., \$0 25
Yellow Trefoil	Medicago lupulina..... " 25
Red Clover	Trifolium pratense..about... " 12
Large Red, or Pea-Vine	" " " " " 13
White Clover	" repens..... " 25
Crimson Clover	" incarnatum..... " 20
Alsike Clover	" hybridum..... " 25
*Bokhara Clover	Melilotus alba..... " 40

*A most valuable sort for soiling; it grows from three to four feet high the first season, and if sown in rich soil may be cut three times during the Summer and Fall; lasts two years

Meadow King and Sprague Advance Mowers, \$55 and \$60. La Dow's Pulverizing Harrow, \$25

GRAINS.

THESE PRICES MAY ADVANCE OR DECLINE WITH THE MARKET.

All my *Grains* are selected expressly for SEED, and I am careful to have them strictly pure and correctly named. Samples will be sent on application, and special prices given for large quantities.

I frequently have in stock several varieties of wheat and other grains that I cannot include in this list, owing to the very early date of its publication, these varieties being produced only a short time previous to the sowing season.

SPRING WHEAT—*Triticum aestivum*.

Saskatchewan Fife. This remarkable wheat was first grown in Manitoba, in longitude 106°, latitude 52°, and is considered by influential millers of the Northwest, the best wheat ever grown. It often weighs 65 lbs. to the bushel, and is said to yield fifty bushels to the acre. Ten days earlier than the common Fife. The straw stands stiff and strong. Per bushel \$2.00.

Mediterranean Spring; this variety has been grown with great success for a number of years in some sections of New England, and is very highly recommended. It is bearded, yields well, and the kernels are much larger than those of the other Spring varieties. Per bush. \$2.00.

WINTER WHEAT—*Triticum hibernum*.

Clawson (also known as **Seneca**). This is a smooth, white wheat, with red chaff, and the best variety experimented with, either American or foreign, being FULLY EQUAL to the best brands of California Wheat. It proves early and hardy, has a stiff straw, and yields large crops on every variety of wheat soil. It has been cultivated for a sufficient length of time to thoroughly test its productive character, hardy nature and superior quality, and it is, without doubt, the best white wheat now cultivated. Per bush. \$2.00.

Fultz; a beardless amber variety, grown largely in some sections of Pennsylvania, and with very satisfactory results. It is very hardy and productive, and the straw is of medium length and very strong; makes excellent flour. Per bush., \$2.00.

Red Mediterranean (American); This is the imported variety, fully acclimated, and is a standard wheat. The heads are bearded and well filled. It succeeds well in nearly all localities, and ripens early. Per bush., \$2.00.

Four pounds of either of the above Winter varieties by mail, postage free, for \$1.00.

BUCKWHEAT—*Fagopyrum esculentum*.

Silver Hull; this variety, after being carefully tested, proves to be much superior to the common kind. Sown at the same time as the common Buckwheat, it continues in bloom longer, matures a few days sooner, and yields nearly double under the same condition. The grain is of a beautiful light gray color, varying slightly in shade, and the corners are much less prominent than in the ordinary variety, while the husk is thinner. The flour is whiter and more nutritious. Price per bush., \$1.50.

Buckwheat, common variety, best..... 7 bush. \$1 25
New Japan, very productive, grain larger than any other variety.... " 3 00

SPRING BARLEY—*Hordeum*.

Manshury; a new six-rowed productive variety, heads long, heavy, drooping, and well filled, often containing 75 to 90 grains. Straw bright, strong and does not lodge. Sow 2 bu. per acre.. 7 bush., \$1 75
Two Rowed (*Hordeum Distichum*)..... " 1 50

RYE—*Secale*.

Spring, (*Secale cereale*)..... 7 bush., \$1 75
Winter, " " White and of superior quality..... " 1 25

Prepared Fish Guano, \$40.00 Per ton.

OATS—Avena Sativa.

Wide Awake; a new variety, yielding 65 to 125 bushels per acre with ordinary culture; grain heavy and plump, have large meat and thin husk; straw, strong and firm, and holds up well without lodging. Per bushel of 32 lbs., \$1.25.

Welcome; One of the heaviest and most productive varieties of oats in cultivation. On the same land, grown side by side, the Welcome Oats produced double the crop of common oats, while they were of finer quality and much greater weight per measured bushel. The grain is very plump, with thin husk, strong, stiff straw, and early maturity. Per bushel of 32 lbs., \$1.00.

White Probsteier; I can confidently recommend this variety as being one of the most valuable of any introduced. It is very productive and heavy, and the straw is very strong. I have the most favorable reports of its excellence. Per bush. of 32 lbs., \$1.00.

BIRD SEED.

Prices variable.

Canary (Plain or Mixed)....	lb. \$0 10	Rough Rice....	lb. \$0 15
Hemp.....	lb. 10	Prepared Food (For Mocking	
Maw (Blue Poppy).....	lb. 20	Birds)....	bot. 35
Millet (American).....	lb. 10	Silver Gravel (for cages)..	qt. 06
Lettuce Seed... oz., 10c.;	lb. 50	Canary Song Restorer	bot. 25
Rape.....	lb. 10	Cuttle Fish Bone.....	each, 05

ESCULENT ROOTS AND PLANTS.

Smalley's Early Defiance Asparagus Roots	See page 1
Asparagus Roots, Conover's Colossal, (2 years old) ..	\$1 00 lb. 100; lb. 1000, \$7 00
Chives.....	lb. bunch, 25
Horse Radish Roots.....	lb. 1000, \$6 00; lb. 100, \$1 00.. dozen, 25
Rhubarb Roots.....	each, 10c. " 1 00
Jerusalem Artichoke.....	lb. bush., \$3 50; lb. qt. 25
Tarragon Plants.....	each, 30c.; lb. dozen, 3 00

CABBAGE, CAULIFLOWER, BROCOLI, BRUSSEL'S SPROUTS, CELERY, TOMATO, PEPPER, EGG PLANT, LETTUCE, SWEET POTATO PLANTS, Etc., Etc., at the Proper Season.

MISCELLANEOUS.

Jute Seed.....	oz., \$0 15	Hammond's Slug-Shot Insecti-	
Osage Orange lb., 50c.; lb. bush.	7 00	cide and Fertilizer, 5 lb. pckge.	
Chicory Seed. lb. oz., 10c.; lb.,	75	30c.; 10 lb. package, 50c.; by the	
Chinese Sugar Cane, lb.,	25	full barrel (in bulk) containing	
lb. 100 lbs., \$15.00.....		230 to 290 lbs.....	lb. \$0 04
Amber Sugar Cane.....	lb., 15	Spring Vetches lb. bush., \$3.50; lb. qt.	20
Rural Branching Sorghum lb.,	25	Round Scotch Scythe Stones, each,	15
Johnson Grass. lb.	20	Gishurst Compound.. lb. box,	50
Broom Corn (Improved Evergreen)		Whale Oil Soap..... lb. lb.,	10
lb. bush., \$3.00; per qt.....	20	Russia Mats... 60c. each, lb. doz.,	5 00
Broom Corn (California Golden,		Tarragon Seed..... lb. pkt.,	25
Long Brush) lb. qt. 25c.; lb. bush.	4 00	Cow Peas, lb. bush., \$2.50; lb. qt.	20
Sun Flower lb. bush.. \$3.00; lb. qt.	20	Garden Pencils..... each,	15
Sea Island Cotton..... lb.,	15	Flower Poles, 2 ft., 36c.; 2½ ft.,	
Tenn. Upland Cotton..... lb.,	15	45c.; 3 ft., 54c.; 4 ft., 72c.; 5 ft.,	
Flax Seed.. lb. bush., \$3.50; lb. qt.	25	90c.; 6 ft., \$1.08 lb. doz.	
Dhokra (Guinea Corn)..... lb.,	15	Grafting Wax..... lb. lb.,	40
Seradella..... " 30		Tobacco Soap..... ½ lb. box	25
Opium Poppy.. lb. oz., 20c.; " 1 00		Flour of Sulphur..... lb. lb.	10
Scurvy Grass..... lb. oz.,	25	Tobacco Dust lb. bbl.....	2 50
White Lupins..... lb.,	20	June Butter Color, 1oz. bot. 10c.; 4oz.	
Yellow Lupins..... lb.	20	bot. 25c.; 10 oz. bot. 50c.; 1 gal. 3.50.	
Blue Lupins..... lb.	20		

Thomas' Smoothing Harrow, 3 Sect.. \$20.00, 2 Sect., \$13.33.

SEATS EXTRA \$2.50.

Boardman's Tree Paint, 7 $\frac{1}{2}$ qt., 30c.; $\frac{1}{2}$ gall., 50c.; 1 gall., 75c.
Larger quantities, special prices.
Siberian Bush Powder, 1 lb. package, 60c.; $\frac{1}{2}$ lb., 35c.; $\frac{1}{4}$ lb. 20c.; trial package 12c.

Mustard , broadcast.....	$\frac{1}{2}$ bush.
Melon , Musk, in hills.....	2 to 3 lbs.
Melon , Water, in hills.....	4 to 5 lbs.
Millet , broadcast.....	1 bush.
Oats , broadcast.....	2 to 3 bush.
Onion , in drills.....	5 to 6 lbs.
Onion , for Sets in drills...	30 lbs.
Onion , Sets, in drills.....	6 to 12 bush
Parsnip , in drills.....	4 to 6 lbs.
Peas , in drills.....	$1\frac{1}{2}$ bush.
Peas , broadcast.....	3 bush.
Potato , (cut tubers)....	10 bush.
Pumpkin , in hills.....	4 to 6 lbs.
Radish , in drills.....	8 to 10 lbs.
Rye , broadcast.....	$1\frac{1}{2}$ to 2 bush.
Sage , in drills.....	8 to 10 lbs.
Salsify , in drills.....	8 to 10 lbs.
Spinach , in drills...	10 to 12 lbs.
Squash , (bush var.) in hills	4 to 6 lbs.
Squash , (run. " ") " "	3 to 4 lbs.
Tomato , to transplant....	$\frac{1}{2}$ lb.
Turnip , in drills.....	$1\frac{1}{2}$ to 2 lbs
Turnip , broadcast.....	3 to 4 lbs.
Vetches , broadcast.....	2 to 3 bush.
Wheat , broadcast.....	$1\frac{1}{2}$ to 2 bush.

**“Stoddard” Creamery and Refrigerator. “Stoddard”
Churn.**

CURRANTS.

	1 year.		2 years.	
	Each.	Doz. Hund.	Each.	Doz. Hund.
FAY'S PROLIFIC, large, red; a vigorous grower; bunches long	\$0.25	\$2.50	\$0.35	\$3.50
Cherry, large and good, red				
Versailles, similar to cherry				
White Grape, very large, the best white	\$0.10	\$0.60 \$4.00	\$0.15	\$0.75 \$5.00
Victoria, best late red, large and fine flavored				
LEE'S PROLIFIC, the best black variety grown				

GOOSEBERRIES.

	1 year.		2 years.	
	Each.	Doz.	Each.	Doz.
Houghton.—Small, pale red, sweet	\$0.10	\$0.75	\$0.15	\$1.00
Downing.—Large, light green, good				
Smith's Improved.—Large, pale yellow, spreading	.10	1.00	.15	1.50
Industry.—Very large, dark red, hairy			.50	5.00

GRAPES.

A GRAPE VINE is a thing that should be on every house-plat, large or small. Once planted it grows with scarcely any care, much less than any vegetable which we plant and care for every Spring. It is a shade, a screen, and object of beauty, a thing of profit, and a wholesome and delicious article of diet. It does equally as well in the city yard as in the country. For Black Grape, plant *Concord* or *Worden*: for Red, plant *Brighton*, *Salem*, *Delaware*, &c.; for White, *Duchess*, *Niagara*, &c.

NEW VARIETIES.

- Moore's Diamond.**—A cross between Concord and Iona. Vine a vigorous grower with large, dark, healthy foliage, free from mildew, entirely hardy. Bunch large, handsome, compact; berries round, greenish amber, juicy and free from pulp, ripens early. One year, each \$1.00; two years, each \$2.00.
- Eaton.**—A seedling of Concord, of more vigorous growth and fully as productive. Bunch very large, compact. Berries very large, round, black, with thick blue bloom; very juicy with some pulp, ripens just before Concord. One year, each, \$1.00; two years, each, \$2.00.
- Empire State.**—A valuable grape and destined to become popular. A strong grower, extremely hardy, free from mildew and a heavy bearer, clusters large; berry medium, round, white with a slight tinge of yellow, tender, juicy, sweet. Ripens with Moore's Early. One year, each, \$0.40; two years, each, \$0.50.
- Woodruff.**—Red; bunch and berry large; fair quality; hardy. Good market sort. Season early, one year, each, \$0.75; two years, each, \$1.00.

GRAPES—GENERAL LIST.

	1 year.		2 years.	
	Each.	Doz.	Each.	Doz.
Agawam, Large, red, a good grower. Midseason	\$0.20	\$2.00	\$0.30	\$3.00
Brighton, Early, large, red, very fine, of excellent quality	.20	2.00	.25	2.50
Catawba, A fine old grape, but mildews and ripens late	.15	1.50	.20	2.00
Champion (<i>Talman</i>) Earliest black, poor quality, hardy, productive	.15	1.50	.20	2.00
Clinton, black, small, late, good for wine	.10	1.00	.15	1.50
Concord, popular, black, good. Midseason	.10	1.00	.12	1.25
Delaware, light red, delicious, small, feeble grower, early	.15	1.50	.20	2.00
Duchess, greenish white, best quality, vine a good grower	.15	1.50	.20	2.00
Hartford, popular, early, black, poor quality	.15	1.50	.20	2.00
Hayes (<i>Frances B. Hayes</i>).—A fine white grape, good grower, hardy and productive; fruit large and of good quality. Season early	.40	4.00	.60	6.00
Ives, black, early, profitable for market, poor quality, good grower	.10	1.00	.15	1.50
Lady, white, early, good quality, good grower	.25	2.50	.40	4.00
Lady Washington, greenish white, poor quality. Midseason	.20	2.00	.30	3.00
Martha, white, large, foxy, vigorous. Midseason	.15	1.50	.20	2.00
Moore's Early, very early, large, black, vigorous	.20	2.00	.30	3.00
Pocklington, greenish amber, bunch and berry large, fair quality, vigorous, fine. Midseason	.15	1.50	.20	2.00
Salem, large red, good grower. Midseason. Similar to Agawam	.15	1.50	.20	2.00
Wilden, black, large, rich, good grower. Midseason	.15	1.50	.20	2.00
Worden (<i>true</i>) resembles Concord, but larger, of better quality and much earlier	.15	1.50	.20	2.00

Improved Bay State Horse Hay Rake. \$30.00.

HORSERADISH SETS.....Per doz., 25 cts; \$1.00 per 100.*

RASPBERRIES.

Golden Queen (New).—Its great merits are large size, great beauty, high quality, hardiness and productiveness. A seedling of the Cuthbert, it exceeds even its parent in size and is the highest in quality of all raspberries except the old Brinckle's Orange; of a beautiful, translucent amber color and very firm. The canes are very hardy and thin, productiveness is simply marvelous. No home garden is complete without it. Ripens in Midseason. Per doz., \$1.00; per 100, \$4.00.

RED VARIETIES.

Plant in good soil (no extra preparation necessary), three feet apart each way. Keep ground loose, and hoe up all but four or five suckers, which will be the bearing wood next season. *Raspberries* will return your labor a hundred fold.

Hansell.—The earliest red raspberry. Valuable for its hardiness and ability to withstand drouth and hot suns. Large, of good quality and firm. Per doz., 75 cts.; per 100, \$2.00.

Cuthbert.—The leading late market variety and best red raspberry in general cultivation. Large, good quality, firm and productive. Per doz., 75 cts.; per 100—\$2.00.

Turner.—Extremely hardy and productive, but suckers immediately. Of good size, bright crimson, rich flavor and a fine early sort for family use. Per doz., 75 cts.; per 100, \$2.00.

Marlboro.—The largest of the early red raspberries, ripening a few days later than Hansell. Canes hardy and productive, but adapted only to northern culture. Large, beautiful, firm, but not of the highest culture. Per doz., 75 cts.; per 100, \$2.00.

Shaffer's Colossal (Cap).—An immense raspberry in cane, fruit and productiveness, and specially adapted to the south. The fruit is of fine quality, rich and sprightly, but it is dull purple and unattractive in color. Ripens late. Per doz., 75 cts.; per 100, \$2.00.

BLACK CAP VARIETIES.

Cultivation of black caps same as red, only they produce plants from the tips of the vines, and do not sucker. To produce plants, after the tips begin to swell and enlarge cover lightly with earth; in the Spring cut off three inches from the ground, and you have a plant.

Hilborn.—Second early, fine quality; valuable for family garden. Berries good size, moderately abundant. Per dozen, 75 cents; per hundred, \$3.00.

Gregg.—The leading late blackcap and a popular market sort. Extra large with much bloom; of good quality and productive. Per doz., 75 cts.; per 100, \$2.00.

Souhegan or Tyler.—The earliest black raspberry and the leading early market sort. Very productive with hardy, healthy canes. Fruit of good size, firm and good. Per dozen, 75 cents; per hundred, \$2.00.

Hopkins.—Nearly as early as the Doolittle, very much larger and of highest quality. Canes vigorous and productive. An improvement upon the popular Mammoth Cluster, which it much resembles in appearance of fruit and cane. Per dozen, 75 cents; per hundred, \$2.00.

Nemaha.—Resembles Gregg, but much hardier, but does not excel it in either size, yield or lateness. Per dozen, 75 cents; per hundred, \$3.00.

RHUBARB.

Linnæus; early; very productive; of excellent spicy flavor, and the least acid of all the varieties: 10 cents each, \$1.00 per dozen.

Chieftain Horse Hay Rake, \$25.00.

STRAWBERRIES.

NEW VARIETIES.

Monmouth.—The earliest of strawberries. Large, handsome, firm, productive and reliable. The plant is a strong, vigorous grower, with tough, healthy foliage and exceedingly productive. The best early strawberry yet introduced. Per doz., 50 cts.; per 100, \$2.00.

Gandy.—The latest of strawberries. This is a fit companion to the Monmouth and is not only the latest but the best shipper and keeper. It is a cross between Jersey Queen and Glendale, combining the size, beauty and good quality of the former, with the firmness and lateness in ripening of the latter. Monmouth and Gandy cover the entire strawberry season. Per dozen, \$0.75; per 100, \$3.00.

GENERAL LIST.

Per Doz. Per 100.

Belmont. —Strong grower; requires good soil and culture, or it is unproductive and unsatisfactory. Berries quite distinct, oblong dark crimson, glossy of exceeding high quality, rich and meaty; remarkable for its firmness and long-keeping qualities.....	\$0.30	\$1.50
Chas. Downing. —An old well-known variety. Excellent for the family garden, by reason of its fine quality and productiveness. Midseason.....	.30	1.50
Crescent (P). —Early and immensely productive, medium size, bright scarlet.....	.30	1.50
Henderson. —Its chief value is in its exquisite flavor, of good size. Early.....	.30	1.50
James Vick. —Similar in all respects to Capt. Jack, but even more prolific.....	.30	1.50
Jersey Queen (P). —Exceedingly large and exquisitely beautiful; of superior quality; healthy, vigorous and prolific.....	.30	1.50
Kentucky. —A popular late variety, fruit large, of good quality.....	.30	1.50
Manchester (P). —Probably the best late berry. Exceedingly productive, of large size, uniform shape, good quality, handsome and quite firm.....	.30	1.50
May King. —A seedling of the Crescent with a perfect blossom. Fruit bright scarlet, firm and excellent. Fairly productive. Season early.....	.30	1.50
Miner's Prolific. —Somewhat similar to Chas. Downing, but larger, darker in color and of mild, pleasant flavor. Midseason.....	.30	1.50
Sharpless. —Extra large, irregular in shape, moderately firm, of good quality and productive. Midseason.....	.30	1.50
Triomphe de Gand. —Still retained for its beautiful glossy fruit with sweet, high flavor, but requires high culture, in rich, heavy soil. Medium to late.....	.30	1.50
Wilson (Albany). —Once the most popular berry, but now superseded by better sorts. Early to medium.....	.30	1.50

The varieties marked (P) are pistillate, and require to be fertilized by setting every fifth or sixth row with some strong growing and perfect flowering variety, such as Charles Downing, Sharpless, etc., etc

POTTED STRAWBERRY PLANTS.

The most favorable time for transplanting Strawberries is during the Spring months. A bed planted in April or May, and well taken care of during Summer, will produce a full crop the following season. When Spring planting is not practicable, however, a full crop may nevertheless be obtained by planting pot grown plants during the month of August or September. These have been layered in pots, and are taken out and transplanted with the entire ball and every root the plant has made.

After the first of August I can furnish pot-grown plants of most of the above varieties. Pot-grown plants cannot be sent by mail.

PLANTS BY MAIL.

N. B.—Strawberry Plants, at the dozen rate, will be mailed to any Post Office in the United States without extra charge. At the fifty or hundred rate, if to be sent by mail, 25 cents additional must be remitted for each hundred plants.

Raspberries, Blackberries, Currants, Gooseberries and Grapevines can be mailed for 10 cents per dozen, in addition to the price. When this amount is not remitted a number of plants sufficient to cover the amount of postage is deducted from the order. Larger, or more than one year old plants, cannot be forwarded by mail.

Special prices will be quoted upon application, for small fruits in large lots.

Road, Field, Lawn and Garden Rollers.

BOOKS.

All Books sent by mail on receipt of Price.

American Cattle Doctor.....	(Geo. H. Dodd, M. D.)	\$1 50
American Dairying.....	“(Arnold’s)”	1 50
American Farm Book.....	(L. F. Allen)	2 50
Bee-Keeping.....	(L. C. Root)	1 50
Cottage Residences.....	(A. J. Downing)	3 00
Cotton Planter’s Manual.....	(J. A. Turner)	1 25
Flint’s Grasses and Forage Plants		2 00
Fruit Garden.....	(P. Barry)	2 50
Fruit and Fruit Trees.....	(Chas. Downing)	5 00
Forest Trees.....	(Arthur Bryant, Sr.)	1 25
Grape Culturist.....	(A. S. Fuller)	1 50
Gardening for Pleasure.....	(P. Henderson)	1 50
Gardening for Profit.....	(P. Henderson)	1 50
Hand Book of Grasses.....	(Jno. Henderson)	1 50
Hand-Book of Plants.....	(P. Henderson)	3 00
Hedge and Evergreens.....	(J. A. Warder)	1 50
Incubation, Artificial and Incubators.....	(A. M. Halstead)	0 75
Manures, Talks on.....	(Harris)	1 75
Money in the Garden.....	(P. Quinn)	1 50
Mushroom Culture.....	(Wm. Early)	0 40
New Book of Flowers.....	(Jos. Breck)	1 75
Practical Floriculture.....	(P. Henderson)	1 50
Practical Poultry Keeper.....	(Wright)	2 00
Small Fruit Culturist.....	(A. S. Fuller)	1 50
Silos and Ensilage.....	(Prof. Geo. Thurber)	0 50
Tobacco Culture.....	(O. Judd & Co.)	25
Window Gardening.....	(Henry T. Williams)	1 50

HORTICULTURAL IMPLEMENTS, Etc.

Fountain Hand Pump.....		\$8 00
Asparagus Knives.....	each	50
Corn Knives.....	“ \$0 30 and	50
Pole Pruning Shears.....	“ 2 25 to	2 75
Vine Scissors—For thinning out Grapes	“ 75 to	1 25
Flower Gatherers.—For cutting and holding the flower.....	“	50
Hand Pruning Shears.....	60 to	1 75
Ladies’ Wood-Handled Garden Shears.....		1 50
Hedge Shears	1 75 to	2 50
Grass Border Shears.—For cutting Grass Borders ..	2 25 to	3 25
Grass Edging Knives, With Handles....	1 00 to	1 10
Pruning Saws.....	75 to	90
Cast Steel Pruning Chisel.....		1 00
Garden Reels.....		75
Ladies’ Short-Handled Garden Forks.....		30
Transplanting Trowels.—(English Cast-steel).....	60 to	1 25
do do (American).....	20 to	30
Dutch, or Push Hoes.—Handled, from 6 to 12 inches.....	70 to	1 05
Hexamer Prong Hoe.—Handled.....		1 50
Triangular Hoes.—Are also used as Tree Scrapers	50 to	75
Ladies’ Garden Hoes.....		35
Corn Hoes.....	40 to	50
Lawn Rakes.—Are used to cut off the flower-heads or buds of Daisies, Dandelions, etc., on lawns.....	2 75 to	3 25
Cast Steel Garden Rakes, with Handles.....	40 to	80
English Bill Hooks.—For pruning with one hand.....	1 25 to	1 50
Greenhouse Syringes.—(Brass) best make.....	2 25 to	7 00
Grass Hooks, or Sickles.—English.....	50 to	1 00
Potato Hooks.—(Cast-steel teeth).....	60 to	1 00
Brush Hooks.....		1 25
Holland’s Hand Force Pump.....		6 00
Brush Scythe and Snath		1 75
Ames’ C. S. Bright Spades.—Long and Short handled.....	1 00 to	1 25
“ “ Shovels.—Long and Short handled.....	1 00 to	1 25

The Daniels’ “Acme” Ensilage Cutter, \$75.00.

HORTICULTURAL IMPLEMENTS.—Continued.

Pruning Knives.....	\$0 50 to	each. \$1 25
Budding Knives.....	1 00 to	1 35
Boys' Shovels and Spades		50
Best Spading Forks.....	1 00 to	1 50
Best Manure Forks.....	75 to	1 50
English Patent C. S. Lawn Scythes	1 15 to	1 60
Round Scotch Scythe Stones.....	1.50 per doz.	15
Children's and Ladies' Sets Garden Tools.....	1 25 to	1 75
Excelsior Weeding Hook.....		20
Dibbles.....	each	50
Hanging Baskets.....	each 75, \$1 15, \$1 25, \$1 50, \$1 75, \$2 25	
Poultry Fountains.....	2 Gall., \$2 00; 4 Gall.. \$2 75; 5 Gall., \$3 00	
Watering Pots....	4 qt., 45c.; 6 qt., 65c.; 10 qt., 85c.; 12 qt., \$1 00; 16 qt., \$1 40	
Bellows, for Paris Green, Hellabore, Tobacco Dust, &c.....	2 00 to	2 50
Thermometers.....		0 50
Fruit Pickers.....	50 to	60
Bates' Folding Plant Protectors.....	per dozen	1 75

FERTILIZERS.**SARDY'S PHOSPHO-PERUVIAN GUANO.**

The Best and Cheapest
Fertilizer in Use.

ADAPTED to ALL
CROPS and SOIL.

Sold on
Guaranteed Analysis.

PRICE
Per Ton, \$36.00

Send for Pamphlet
containing

TESTIMONIALS,

Full Directions
For Use, &c., &c.

No. 1, PERUVIAN GUANO, Warranted Pure.

From the large amount of ammonia and phosphate contained in pure Guano, it is one of the best and most powerful stimulants for plants and growing crops. In bags of about 175 pounds, $3\frac{1}{2}$ cents per pound. Per ton of 2,000 lbs. \$65.00.

No. 1, BONE MANURE.

Highly recommended for vine borders, and for mixing with the soil in planting fruit trees potting plants and various field crops. \$30 per ton.

Small quantities of either of the above furnished at higher prices.

Cotton Seed Meal for Feeding Stock.

The Mapes Complete Manures for the Farm or Garden.

All in fine dry condition. May be readily sown by hand. Each bag plainly branded and a tag attached giving full directions for use.

If used in connection with Stable Manure, the quantities recommended may be reduced. May be applied broadcast or scattered in the rows before planting, and also at any hoeing or cultivation.

PRICES ON CARS OR BOAT.

	Per ton, 2,000 lbs.	Per bag 200 lbs.
For Potatoes. —Use the Mapes' Potato Manure. 3 to 10 bags per acre.....	\$43 00	\$4 30
The largest yield of potatoes on record were grown in season of 1888. See the Mapes Pamphlet, mailed free.		
The Potato Manure may be used for Asparagus, Beets, Mangolds and Vegetable Gardens.		
Onion Manure	44 00	4 40
Ammonia, 6 to 8 per cent.; Phosphoric Acid, 7 to 9 per cent.; Actual Potash, 6 to 8 per cent.		
Early Vegetable and Truck Manure	44 00	4 40
Ammonia, 6 to 8 per cent.; Phosphoric Acid, 7 to 9 per cent.; Actual Potash, 6 to 8 per cent.		
Lawn Top Dressing (with Plaster)	35 00	3 50
For Fruits. —Strawberries, Raspberries, Grape Vines and all Fruit Trees, use in early Spring The Mapes' Fruit and Vine Manure. 100 lbs. to 2,000 square feet, work in around trees as far as the branches or roots extend.....	38 00	3 80
This manure is for increasing the fruiting power of trees and vines. If a fertilizer is desired for making more rapid wood growth, the Potato Manure may be used in the same way as the Fruit and Vine Manure.		
For Cabbage and Cauliflowers. —Use The Mapes' Cabbage and Cauliflower Manure. 5 to 10 bags per acre.....	41 00	4 10
This manure is used largely and to the exclusion of stable manure, by many of the cauliflower growers at Mattituck, L. I., and by cabbage growers of West End of Long Island and elsewhere.		
For Sweet Corn. —Field Corn, and Corn-fodder, use The Mapes' Corn Manure. 3 to 4 bags per acre.....	41 00	4 10
For Turnips, (late). —Use the Mapes' "A" Brand Manure.....	36 00	3 60
This is also an excellent fertilizer for using in the hills or rows for all crops. It is very safe.		
For Grass Top-Dressing. —Pastures and Lawns, use The Mapes' Grass and Grain Spring Top-Dressing. 1 to 3 bags per acre.....	41 00	4 10
This is much superior to stable manure for Spring application, particularly around dwellings, croquet-grounds and lawns.		
For use in drills or hills, in the place of and in the same way as Peruvian Guano, use The Complete Manure (for general use).		
Complete Manure ("A" Brand)	36 00	3 60
Ammonia, 3 to 4 per cent.; Phosphoric Acid, 12 to 16 per cent.; Actual Potash, 2½ to 3½ per cent.		
For use in the hill or drill in connection with stable manure, or alone on good lands. After many years' use, has gained a high reputation as a Fall Wheat Manure, and for use in the drill with the seed.		
Complete Manure (For General Use)	39 00	3 90
Ammonia, 4 to 5 per cent.; Phosphoric Acid, 10 to 12 per cent.; Actual Potash, 4 to 5 per cent.		
A substitute for stable manure, only quicker in action and some thirty to forty times more concentrated. For use on all crops, on all average soils, with or without stable manure. Use broadcast in any quantity; if any in hill or drill, apply sparingly.		
The Mapes Pure Ground Bone	33 00	3 30
This grade of ground bone is somewhat finer than the grade formerly sold by us under the name of "Fine."		
Fine Bone (dissolved in sulphuric acid)	33 00	3 30
These Manures permanently improve the land by adding to its stock of plant food, the same as stable manure. The decaying roots of most of the crops keep up sufficient supply of vegetable matter in the soil. Seven successive crops have been grown from a single application to a potato crop on poor land, and all the crops showed large increase over natural soil.		
	Price per ton, 2,000 lbs.	Per bag 200 lbs.
Mapes' Nitrogenized Superphosphate.....	\$34.00	\$3.40
Mapes' Prepared Fish Guano.....	40.00	4.00
Mapes' Dried Ground Fish.....	45.00	4.50
No. 1 Peruvian Guano.....	65.00	per lb., .03½
German Potash Salts, Kainit.....	15.00	..
Muriate of Potash, 80%.....	45.00	..
Land Plaster.....	per bbl.	1.25
Shell Lime.....	per bbl.	1.25
Unleached Wood Ashes.....	per bbl.	2.00

Prepared Pure Bone Meal for feeding Cattle, packed in bbls. 3c. per lb.

Prepared Pure Bone for Chickens, per bag 200 lbs., \$4.00; per lb., 04c.

Ground Oyster Shells for Chickens, per 100 lbs., \$1.50; per lb., 02c.

Pork Scraps (in cakes) for Chickens and Dogs, per lb., 04c.

I keep constantly on hand a stock of the above and will send full descriptive pamphlets on Mapes' Complete and Special Manures, with directions for use, upon application.

Boardman's Tree Paint. For prices see page 21. SEND FOR
SPECIAL CIRCULAR.

IMPLEMENTS, Etc.

THE BEST IN USE.

The Gale has met with *unbounded* success wherever introduced; its points of excellence and superiority are fully established; it is simple and durable, adjusts quickly, light draft, always scours, and warranted to work in any soil; it has shifting beam and adjustable handles; the jointer is fastened on the standard and adjustable for depth and pitch, always in line, and the only jointer in use that is anti-clogging, the coulter also fastens on the standard and is always in line, working perfectly. A wrench is furnished with every Plow.

PRICES:	WOOD BEAM.	Plain with Clevis.	With Clevis and Wheel.	With Clevis, Wheel and Coulter.	With Clevis, Wheel and Jointer.
No. 31.....	Full Size Two Horse. ...	\$10 50	\$11 50	\$13 00	\$14 00
No. 20A....	Medium Size Two Horse.	10 50	11 50	13 00	14 00
No. 17A....	Large Size One Horse....	8 50	9 50	11 00	
No. 25A....	Medium Size One Horse..	5 50			

EAGLE PLOWS.

These Plows are extensively used and give universal satisfaction.

PRICES.

No. 18 Light One Horse, plain..	\$3 22	No. 20 Two Horse, plain..	\$6 08
18½ Medium " " ..	3 48	21 Heavy Two Horse " ..	6 79
19 One " " ..	4 20	22 " " " ..	9 00
19½ Light Two Horse, " ..	5 36		

Road Plow, No. 6.....	\$12 00
Wheel and Frame. For any of the above, complete.....	1 25
Cutter, with clamp for any of the above.....	1 25

CABBAGE PLOWS.

No. 2.....	\$4 00	No. 19 High Standard.....	\$4 25
No. 19.....	4 00	Steel Cabbage Plow.....	9 00
No. 1½.....	4 00		

IMPROVED SOLID CAST CAST-STEEL PLOWS.

I do not use Bent Steel Work on these plows.

	Plain	With Cutter.	With Cutter and Wheel.
XO, With Polished Cast Iron Share, 1-Horse...	\$8 00	\$9 25	\$10 50
XN, " " " " 2 " ...	9 25	10 50	11 75
XM, " " " " 2 " . .	10 75	12 00	13 25

Also Collins and Mohawk Valley Clipper Steel Plows.

DOUBLE MOULD OR RIDGING PLOWS.

No. 1, Plain.....	\$4 00	No. 3, Plain.....	7 00
" 2, "	5 50	Wheel and frame for any of the above	1 25

SIDE HILL OR SWIVEL PLOWS.

No. 0, Plain.....	\$5 50	No. 2, Plain.....	\$8 00
" 1, "	7 00	" 3, "	9 00
Clamp with Cutter for any of the above.....			1 25
Wheel and Frame " " "			1 25
Draft Rod " " "			1 00

SUBSOIL PLOWS.

No. 0, One Horse, Plain.....	\$7 00	No. 3, Heavy, Two Horse, Plain..	\$8 50
No. 1, Two Horse "	7 50		

GREGG'S CELEBRATED CHILLED PLOWS.

Harder than Steel, and surpassed by none.

No. 3, or Long Island, 2-horse plain	\$9 00	No. 2, or Corn Plow, 1-horse plain	\$8 00
" 2, Medium Improv'd 2-horse..	9 00		
Front or Skim Plow, for any of the above, complete..			2 00
Wheel and Frame, " " "			1 50
Cutter, with clamp for any of the above.....			1 50

IRON BEAM PLOWS.

No.	Plain.	No.	Plain.
18 Light One Horse.....	\$3 75	35 Light Two Horse.....	\$5 00
18½ Medium "	4 00	35½ Med. "	6 08
19 One "	4 75	36 Two Horse.....	6 43
19½ Light Two Horse.....	6 00	37 Large Two Horse.....	8 00
20 Two Horse.....	7 00	2½ D. Two Horse.....	6 43
Road Plow G.....			12 00
Front or Skim Plow, with Bolt for any of the above complete.....			2 00
Wheel and Frame, " " "			1 00
Cutter, with clamp for any of the above.....			1 25

POTATO DIGGERS.

I do not claim that this plow is perfect, but that it is the best Potato Digger yet invented, and, when properly worked, will pay for itself several times over in a single season.

PRICES.

Wood Beam...	\$12 00
Iron Beam.....	8 00
McCallum Potato Digger and Picker..	100 00

STEEL SHOVEL PLOW, WITH POTATO DIGGER ATTACHMENT.

This plow is used for Furrowing, Covering, cultivating and hilling Corn, Carrots, Potatoes, and also for digging Potatoes; the wings can be adjusted to any width of Row from two to four feet; it is adapted to all kinds of soil; can be used with perfect success on very rough, stony ground; one of the most valuable Implements in use. Price of Plow, \$6.00. It can also

be changed to work in narrow rows for cultivating Beets, Carrots, and all other Root Crops, &c., at an additional expense of \$2.15. Potato Digger Attachment, \$3.00.

THE OSBORNE PLOW SULKY.

H. FERGUSON, ALBANY

The Perfection of Plowing Machines.

Adapted to all kinds of Plows and every condition of soil; can be attached easily to the Plow without any additional expense.

Every practical farmer who has seen the machine in operation has been forced to admit, and often against the strongest prejudices, that the work performed was better than could have been done by hand, and that the draft was materially lightened, notwithstanding it carried the driver in addition to drawing the Plow.

It will plow as close to a fence, post or stump as can be done by hand. Stone no obstacle. In stony or hard land its advantages are most apparent, the principle upon which the Plow is hung being calculated to force it into the ground, however hard.

The Plow is handled by the driver from his seat, by a simple system of levers, enabling him to control its operations with absolute certainty.

The vibrating frame to which the Plow is attached is pivoted to the axle, and is so arranged as to be frictionless. The axle is adjustable and can be raised, lowered or tipped in either direction at will, throwing the Plow on the moul-board or land-side precisely as is done by hand, enabling the driver to regulate the depth and width of the furrow instantly.

Price of Sulky, without Plow.....\$30 00

THOMAS' SMOOTHING AND REVERSIBLE HARROWS AND PERFECTED PULVERIZERS

For Pulverizing, Harrowing in Seed and cultivation of Growing Crops, they have no equal.

2	Section Smoothing Harrow, 48 Teeth, $7\frac{1}{2}$ feet Spread.....	\$13 33
3	" " " 72 " $10\frac{1}{2}$ " "	20 00
2	" Reversible " 48 " $7\frac{1}{2}$ " "	13 33
3	" " " 72 " $10\frac{1}{2}$ " "	20 00
2	" Perfected Pulverizer, 48 blades, covering $7\frac{1}{2}$ feet (1 horse).....	14 00
3	" " " 72 " $10\frac{1}{2}$ " (2 ").....	21 00
Seats extra.....		2 50

The three section harrow, 72 teeth, as shown in cut, is the one most generally sold.

IMPROVED HINGED HARROW.

With 24 Teeth.....	\$13 50
" 30 "	15 00
Double Whiffletrees additional.....	3 00

COMMON SQUARE HARROW.

No. 1, with 15 Teeth, (1 horse).....	\$ 8 00
" 2, " 19 " (2 ").....	9 00
" 3, " 23 " (2 ").....	10 50

Single Whiffletrees additional.....\$0 75 to 1 50

LADOW'S JOINTED PULVERIZING HARROW.

Harrow, with Polished Adamant Wheels.....	\$25 00
" " " Steel "	32 00
Whiffletrees, Evener and Neck Yoke, for Harrows, extra.....	3 00
Ladow's Spring Tooth Sulky Harrow.....	35 00
Seeder Attachment for "	25 00
Grass Seeder Attachment for Sulky Harrow.....	10 00
Three Horse Hitch, " "	5 00

Darnell's Patent Furrower and Marker, \$20.

Cultivators and Horse Hoes.

Wright's Excelsior.....	\$7 00
Hilling Attachment for Wright's Excelsior..	3 00
Peckham's, with 5 Steel Plates.....	6 00
" 3 " and 2 moulds (half Long Island)	7 00
Iron Frame, reversible Steel Tooth.....	5 00
Horse Hoe Attachment, extra for Iron Frame	2 00
Tolley's "Champion" Screw Tooth (1 Horse).....	8 00
Tolley's "Champion" Screw Tooth (2 Horse).....	22 00
Harrow Cultivator.....	6 00
Riggs' Gang Plow, (2 Horse).....	18 00
Net Combined Riding Cultivator.....	40 00
Warrior Disc Riding Cultivator.....	22 00

RUHLMAN'S HAND CULTIVATOR OR WHEEL HOE.

One of the latest and best Garden Weeders in use; it can be set from 7 to 16 inches in width, and is warranted to work to perfection.

PRICE \$5 50.

Kemp's Manure Spreader, Pulverizer and Cart Combined.

Greatest Agricultural invention of the age. Saves 90 per cent. of labor, and doubles the value of the manure. Spreads evenly all kinds of manure broadcast or in drill, in one-tenth the time required by hand. Send for illustrated Catalogue and full particulars.

PRICES.

*No. 1 on Two Wheels.....	\$82 50
" 1 " Four " 	110 00
" 2 " Four " 	120 00
" 3 " Four " 	130 00
" 1 Rigged as Cart, with Belly Pole and Drill	100 00
Plantation Full Rigged.....	95 00
Forward Trucks and Fixtures to change to style (Four Wheels).....	25 00
Belly Pole Spreader.....	95 00
Drill Attachment.....	extra 8 00
Lime Hood or Wind Brake.....	5 00
Brake (for Hilly Sections).....	5 00
Slow Feed	1 50

*The forward gear of an ordinary Farm Wagon will connect with the No. 1 on two wheels to make it complete for use.

In ordering the Spreader, state size; whether the drill, slow feed or brake is wanted. The slow feed is only used for spreading lime, ashes, cotton seed, etc.

CAHOON'S BROADCAST SEED SOWER.

The seed is held in a light sheet-iron hopper, surmounted by a bag which will hold half a bushel of seed. This is suspended by a strap from the operator's neck, and held in position by a strap around his waist.

In operating it the seeds fall through an opening that can be graduated as to the quantity sown per acre, and is discharged through a flange mouth or spout, which is rapidly rotated by turning the handle. The seed is thrown from eight to twenty feet on each side of the operator, the heavier seed being of course

thrown the greatest distance. It saves labor and time, and enables any one with a little experience to sow with regularity, and in consequence of the evenness with which it distributes the seed, saves from one-quarter to one-third of the grain ordinarily required. A complete separation of the seed is effected, and each kernel falls separately upon the ground, thus causing great regularity of distribution, and giving the best opportunity for the growth and development of the grain.

The Hand machine, at a common walking gait, sows from four to eight acres per hour. Price, \$5.00.

The Horse-power machine is worked by an endless chain passing over a rim bolted to the wheel of the wagon or cart that carries the machine. At the usual walking gait of a horse, it sows from ten to fifteen acres per hour. Price, \$25.00.

Comstock's Combined Seed Sower, Cultivator and Weeder.

These Implements comprise, 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 Seed Sower, Hand Cultivator, and Weeder Combined. This is a new and perfect small Seed Sower, combined with the Cultivator and Weeder, and can be separated or attached in five minutes. It sows Beet, Parsnip, and other difficult seeds with the greatest regularity, and is especially adapted to sowing Onion at the rate of four, five, or six pounds to the acre. By revolving the disk, which is held in place by a spring, it can be changed instantly to sow thick or thin without removing the seed from the hopper. Price, \$10.00.

Comstock's Hand Cultivator and Weeder Combined. In the cultivation of Onions, Carrots, Beets, Parsnips, Ruta Baga, Rice, Spinach, Strawberries, Nursery-Stocks, and other small drill crops, this implement will do the work of six men with hoes. It pulls the weeds and thoroughly pulverizes the soil; runs close to the rows, and takes out all the weeds not directly in line with the plants, and throws the earth up to or away from the rows. It is readily adjusted to clean the space between rows from six to fifteen inches apart at one passage. Price, \$6.00.

Comstock's Seed Sower Only. Price, \$7.00

Extra Attachments. Hopper and Cover to make a Seed Sower of a Cultivator, \$4.00. Set of two rakes and three teeth to make a Cultivator and Weeder of a Seed Sower, \$3.00. Wheel and Knife to be fixed to the Cultivator to make a Strawberry Runner Cutter, \$2.00. Verge or Turf Cutter, \$1.25. Mole Plow, 75 cents. Scuffle Hoe, \$1.25. Shovel Plows, per set of 3, \$1.50.

THE MATTHEWS' SEED DRILL.

The Matthews' Drill is designed to be used in field or garden. When in operation, it opens the furrow, drops the seed accurately at the desired depth, covers it and lightly rolls the earth down over it, and at the same time marks the next row, all of which is done with mechanical precision, by simply propelling the drill forward. In this way it sows, with an evenness and rapidity impossible for the most skilful hand to do, all the different varieties of *Beet, Carrot, Onion, Turnip, Parsnip, Sage, Spinach, Sorghum, Peas, Beans, Broom Corn, Fodder Corn, etc.* There is also an ingenious device by which the seed can be cut off while turning at the ends of rows, thus saving quite a percentage of seed. It is also provided with an *Indicator having the names of different seeds thereon.* **PRICE \$12.00.**

ECLIPSE CORN PLANTER AND FERTILIZER DISTRIBUTOR COMBINED.

For Planting Field or Ensilage Corn, Beans, Peas or Beet Seed, in Hills, Drills or checks. Specially designed for accurately distributing Commercial Fertilizers, Ashes, etc., full strength, wet or dry, without injury to the seed. Every improvement has been made to make this the most perfect and reliable Planter in the market; works equally well on rough or stony ground.

Price.....\$25.00
 " Check Row Attachment, extra..... 1.50

SEND FOR SPECIAL CIRCULAR.

THE FARMER'S FAVORITE GRAIN DRILL.

Grass Seeder, Corn Planter and Fertilizer Sower.

This Drill has steel axle, double reversible points, Davis Tube shifter, surveyor, and the double force feed grain distributor.

The Grass Seeder is force feed and works equally well in front or rear.

Plain Drill, 8 Peg Tubes & Grass Seeder...	\$70 00
" " 9 " " " "	75 00
" " 10 " " " "	80 00
" " 11 " " " "	85 00
Fertil'r attach't for any of the above, add.	30 00
Spring Tubes	10 00
If Grass Seeder is not required deduct....	2 50

THE GREGG IMPROVED REAPER.

Its unparalleled success wherever it has been fairly introduced, warrants us in recommending it to the farmer as not only the lightest, cheapest, and easiest to manage reaper in the field, but the strongest, most durable, and by far the most desirable reaper a farmer can buy. Price \$85.00.

THE ADVANCE IRON MOWING MACHINE.

(FOR ONE OR TWO HORSES.)

Cuts with equal ease the finest bottom grass or the roughest hill-side, and is free from side draft. The bar can be elevated to any angle from the seat with perfect ease, allowing the mower to be driven close to trees or rocks without throwing out of gear or stopping the team. In working qualities it has no superior, having all the latest improvements. In simplicity, Compactness and Attractiveness it has no equal. Its Strength and durability are warranted.

PRICES:

One Horse Mower,	3 ft. 6 cut...	\$55 00
Two " "	4 ft. 3 " ...	60 00
Two " "	4 ft. 6 " ...	60 00

THE CHIEFTAIN HORSE HAY RAKE.

PRICE, . . . \$25.00.

Is a self dump lock lever Rake with 20 Spring Steel Teeth, each tooth fastened on the rake head separate. Axles fitted with thimble skeins. A slight motion of the lever unlocks it, causing the driver's weight to tilt the axle and discharge the load. It has no small Springs and Ratchets in it. A child can operate it with ease.

THE IMPROVED BAY STATE HORSE HAY RAKE.

PRICE, \$30 00.

It dumps from both wheels and is entirely operated by the foot. Only two lbs. pressure by the foot is required to dump it. Each tooth is independent of all the others, thus enabling it to pass over an obstruction 20 inches high, without in the least affecting the teeth next by the side of it. It can easily be worked by any boy or girl who can drive a horse.

REVOLVING HORSE HAY RAKES.

The Amenfa (the best)..... \$7 00 | XXX Square Tooth... ..\$6 00

THE MUDGETT IMPROVED HAY TEDDER.

A Tedder that can be handled easily by one horse. Undeniably the Lightest Draft and Best Working Machine in the market. The fork is attached to the handles in such a manner as to render breakages almost impossible. Hay Tedders have invariably been condemned for their heavy draft and liability to break in passing over obstructions. We especially call attention to the one great feature of the Mudgett Hay Tedder, which is, it can be run closer to the ground than any other, on account of the peculiar construction of the Forks. If they strike the Turf or an obstruction of any kind they slide over it instead of digging into it. For the same reason it will run one-third lighter than any other, and running closer to the ground it will

also do better work. It works equally well in light or heavy grass. Price, \$40.00.

GRAY'S LATEST IMPROVED HORSE POWERS,

For One, Two or Three Horses.

THRESHERS, SEPARATORS AND CLEANERS, AND MACHINES FOR SAWING WOOD.

The Best and Cheapest in Use.

Descriptive circulars and prices sent free on application.

GRANT'S FAN MILLS.

For Cleaning all kinds of Grain and Grass Seeds.

No.		In.	Price.
1,	Grant's Patent, 8 sieves,	16x20..	\$29 00
2,	" " 8 "	18x20..	32 00
3,	" " 8 "	20x20..	35 00
4,	" " 8 "	22x20..	38 00
5,	" " 8 "	22x22..	41 00
6,	" " 8 "	24x22..	44 00
1,	Bryan Grant's, 5 "	14x18..	18 00
2,	" " 5 "	16x18..	21 00
3,	" " 5 "	16x20..	24 00
4,	" " 5 "	18x20..	27 00
5,	" " 5 "	20x20..	29 00
6,	" " 5 "	22x20..	32 00

Special Circular and Price List furnished on application for Grant's Patent Coffee Cleaners and Sorters, Rice, Cochineal and Pimento Fan Mills.

Nishwitz or Improved Clinton Burrall Corn Sheller and Separator.

The Best in Use. Strong and Durable.
Price, \$6 00.

Made entirely of Iron. Separates Corn from Cob and adapted to all sizes of ears.
Price, \$7 00.

VIRGINIA HAND AND POWER CORN SHELLER, \$20.00.**PREMIUM FARM GRIST MILL.**

SIMPLE, DURABLE AND EFFICIENT.

Adapted only for power. for Grinding Meal and Feed. Will also Grind Corn on the Ear.

PRICES.

No. 1, with Steel Grinding Parts and with Sieve and Fly-Wheel....	\$60 00
No. 1, with Steel Grinding Parts and with Sieve and Fly-Wheel, and bolting attachment to make Family Flour.....	85 00
No. 1, with Iron Grinding Parts and with Sieve and Fly-Wheel....	50 00
No. 1, with Iron Grinding Parts and with Sieve and Fly-Wheel, and bolting attachment to make Family Flour.....	75 00
Howard's Farm Grist Mill for Hand or Power....	28 00

These Mills can also be used for Grinding Coffee, &c.

BIG GIANT CORN AND COB CRUSHER.

Grinds all kinds of Grain.

Prices and Capacity for Coarse Grinding.

No. 2, Sweep-Mill, One-Horse Capacity, 7 to 12 bushels meal per hour.... \$35 00

No. 3, Sweep-Mill, Light Two-Horse capacity, 10 to 15 bushels meal per hour.. 45 00

No. 4, Sweep Mill, Regular Two-Horse capacity, 16 to 20 bushels meal per hour. 60 00

Prices of Improved Mills for Fine Grinding.

No. 5, Sweep Mill, Light Two Horse capacity 2 to 10 bushels meal per hour..... \$50 00

No. 6, Sweep Mill, Regular Two-Horse capacity, 3 to 15 bushels meal per hour... 65 00

For coarse grinding, capacity of Improved Mills will be the same as Regular Mills.

THE RAPID GRINDER.

Is driven with pulley on the main shaft, which drives the grinding parts of the mill by cog-wheels. It can be driven with from one to ten horse power. The quantity produced will be in proportion to the power used.

Mill and pulley complete, weighs 600 lbs., price..... \$100 00

Capacity in coarse grinding, 25 to 40 bushels meal per hour and 6 to 15 bushels of finer grinding.

HAND MILLS.

For grinding Coffee, Corn and all kinds of Grain.

NONESUCH LEVER CUTTER.

This Iron Handle Lever Cutter is so simple and easy to work, as to commend it to everybody who has but a moderate amount of stock to feed. The knife is easy to adjust, grind and keep in repair. Changeable length of cut.

PRICES.

No. 3, \$5.00; No. 4, \$6.00; No. 5, for Drugs.....	\$8 00	No. 1, Straight Knife.....	\$5 00
Post Mill No. 2.....	1 75	No. 2, Curved ".....	5 50
Hand and Power.....	28 00	No. 3, ".....	7 50
		No. 4, ".....	9 50
		Long Knife Cutting Box.....	4 50

LION CUTTER.

For cutting Corn Stalks, Hay and straw, it is a perfect machine in every respect and guaranteed to do better work and wear longer than any other cutter in use.

Number.	Knives.	Length of Knives.	Length of Cut.	Price.
1	2	6 1/2	1/2, 3/4 and 1 1/2	\$18 00
2	2	7 1/2	1/2, 3/4 and 1 1/2	21 00
2 1/2	1	7 1/2	5/8, 7/8, 1 1/4 and 1 3/4	21 00
2 1/2	2	7 1/2	5/8, 7/8, 1 1/4 and 1 3/4	23 00
3	1	8 1/2	5/8, 7/8, 1 1/4 and 1 3/4	25 00
3	2	8 1/2	5/8, 7/8, 1 1/4 and 1 3/4	27 00
4	1	10	5/8, 7/8, 1 1/4 and 1 3/4	30 00
4	2	10	5/8, 7/8, 1 1/4 and 1 3/4	33 00
5	2	10	5/8, 7/8, 1 1/4 and 1 3/4	35 00
6	2	11	7/8, 1 1/4, 1 1/2 and 2	45 00
6 1/2	2	11	7/8, 1 1/4, 1 1/2 and 2	45 00
7	2	13	7/8, 1 1/4, 1 1/2 and 2	60 00
7 1/2	2	13	7/8, 1 1/4, 1 1/2 and 2	60 00
10	2	16	7/8, 1 1/4, 1 1/2 and 2	80 00
12	2	20	7/8, 1 1/4, 1 1/2 and 2	100 00

COPPER STRIP CUTTERS.

FOR CUTTING STRAW, HAY AND CORN STALKS.

No.	O.	3 Knives,	6 in.	Knife...	Price.
"	O $\frac{1}{2}$	3	6	"	\$9 00
"	A	1 Knife,	8	"	...10 00
"	1,	3 Knives,	6	"	...11 00
"	2,	3	6	"	...12 00
"	2 $\frac{1}{2}$,	2	7	"	...15 00
"	3,	3	6	"	...14 00
"	4,	3	7	"	...15 00
"	5,	3	7	"	...16 00
"	5 $\frac{1}{2}$,	2	10	"	...18 00
"	6,	3	8	"	...20 00
"	8,	3	10	"	...35 00
"	9,	3	12	"	...40 00

These machines cut easier and faster than any other of like price, using same power and cutting as short as this. The large sizes will cut faster than any other Cutter, without regard to price. They are easier sharpened and repaired than any other self-feed-

ing Feed Cutter, will generally cut well from 3 to 5 years without grinding, make a clean, uniform cut, and do not clog. All parts of the machines are easily and cheaply replaced by the farmer, and the knives and coppers are made so that if they are ever broken or worn out, they can for a few cents each be duplicated and put on at home.

The Copper does not dull the Knives, and is durable.

SPIRAL KNIFE, HIDE ROLLER, HAY CUTTERS.

No. of Cutter.	No. of Knives.	Length of Knives.	Length of Cut.	Price.
00	4	6 inch.	2 inch.	\$6 50
0	5	6 "	1 $\frac{1}{2}$ "	7 00
1	6	6 "	1 $\frac{1}{2}$ "	8 00
2	6	6 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	9 00
3	6	7 "	1 $\frac{1}{2}$ "	11 00
4	6	8 "	1 $\frac{1}{2}$ "	12 00
5	6	9 "	1 $\frac{1}{2}$ "	14 00
6	6	10 "	1 $\frac{1}{2}$ "	20 00
1	8	6 inch.	1 inch.	8 50
2	8	6 $\frac{1}{2}$ "	1 "	9 50
3	8	7 "	1 "	11 50
4	8	8 "	1 "	13 00
5	8	9 "	1 "	15 00
6	8	10 "	1 "	21 00
1	10	6 inch.	2 $\frac{1}{2}$ inch.	9 00
2	10	6 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	10 00
3	10	7 "	2 $\frac{1}{2}$ "	12 00
4	10	8 "	2 $\frac{1}{2}$ "	14 00
5	10	9 "	2 $\frac{1}{2}$ "	16 00
6	10	10 "	2 $\frac{1}{2}$ "	22 00

This Cutter is one of the BEST and CHEAPEST in the market. It requires but little power to operate it. The Knives cut against a Hide Roller, which will last a long time without repairing.

DANIEL'S SELF-SHARPENING FODDER CUTTERS.

These Cutters are especially adapted for cutting **Ensilage**. Are largely in use. Very strong and durable. One horse power will drive either size.

No. 1,	10 inch Knives for Hand or power (Improved Right Hand).....	\$25 00
" 2, 16 "	" " " Power. Capacity one ton of Dry Fodder per hour.	60 00
" 5, 16 "	" " " " takes whole bundle Stalks in at once.....	100 00
Elevator for No. 5.....		15 00

NO. 2 "ACME" ENSILAGE CUTTER (cuts six lengths) \$75.00.

The Whittemore Root and Vegetable Cutter.

This is a simple, strong and good Cutter. Cuts fine enough for Cattle and Sheep. Capacity about sixty bushels per hour. No. 1. Price \$10.00. With pulley for power \$12.00. No. 2. For Power only, \$18.00.

The Boston Root Cutter.

This is a strong, durable Cutter. Cut the Roots in thin, small slices. Capacity about fifty bushels per hour. Price \$14.00. Pulley for Power, extra, \$2.00.

Telegraph Cider and Wine Mill.

The above Mill has been thoroughly tested and gives perfect satisfaction. The apple is so completely crushed, that no juice cell is left unbroken. They are made in three different styles.

PRICES.

Single Crank Mill		\$30 00
Double " "		33 00
Junior " "		18 00

Family Cider Mills and Wine Presses.

A good Mill where small quantities of Cider and Wine are required to be made.

No 1.....	\$15 00	No. 0.....	\$12 00
Hutchinson's Grinder, alone.....	8 00		
" Press No. 1.....	10 00		
" " " 2.....	20 00		
No. 1, Wine Press.....	5 00		
" 2, " ".....	6 00		
" 3, " ".....	12 00		
Family " ".....	3 00		

CYLINDER CHURNS.

A Favorite Style of Churn in use for many years in this country, and Largely Shipped to Foreign Countries.

PRICES.

No. 1, capacity 2 3/4 Gallons.	\$2 50
" 2, " 4 " "	3 00
" 3, " 7 " "	3 50
" 4, " 10 1/2 " "	4 00
" 5, " 15 " "	4 50

PERFECT MILK PAIL.

Preserves the milk from dirt of any kind and from the atmosphere of the stable, which gives it the so-called animal odors.

It is a seat for the milker; holds 14 quarts; cannot be stepped in or kicked over by the cow; the milk is strained before entering it.

Price.....\$2 25

THE STODDARD CHURN.

Awarded First Premium after thorough test at the Largest Exhibition of Dairy Apparatus ever made in this Country at Philadelphia, Sept. 6-25, 1880.

Is easily operated, easily cleaned, is made of white oak in the most thorough manner. It will last for years. The principle is concussion and not friction—has no floats or paddles inside.

It is especially adapted to the GRANULAR SYSTEM of making butter.

The grain of the butter is perfectly preserved, which adds to its keeping qualities.

PRICES.

No. 1, 10 gal. Churn, churns from 1 to 4 gal. cream.	\$8 00
" 2, 15 " " " 2 " 7 " "	9 00
" 3, 20 " " " 3 " 9 " "	10 00
" 4, 25 " " " 4 " 12 " "	12 00
" 5, 35 " " " 5 " 16 " "	14 00

With heavy frame and 12 inch iron pulley for power, \$3.00 extra.

No. 5 1/2, 45 gal. Churn, churns from 5 to 20 gal. cream. 17 00

" 6, 60 " " " 6 " 28 " " 20 00

" 5 1/2, with heavy frame, metal bearings and 12 inch iron pulley.....20 00

No. 6, with heavy frame, metal bearings and 12 inch iron pulley.....23 00

Cone Pulley Attachment for Dog Power.....3 00

No. 7, 90 gal. Churn, churns from 10 to 40 gal. cream, with tight and loose pulleys, without frame to be hung with stationary uprights.....30 00

No. 7, with frame complete.....35 00

No. 8, 120 gal. Churn, churns from 10 to 60 gal. cream, with tight and loose pulleys, without frame to be hung with stationary uprights.....35 00

No. 8, with frame complete.....40 00

PATENT BUTTER WORKERS.

It is a Machine that is very efficient in its work, simple in its construction, and convenient to handle, it will work a batch of butter in from three to five minutes, according to the condition of the butter working out the butter-milk and thoroughly mixing in the salt, doing the work far quicker and better than it can be done by hand. It consists of a tray and a roller with paddles, which is turned by a crank, and traverses from end to end of tray. It acts on the butter on precisely the same principle as a ladle in the hands of a person, but with perfect uniformity.

PRICES.

No. 1, Capacity, 50 lbs.....	\$10 00
" 2, " 30 "	8 00
" 3, " 20 "	7 00
" 4, " 10 "	6 00
" 0, " 75 "	12 50
" 00, " 112 "	15 00
" 000, " 150 "	18 00

GARDEN BARROWS.

No. 1, Garden Barrow (Boys).....	\$4 00	No. 3, Garden Barrow.....	\$6 00
" 2, " "	5 00	" 4, " "	7 00
Boys " "	Painted and Striped.....		3 50

Iron Well & Cistern Pumps.

PRICES.

No. 0.....	\$3 50
" 1.....	4 00
" 2.....	4 50
" 3.....	5 00
" 4.....	5 50
" 5.....	6 50
" 6.....	8 00

FORCE PUMP

No. 0.....	\$10 00
" 1.....	12 00

Plain and Galvanized Iron Pipe furnished and fitted for any depth required, also Pumps for driven wells

WATER DRAWER OR WELL CURB.

Price, Open Curb, complete.....	\$10 00
" Closed ".....	12 00
" Fixtures for Chain Curb.....	1 50
" Buckets.....	75 to 1 50
Rubber Bucket Pump, complete, for ten foot Well.....	5 00

Darnell's Patent Furrower and Marker.

This implement is the best device for marking out or covering rows, etc., that has yet been produced.

It will run steadier, open a better row either in hard or soft ground than any other marker in use. It is not choked out by manure, trash or clods, and leaves the earth in the bottom of the furrow in a pulverized condition, thus making an excellent seed bed.

The runners and markers are adjustable, and will mark any width desired, from two and a half to five feet, and from a mere mark to six inches in depth. Width of furrow from two to five inches as desired. The gauge or guide pole is so constructed as to adapt itself to all the inequalities of the ground. Price.....\$20.00.

GARDEN AND LAWN ROLLERS.

PRICES WITH WEIGHTS.

2 Section, 7½ inch face, 15 inch diameter, about 125 lbs....	\$ 8 00
1 " 12 " " 20 " " " 140 ".....	10 00
1 " 20 " " 20 " " " 220 ".....	14 00
2 " 12 " " 20 " " " 300 ".....	18 00
3 " 12 " " 20 " " " 450 ".....	25 00
1 " 12 " " 24 " " " 200 ".....	13 00
2 " 12 " " 24 " " " 400 ".....	22 00
1 " 12 " " 28 " " " 250 ".....	16 00
2 " 12 " " 28 " " " 500 ".....	26 00
3 " 12 " " 28 " " " 700 ".....	40 00

Field Rollers, see page 48.

COAL, RAILROAD AND CANAL BARROWS.

Canal Barrow.....\$1 50 | Coal Barrow.....\$6 00

MEAT AND VEGETABLE CUTTERS.

PRICES.

No 1, Family Size..	\$5 00
" 2, " " " " " "	7 00
" 3, Hotel " " " " " "	10 00
" 4, Butcher's Size.....	25 00
" B, " " " " " "	50 00
" 5, " " " " " "	60 00

PRICES.

No. 1, Sausage Meat Cutter....	\$3 00
" 2, " " " " " "	3 50
" 3, " " " " " "	4 75
" 1C, Enterprise Meat Chopper.....	3 00

BUTCHERS' SIZES.

No. 4, Sausage Meat Cutter (Geared)....	\$8 50
" E, " " " " " "	13 00
" D, " " " " " "	25 00
" C, " " " " " "	50 00

DRAIN TILE.

Prices on application.

FAMILY WASHING MACHINES & CLOTHES WRINGERS.

PRICES.

Nonpareil No. 1 Washer.....	\$18 00	with Wringer	\$23 00
" 2 " " " " " "	20 00	" " "	25 00
" 3 " " " " " "	25 00	" " "	31 00
" 3 " " ex. strong	35 00	" " "	41 00
" 3 " " for power.	50 00	" " "	59 00

WILSON'S BONE AND SHELL MILL

PRICES.

Doty's Family Size, without Wringer.	\$14 00
" Hotel Size. " " " "	16 00
Universal Family Wringer.....	5 00
" Hotel " " " " "	9 00

They are a complete success for crushing oyster shells, grinding bone meal, and all kinds of grain, coarse or fine for Family or stock use. Also grinds corn and cob. A peck of shells can be crushed in fifteen minutes. They are made in the very best manner. They can be adjusted for grinding either coarse or fine. Whole oyster shells can be put in the mill, as well as bones of the same size.

Price.....\$5.00

Send for special Circular.

SAUSAGE FILLERS.**PRICES.**

No. 0, 1 Tube.....	\$2 00
" 1, 1 " \$3 75; with 2 Tbes	4 50
" 2, 1 " 4 25; " 2 "	5 00
" 3, 1 " 4 75; " 2 "	5 50
" 4, Geared, 1 Tbe \$7 25; 2 Tbe	8 00
" 5, " 3 " Gal'zd Iron	17 00
Family size.....	2 00

DIRT SCRAPER OR OX SHOVEL.

For removing earth and scooping out ditches, drains and any excavations.

PRICES.

No. 1, with iron back	\$6 00
" 2, " " "	7 00
" 2½, " " "	8 50
" 3, " " "	9 00
" 4, " " "	10 50
" 5, " " "	13 50
" 1, wood back....	6 50
" 2, " " "....	7 50
" 3, " " "....	10 00
" 2. Steel Scraper..	10 50

FARM AND HAND CARTS, WAGONS, &c.**WAGON JACKS.** **PRICES.**

Narrow Tire Farm Cart.....	\$50 00
Wide " " ".....	55 00
Hand Cart, 2 wheels.....	\$12 00 25 00
" " 3 " ".....	27 00; 30 00 35 00
Light Hand Cart, 3 wheels....	15 50 18 00
Hand Sprinkling Barrel.....	\$15.50; 30 00
" Water Barrel.....	12 00 to 30 00
Combined Hand Cart & Water Barrel	15 00
Farm Wagons.....	\$65 00 to 150 00
Horse Watering Carts....	\$75 00 to 110 00

PRICES.

No. 1, Little Giant.....	\$2 25
" 2, " " ".....	2 75
Climax.....	\$1 75 to 2 25
Eclipse, Rodgers & O. K.	75 to 1 50
Samson No. 0, \$3 00; No. 1, \$4 00;	
No. 2.....	5 00
Hercules No. 1, \$3 00; No. 2...	5 00
Meeker No. 3, \$1 75; No. 2.....	2 50

FOLDING CHICKEN COOPS.

For the protection of all kinds of young poultry. It has an elevated bottom which protects the brood from cold and exposure. When not in use can be completely folded together occupying very little space.

Price.....\$2 25

POULTRY FOUNTAIN.	
PRICES.	
2 Gallons.....	\$2 00
4 ".....	2 75
5 ".....	3 00

All the Choice Breeds of POULTRY and EGGS for Setting, furnished at reasonable prices.

SARDY'S PHOSPHO-PERUVIAN GUANO, per ton \$36.00.

Send for Special Circular.

Aquarius or Portable Hand Force Pump.

A valuable article for washing windows, carriages, watering gardens and sprinkling liquid solutions for destroying insects on trees, shrubs, &c. Price \$9.00.

IXL Self Gauging Butter Printer.

It is designed not only to print the butter, which it does very neatly and quickly but also *weighs* or *gauges* it into pounds or half-pounds, as desired. In one-quarter the time it can be done by hand.

In these days of imitation and adulteration, I would advise every one making butter to have their monogram, or initials cut on the butter print. This would prevent imitation. To a person making a uniform good article this would be of incalculable value.

Price—For 2 lb. Printer.....\$11.00
 “ either pound or half-pound..... 10.00
 “ both and 13.50
 \$1.00 extra for Monogram or Initials.

Regular size of 2 lb. Print—6 in. long by 3¼ in. wide
 “ “ “ 1 “ “ 4¾ “ “ “ 2½ “ “
 “ “ “ ½ “ “ 3¾ “ “ “ 2¼ “ “

Special sizes can be made to order.

PORTABLE FOUNTAIN PUMP.

It can be used in any desired position and will easily throw a stream of water forty to fifty feet, and with the *Sprinkler* attached will spread the water in a gentle shower or spray. A lady or child can use it easily and effectively. Price, with Sprinkler and Hose complete, \$8.00.

Holland's Hand Pump and Sprinkler.

New, Simple, Efficient. Price, \$6.00.

Hickory Stable Fork.

This Fork cannot injure stock; safe, light and durable. Price 75 cents.

Perfection Lawn and Garden Sprinkler.

The bearings and working parts are made of brass. It has only to be screwed to the hose and the pin stuck in the ground to be used. Price, \$1.00.

BRASS GARDEN SYRINGES.

These are of various sizes. The cut shows the American Brass Syringe, made with the ordinary plain jet, and with two roses of different sized holes, which are attached to the sides of the syringe when not in use, and represent numbers 2, 3 and 5. When provided for in this way the roses are less liable to be lost.

No. A, 12 in. long, with one Stream and one Spray Rose.....	\$2 25
“ B, 13½ “ “ “ “ “ “ “	2 75
“ C, 14 “ “ “ “ “ “ “	3 50
“ 2, 13½ “ “ attached roses as shown in cut.....	4 25
“ 3, 18 “ “ “ “ “ “ “	6 50
“ 5, 18 “ “ “ “ “ “ “	7 00

We also have Syringes of Tin, price, 75 cents.

ACME PORTABLE SPRINKLER, \$3.50.

WATER'S TREE PRUNERS.

A good Tree Pruner is indispensable, and this one meets every requirement. A person having even a limited number of trees cannot afford to do without it. *It does not crush the wood like the thick bladed shears, and covers a greater range of work than any other. It is the lightest device made for the purpose, and makes a smoother cut than any other.* With it, pruning can be done standing on the ground, without ladder or climbing.

There is no kind of pruning or trimming where Water's Pruner cannot be used to advantage. In trimming rose or berry bushes, the thorns of which are so annoying, it has proven itself peculiarly serviceable, the hook enabling the operator to pull out the cut branches without touching them with the hand. It is also very useful for work in orange groves.

PRICES.

Length of pole 4 feet, weight 2 1/2 lbs.	\$2 00
" " 6 " " 2 3/4 "	2 25
" " 8 " " 3 1/2 "	2 50
" " 10 " " 4 1/4 "	2 50
" " 12 " " 5 "	2 75
Extra Knives, each	30

LADIES' AND CHILDRENS' GARDEN TOOLS.

Price, per set, (small).....\$1 25
 " " (large).....1 75

THE CLIMAX GROUND MOLE TRAP.

It stands without an equal

For the following reasons: Being a self-setting Trap there is no danger to the party setting it. It is set by merely raising the Pin plate to the latch, therefore needing no arrangement to hold the spring. It is the only spring trap that can be set under a HOT FRAME, as the setting rod returns back to its original position after the trap has been set, making the trap when set only eleven and one-half inches high over all, which of itself is a great advantage over all other traps. It has two springs therefore giving it more spring power than any other trap. The points of the needles do not leave the ground after the trap is set, therefore leaving the mole run perfectly dark, and making it safe to chickens and other domestic animals. The wind or weather cannot effect as it is made of all Iron and Steel; it is light, neat durable and attractive. Price, \$1.50.

EXCELSIOR WEEDING HOOK.

This instrument will work well among rows of seedlings, among ornamental plants or in any place where freedom from weeds is desired, and one of the best instruments ever offered for this purpose.

Price, 20 cents.

AMERICAN FRUIT DRYER.

It is the best in use, gives perfect satisfaction; no Farm Implement will pay its cost so quickly; with it the individual farmer can cheaply convert his surplus fruit into evaporated stock and thus find sale for what would otherwise be lost.

PRICES.

No. 0. Capacity 3 to 4 bushel Apples per day	\$25.00
" 1. " 6 to 8 " " " "	50.00
" 2. " 12 to 15 " " " "	75.00
" 3. " 30 to 40 " " " "	175.00
" 4. " 90 to 110 " " " "	350.00

HALSTED'S PERFECTED CENTENNIAL INCUBATORS.

The handsomest, most durable and best hatching machine in the world. Positively Automatic in Regulation, Ventilation and Moisture. Winner of First Prize in every Exhibition for Nine consecutive years. No Electricity, Clock-work, or complicated machinery. Every Machine fitted with Double Regulator, thus positively preventing over heating. Never requires watching at night and will hatch every egg that can be hatched.

MARK THIS:—When you buy an Incubator you want one which in case of necessity, you can leave to the care of your help or children. The Centennial is such a machine.

No. 0, 50 Eggs, \$30.00; No. 1, 100 Eggs, \$45.00; No. 2, 300 Eggs, \$75.00; No. 3, 500 Eggs, \$110.00.

Send for special Illustrated circular for further information.

Dog, Calf and Pony Powers for Churn- ing, Pumping Water, Etc.

PRICES.

Dog Power.....	\$15 00
Calf or Pony Power.....	50 00
Churns, additional.....	\$1 75 to 5 00

BARREL HEADERS —OR— Fruit and Potato Presses.

Price, \$2 00.

Every Farmer, Grocer, Fruit and Potato Packer should have one. The above cuts represent Machines which have been extensively used for Packing Fruits in Barrels and are acknowledged to be the BEST articles that can be produced for HEADING BARRELS WHEN FILLED WITH FRUIT, POTATOES, or anything that requires pressing.

OX YOKES.

The regular pattern. Can furnish any other styles required.)

PRICES COMPLETE.

No. 1, 7 in. on neck.....	\$6 00
" 2, 7½ " ".....	6 50
" 3, 8 " ".....	7 50
" 4, 8½ " ".....	8 00
" 5, 9 " ".....	9 00
" 6, 9½ " ".....	9 50
" 7, 10 " ".....	10 00
Plain Ox Yokes.....	\$1 50 to 3 00
Ox Bows, per pair.....	75c. to 1 50

THE ACME FERTILIZER DISTRIBUTER. IMPROVED FOR 1889.

This machine has now been in successful use for several years, and stands without question as the *only Perfect Fertilizer Distributer* on the market. Its popularity among the market gardeners near the great cities is unbounded, notably so in the neighborhood of New York and Brooklyn. The Acme does what no other similar machine can equal in the quantity and regularity of its distribution. It is *free from all complicated devices*, and will distribute any Manufactured Fertilizer uniformly in the furrow at any desired quantity per acre. It is drawn by horse power, and has a cultivator attachment, which effectually mixes the fertilizer with the soil (all in one process). A screw at the top of hopper works a slide by which the discharge is quickly regulated. It is thrown in or out of gear instantly by a combination lever at the right hand, without taking the hand off the handle or checking the speed of the horse. The demand for these machines has hitherto been so much greater than the supply that I have arranged to build them in large quantities for this season's trade. My aim is to have one in use by every live Truck Farmer in the United States. Price, \$18.00.

ROAD, LAWN, TRACK AND FIELD ROLLERS.

PRICES AS SHOWN IN CUT.

3	Section, 12 inch face by 20 inch diameter, about 550 lbs.	\$30 00
4	" 12 " " 20 " " " 650 "	35 00
5	" 12 " " 20 " " " 750 "	40 00
4	" 12 " " 24 " " " 850 "	45 00
5	" 12 " " 24 " " " 1,000 "	50 00
6	" 12 " " 24 " " " 1,200 "	60 00
4	" 12 " " 28 " " " 950 "	50 00
5	" 12 " " 28 " " " 1,150 "	60 00
6	" 12 " " 28 " " " 1,350 "	70 00
4	" 12 " " 36 " " " 1,400 "	75 00
5	" 12 " " 36 " " " 1,700 "	85 00
6	" 12 " " 36 " " " 2,000 "	100 00
Whiffletrees, extra.....		3 00
Neck Yoke, extra.....		3 00

Stoddard Creamery and Refrigerator.

The
Latest and
Best.

"Cream
Raising Apparatus of the
Period."

With Patent Skimming Attachment.

The cream is drawn off the milk through an adjustable tube with funnel shaped top, the tube passing down through the milk and bottom of the can through the faucet. The milk is afterwards drawn through the faucet.

Descriptive Circulars and Prices sent free on application

"LITTLE GIANT"
POST HOLE DIGGER.

PRICE, \$2.50.

Post Hole
Digger.

Price \$3.00

This tool has been thoroughly tested during the last five years, and, as yet, no place has been found where it has failed to do its work satisfactorily. One man with this digger can do FIVE TIMES as much work in the same time, as can be done in any other way. The blades are made of the best cast-steel "trowel temper," and the head pieces of the best malleable iron. Every tool is warranted. The length of the steel blade is nine inches, and the extreme length of the tool is five feet; weight only 10 lbs.

"EAGLE" COTTON GINS, FEEDERS AND CONDENSERS.
Send for Special Circular.

PATENT BARB WIRE FENCING.

A Good Substantial Fence for Farms or
Railroads.

I am prepared to furnish this Wire in any quantity required; also Staples Stretchers, Pincers, Wire Cutters, Post-Hole Diggers, Iron Posts, &c. Orders and letters of inquiry promptly attended to, and samples sent by mail to any part of the world, when requested.

Price of Galvanized Fencing, 6 cents per lb. of about 15 ft.

Above prices for quantities of not less than one Roll.

One Thousand Pounds of Wire will make over A MILE of Fence of three lines.

SOUTH BEND PUMPS.

ADAPTED FOR WELLS OF ANY DEPTH. THEY THROW MORE WATER, WORK EASIER, AND LAST LONGER THAN ANY OTHER PUMP.

PRICES.

For 10 foot Well, about.....	\$4 50
" 15 " " "	5 00
" 20 " " "	7 00
" 25 " " "	7 85
" 30 " " "	9 70
" 35 " " "	11 20
" 40 " " "	12 70
Pumps, Porcelain Lined, extra...	2 00

Special prices furnished for Wells of greater depth.

Capacity of above pumps, 15 to 30 gallons per minute.

Large Pumps for watering stock, adapted to wells 25 feet and under (capacity 90 gallons per minute), add ten per cent. to above prices.

IMPROVED FARMERS BOILER.

PRICES.

	With cover.	Without cover.
90 Gallons (for wood)...	\$69 00.....	\$10 00
75 " "	57 50.....	50 00
60 " "	46 00.....	40 00
45 " "	35 00.....	30 00
30 " "	24 00.....	20 00
20 " "	18 00.....	15 00
15 " "	14 50.....	12 00
WHEELS, per set, extra.....		4 00

COAL FIXTURES (Extra.)

90 Gallons.....	\$5 50	30 Gallons.....	\$3 75
75 "	5 50	20 "	3 00
60 "	5 50	15 "	3 00
45 "	4 50		

FOR BOILING FEED FOR STOCK, they are unequalled in every respect. They are used for all boiling purposes, and *save fuel, time and money.*

THE RICHMOND SOD CUTTER.

This machine is meeting with high endorsement and has proved to be a **great success**. It will enable you to beautify your grounds, parks and lawns at a low minimum of cost.

It cuts the sod of uniform width and thickness, in any length, so that it is particularly adapted to giving solidity to slopes in cuts and on embankments, working equally well on level or uneven surface, cutting both ways with the land and leaving

no sod uncut. Being light of draft, easily rents me in making this recommendation.

One machine will cut from 30,000 to 40,000 square feet per day, thus doing the work of FORTY men.

I guarantee the expense saved between cutting by hand and with horse power, in one day, to pay the price of the machine.

EVERY CUTTER WARRANTED.

PRICES :

8-inch Machine (Hand).....	\$15 00
12-inch Machine (Horse).....	30 00
14-inch Machine (Horse).....	32 00

THE DAVIS LAWN AND FIELD RAKES.

Made in the most thorough manner, of the best material, best quality of Spring Steel Teeth.

A perfect implement for cleaning lawns from leaves, grass, and all kinds of rubbish, and the only one that will do it without injuring the grass and roots.

Will level and prepare a garden bed for the seed better and quicker than any other tool.

It requires many years of great care to produce a fine lawn, which may be injured and perhaps ruined in a short time by using common rakes.

Prices, Lawn Rake, 75c., 60c., 40c., and 35c.
Field Rake, 40c.

HAND WATER BARREL.

For the transportation of water and slops, for watering stock, plants, sprinkling lawns, etc., it really becomes indispensable when once used. It is emptied by swinging on the centre.

Price with Narrow

Tire Wheels \$28 00

Price with Wide

Tire Wheels 30 00

I also have one mounted on low wheels from which the barrel can be instantly detached, and a Box put in its place to make a Hand Cart.

Price of Bbl. \$12 00

" and Box 15 00

Sprinkling Attachm't, 3.50

IMPERIAL EGG FOOD.

FOR ALL VARIETIES OF

Poultry, Laying Hens, Young Chicks
Ducks and Turkeys.

WILL MAKE HENS LAY

Winter and Summer, support fowls during moulting, keep them constantly in fine condition, and increase their profit 100 per cent. Half of the

(Trade Mark.)

chicks die annually; this makes bone and muscle early and will save them. 1 lb. packages to mix with 50 lbs. ordinary feed, 50 cents; 2½ lbs. \$1.00; 6 lbs. \$3.00; 10 lbs. \$3.00, and 25 lbs. \$6.25.

CHINA NEST EGGS, per doz. 50 cents.

HAND SPRINKLING BARREL.

For sprinkling Walks, Lawns and Strawberry Beds, can also be used for distributing Liquid Manure.

Prices.

With narrow Tire Wheels,
\$28 00.

With wide Tire Wheels,
\$30 00.

STORE AND WAREHOUSE PLATFORM TRUCKS.

PRICES.

No. 1, size of platform,	3 ft.	x	2 ft.	\$10 00	No. 4, size of platform,	3 ft.	6 x	2 ft.	6.....	\$15 00
" 2, " "	3 "	"	2 "	12 00	" 5, " "	3 "	"	8 "	8	16 00
" 3, " "	3 "	4 "	2 "	14 00	" 6, " "	3 "	10 "	2 "	10	18 00

Special Sizes Made to Order.

HAND TRUCKS.

TOBACCO AND DRY
GOODS CASE TRUCKS.

PRICES.

Numbers.	Plain.	Barrel Pattern.	Strapped up.	Cotton Pattern.
No. 1.....	\$4 75	\$6 75	\$5 75	
No 2.....	5 75	7 75	6 75	
No. 3.....	6 75	8 75	7 75	
No. 4.....	7 75	9 75	8 75	\$9 00
No. 5.....	9 25	11 25	10 75	10 75
No. 6.....	12 00	14 00	14 00	14 00

For the Transportation of Heavy Cases,
and all packages too heavy to be lifted far
above the floor

PRICES.

Block or Tobacco Truck.....	\$3 50
Dry Goods Truck.....	16 00
Bag Holder and Truck combined.....	3 00

RICE'S PATENT CALF WEANER, And Sucking-Cow Muzzle.

For preventing Calves and Cows sucking themselves
or each other.

Habits most injurious to the animal and costly to the owner. It is no hindrance to either eating or drinking, does the animal no injury. has been thoroughly tested, is used and endorsed by the best stock raisers in the United States and England, and acknowledged by all to be the best thing ever made for the purpose.

PRICES.

No. 1. For Calves till one year old, 50c.; by mail, post paid 55c.
No. 2. From one to two years old, 75c.; by mail, post-paid, 80c.
No. 3. For full-grown animals, \$1.00; by mail, post-paid, \$1.12.

GARDEN AND HORTICULTURAL IMPLEMENTS.**HEDGE SHEARS.**

8 in. \$1.75; 9 in. \$2.00; 10 in. \$2.25
With notch 25c. extra.

BORDER SHEARS.

8 in. \$2.25; 9 in. \$2.50; 10 in. \$2.75;
with wheel 50 cents extra.

HAND PRUNING SHEARS.

Wiss, No. 1.....\$1.75
" " 2.....1.55
" " 3.....1.40
Conn. " 1.....60

VINE SCISSORS.

5 in. 75c.; 6 in \$1; 7 in. \$1.25

GARDEN TROWELS.

6 inch.....	20 cents.
7 ".....	25 "
8 ".....	30 "
English, 5 inch.....	60 "
" 6 ".....	80 "
" 7 ".....	\$1 00 "
" 8 ".....	1 25 "

SCUFFLE HOES.
Price with handle.

5 in. 70c. 6 in. 75c. 7 in. 80c.
8 " .85 9 " .90 10 " .95

Flower Gatherer.

Price 50 cents.

GRASS EDGING KNIVES.

Price, with handle, 9 inch
\$1.00; 10 inch \$1.10

Sheep Shears and Border Trimmers.

Prices, \$1.00, \$1.25 and \$1.50

BILL HOOKS.

No. 1. \$1.25; No. 2. \$1.50

English Lawn Scythes 30 in. \$1.15 32 in. \$1.20 34 in. \$1.30;
36 in. \$1.40; 38 in. \$1.50; 40 in. \$1.60. Snath, 75c.

Spades and Shovels, \$0.75 to \$1.25

Brush Hooks, \$1.25

Manure Forks, \$0.75 to \$1.50

Garden Hoe, 40c., 45c., 50c.

PRUNING SAWS.

18 in. 75c., 20 in. 90c.

PRUNING KNIVES.

Price, 75c. \$1.00, \$1.25.

BUDDING KNIVES.

Price \$1.00, \$1.35.

Also a full assortment of Agricultural Implements and Horticultural Tools for the Farm and Garden not here illustrated.

Descriptive circulars of the leading implements mailed free on application.

EAGLE COTTON GINS.

These Gins are of the very best material, workmanship and finish ; and, with the many improvements that have been adopted from time to time, I confidently claim that, for quality and quantity of work, ease of management, and durability, they are unexcelled.

Hand-Gins are intended to be propelled by hand power, having a crank at both ends of the saw-cylinder ; but any other power may be applied to them, a driving pulley being packed with each machine for that purpose. They have either 8, 10, 12, 14, 16, 18, 20 or 25 saws each ; are strongly packed for transportation in one box, weighing three hundred to four hundred and fifty pounds, and measuring twenty-five to thirty-five cubic feet each.

Power Gins, intended for steam water, horse or other power, are strongly packed in one, four or more boxes, weighing one thousand to two thousand pounds, and measuring sixty to one hundred cubic feet each. They have either 30, 35, 40, 45 to 80 or 100 saws each. Packing-boxes are hooped with wood or iron, when so ordered. Power-Gins ordinarily require a horse-power to fifteen saws, or say a 30-saw Gin two horses, a 60-saw Gin four horses, &c.

I also furnish Feeders and Condensers when so ordered.

☛ Send for Descriptive Catalogue, Prices and Discounts.

MINNICH'S BALING PRESS.

For all products requiring baling, will turn out more bales with less labor in a given time than any press made.

Entirely new in principle. Ends open out with sides, leaving bale clear all around, giving no labor to get it out.

Any one having rags, waste cotton, hair, hides, paper, hay, straw, hemp, hops, broom corn, manilla, tobacco, stems, manure, &c., should have one of these new improved presses.

Presses built to order for any sized bale of any product desired. Regular sizes according to products from 4 to 4½ feet long, 24 to 27 inches wide, 4½ feet deep will make bales of rags, weighing 500 lbs. ; cotton, 400 lbs. ; wool, 500 lbs. ; moss, 250 lbs. ; hair 450 to 500 lbs. ; hay, 175 lbs.

PRICE, \$60.00 to \$65.00.

Warranted unsurpassed for power, simplicity, strength, durability, ease and quickness of operating.

THE NEW MODEL AND EXCELSIOR

Lawn Mowers

NEW MODEL MOWERS.

10 Inch Cut Croquet	\$11 00	16 Inch Cut	\$19 00
10 " " "	13 00	18 " " "	21 00
12 " " "	15 00	20 " " "	23 00
14 " " "	17 00		

EXCELSIOR ROLLER MOWERS.

10 Inch Cut	\$13 00	16 Inch Cut	\$19 00
12 " " "	15 00	18 " " "	21 00
14 " " "	17 00	20 " " "	23 00

The New Model, the latest and best Mower, combines every improvement that nearly a score of years experience can suggest or mechanical skill devise. For Simplicity, Durability, and Quality of work it is unequalled, while for Lightness of Draft it excels by a large per centage, any other Lawn Mower made. I fully guarantee every claim I make, and am ready at any time to practically demonstrate their truth. A most thorough trial is solicited.

The lightest Roller Mower in the market is the Excelsior. It is most easily operated; cuts borders best. Leaves the Lawn in the best condition, and does the most perfect work. Those wishing a Lawn Mower of this pattern are advised to give the Excelsior a trial.

SHOWING SIDE-DRAFT ATTACHMENT.

I guarantee this to be the Best Horse Lawn Mower Manufactured, and to do Perfect Work. Its Sectional Caster Wheels do not roll down the Standing Grass nor leave marks on the Lawn. Its Side-Draft Attachment allows the horse to walk *ONLY* on the Cut Grass. Every Mower fully Warranted. A TRIAL IS SOLICITED.

PRICES.

25 Inch Cut <u>without</u> Seat or Shafts.	\$65	35 Inch Cut, with Seat and Shafts	\$135
30 Inch Cut, with Seat and Shafts.....	110	40 Inch Cut, with Seat and Shafts.....	170

No seat can be used on the 25 inch Mower, but, when ordered, Shafts, and Side-draft Attachment will be furnished. Price, \$12 50. Horse boots, per set of four, \$12 00.

Full Directions for Setting-up, Adjusting and Using, Accompany each Mower.

Above prices are subject to a special discount to all purchasers.