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BROWN'S
SEED
CATALOGUE

S

TWENTY-SEVENTH ANNUAL EDITION

1912



ALFRED J. BROWN
SEED COMPANY
GRAND RAPIDS, MICH.

27th YEAR

AN EXPERIENCE of more than a quarter of a century in Seed Growing, with a record behind it of continued success, should be a pretty safe guarantee to those not already our customers that Our Seeds are dependable. We have a long list of satisfied customers, many of them still trading with us who bought Our Seeds twenty-five years ago.

GOOD SEEDS

It is no longer necessary to advocate to the successful grower the great importance of planting Good Seeds. Those who farm or garden for profit know too well what it means to lose a whole season's work by planting poor Seeds. The universal demand for Good Seeds is so apparent that any progressive seedsman must supply this demand if he expects to continue in business for any length of time. Impure Seeds, and especially those of low vitality, are no longer sought for by those who expect to make the farm or garden a success. It is only the amateur of today who is attracted by low prices. If long experience in Seed Growing, where expense in producing them is not spared, together with the latest and best methods of up-to-date machinery for cleaning and preparing them for the planter, are worth anything, then you can be reasonably sure that the Seeds we offer are good.

SHORT SEED CROPS

The unprecedented short crops of some varieties of Seeds of the crop of 1911, is the direct result of advanced prices for Beet, Mangel, Carrot, Peas, Parsnips, Parsley, etc., as well as Timothy, Clover, Vetch, Blue Grass, Red Top, etc. The general list, however, is about normal, with the exception of early seed potatoes which are very scarce and will be in great demand.

MAIL ORDERS

As we do a very large business with the merchants, we much prefer that you get your supply through your local merchant whose prices should be in keeping with the prices in this Catalogue. But, if you cannot secure Our Seeds of your local dealer, send direct and we will fill your orders promptly and satisfactory. Always send the money with the order, which insures prompt service. Grass, Clover and all Farm Seed, prices are subject to fluctuation of the market and it would be well to ask for special prices and samples if desired.

SEEDS SENT BY MAIL

We pay postage on all Garden and Flower Seeds by the packet, ounce or quarter pound. Larger quantity as well as pints and quarts are sent by express or freight at the expense of the purchaser. No Seeds sent C.O.D.

GUARANTEE SHIPMENTS

We guarantee the safe arrival of all Seeds sent out by us, in the regular way. If miscarried or damaged enroute, we will duplicate your order, but we will not be held responsible for any Seeds sent by freight to "prepaid" stations where there is no railroad agent to take care of the goods on arrival. If Seeds are ordered forwarded to such stations, the purchaser must assume all risk of goods going astray or stolen.

OUR RESPONSIBILITY

As there are so many contingencies that may arise at planting time, such as sowing too deep, too shallow, or in soil that is too wet and cold, or land that is too dry, late frosts, floods or drouth, cut worms that destroy the plants before they are visible, and various other causes, it is manifestly impossible for a seller of Seeds to be held responsible for what might happen to them after they leave his hands; therefore we, in common with all other American Seed houses, give no warranty, express or implied, as to description, purity, productiveness or any other matter, of any seeds, bulbs or plants we send out, and we will not in any way be responsible for the crop. If the purchaser does not accept the goods on these terms, they are to be returned at once and the money paid for same will be refunded. ALFRED J. BROWN SEED CO.

OUR GUARANTEE

We absolutely guarantee all Seeds sold or sent out by us so far as the Seeds themselves are concerned. If such Seeds are found not to be up to the usual standard of purity and germination, we will refund the money paid for same.

Alfred J. Brown Seed Co.



DAVIS KIDNEY WAX



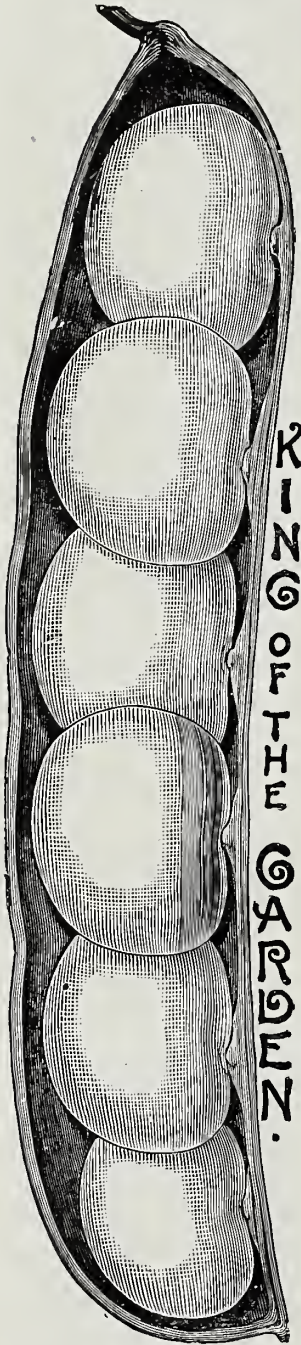
CURRIES RUST PROOF



BURPEE'S BUSH LIMA



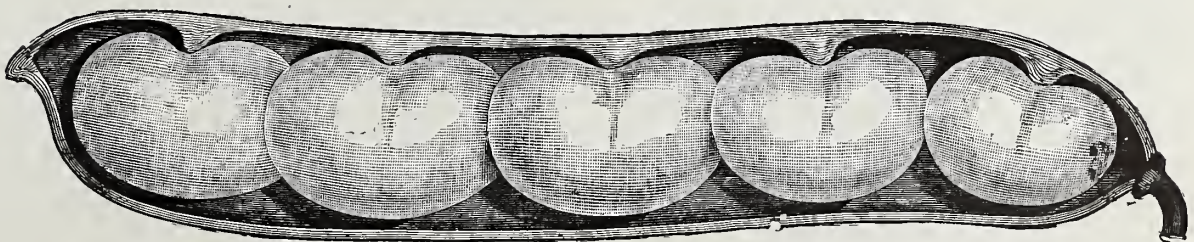
CHALLENGE BLACK WAX



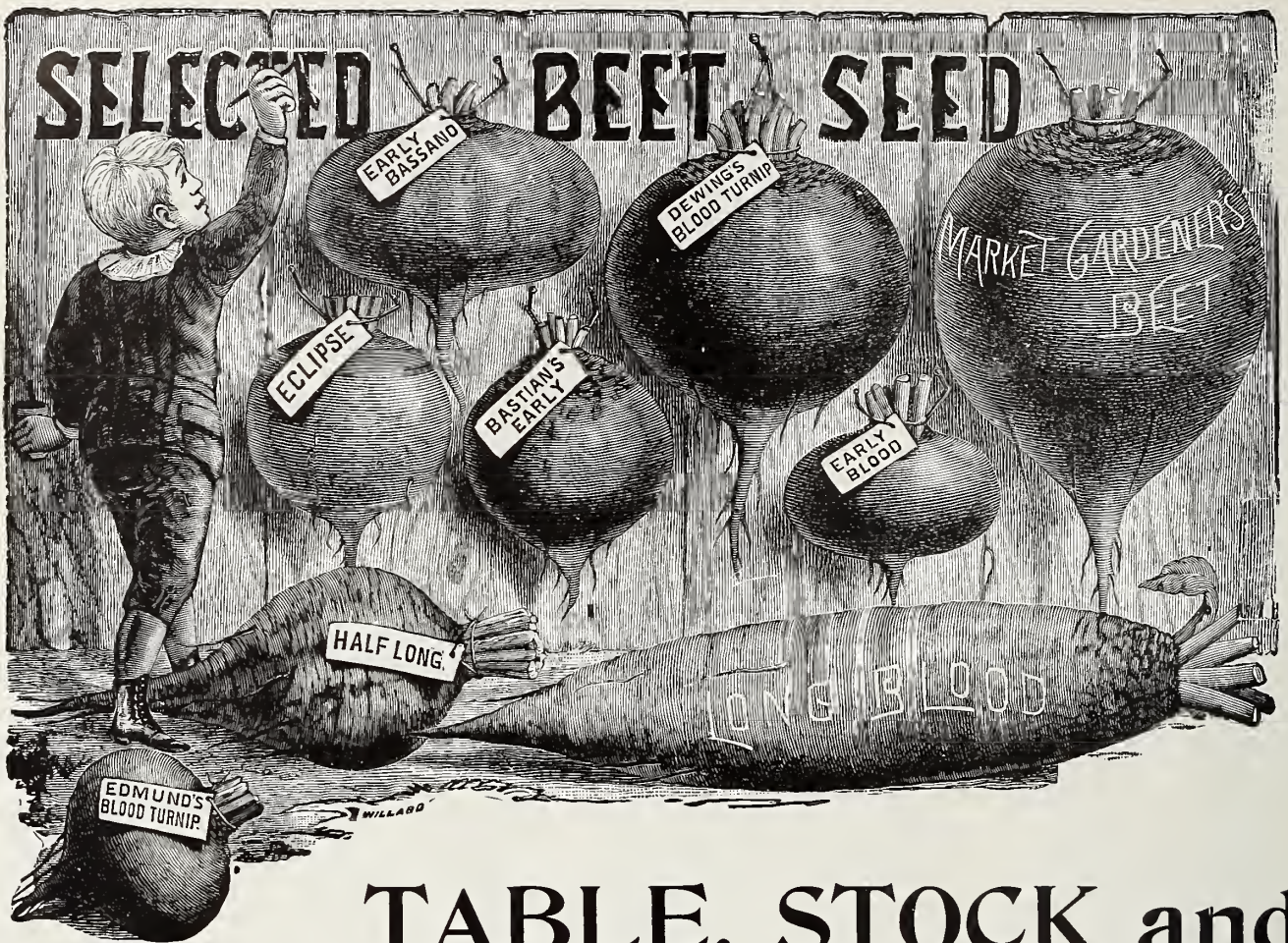
KING OF THE GARDEN.



DWARF GOLDEN WAX



LARGE WHITE LIMA



TABLE, STOCK and SUGAR BEETS



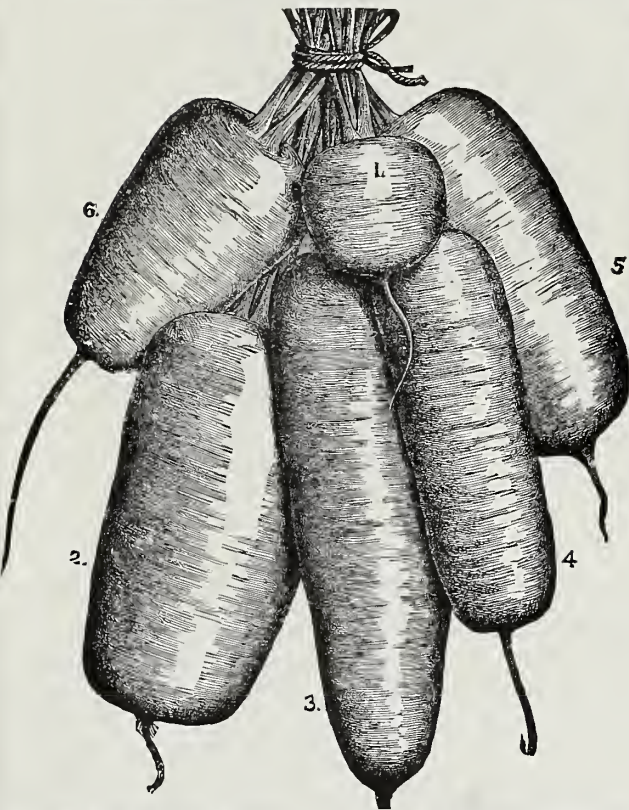
MAMMOTH LONG
RED MANGEL
WURZEL



KLIEN WANZLEBEN



VILMORIN'S IMPROVED

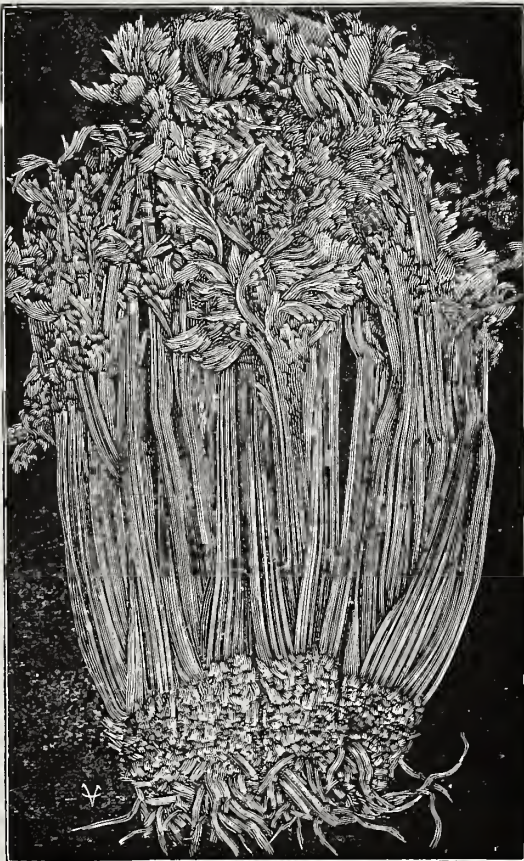


TRUE SNOW BALL CAULIFLOWER

THE GREAT VALUE OF GOOD CAULIFLOWER SEED

For many years we have imported direct from Copenhagen the finest strain of Early Snow Ball grown in Denmark. It has always given the best of satisfaction. One of our regular customers made a statement to us in November that the one ounce of seed he bought from us last spring produced nearly 3,000 heads, and he received a little over \$200 for his crop. This shows how very important it is to sow good Seed. He might have bought some Cauliflower at 50 cents or \$1 an ounce less and he might not have received as much as \$100 for his crop. It pays to buy the BEST SEEDS.

No. 1—Extra Early Forcing. No. 2—Oxheart.
No. 3—Improved Long Orange. No. 4—Danvers Half Long.
No. 5—Nantes Half Long. No. 6—Chantenay Stump Rooted.



WHITE PLUME. SELECT STOCK



GOLDEN SELF-BLANCHING



COPENHAGEN EARLY MARKET

This is the latest Danish Production of an Early Round Headed Solid Cabbage which has attained the highest achievement in Cabbage breeding. It is the earliest large round headed Cabbage yet introduced. The heads are of exceptional large size for so early a variety. It is a short stem plant of vigorous and compact growth, with few outer leaves. Matures about the same time as the Wakefield variety. Every plant seems to form a perfect tightly folded head, avering in weight from five to eight pounds. The heads are round, very solid and of especially good quality. It is by far the most Early Summer Cabbage of recent introduction and we recommend it most highly. Market Gardeners growing Early Cabbage for the market should not fail to grow this variety. We import our seed direct from one of the most reliable growers in Denmark. Our trials of this Cabbage last season were so favorable that we commend it most highly to our friends and customers.



Photograph View of a 20-Acre Field of the New Copenhagen Early Market Cabbage.

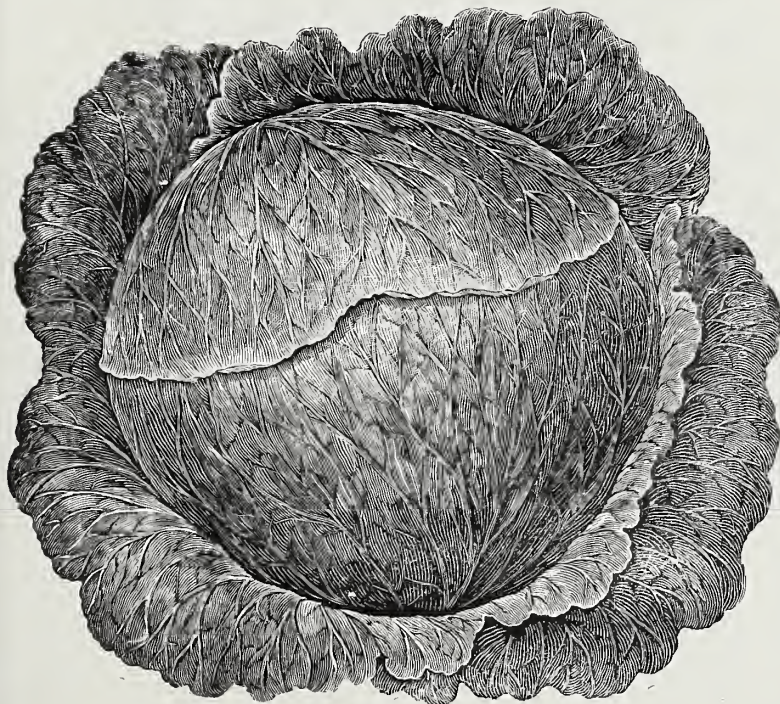
CABBAGE



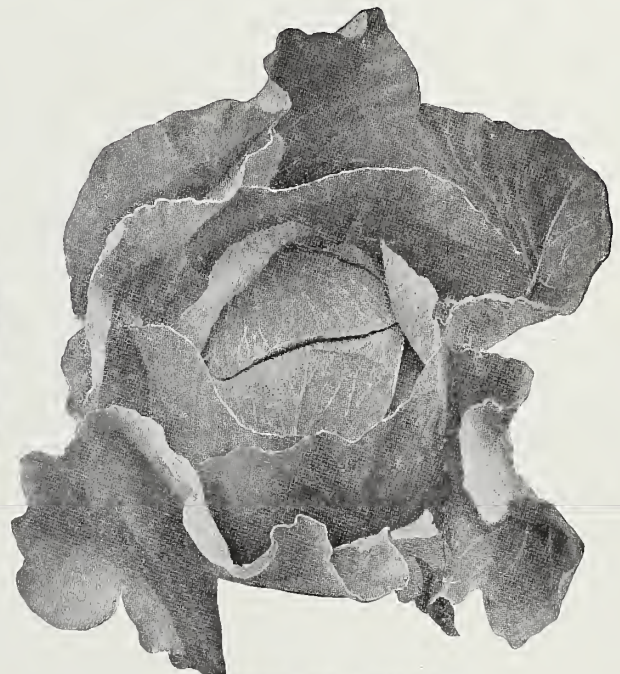
HENDERSON'S EARLY SUMMER

FOTTLER'S BRUNSWICK

STONE MASON MARBLEHEAD



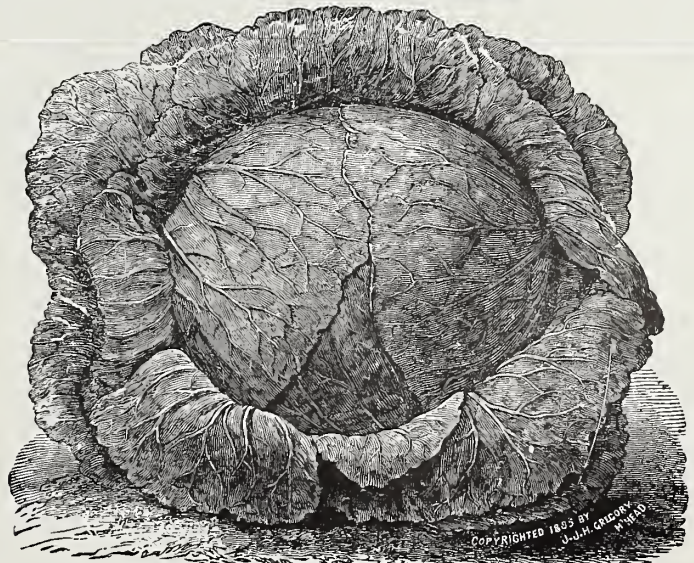
PREMIUM FLAT DUTCH



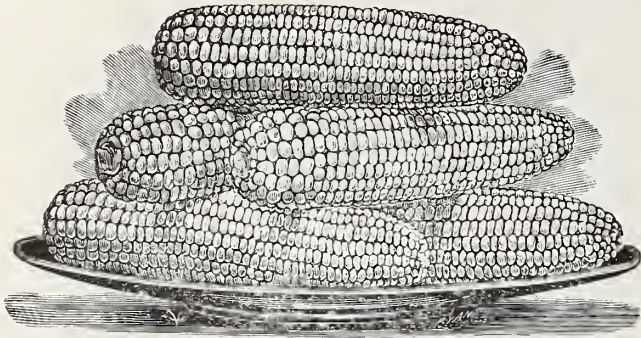
DANISH BALL HEAD

DANISH CABBAGE

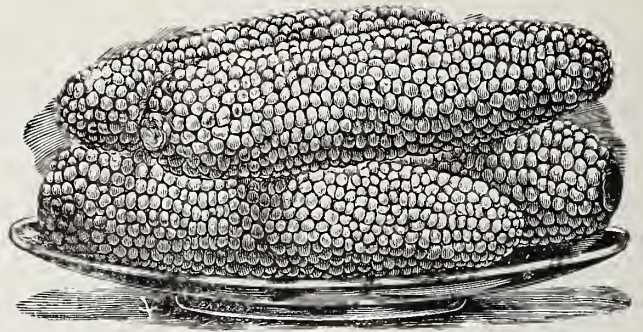
We import our Danish Cabbage Seed direct from one of the oldest, most reliable and experienced growers in Denmark, and it has given splendid satisfaction for many years past. The extra cost for good seed is but a small item per acre and should not be considered. The cabbage grown from our seed has proven beyond a question of doubt to be far superior as to solidity and excellent keeping quality as well as sure headers.



ALL SEASONS



COUNTRY GENTLEMAN



EARLY WHITE CORY



DAVIS' PERFECT CUCUMBER



GRAND RAPIDS FORCING



We always carry a fresh stock of English and Pure culture Mushroom Spawn.



PAUL ROSE



LARGE HACKENSACK



VAUGHAN'S THE OSAGE GENUINE



Rocky Ford Muskmelon



GRAND RAPIDS EARLY MARKET



Photograph of a bushel of selected bulbs of the SOUTHPORT RED GLOBE variety, the kind we plant for growing seed.



Onion Seed

The Onion Seed offered by us is the best American grown Seed and from the most reliable Onion Seed growers. The bulbs selected for planting are carefully sorted by experienced help, who know their business. Don't be misled by those offering Onion Seed at low prices. You better pay a little more and be reasonably sure of the crop. The expense of a seasons work is too great to take chances on Seed you might have reason to doubt. We have received our supply from the same growers for many years past and know the Seed we offer is good.



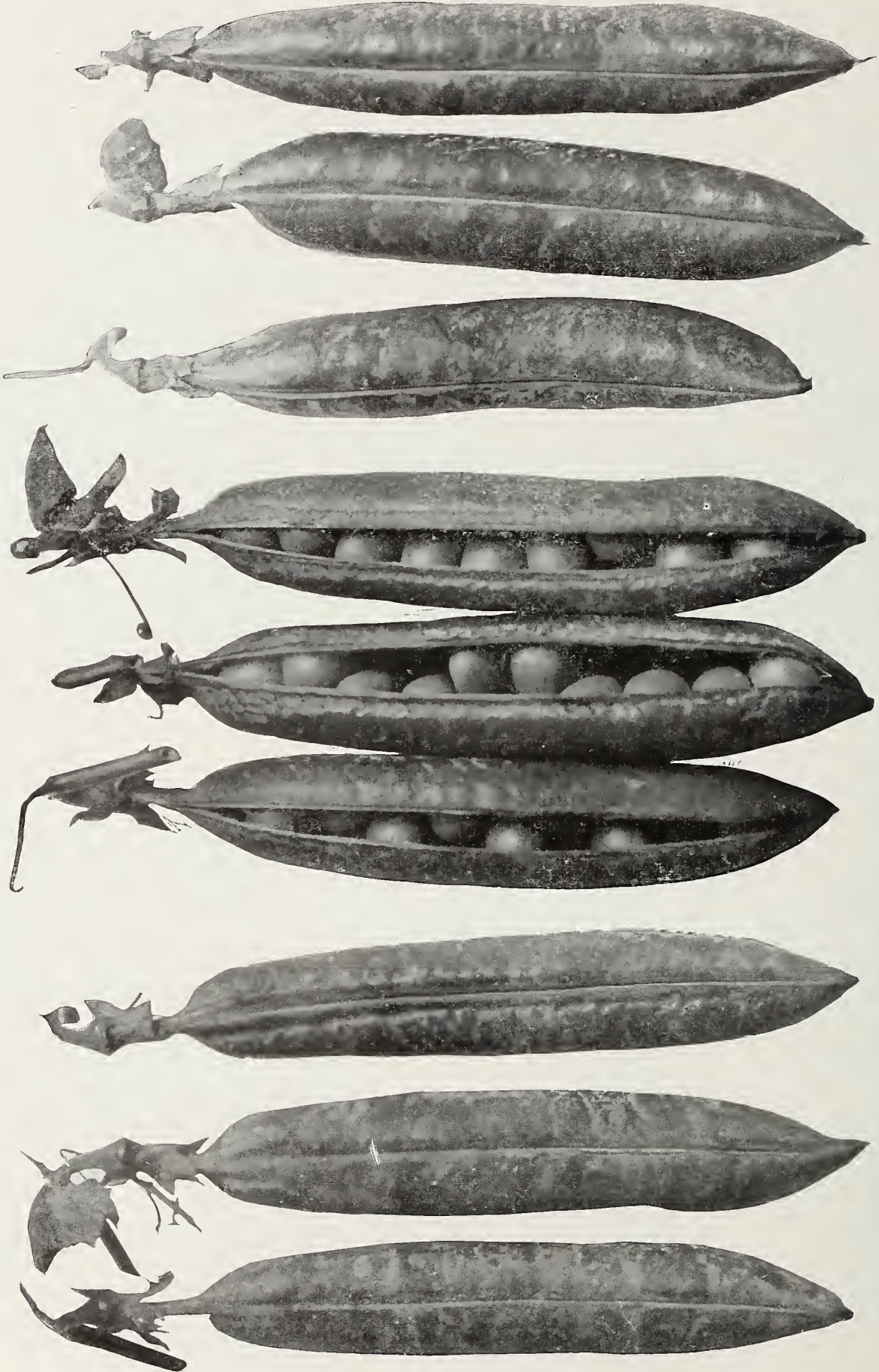
RED RIVER VALLEY EARLY OHIOS

The above illustration represents a true photograph of our "Red River Valley Early Ohio Seed Potatoes," just as they come from the field,—unwashed—and not especially prepared for photographing. The specks or blotches that show on the photograph, are not scabs, but a little of the rich dirt in which they were grown and which still clings to them. The Potatoes we offer have been grown especially for seed purposes from select tubers, and they have been carefully sorted and all potatoes that were prongy, small or scabby were thrown out before the potatoes were stored away for spring planting. They are again carefully sorted in the spring. They are also stored under the most favorable conditions.

Those who have been growing Early Ohio Potatoes for early market, find that the Red River Valley grown Potatoes are at least ten days to two weeks earlier than the Michigan or the Wisconsin grown stock, and are equally as good as Potatoes grown in the northern part of Maine. As this stock has been carefully selected for many years past, they are a heavier cropper than the common Early Ohios that are offered in the market. It is the most desirable Potato to plant for early market as well as the home garden. On both heavy and light soils it outyields other early sorts and produces a much more uniform lot of tubers.

As we have only a limited quantity of these very fine seed Potatoes, it would be well for you to place your order early and have them shipped when the weather is favorable. The Red River country is situated on the northwestern border of the state of Minnesota, where the conditions for growing Early Seed Potatoes are ideal. Nearly all large Potato growers in the middle west secure their stock seed from the Red River country. Seed Potatoes grown and stored under such ideal conditions are worth double the price of ordinary stock that is grown further south. It would be well for the Michigan farmer to secure some of these select seed Potatoes, if for nothing more than to plant for seed another year, although it would pay him to plant such stock for his general crop of Early Potatoes, regardless of the price we are obliged to ask for this select stock. Any grower who makes a business of growing Early Potatoes for the market, knows what it means to get their crops in ten days to two weeks earlier. Therefore, the price of this seed stock should not be taken into consideration, as the first load or two is apt to bring an advanced price which will more than offset the cost of the seed.

PRICES—PER POUND, 5c; PER PECK, 60c; PER BUSHEL, \$2.00.



ALDERMAN

GRADUS OR PROSPERITY

BOSTON UNRIVALED



YORKSHIRE HERO



IMPROVED STRATAGEM



TELEPHONE





TRUE EARLY OHIO



VICKS SCARLET GLOBE



LARGE BELL OR BULL NOSE

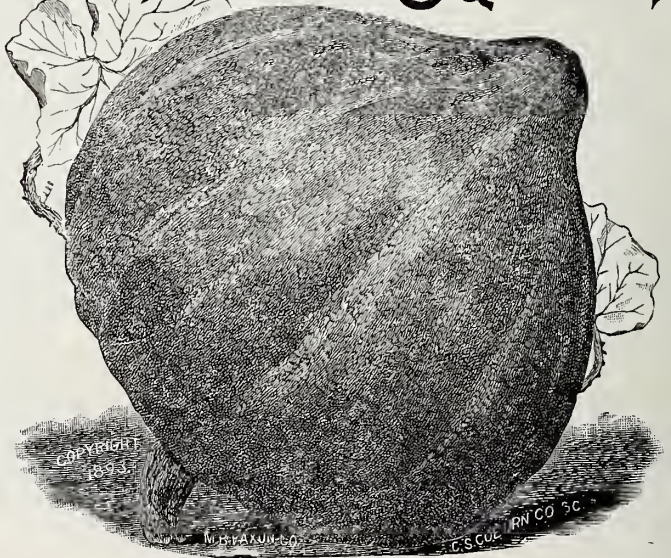


MAMMOTH WHITE BUSH SCALLOP



WHITE SUMMER CROOKNECK

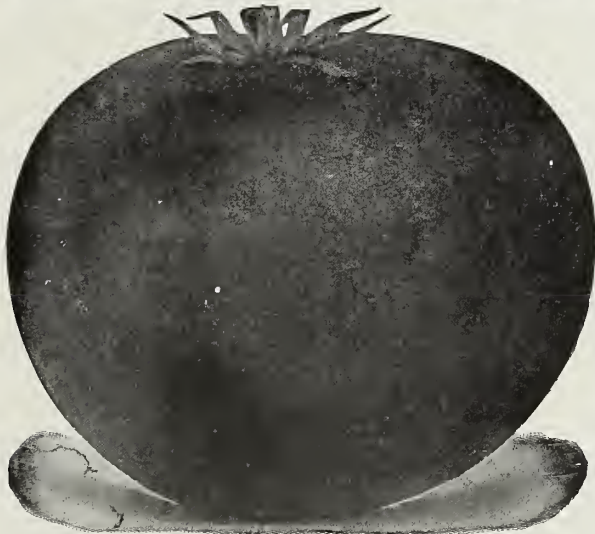
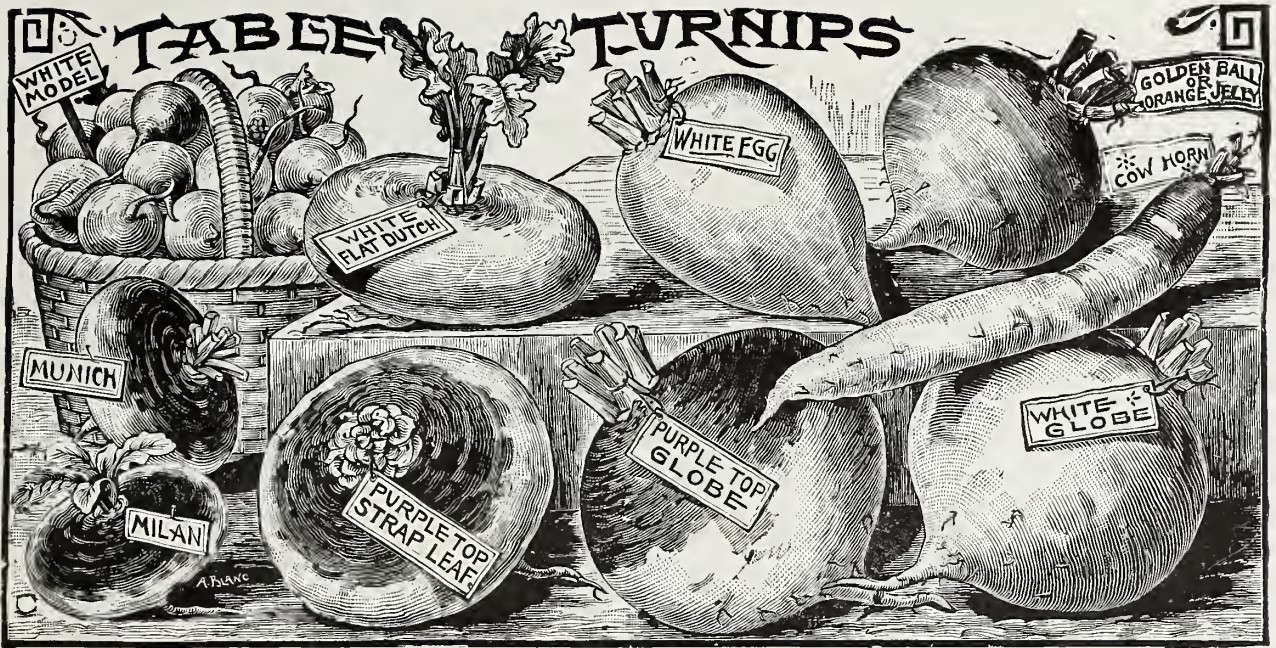
THE FAXON SQUASH



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1893

M. FAXON & CO.

G. S. CULLEN CO. SC.



PERFECTION



TRUE HUBBARD SQUASH

Vegetable Price List

ASPARAGUS

	Oz.	¼ Lb.	Lb.
Columbian Mammoth White	\$0.05	\$0.15	\$0.50
Conover's Colossal	.05	.15	.50

ASPARAGUS ROOTS

One Year Old, per 100	\$0.75
Two Year Old, per 100	1.00

(Special prices on 1,000 Roots and upwards.)

BEANS. DWARF WAX SORTS

	Qt.	Pk.	Bu.
Davis Kidney Wax	\$0.25	\$1.50	\$5.50
Wardwells Kidney Wax	.25	1.50	5.50
Dwarf Golden Wax	.25	1.50	5.50
Challenge Black Wax	.25	1.50	5.50
German Black Wax	.25	1.50	5.50
Pencil Pod Black Wax	.25	1.50	5.50
Currie's Rust Proof	.25	1.50	5.50
Improved Golden Wax	.25	1.50	5.50
Michigan White Wax	.25	1.50	5.50

BEANS, DWARF GREEN PODDED

	Qt.	Pk.	Bu.
Burpee's Stringless Green Pod	\$0.25	\$1.50	\$5.50
Extra Early Red Valentine	.25	1.25	4.50
Extra Early Refugee	.25	1.25	4.50
Refugee or Thousand To One	.25	1.25	4.50
Dwarf Horticultural	.25	1.25	4.50
Black Valentine	.25	1.25	4.50
Giant Stringless	.25	1.25	4.50
Longfellow	.25	1.25	4.50
Royal White Dwarf Kidney	.20	1.00	3.75
Large White Marrow	.20	1.00	3.75
Improved Red Kidney	.20	1.00	3.75
Improved Pea or Navy	.20	1.00	3.50

LIMA BEANS

	Qt.	Pk.	Bu.
Burpee's Bush Lima	\$0.30	\$1.75	\$6.50
Burpee's Improved Lima	.30	2.00	7.50
Henderson's Bush Lima	.30	1.75	6.50
King of the Garden	.30	1.75	6.50
Sieberts or Jersey	.30	1.75	6.50

POLE BEANS

	Qt.	Pk.	Bu.
London Horticultural	\$0.30	\$1.75	\$6.50
Dutch Case Knife	.30	1.60	6.00
Kentucky Wonder	.30	1.60	6.00
White Creaseback	.30	1.60	6.00

TABLE BEET

	Oz.	¼ Lb.	Lb.
Crosby's Early Egyptian	\$0.15	\$0.35	\$1.25
Egyptian Blood Turnip	.10	.35	1.25
Eclipse	.10	.35	1.10
Early Blood Turnip	.10	.30	1.00
Crimson Globe	.15	.35	1.25
Edmonds Blood Turnip	.10	.35	1.10
Detroit Dark Red Turnip	.15	.40	1.40
Half Long Blood	.10	.30	1.00
Long Dark Blood	.10	.30	1.00
Swiss Chard	.10	.25	.80

SUGAR BEET FOR SUGAR MAKING

	Lb.
Klien Wanzleben	\$0.30
Vilmorin's Improved	.30

SUGAR BEET FOR STOCK FEEDING

	Lb.
Giant Half Sugar Feeding	\$0.40
Yellow French Sugar	.40
Lane's Imperial Sugar	.40

MANGEL WURZEL

	Lb.
Mammoth Long Red, Imp'd	\$0.40
Yellow Globe	.40
Golden Tankard	.40
Red Globe	.40

CABBAGE

	Oz.	¼ Lb.	Lb.
Copenhagen Market	\$0.50	\$1.75	\$6.00
Early Jersey Wakefield	.20	.75	2.50
Large Wakefield Charleston	.20	.75	2.50
Early Winningstadt	.20	.60	2.00
Henderson's Early Summer	.20	.60	2.00
Fottler's Imp. Brunswick	.20	.50	1.75
All Seasons	.20	.60	2.00
Henderson's Succession	.20	.75	2.50
Early Flat Dutch	.20	.60	2.00
Premium Flat Dutch	.20	.50	1.50
Large Late Drumhead	.20	.50	1.50
Surehead	.20	.65	2.25
Danish Ball Head Long Stem	.20	.75	2.50
Danish Ball Head Medium	.20	.75	2.50
Hollander Finest Imported	.20	.75	2.50
Mammoth Rock Red	.20	.60	2.00

TABLE CARROT

	Oz.	¼ Lb.	Lb.
Early Short Horn	\$0.20	\$0.60	\$2.00
Danver's Half Long.....	.20	.60	2.00
Chantenay Stump Rooted.....	.20	.60	2.00
Guerrande or Oxheart .....	.20	.50	1.75
Nantes, Half Long .....	.20	.60	2.00
Long Orange .....	.20	.50	1.50

STOCK CARROTS

	Oz.	¼ Lb.	Lb.
Giant White Belgium.....	\$0.10	\$0.25	\$0.70
Orange Belgium .....	.10	.25	.70
Improved Short White.....	.10	.25	.70

TRUE SNOW BALL CAULIFLOWER

Price per Oz., \$2.00; ¼ Lb., \$7.00; Lb., \$24.00.

CELERY

	Oz.	¼ Lb.	Lb.
Golden Self-Blanching French Grown	\$1.25	\$4.00	\$12.50
Golden Self-Blanching Ameri- can .....	.25	.90	3.00
White Plume .....	.20	.60	2.00
Giant Pascal .....	.20	.60	2.00
Perfection Hartwell .....	.20	.60	2.00
Dwarf White Solid, or Kala- mazoo .....	.20	.60	2.00
Crawford's Half Dwarf .....	.15	.35	1.25
Dwarf Golden Heart .....	.15	.40	1.50
Boston Market .....	.15	.40	1.50
Celeriac or Turnip Rooted.....	.15	.40	1.50
Celery Seed for Flavoring.....	.05	.15	.40
Celery, Soup or Cutting.....	.15	.25	.90

CRESS

	Oz.	¼ Lb.	Lb.
Curled or Pepper Grass.....	\$0.05	\$0.15	\$0.40

CORN SALAD

	Oz.	¼ Lb.	Lb.
Large Seeded	\$0.05	\$0.15	\$0.40

SWEET CORN

	Qt.	Pk.	Bu.
Mammoth White Cory	\$0.20	\$1.10	\$4.00
White Cob Cory .....	.20	1.10	4.00
Early Minnesota .....	.20	1.00	3.50
Crosby's Early .....	.20	1.00	3.50
Honey Dew .....	.20	1.10	4.00
Perry's Hybrid .....	.20	1.00	3.50
Black Mexican .....	.20	1.10	4.00

SWEET CORN (Continued)

	Qt.	Pk.	Bu.
Early Evergreen	\$0.20	\$1.00	\$3.50
Stowell's Evergreen .....	.20	1.00	3.50
Country Gentlemen .....	.20	1.10	4.00
Golden Bantum .....	.25	1.40	5.00
Moor's Concord .....	.20	1.10	4.00
Extra Early Adams .....	.15	.85	3.25
Burpee's Fordhook .....	.20	1.10	4.00
Burpee's White Evergreen.....	.20	1.10	4.00
Peep O' Day.....	.25	1.25	4.50

CUCUMBER

	Oz.	¼ Lb.	Lb.
Davis Perfect	\$0.10	\$0.25	\$0.80
Davis Perfect "Select".....	.25	.75	2.50
Early Russian .....	.10	.25	.65
Early Frame or Short Green....	.10	.25	.60
Early Green Cluster.....	.10	.25	.65
Arlington White Spine .....	.10	.25	.60
Improved White Spine.....	.10	.25	.60
Klondyke Long White Spine... ..	.10	.25	.70
Evergreen White Spine.....	.10	.25	.70
Green Prolific .....	.10	.25	.60
Chicago Pickling .....	.10	.25	.60
Boston Pickling .....	.10	.25	.60
Improved Long Green .....	.10	.25	.80
Small Gherkin "For Pickles"....	.15	.40	1.25
Cool and Crisp.....	.10	.25	.70
Everbearing .....	.10	.25	.70

EGG PLANT

	Oz.	¼ Lb.	Lb.
Improved New York Purple....	\$0.35	\$1.00	\$3.50

ENDIVE

	Oz.	¼ Lb.	Lb.
Moss Curled	\$0.10	\$0.30	\$1.00
Green Curled .....	.10	.30	1.00

SWEET HERBS

	Oz.	Lb.
Anise	\$0.10	\$0.70
Basil, Sweet .....	.10	1.25
Caraway, For Sowing.....	.10	.60
Dill .....	.10	.65
Fennel, Sweet .....	.10	.60
Horehound .....	.15	1.75
Lavender .....	.10	1.00
Majoram, Sweet .....	.15	1.60
Rosemary .....	.30	3.00
Rue .....	.15	1.75
Sage, Broadleaf .....	.15	1.40
Savory, Summer .....	.10	1.00
Thyme, English .....	.35	4.00

KALE OR BORECOLE

	Oz.	¼ Lb.	Lb.
Tall Green Curled Scotch.....	\$0.10	\$0.20	\$0.50
Dwarf Curled Scotch or German Greens .....	.10	.20	.50

KOHL RABI

	Oz.	¼ Lb.	Lb.
Early White Vienna.....	\$0.20	\$0.50	\$1.75
Purple Vienna .....	.20	.50	1.75

LEEK

	Oz.	¼ Lb.	Lb.
London Flag	\$0.10	\$0.25	\$0.90

LETTUCE

	Oz.	¼ Lb.	Lb.
Premium Cabbage	\$0.10	\$0.25	\$0.90
Early Curled Silesia.....	.10	.25	.80
Hanson .....	.10	.25	.90
Grand Rapids Forcing.....	.15	.30	1.00
Grand Rapids Forcing "Select" .....	.20	.60	2.00
Early Tennis Ball.....	.10	.25	.90
Early Curled Simpson.....	.10	.25	.80
Black Seeded Simpson.....	.10	.25	.80
Prize Head .....	.10	.25	.90
California Cream Butter.....	.10	.25	.90
Big Boston .....	.10	.25	.90
May King .....	.10	.30	1.00
Early White Cabbage.....	.10	.25	.80
Brown Dutch .....	.10	.25	.80

MUSHROOMS

	Lb.	10 Lbs.
Garden City, Pure Culture.....	\$0.15	\$1.25

MUSK MELONS

	Oz.	¼ Lb.	Lb.
Paul Rose	\$0.10	\$0.25	\$0.85
Rocky Ford .....	.10	.20	.60
Osage .....	.10	.25	.90
Vaughan's Osage "Select" .....	.20	.70	2.50
Netted Gem .....	.10	.20	.60
Hoodoo .....	.10	.25	.80
Large Green Nutmeg.....	.10	.25	.90
Montreal Nutmeg .....	.10	.30	1.00
Emerald Gem .....	.10	.30	1.00
Grand Rapids Early Market....	.10	.25	.90
Tip Top .....	.10	.30	.85
Bay View .....	.10	.20	.60

WATER MELONS

	Oz.	¼ Lb.	Lb.
Sweetheart	\$0.05	\$0.15	\$0.50
Vick's Early .....	.05	.15	.50
Mountain Sweet .....	.05	.15	.50

WATER MELONS (Continued)

	Oz.	¼ Lb.	Lb.
Phinney's Early	\$0.05	\$0.15	\$0.50
Cuban Queen .....	.05	.15	.50
Kolb Gem .....	.05	.15	.50
Peerless .....	.05	.15	.50
Round Light Icing .....	.05	.15	.50
Dark Icing .....	.05	.15	.50
Georgia Rattlesnake .....	.05	.15	.50
Citron (For Preserves).....	.05	.15	.50
Kleckley's Sweet .....	.05	.15	.50
Dixie .....	.05	.15	.50

ONION SEED

	Oz.	¼ Lb.	Lb.
Extra Early Flat Red.....	\$0.10	\$0.35	\$1.10
Large Red Wethersfield .....	.10	.30	1.00
Southport Red Globe (Select) .....	.10	.35	1.25
Yellow Globe Danvers(Select) .....	.10	.35	1.25
Michigan Yellow Globe.....	.10	.35	1.25
Yellow Strasburg .....	.10	.35	1.10
Yellow Danvers Flat.....	.10	.30	1.00
Southport Yellow Globe .....	.10	.35	1.25
Mammoth Prize Taker.....	.15	.40	1.50
White Globe Southport.....	.20	.60	2.00
White Portugal or Silverskin..	.20	.50	1.75
Early White Queen .....	.15	.40	1.50
Mammoth Silver King.....	.20	.50	1.75
White Barletta .....	.15	.40	1.50

ONION SETS

Choice White.....	} Market Price. Ask for Prices.
Choice Reds.....	
Choice Yellows....	

PEAS, EARLY SORTS

	Qt.	Pk.	Bu.
Extra Early	\$0.30	\$2.00	\$7.00
First and Best.....	.30	2.00	7.00
Alaska .....	.30	2.00	7.00
American Wonder .....	.40	2.50	9.00
Nott's Excelsior .....	.40	2.50	9.00
Gradus .....	.50	3.50	13.00
Thomas Laxton .....	.50	3.75	14.00
McLean's Little Gem.....	.35	2.25	8.00
Premium Gem .....	.35	2.25	8.00

PEAS, MAIN CROP SORTS

	Qt.	Pk.	Bu.
Telephone	\$0.40	\$3.00	\$11.00
Boston Unrivalled .....	.40	3.00	11.00
Alderman .....	.40	3.00	11.00
Yorkshire Hero .....	.30	2.00	7.00
Stratagem .....	.30	2.25	8.00
Everbearing .....	.30	2.00	7.50
Champion of England .....	.35	2.25	8.50
Horsfords .....	.30	2.00	7.50
McLean's Advancer .....	.30	2.00	7.50
Marrowfat .....	.25	1.50	5.00
Sugar Edible Pods.....	Crops Failed		
Duke of Albany.....	.40	3.00	11.00

PARSNIP

	Oz.	¼ Lb.	Lb.
Improved Hollow Crown	\$0.10	\$0.25	\$0.70

PARSLEY

	Oz.	¼ Lb.	Lb.
Champion Moss Curled.....	\$0.10	\$0.25	\$0.75

PEPPER

	Oz.	¼ Lb.	Lb.
Ruby King	\$0.20	\$0.60	\$2.00
Large Bell or Bull Nose.....	.20	.60	2.00
Long Red Cayenne.....	.20	.60	2.00
Chinese Giant .....	.30	1.00	3.50
Red Chili .....	.20	.60	2.00

PUMPKIN

	Oz.	¼ Lb.	Lb.
Large Cheese	\$0.05	\$0.15	\$0.40
Sugar .....	.05	.15	.40
King of the Mammoths.....	.10	.25	.85
Connecticut Field .....	.05	.10	.25
Japanese Pie .....	.10	.25	.80

RADISH

	Oz.	¼ Lb.	Lb.
Vick's Scarlet Globe.....	\$0.05	\$0.20	\$0.60
Half Long Bright Scarlet.....	.05	.15	.45
Scarlet Turnip .....	.05	.15	.40
Scarlet Turnip White Tip.....	.05	.15	.50
Rosy Gem White Tip.....	.05	.15	.50
Cooper's Sparkler .....	.10	.25	.75
Early Round Dark Red.....	.05	.15	.40
Long Scarlet Short Top.....	.05	.15	.40
Wood's Early Frame.....	.05	.15	.40
French Breakfast .....	.05	.15	.40
Beckert's Chartier .....	.05	.15	.40
Philadelphia White Box.....	.05	.15	.45
White Strasburg .....	.05	.15	.45
Long White Vienna.....	.05	.15	.45
Icicle .....	.05	.15	.50
Chinese Rose or Scarlet China	.05	.15	.50
Long Black Spanish.....	.05	.15	.50
Round Black Spanish.....	.05	.15	.45
Crimson Giant .....	.05	.15	.50
Giant White Stuttgart.....	.05	.15	.50
California White Mammoth...	.05	.15	.50

RHUBARB

Victoria	Per Lb.....	\$1.00
Rhubarb Roots	Each.....	.10

SALSIFY

	Oz.	¼ Lb.	Lb.
Mammoth Sandwich Island...	\$0.10	\$0.30	\$1.00

SPINACH

	Oz.	¼ Lb.	Lb.
Thick Leaf Summer.....	\$0.05	\$0.10	\$0.20
Victoria Long Standing.....	.05	.10	.20
Bloomsdale .....	.05	.10	.20

SQUASH, SUMMER VARIETIES

	Oz.	¼ Lb.	Lb.
Mammoth White Bush	\$0.10	\$0.25	\$0.70
White Summer Crookneck.....	.10	.25	.75
Early Yellow Bush Scallop.....	.10	.20	.50
Early White Bush Scallop.....	.10	.20	.50
Yellow Summer Crookneck....	.10	.20	.50
The Faxon .....	.10	.25	.80

SQUASH, WINTER VARIETIES

	Oz.	¼ Lb.	Lb.
Hubbard, True Select.....	\$0.10	\$0.25	\$0.85
Chicago Warty Hubbard.....	.10	.25	.90
Golden Hubbard .....	.10	.25	.90
Boston Marrow .....	.10	.30	1.00

TOMATO

	Oz.	¼ Lb.	Lb.
Livingston's Globe	\$0.25	\$0.75	\$2.50
Earliana .....	.25	.75	2.50
Favorite .....	.15	.50	1.75
Beauty .....	.15	.50	1.75
Early Acme .....	.15	.50	1.75
Perfection .....	.15	.50	1.75
Stone .....	.20	.60	2.00
Chalk's Early Jewell.....	.20	.60	2.00
Dwarf Stone .....	.25	.75	2.75
Dwarf Champion .....	.20	.60	2.00
Matchless .....	.20	.60	2.00
Ponderosa .....	.35	1.00	3.50
Early Michigan .....	.15	.50	1.75
Plum Shape .....	.25	.75	2.50

TURNIP, WHITE FLESHED SORTS

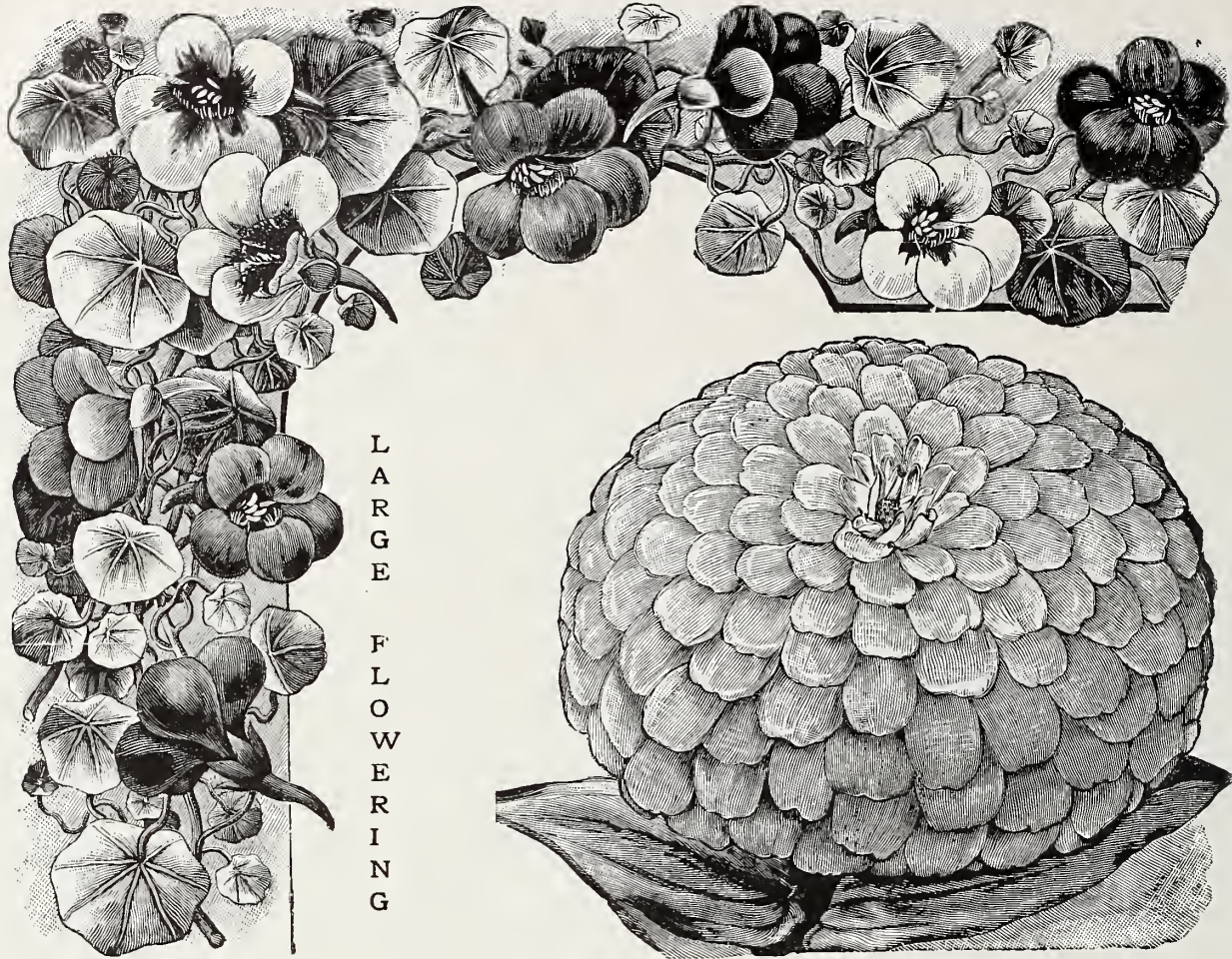
	Oz.	¼ Lb.	Lb.
Early White Flat Dutch Strap			
Leaf	\$0.05	\$0.15	\$0.50
Extra Early Purple Top Milan	.10	.25	.75
White Egg .....	.05	.15	.50
Early Purple Top Strap Leaf..	.05	.15	.50
Purple Top White Globe.....	.05	.15	.50
Long White Cow Horn.....	.05	.15	.50
Sweet German .....	.05	.15	.50
Pomeranean White Globe.....	.05	.15	.50
White Norfolk .....	.05	.15	.50

TURNIP, YELLOW FLESHED SORTS

	Oz.	¼ Lb.	Lb.
Green Top Yellow Aberdeen...	\$0.05	\$0.15	\$0.40
Yellow Globe .....	.05	.15	.40
Robertson's Golden Ball.....	.05	.15	.50

RUTABAGA OR SWEDES

	Oz.	¼ Lb.	Lb.
American Purple Top.....	\$0.05	\$0.15	\$0.35
White Sweet Russian.....	.05	.15	.40
Monarch Tankard05	.15	.35
Laing's Purple Top Strap Leaf	.05	.15	.40



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Nasturtiums

Vaughan's Giant Zinnias



Nasturtium, Madame Gunther's Hybrid



Giant Pansies.



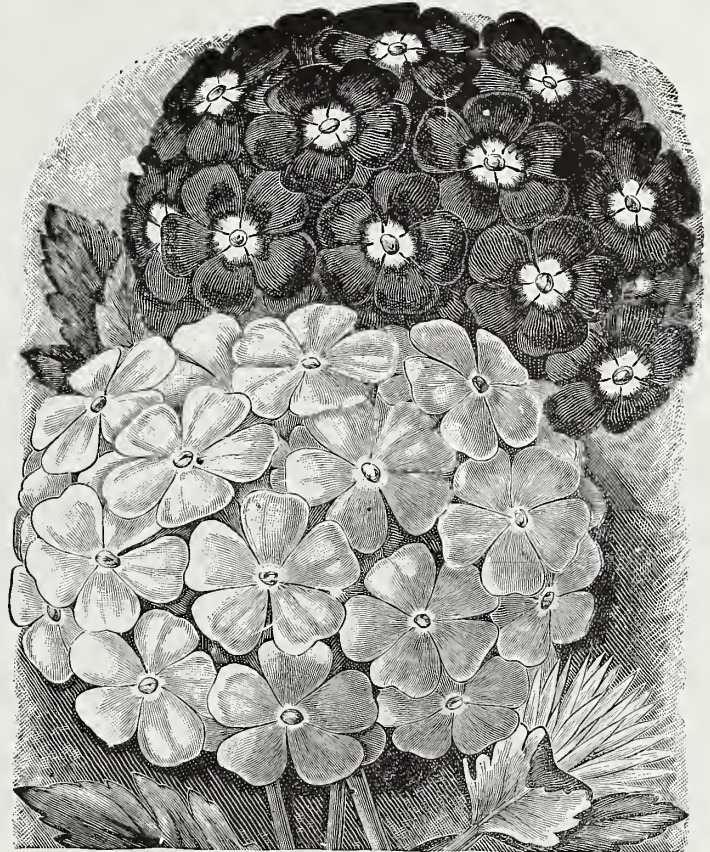
Pæony Flowered Astor



Balsams



Eldorado Marigold



Verbenas



Mammoth Daisy



Calendula, Orange King



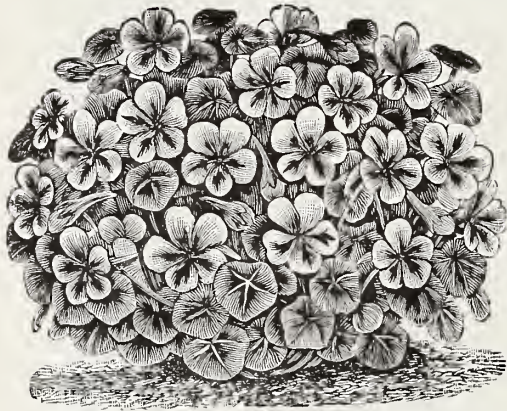
Mignonette Muret



Ricinus or Castor Bean



Digitalis or Foxglove



Dwarf Nasturtium



Candytuft, Empress



Petunia, Large Flowering Fringed



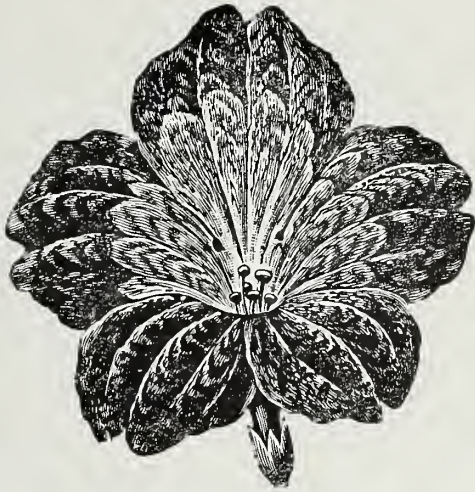
Four O'clocks



Moon Flower



Stock, Double Mixed



Salpiglossis Grandiflora



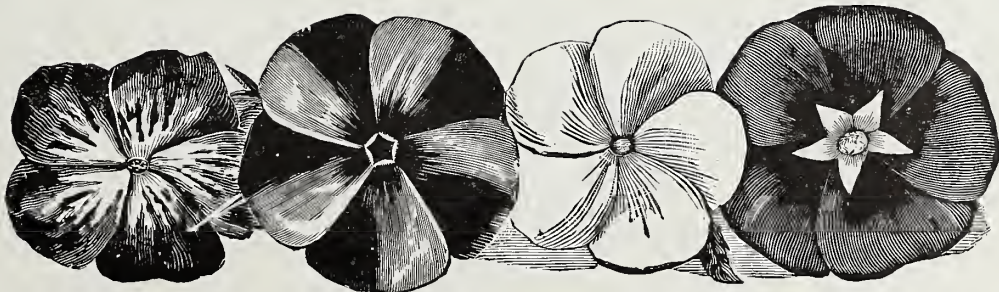
The Sweet Scented Tobacco Plant



Large Flowering Scabiosa



Type of Giant Pansy

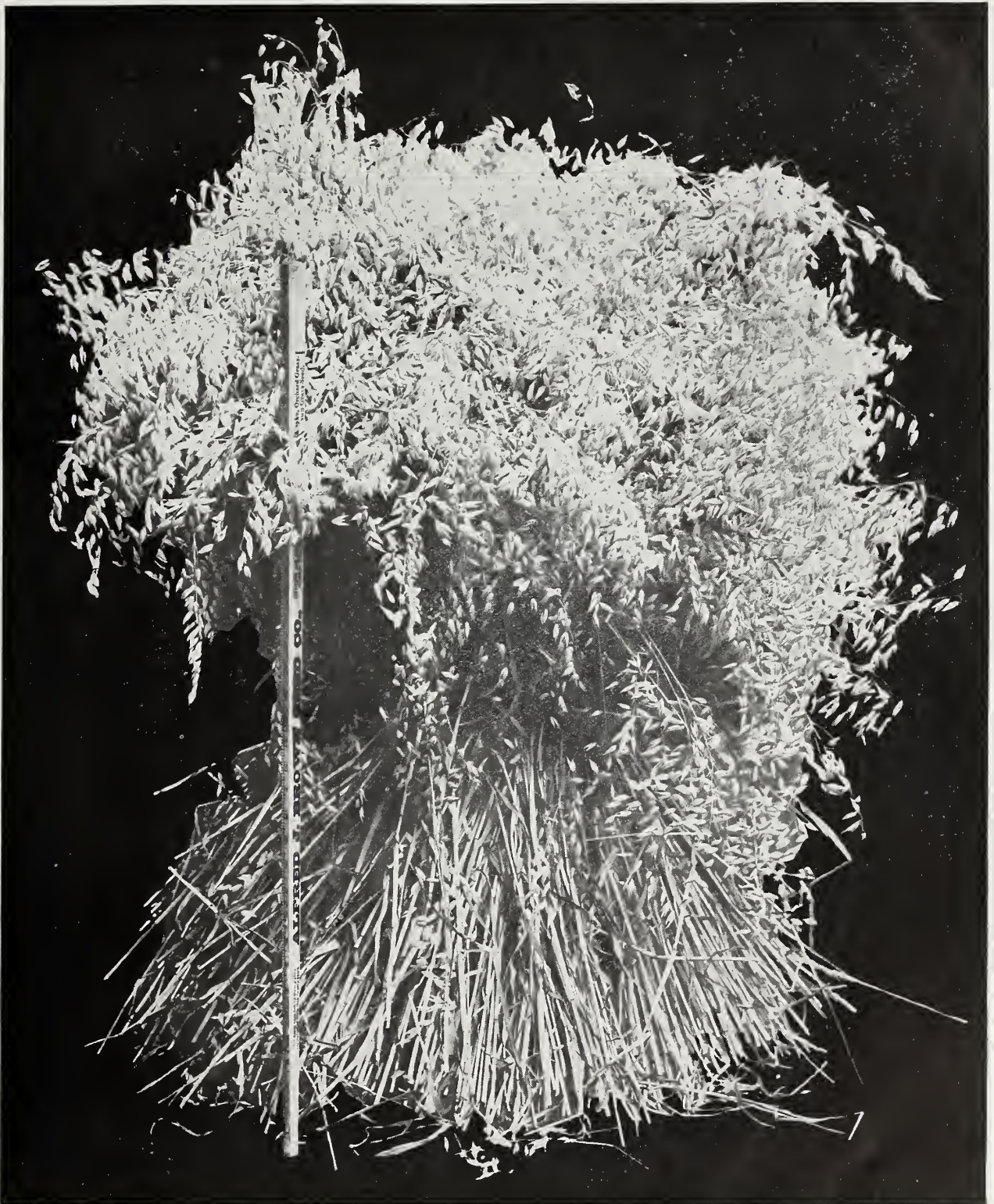


Type of our Large-Flower Phlox

Flower Seed price list on page 24

FLOWER SEEDS

	Per pkt.	Per oz.		Per pkt.	Per oz.	
Abronia, Umbellata	\$.75	\$.75	Larkspur, Double Dwarf Mixed	.05	.40	
Adonis	.05	.20	Lantana, Mixed	.05	.40	
Ageratum, Mixed	.05	.40	Linum, Scarlet Flax	.05	.30	
Alonsoa, Scarlet	.05	.50	Lobelia, Mixed	.05	.75	
Alyssum, Sweet	.05	.30	Love in a Mist, or Nigella	.05	.75	
Alyssum, Little Gem	.05	.30	Lupinus, Mixed	.05	.30	
Amaranthus, Tricolor	.05	.50	Marigold, African Mixed	.05	.50	
Ammobium, Mexicana Everlasting	.05	.50	Marigold, French Mixed	.05	.50	
Antirrhinum, or Snapdragon	.05	.50	Mignonette, Sweet	.05	.30	
Aster, Branching Mixed	.05	.90	Mignonette, Machet	.05	.50	
Aster, Comet Mixed	.05	2.00	Moonflower, Blue	.05	.75	
Aster, Dwarf Chrysanthemum Mixed	.05	2.00	Moonflower, White	.05	.75	
Aster, German Quilled Mixed	.05	.75	Morning-Glory, Japanese Mixed	.05	.30	
Aster, Paeony-Flowered Mixed	.05	2.00	Morning-Glory, Major Mixed	.05	.20	
Aster, Trufants Mixed	.05	1.75	Nemophila, Mixed	.05	.30	
Aster, Victoria Mixed	.05	2.00	Nicotiana, Affnis	.05	.75	
Aster, White Giant	.05	2.00	Pansy, Giant Mixed	.05	3.00	
Aster, Blue Light	.05	2.00	Pansy, Mixed	.05	1.00	
Aster, Blue Dark	.05	2.00	Petunia, Single Mixed	.05	1.00	
Aster, Pink Light	.05	2.00	Perilla, Mixed	.05	.20	
Aster, Pink Dark	.05	2.00	Phlox, Star	.05	.90	
Aster, Pink and White	.05	2.00	Phlox, Perennial	.05	.75	
Aster, Salmon Rose	.05	2.00	Phlox, Drummond	.05	1.00	
Balsams, Double Mixed	.05	1.00	Pink, Hardy Garden	.05	.50	
Flowered	.05	1.00	Pink, Double Chinese	.05	.50	
Balsams, Double Mixed	.05	1.00	Portulaca, Double Mixed	.05	3.00	
Balsams, Double Light Lemon	.05	1.00	Portulaca, Single Mixed	.05	1.00	
Balsams, Double Pink	.05	1.00	Poppy, Carnation	.05	.30	
Balsams, Double Scarlet	.05	1.00	Poppy, California or Escholtzia	.05	.30	
Balsams, Double White	.05	1.00	Poppy, Iceland	.05	.75	
Balloon Vine, White	.05	.30	Poppy, Oriental	.05	.70	
Bartonia	.05	.30	Poppy, Paenoy Flowered Mixed	.05	.30	
Bachelor's Button	.05	.30	Poppy, Shirley	.05	.30	
Bellis, Double Daisy	.05	2.00	Rose of Heaven	.05	1.00	
Butterfly, Flower	.05	.30	Salpiglosses, Choice Mixed	.05	.60	
Burning Bush, or Kochia	.05	.75	Salpiglossee, Mixed	.05	.60	
Carnation, Marguerite	.05	2.00	Salvia, Drooping Spikes	.05	3.00	
Carnation, Mixed	.05	2.00	Salvia, Splendens	.05	2.25	
Candy Tuft, Mixed	.05	.30	Scabiosa, or Morning Bride	.05	.50	
Canna, Crozy's	.05	.30	Scabiosa, Large Flowered Mixed	.05	.50	
Castor Beans, Mixed	.05	.30	Smilax	.05	.75	
Castor Beans, Zanzibar	.05	.50	Sweet Sultan	.05	.20	
Calendula (Pot Marigold)	.05	.30	Sunflower, Minature	.05	.40	
Calliopsis, Mixed	.05	.30	Sunflower, California Double Mixed	.05	.30	
Canterbury Bell	.05	.40	Sweet William	.05	.30	
Canary Bird Vine	.05	.40	Stock, Choice Mixed	.05	2.50	
Centianthus, Mixed	.05	.40	Thunbergia	.05	.75	
Clematis	.05	.75	Verbena, Mixed	.05	1.00	
Corn Flower	.05	.30	Verbena, Blue	.05	1.00	
Cobaea Scandens	.05	1.00	Verbena, Pink	.05	1.00	
Coxcomb, Mixed	.05	.75	Verbena, White	.05	1.00	
Collinsia	.05	.30	Violet, Sweet	.05	1.50	
Coleus, Mixed	.05	4.00	Wall Flower, Single Mixed	.05	.30	
Cosmos, Giant Mixed	.05	.50	Wild Cucumber	.05	.30	
Columbine, Double Mixed	.05	.50	Zinnia, Double Mixed	.05	.40	
Chrysanthemum, Double Mixed	.05	.30	Zinnia, Double Red	.05	.40	
Chrysanthemum, Double White	.05	.30	Zinnia, Double White	.05	.40	
Coreopsis, Mixed	.05	.30	Primrose, Chinese	.05	9.00	
Cypress Vine	.05	.30				
Daisy, Swan River	.05	1.50	Per oz. Per 1/4 lb. Per lb.			
Daisy, Shasta	.05	2.00	Sweet Peas, Apple Blossom	\$.05	\$.15	\$.50
Dianthus, Double Mixed	.05	.50	Sweet Peas, Black Knight	.05	.15	.50
Dolichos, Hyacinth Bean	.05	.40	Sweet Peas, Blanche Ferry	.05	.15	.50
Foxglove, or Digitalis	.05	.90	Sweet Peas, Burpee's New C't'ss	.10	.25	.80
Four O'clock	.05	.40	Sweet Peas, Blanche Burpee	.05	.15	.50
For-Get-Me-Not	.05	.75	Sweet Peas, Countess Spencer			
Gaillardia, Double Mixed	.05	.30	True	.10	.25	.80
Gilia, Tricolor Mixed	.05	.30	Sweet Peas, Countess of Radnor	.10	.25	.80
Godetia, Mixed	.05	.40	Sweet Peas, Emily Henderson	.05	.15	.50
Gourds, Dipper	.05	.30	Sweet Peas, Emily Eckford	.05	.15	.50
Gourds, Ornamental	.05	.30	Sweet Peas, King Edward VII.	.05	.10	.50
Gourds, Sugar Trough	.05	.30	Sweet Peas, Hon. Mrs. E. Ken-			
Gourds, Nest Egg	.05	.30	yon	.05	.15	.50
Gourds, Calabash, Pipe Gourd	.05	.75	Sweet Peas, Navy Blue	.05	.15	.50
Gourds, Pear-Shaped	.05	.30	Sweet Peas, Prima Donna	.05	.15	.50
Hibiscus, Africanus	.05	1.00	Sweet Peas, Salopian	.05	.15	.50
Hollyhock, Double Mixed	.05	1.75	Sweet Peas, Sadie Burpee	.05	.15	.50
Honey Suckle	.05	.40	Sweet Peas, Eckfords Select Mx.	.05	.15	.50
Hop Vine, Japanese	.05	.50	Sweet Peas, White Wonder	.05	.15	.50
Heliotrope, Mixed	.05	1.00	Sweet Peas, Modesty	.05	.15	.50
Ice Plant	.05	.30	Sweet Peas, Lady Mary Currie	.05	.15	.50
Job's Tears	.05	.10	Nasturtium, Tall Mixed	.10	.25	.75
Larkspur, Double Tall Mixed	.05	.40	Nasturtium, Dwarf Mixed	.10	.25	.75



TRUE SWEDISH OAT

After repeated trials for several years we find the Swedish Oat is by far the best oat for the Michigan farmer. The seed we offer is our own growing and we know they are pure. The photo shown above was taken from an average bundle out of a field in East Paris, Kent county, Michigan, about ten miles from Grand Rapids.



ALFALFA

This is a photograph of the third crop, cut the latter part of September, showing a growth of 2 feet or more. The land on which this alfalfa was grown is a gravelly soil within ten miles of Grand Rapids. The first cutting was the latter part of May; the second in July.

CULTIVATION—To insure success land must be thoroughly cultivated and free from weeds. Soil or clay loam should be plowed and cultivated deep, while light, sandy soil should have shallow cultivation so as to secure a compact, firm seed bed.

SUITABLE SOIL—Sandy or gravelly soil with a porous sub-soil which will permit the penetration of the root is considered generally to be the most suitable soil for Alfalfa. Avoid low, cold, wet lands; also high, wet lands such as seepy hillsides. An impenetrable hard-pan sub-soil is very undesirable.

TIME OF SEEDING—May and June seeding seem to give the best general results, although successful seeding in July, even up to August 1st, has been accomplished. Sow from 15 to 20 pounds to the acre broadcast, followed by very light discing or harrowing, or both, as the conditions may demand, on well prepared loam soil. On light, sandy soil, which is apt to drift or dry out quickly, the seed sowed should be imbedded to a greater depth.

QUALITY OF SEED—We most strongly urge the sowing of Northern grown American seed of the best quality obtainable. It costs a little more to seed per acre but it is worth much more.

We do not favor a nurse crop, but if a nurse crop is used do not sow but one-half to two-thirds as much seed. For further information write to Michigan Agricultural College, East Lansing, Michigan, for Bulletin No. 225.

HAIRY, WINTER or SAND VETCH

History and Description

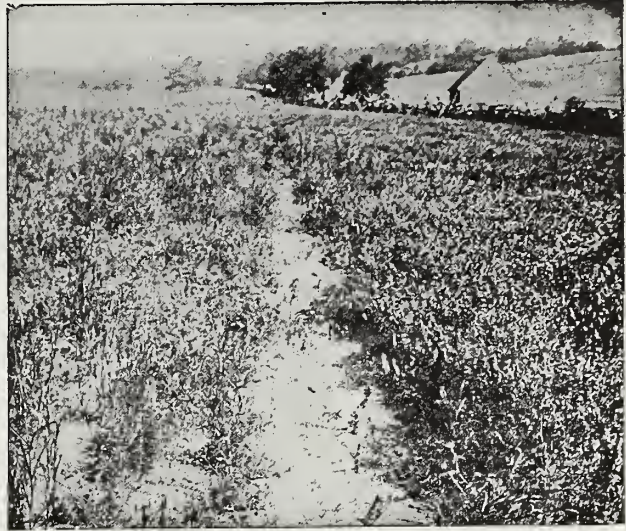
This valuable legume is a native of Western Asia, and was introduced in 1847. It is cultivated extensively in Germany, Russia and France. It is known in Germany as "Sand Zottel" or "Winterwicke." The plant is a branching climbing vine, many of its branches attaining a length of from 8 to 10 feet. The blossoms are a beautiful bluish purple, growing in clusters, and the plant as well as the seed resemble sweet peas. Not until recently has the Department of Agriculture at Washington, D. C., called attention to the great value

of this plant and it is surprising the recognition it received from the farmers and fruit growers in Michigan. In 1909 it was tried as an experiment on sandy soil in different localities of Western Michigan, and the results were so satisfactory that the following year there was an active demand for seed, so much so that it was absolutely impossible to supply the demand late in the season as the seed was practically unobtainable. The demand for seed the season of 1911 has been ten times as great as it was the year before.

Those who experimented with this legume a few years ago, have sown it in the past season in quantities



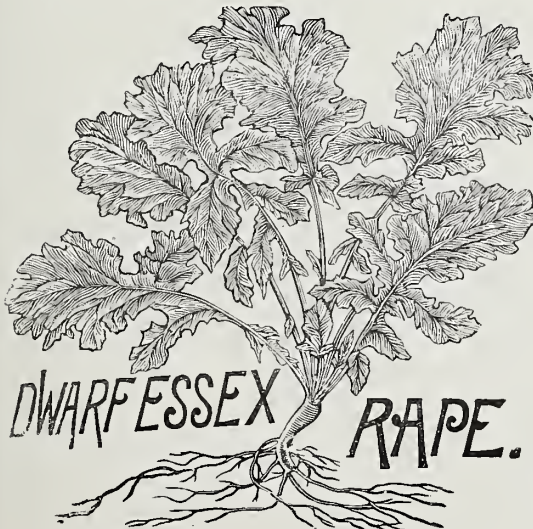
WINTER VETCH



amounting to 3,000 to 4,000 pounds. This certainly is undisputed evidence of its great value. We were the first to introduce Winter Vetch and advocated its value five years ago, but it was not until the Department of Agriculture at Washington, and the Michigan Agricultural College, at Lansing, Michigan, recommended it so highly that it was used to any great extent. We import our seed direct from the best growing section of Europe, where we can secure the true type of Hairy or Sand Vetch, which is practically free from cockle. We are also particular about securing seed that is of strong vitality, and it might be well to say that a bushel of good seed will sow as much land and will produce better results than two bushels of poor seed. Write for pamphlet giving full information. Mailed free.

DWARF ESSEX RAPE

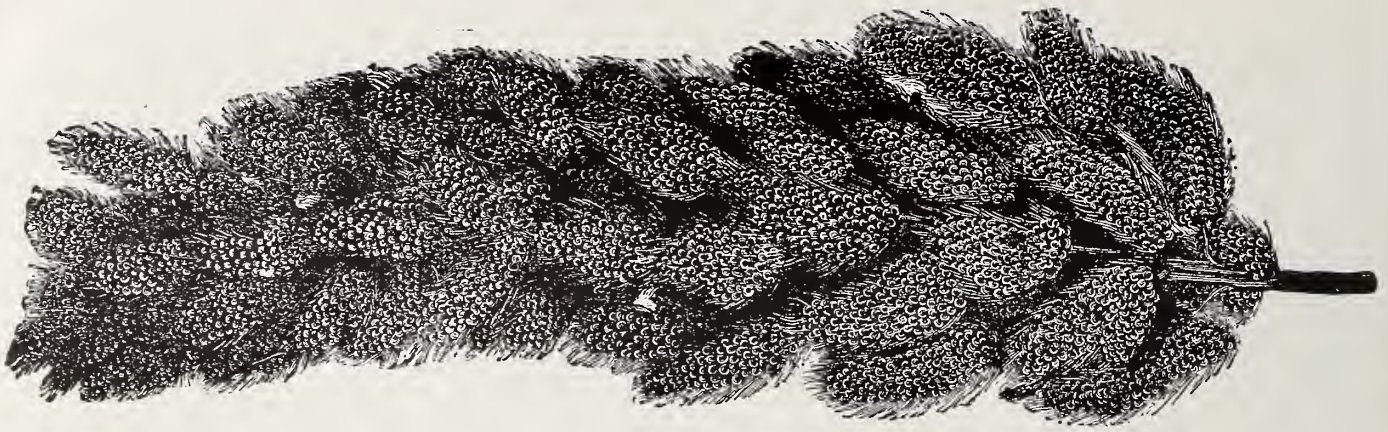
This plant is extensively grown for forage, especially for sheep and for green manure, for which purpose there is perhaps no better plant adapted where a quick, rank growth is desired. Farmers who raise much stock and desire to get young cattle, sheep and lambs



into favorable condition to be sold advantageously in the fall, can do it most cheaply by growing this Rape. Prepare the ground as for turnips and sow in June or July, with a turnip drill, in rows 2½ feet apart, at the rate of 3 pounds of seed per acre, or broadcast at the rate of 6 pounds to the acre.

SOIL REQUIREMENTS—For its best development rape requires a rich, moist, loamy soil and will usually do well on any but light sandy soils and stiff clays, such soils being usually deficient in vegetable matter. In general, a soil that will produce good crops of turnips, cabbages, wheat and corn will be suitable for rape.

EXTENT OF CULTIVATION — Rape is best adapted to rather cool moist climates, such as prevail in portions of Canada and the Northern United States. It can, however, be successfully grown as a forage crop in many of the warmer and drier sections. In the South it may be grown as a fall or winter forage. In favorable seasons, or with a small amount of irrigation, excellent crops of rape are grown in Wyoming, Montana, the Dakotas and Michigan, and many instances are on record where good crops have been produced without irrigation, under conditions of drought so severe as to cause the failure of corn and other farm crops.



Above cut shows natural size.

True Southern Grown German or Golden Millet

True Southern Grown German or Golden Millet, (Round Seed) Cultivated in Drills Expressly for Seed. This Millet withstands drouth better than all other varieties, and under ordinary conditions always produces large crops. The seed we offer is grown in the South where it matures to perfection. Seed grown in the North and West becomes more or less Hybridized with Common Millet, Hungarian Grass and Foxtail and often gives disappointing results. It is worth double as much, or more, than Western grown seed. Where once used it will always be wanted thereafter.



RED COB ENSILAGE CORN

Red Cob Ensilage



Our genuine Red Cob Ensilage corn is far superior to common Red Cob Fodder corn. In the first place our Ensilage corn will show a strong germination of 95% or better. In the second place it will produce considerable more tons of green fodder to the acre. None genuine unless it has the trade mark stenciled on the bags. It was about fifteen years ago when we first introduced the corn to the dairymen and farmers of Western Michigan. Since then the demand has gradually increased and we now are obliged to secure a large supply in order to meet the ever increasing demand. One bushel of this corn has been known to produce fifty tons of green fodder.

COW PEAS

A valuable and nutritious Green Forage or Hay Crop. Enriches poor land; improves good land.

One of the best and most economical ways of improving the soil is the plowing under of a leguminous crop. COW PEAS have been found superior for this purpose, making one of the largest yielding and most nutritious crops known, while as a soil improver they are invaluable. They will grow on any soil that is not wet or cold, and especially on soils medium or light. Like Clover, they absorb Nitrogen from the atmosphere, and the roots, reaching deep into the soil, bring up the necessary Potash, thus making a complete and natural fertilizer. The COW PEA has power greater than any other legume to extract the nitrogen or ammonia from the atmosphere and store same in the vines and roots, so that even if the crop is cut off, the land is enriched and improved by the roots. From 5 to 9 tons of green fodder to the acre have been produced. If planted early in the Central corn belt section, a crop can be cut and cured for hay the same as clover, then the stubble in a short time will put out a new growth which can be turned under in the fall as a fertilizer. Understand they are sown through the Middle North as late as the first of July, while through the South as late as the first of August. Sown 1 to 1½ bushels to the acre broadcast.



SIBERIAN MILLET



CRIMSON CLOVER



MICHIGAN EARLY WHITE DENT

SOJA BEANS

The Soja Beans are fast taking the place of clover in sections where the soil is not the most fertile both for hay and fertilizing purposes. Recommended as one of the best leguminous plants for soil restoring, as it is adapted to all soils. It is a sure cropper. Unsurpassed for hay, claimed to be superior to clover or timothy. Ordinary yield of beans 25 to 40 bushels per acre. They are one of the richest of natural stock foods. Plant in May, for it takes about 90 days to mature the seed. For hay, sow about 1 bushel per acre, either broadcast or

drilled. Cut when in blossom. For seed, sow in drills about 12 inches apart in the rows and have the rows about 30 inches apart.

SOJA or SOY BEANS

Resists both drouth and excessive moisture better than any other forage plant.

Feeding and fertilizer properties equal to or better than the Southern Cow Pea, to which family it belongs. Will produce good crops under more adverse circumstances than other forage plants. Yield: Hay, 1 to 3 tons per acre; Beans, 15 to 35 bushels per acre. With the single exception of peanuts, the Soja Bean is the

most nutritive stock feed. The roasted beans are a good substitute for coffee. Sow from May 15th to June 10th. For hay, 1 bushel per acre broadcast. Cut when in bloom. For beans drill every 30 inches, 12 inches apart in the row.

SORGHUM, or SUGAR CANE

Sorghum is being used extensively as a green food for cattle, horses and mules; it is a sure crop, being a great drouth resister and an immense yielder, producing many tons of most nutritious green food to the acre.

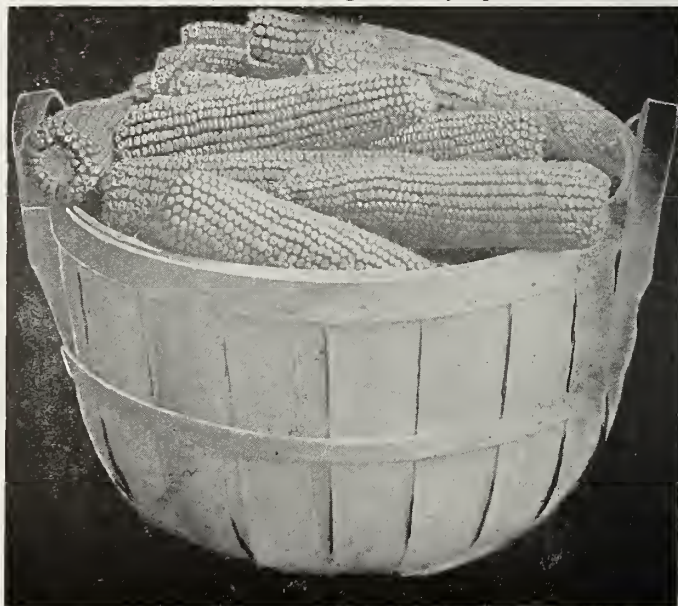
Specially fine for food for milch cows when pasture is short.

EARLY ORANGE CANE—A strong grower; much more juicy than any other variety. The stalk is heavier, and a little later than the Amber.

EARLY AMBER CANE—This popular and well known variety is the earliest and makes the finest quality of both sugar and syrup.

KAFFIR CORN

Produces two to four heads from a single stalk. The whole stalk if cut down as soon as seed heads appear, at once starts a second growth from the roots. It also stands drought wonderfully. If growth is checked for want of moisture the plant waits for rain, and when it comes, at once resumes its growth. On very thin and worn-out lands it yields paying crops of grain or forage, even in dry seasons when corn has utterly failed. The whole stalk, as well as blades, makes excellent fodder, and all stock eat it greedily. Flour made from **KAFFIR CORN** is excellent for batter cakes, muffins, etc. Sow in rows 3 feet apart; 5 pounds per acre.



SELECT YELLOW DENT

FIELD PEAS

FOR DAIRY COWS AND HOGS
Equal To Corn and Six Weeks Earlier

Can be sown separately in drill, or broadcast, 2 to 2½ bushels to the acre, or with oats 1½ bushels to the acre.

The Field Pea does not succeed in the hot climate of the Southern States, but does well in the North, and on any soils adapted to oats or spring wheat.

Cut and feed green, or, if for hogs alone, can be used as pasture.

They have been grown by dairymen with very sat-

isfactory results, following winter rye, which was cut green in June for dairy cows, then stubble turned under and sown to mixed peas and oats, furnishing a large amount of forage in August, when grass pasture is usually short, and producing a supply of milk as abundant as in early summer months.

As a fertilizer they come next to clover, to be plowed under when they commence to blossom. They will grow on land that will not produce clover.

GOOD SEED CORN

The successful Corn Grower knows full well the great importance of planting **GOOD SEED**. Corn of low vitality should never be planted for the following reasons: First, it would be necessary to set the planter so as to drop four kernels average; this would give some hills two and three kernels to the hill and others five, and occasionally six kernels to the hill, and in order to be reasonably sure of the crop it would be necessary to go over the entire field and thin out such hills that had too many plants and, furthermore, he would discover some hills with but one plant in a hill and perhaps none.

It is only seed corn that will show a strong growth of 90% or better that is really fit for seed purposes. When one stops to figure that there is an actual loss of from 25 to 33½% per hill by planting seed of low

vitality it will be apparent that it pays to plant good Corn and nothing else. It is also necessary to plant such Corn that is adapted to the climate and which will be sure to mature in a normal season. One can better afford to pay \$2 a bushel or more for good Seed Corn than to plant something of questionable character. We rarely offer Seed Corn of lower vitality than 95% and often as high as 97%. While we never offer Seed Corn of lower vitality than 90%. It is not an uncommon thing for a farmer to select some of the best ears from his crib and take a chance at it without knowing whether the Corn will grow even 50%. It would pay him much better to feed such Corn and secure Corn that has not only been grown and bred especially for seed purposes, but Corn that he is sure will grow satisfactorily.

SWEET CLOVER

Sweet Clover seems to be coming to its own, and seed is said this season to be quite scarce. Aside from its value as a soil renewer, after the manner of Clovers, and as a bee pasture the plant itself, long classed among the noxious weeds, is now recommended as a weed eradicator.

"Its value to the farmer as a noxious weed eradicator deserves mention," says a writer in the Country Gentleman. "During June I sowed 10 pounds of Sweet Clover seed on a plat of ground of about an acre and a half which contained Canada thistles. The plat was not plowed, the seed being sown simply on the sod. In due time the plant appeared and grew luxuriantly in spite of drouth, which overtook it. It has been left standing and allowed to reseed itself annually until now it has become an impenetrable mass, having attained a height of from seven to nine feet on an average. This luxuriant growth has almost entirely choked

out every Canadian thistle and other weeds. I think farmers would do well if they would make use of their waste places and fence-rows which are infested with weeds to sow Sweet Clover and allow it to reseed itself and choke out the weeds. It might just as well be growing in waste places and fence-rows as weeds, and it would supply the bees with abundant pasture. It might be objected to and termed a weed, but if it is, it is a very valuable one."

I am satisfied that Sweet Clover Seed will be in demand in a few years and the seed dealers will be compelled to carry it in stock, owing to the increased acreage and its popularity as a valuable plant of many uses to the farmer, stockman and beekeeper. In classing Sweet Clover I think it takes second place to Alfalfa with the other Clovers following.

PRICE LIST OF FARM SEEDS AND PLANTS

CLOVERS

	Per Lb.	Per Bu.
Medium or June.....	\$0.30	Market price
Mammoth .....	.30	" "
Alsike .....	.25	" "
Alfalfa .....	.25	" "
Crimson .....	.20	" "
White Dutch .....	.50	" "
Sweet Clover .....	.25	" "

GRASS SEEDS

	Per Lb.	Per Bu.
Timothy	\$0.20	Market price
Kentucky Blue Grass.....	.35	" "
Orchard Grass .....	.25	" "
Perennial Rye Grass.....	.15	" "
Red Top Fancy .....	.30	" "
Red Top Unhulled.....	.20	" "
Creeping Bent Grass.....	.40	" "
R. I. Bent Grass.....	.40	" "
Wood Meadow Grass .....	.50	" "

LAWN GRASS

Fancy Mixed, 1-Lb. Pkg.....	\$0.35
Fancy Mixed, 3-Lb. Pkg.....	1.00
Fancy Mixed, 10 Lbs. or more, per Lb.....	.30

SEED GRAIN

	Per Bu.
Barley, Fancy Two Rowed.....	\$2.00
Barley, Six Rowed.....	1.75
Buckwheat, Silver Hull.....	1.25
Buckwheat, Japanese	1.25
Spring Rye	1.25
Swedish Oats .....	.90
Montana Oats	1.00
Alberta Oats	1.25
Speltz	1.00

MILLETS

	Per Bu.
Southern German	Market price
Western German	" "
Common	" "
Siberian	" "
Japanese	" "
Hungarian	" "

FIELD AND COW PEAS

	Per Bu.
Canada Field	\$2.25 @ \$2.50
Cow Peas, Mixed.....	2.50 @ 2.75
Cow Peas, New Era	2.50 @ 2.75
Cow Peas, Whippoorwill.....	2.75 @ 3.00
Soy or Soja Beans.....	2.50 @ 2.75

SEED CORN

	Per Bu.
Michigan Yellow Dent	\$2.25
Michigan White Dent	2.25
Pride of the North.....	2.25
King of the Earlies.....	2.25
Minnesota No. 13	2.50
Early Huron	2.25
White Cap Yellow Dent.....	2.50
Wisconsin White Dent	2.25
Longfellow Flint	2.50
Compton's Early Flint.....	2.50
Sanford's White Flint	2.25
Smut Nose	2.50

FODDER CORN

	Per Bu.
Genuine Red Cob Ensilage.....	\$1.50
Yellow Dent Fodder.....	1.50
Leaming	1.50
Evergreen Sweet Fodder.....	2.25
Mixed Sweet Fodder	2.00

ORNAMENTAL TREES

Ask for Prices.

MISCELLANEOUS SEEDS

	Per Lb.
Dwarf Essex Rape	\$0.07
Spring Vetch .....	.07
Winter Vetch .....	.15
Amber Cane .....	.04
Kaffir Corn .....	.02
Special prices on 100 lbs. or more.	
Flax .....	.07
Sunflower .....	.07
Hemp .....	.08
Bird Rape .....	.08
Canary .....	.08
Imported Millet .....	.05
Mixed Bird Seed.....	.08

(4 Lbs. Bird Seed for 25c.)

PLANTS

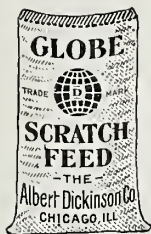
Tomato, per 200 Box.....	\$1.00
Cabbage, per 100 Box .....	.50
Celery, per 100 Box.....	.50
Pepper, per 100 Box.....	1.00
Sweet Potato, per 100 Box.....	.75
Cauliflower, per 100 Box.....	1.00

FLOWERING PLANTS

Ask for Prices.

PRICES SUBJECT TO MARKET CHANGES

POULTRY AND CHICK FOOD



"GLOBE" SCRATCH FEED—A balanced grain ration, poultry feed for grown fowls. (Strictly high grade.)

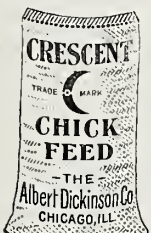
Made from Wheat, Kafir-Corn, Cracked Corn, Barley, Buckwheat, Oats, Grit, Oil Cake and Sunflower.

1 to 9 lbs.	\$.05
10 to 99 lbs. ....	.02½
100 lbs.	2.00



"SUN" CHICK STARTER—A primary grain feed for baby chicks up to 20 days old. (Extra small grade.) Made from Cracked Wheat, Cracked Kafir-Corn, Cracked Corn, Cracked Green Peas, Millets, Steel Cut Oats and Grit.

1 to 9 lbs.	\$.05
10 to 99 lbs. ....	.03
100 lbs.	2.30



"CRESCENT" CHICK FEED—A complete grain feed for chicks until 8 weeks old. Made from Cracked Wheat, Cracked Kafir-Corn, Cracked Corn, Millets, Hulled Oats and Grit.

1 to 9 lbs.	\$.05
10 to 99 lbs. ....	.02½
100 lbs.	2.20



"QUEEN" POULTRY MASH—Contains Alfalfa Meal. A selected mixture of ground feed, manufactured from the choicest sound, sweet and wholesome grain. It is carefully prepared, and contains ingredients in proper proportions essential to the health and growth of the fowl, and especially as a supplementary feed for production of eggs. Contains Alfalfa Meal to furnish the green matter for winter. Also contains Oil Cake.

1 to 9 lbs.	\$.05
10 to 99 lbs. ....	.02½
100 lbs.	2.00



"KING" PIGEON FEED—A carefully mixed balanced ration of sound and sweet grain, and special seed best adapted for Pigeons. Made from Fancy Wheat, Cracked Corn, Kafir-Corn, Field Peas, Hemp, Buckwheat, Millet and Grit.

1 to 9 lbs.	\$.05
10 to 99 lbs. ....	.03
100 lbs.	2.40

"COLONIAL" DEVELOPING FEED—Coarse Chick. A coarse grain chick feed to meet requirements of growing chick from the time it has out grown the "Crescent Brand" until large enough for the "Globe" Scratch Feed.

1 to 9 lbs.	\$.05
10 to 99 lbs. ....	.02½
100 lbs.	2.15

ALFALFA MEAL—

1 to 4 lbs.	\$.05
5 to 49 lbs. ....	.03
50 to 99 lbs. ....	.02
100 lbs.	1.80

MEAT MEAL—

1 to 9 lbs. ....	.05
10 to 99 lbs. ....	.03
100 lbs.	2.80

SEEDS FOR FEED—

Hemp, per lb. ....	.05
100 lbs.	4.25
Sunflower, per lb. ....	.10
Over 5 lbs. ....	.06
100 lbs.	6.00
Millet, per lb. ....	.05
Over 10 lbs. ....	.03
100 lbs.	2.60
Canada Field Peas, per lb. ....	.60
100 lbs.	2.40

MICA CRYSTAL GRIT—Pigeon Size—

1 to 5 lbs. ....	.05
5 to 99 lbs. ....	.01
100 lbs. ....	.90

MICA CRYSTAL GRIT—Poultry Size—

1 to 5 lbs. ....	.05
5 to 99 lbs. ....	.01
100 lbs. ....	.90

PEARL GRIT—Chick size—

1 to 5 lbs. ....	.05
5 to 99 lbs. ....	.01
100 lbs. ....	.80

CHARCOAL—Coarse for Poultry—

Per lb. ....	.05
50 lbs. ....	.02
100 lbs.	1.90

Medium for Pigeons—

Per lb. ....	.05
50 lbs. ....	.02
100 lbs.	1.90

Fine for Chicks—

Per lb. ....	.05
50 lbs. ....	.02
100 lbs.	1.90

BEEF SCRAPS—

Per lb. ....	.05
50 lbs. ....	.04
100 lbs.	3.25

KAFIR-CORN—

1 to 4 lbs.	\$.05
5 to 99 lbs. ....	.02
100 lbs.	1.75

OATS, HULLED—

Per lb. ....	.05
50 lbs. ....	.04
100 lbs.	3.50

OATS, STEEL CUT—

Per lb. ....	.05
50 lbs. ....	.04
100 lbs.	3.50

FERTILIZERS

Brand.	Per Ton	Per 100 lbs.
Swift's Superphosphate	\$32.00	\$1.75
Swift's Champion Wheat and Corn Grower	35.50	2.00
Swift's Grain Fertilizer	30.00	1.60
Swift's Special Grain Fertilizer	34.00	1.75
Swift's Complete Fertilizer	29.00	1.60
Swift's Onion, Potato and Tobacco	37.00	2.00
*Swift's Truck Grower	32.00	1.75
Swift's Potato, Celery and Onion	36.00	2.00
Swift's Sugar Beet Grower	38.00	2.00
Swift's Ey, Potato and Vegetable Grower	45.00	2.50
Swift's Pure Bone Meal	37.50	2.00
Swift's Pure Bone Meal and Potash	39.00	2.00
Swift's Bean and Grain Grower	30.00	1.60

Brand.	Per Ton.	Per 100 lbs.
Swift's Ground Steamed Bone	\$36.00	\$2.00
Swift's Corn and General Crop Grower	34.00	1.75
Swift's Garden City Phosphate	25.50	1.50
Swift's Special Phosphate and Potash	26.00	1.50
Muriate of Potash (Shipped from Chicago)	56.50	3.00
Kainit (from Chicago)	25.00	1.50
Nitrate of Soda 19%	66.00	3.50
Sulph. of Potash	65.00	3.50

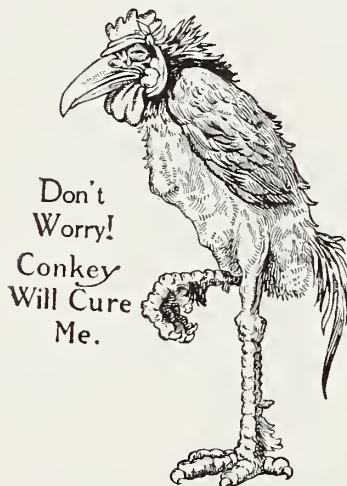
Note—50 lbs. at 100 lbs. Prices. Special prices on large quantities.

*Best for all around farm use. 500 to 1,000 lbs., to acre according to condition of soil.

Conkeys Poultry Remedies

CONKEY'S ROUP REMEDY is a scientifically prepared medicine. Coming in contact with the membranes of the throat and mouth, the seat of the disease, it kills the germs which are so rapidly multiplying. It is quickly taken up by the system and, being a strong tonic and blood purifier, it cleanses the blood, builds up the system, and assists nature in every possible manner to throw off the disease.

Price, small size, 50c post paid; large size, \$1.00, post paid.



Don't
Worry!
Conkey
Will Cure
Me.

CONKEY'S NOX-I-CIDE—(Formerly called Taroline). This is the poultryman's best friend. The majority of dangerous poultry diseases may be traced to the presence of germs which thrive in filth and uncleanness. **CONKEY'S NOX-I-CIDE** is a soluble disinfectant, deodorant and germ destroyer. It mixes with water, in correct proportion for using, one gallon making 101 gallons of ready-to-use liquid. It is the cheapest and most effective article of its kind ever put out. For poultry, it is an unexcelled article for cleaning and purifying the houses, runs, brooders, founts, and utensils. For household use it is of wonderful value in almost every department. It is unequaled for the sick room, and for purifying everything about the house, barns and outhouses. Price, small size, 35c; express paid, 60c; medium size, 60c; express paid, 85c.

CONKEY'S SCALY LEG REMEDY. This cures Scaly Leg, and is also an excellent dressing for the feet and legs of show birds. Price 50c; 55c postpaid.

CONKEY'S POULTRY TONIC—A general tonic for minor ailments that are not determined. Will often stop a disease at the start. Price, 25c; 30c postpaid.

CONKEY'S LAYING TONIC. This actually promotes egg production without injuring or straining the fowl. It is not a food which you can buy cheaper at home, but it is a powerful, but harmless, medicine that gently acts on the egg-producing organs and promotes egg laying and health at the same time. Prices, 1/2 lbs., 25c; 3/4 lbs., 50c; 7 lb., \$1.00; 25 lb. pail, \$3.00. Express extra.

CONKEY'S LICE POWDER—The best Lice Powder ever made. It absolutely kills the lice. Prices, 5 oz. pkg., 10c; 15 oz. pkg., 25c; 48 oz. pkg., 50c; 100 oz. pkg., \$1.00. Expressage extra.

CONKEY'S LICE LIQUID is the only thing for Mites. It kills them and keeps your fowls free. Prices, 1 qt., 35c; 2 qt., 60c; 1 gal., \$1.00; 5 gals. (jacketed), \$4.00. Expressage extra.

CONKEY'S LAYING TONIC—For the hen to lay the greatest number of eggs, her health must be kept in perfect condition and the egg-producing organs kept free from irritation and disease. There have been put upon the market many so-called egg producers which are irritants in themselves, while others are simply frauds, producing no effect whatever, and having no value except, perhaps, as foods for which you are paying ridiculous prices.



Price, 1/2 lb., 25c; post paid 50c; 3/4 lb., 50c; express paid, 75c.

CONKEY'S CHICKEN POX REMEDY—This is called by different names in various localities—**SORE HEAD, WARTS, PIAN AND PIGEON POX.** They are all the same disgusting disease and this will cure it. Price, 50c; 55c postpaid.

CONKEY'S LIMBER NECK REMEDY—When fowls eat putrid flesh they are liable to have ptomaine poisoning, called Limber Neck. This remedy cures readily if given at the first start. It should be kept on hand. Price, 50c; 55c postpaid.

CONKEY'S POULTRY LAXATIVE—Don't give Castor Oil, Salts, Aloes, etc. This is absolutely reliable. Price, 25c postpaid.

CONKEY'S WHITE DIARRHOEA REMEDY—Each 50c postpaid.

CONKEY'S BRONCHITIS REMEDY—Bronchitis is often mistaken for Roup, but it requires a different remedy. Price, 50c postpaid.

CONKEY'S CHOLERA REMEDY—A positive cure for diseases of the digestive organs and all troubles leading to Cholera. Price, 25c and 50c postpaid.

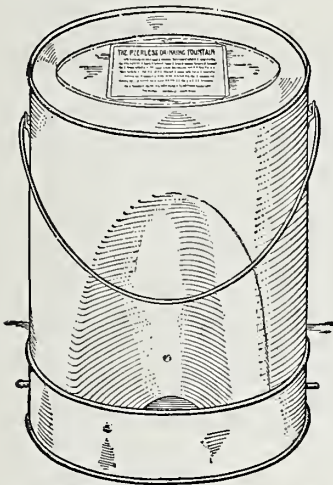
CONKEY'S SULPHUR CANDLES. Four oz. Sulphur each. Death to insects and vermin. Prices, 10c, 3 for 25c.

CONKEY'S STOCK VIGOR cleanses the blood of Horses, Cattle, Sheep and Swine, when they are in a run-down condition.



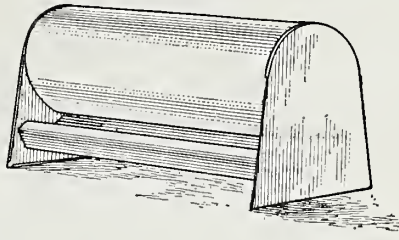
CONKEY'S RHEUMATIC REMEDY cures those lame and useless birds, tones the system, limbers up the joints, and gets them into profit paying condition in very short order. It is absolutely dependable if used according to directions. Prices, 50c, or 55c, postpaid.

Five Qt. Peerless Drinking Fountain.

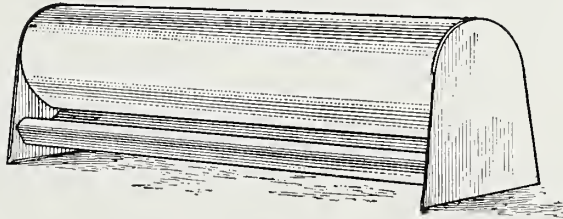


Keeps water fresh. Very easy to adjust. 5 quart, price 60c; 1 quart, chick, 30c.

9 inch Hub Chicken Feeder.

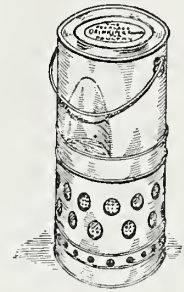


15 inch Hub Chicken Feeder.



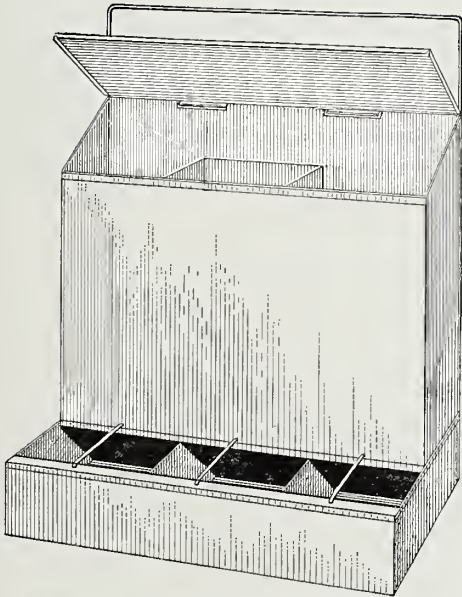
Is sanitary, keeps the feed clean and dry. Chickens cannot get into it, and cannot waste the feed. It will pay to use the Hub Feeder for small chickens. Chicken feed costs money. The Hub Feeder saves chicken feed. At night turn the feeder over backwards until face down and nothing can get into it. 9 inch feeder, 35c; 15 inch feeder, 50c.

Peerless Combination, For Winter Use.



Consists of five quart fountain and complete heater. Price, \$1.50.

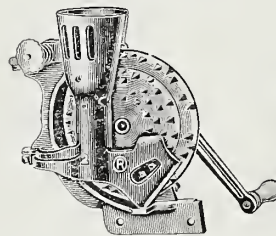
1-2-3 Poultry Feeder.



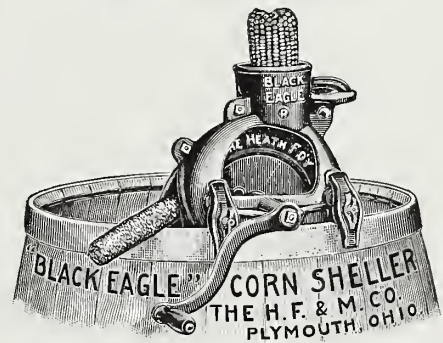
For Dry Mash, Scraps, Shells, Grit, Charcoal or any poultry feed. When used for one kind of feed only take out separator; for two kinds put separator in one end; when used for three kinds, say scraps, shells and grit, put separator in the middle and you have three separate feeders. Price 75c.

Black Eagle Corn Sheller.

Corn Sheller.

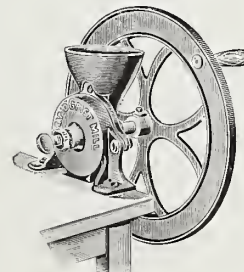


With Pop Corn attachment. Price \$1.00.




Price, \$1.50.

Rapid Grist Mill.



Is needed in every home. Finished in red and gold. Weight 22 lbs. Price, \$2.25.



A Scientific Triumph!

LICE KILLER and NEST EGGS

COMBINED IN ONE

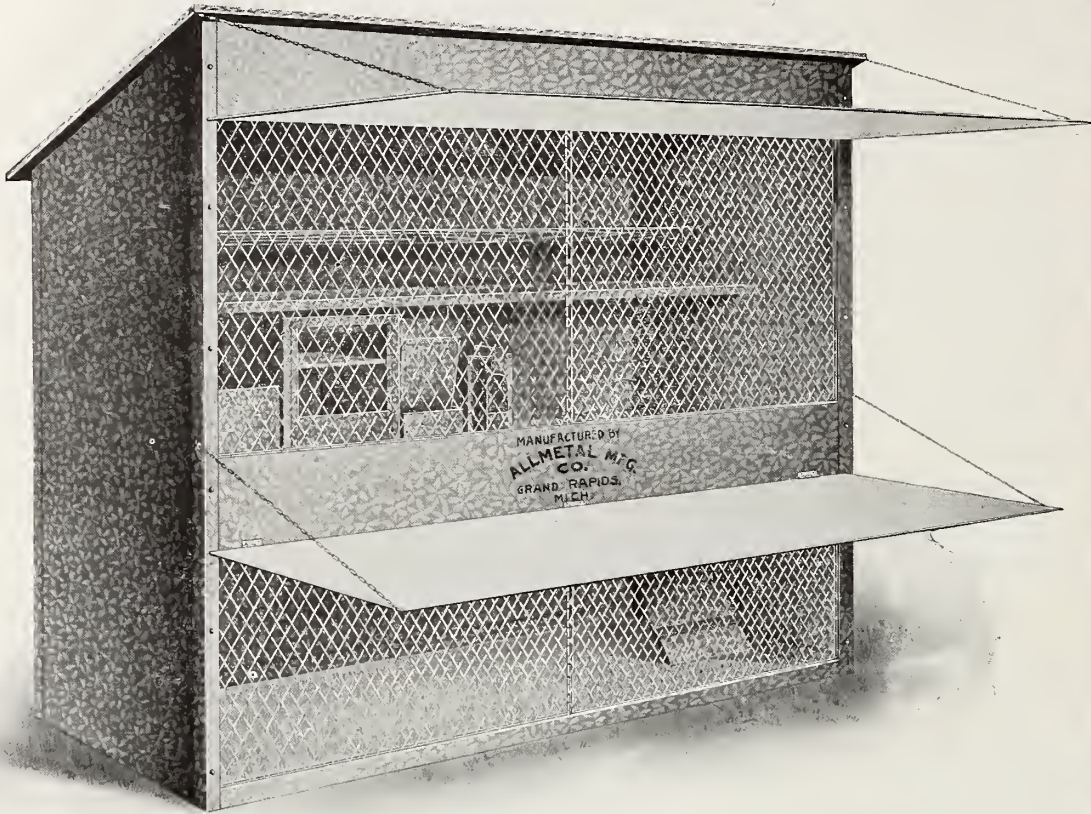
Effective Lasting Not Expensive

Superior to any other in Form, Size, Appearance and every way.

They look exactly like natural Plymouth Rock eggs and are excellent for laying hens.

Price, each 5c; per dozen, 50c.

ALLMETAL COLONY HOUSE No. 71



Round Allmetal Hot Water Oat Sprouter

Insures green feed for the chickens in winter. Built in sections to obtain any capacity. Price, 15 inch base section complete, \$2.50; 15 inch sprouting sections each, \$2.00; 15 inch top section, each \$2.00; 24 inch base section, complete, \$3.50; 24 inch sprouting section, each \$3.00; 24 inch top section, each, \$3.00.

Allmetal Square Oat Sprouter

It is 5 feet 6 inches high in front, 4 feet 6 inches high in back, 3 feet deep and 6 feet wide. Built on the double deck plan which gives a large scratch pen below and roosts, nests, etc., above. Has double roof and double walls throughout, each wall coated with asbestos lining and a 1/2 inch dead air space between the walls.

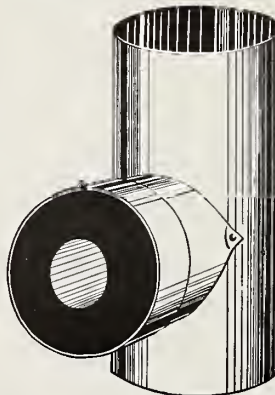
Shipped in knockdown, sides, ends, roof, floors, etc., complete. Can be set up or taken down in an hour's time. Bolts are included and the only tools required are screw drive and wrench.

Furnished complete with roost, nests feed hopper, drinking fount, and shell box box. Weight 400 lbs. Price, \$30.00 F. O. B. Grand Rapids. Six foot wire runway, extra \$6.50.

Allmetal Square Oat Sprouter.

Fifty chicken capacity. Size 15x15x36 inches. Price, complete, \$7.50; 300 chickens capacity. Size 19x20x42 inches. Price, complete, \$12.50.

Allmetal Egg Tester



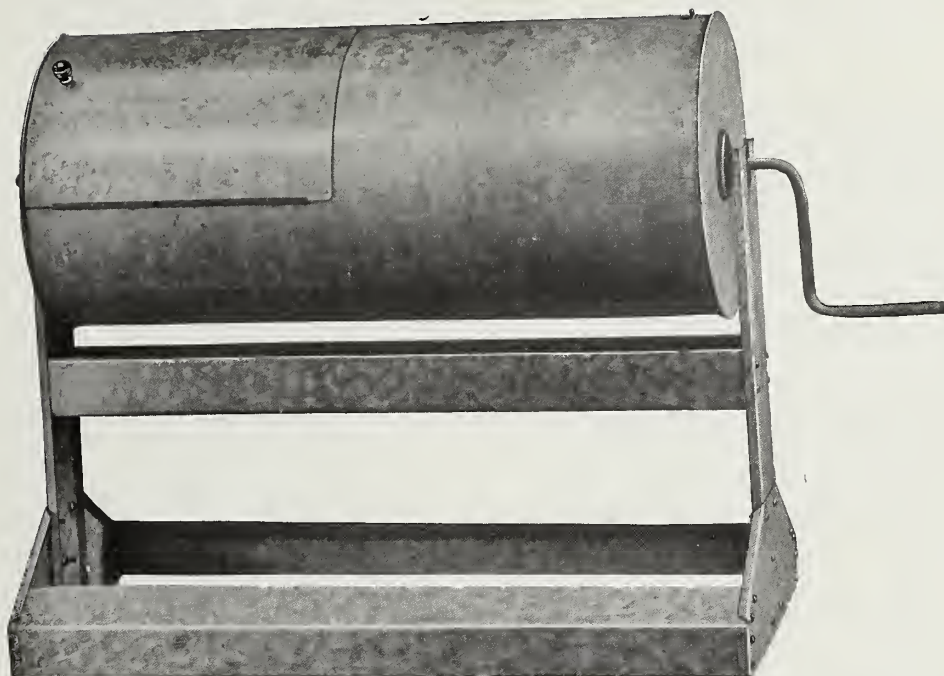
Price, each 25c; per doz., \$2.75.



Allmetal Trap Nest

12 inches square, 12 inches deep, each \$1.00. 12 inches square 24 inches deep each, \$1.50.

Allmetal Lice Killing Machine



Ventilated at both ends. Has sliding dor. Capacity 10 chickens or 50 chicks. Drum 28 inches long and 15 inches diameter. Price, \$3.25.

Allmetal Exhibition Coups

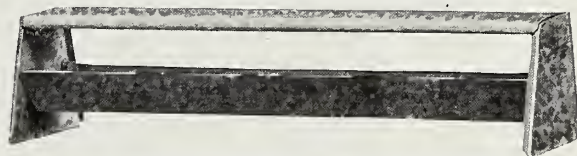


Standard size. Swing or slide doors. Price, each, \$2.25; dozen, \$24.00. Shipped F. O. B. Grand Rapids in knock down.

Allmetal Open Nest.

Can be easily set up or taken apart. Will not breed vermin. Size, 12x12x6 inches. Each, 50c; per doz., \$5.40.

Allmetal Chick Feeder



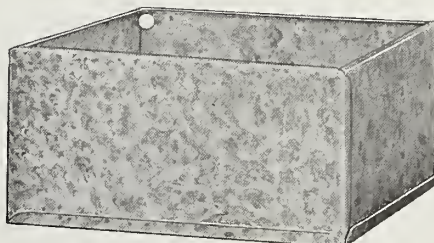
Length, 14 inches. Feed from both sides and keeps chickens out of trough. Price, each 15c; per doz., \$1.70.

Allmetal Wall Feeder



15 inches long. Dry feed and table scraps. Price each, 25c; per doz., \$2.75.

Allmetal Open Nest



Prairie State Incubators and Brooders

WRITE FOR BOOKLET.



No. 2 Incubator



Junior No. 2

THE COMBINATION COLONY BROODER No. 1.

This brooder house is constructed of tongued and grooved boards. The brooder is full size in all dimensions, 3 feet wide, 6 feet long and 3 feet high in front and 2 feet in rear with tin roof. The interior is divided by a movable partition in two compartments; the nursery room and the exercising room or sun parlor. The nursery is double-walled, top and sides, with dead-air space and paper insulation between the board partitions, securing warmth and uniform temperature. A strong point in the nursery is the circular hover without obstructions of any kind, such as hot drums or domes, leaving every inch of inside space available for the chicks. It is open all around. No cold corners or hot spots to crowd into. A glass door in front, 22 inches wide, furnishes light and access to the chicks. A movable board under the door brings the opening level with the door of nursery, and permits easy cleaning of the apartment.

All Prairie State Incubators are of the hot-air type, insuring long life and durability; no tanks to rust out or spring a leak in the middle of a hatch. The outside case, etc., is nicely finished in natural wood, unstained. The space between the inner and outer case is insulated with $2\frac{1}{4}$ inches of cotton batting, 3 inches on top. The heating system is a combination of radiant heat on the top of machine with the diffusive system of ventilation. In this respect our machine differs from all others upon the market. No diffusion screens, with their faulty distribution, are used. We have the most uniform distribution of heat of any incubator made, and we except none.

VENTILATION.

To develop the growing germ strong in vitality requires an almost unlimited amount of pure, fresh air. Ventilation in the Prairie State is two or three times as great as in any other machine, but does not pass through the eggs; it passes over the eggs. The eggs are ventilated by diffusion perfectly, but are not dried.

MOISTURE.

Did you ever notice the hen that steals her nest on the ground? That's natural incubation. And she usually hatches every egg, don't she? We've copied her. We use a wet sand tray, covering the entire bottom of the machine in close proximity to the eggs, thus furnishing the proper amount of moisture and reducing the evaporation from the eggs to the same per cent. (9 to 11 per cent.) as under a hen. This insures chicks full of vitality—chicks that live—just like hen hatched chicks. Non-moisture machines hatch weak, small chicks, of low vitality, hence the heavy death loss during the first two weeks.

No. 2 JUNIOR INCUBATOR.

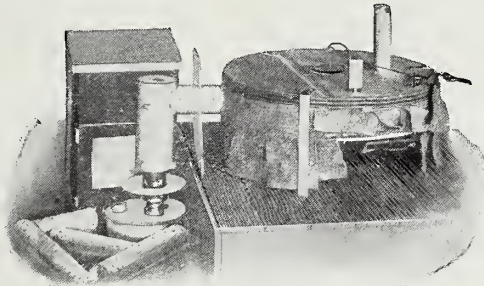
For years we have been receiving calls for a cheaper machine. This machine is as carefully built as the higher-priced machines and of just as good material. It being smaller, short cuts or trimmings from the larger machines are used in its construction. Less insulation is used in the walls than the regular machines. The outside case is of clear lumber, free from knots, smooth, filled and varnished natural wood. The case is double insulated with cotton batting and papered insulation. The eddy-current system of heat distribution is used, double ventilation, direct current or diffusive, applied moisture, wet-sand tray, nursery for drying off and hardening the chicks, complete in every particular.



No. 1 Colony Brooder

Prairie State Universal Hovers

The Prairie State Universal Hover has completely revolutionized the rearing of chicks. No device ever offered to the poultry-raiser has received such endorsement. In cold weather and hot weather, it has been an overwhelming success. As its name implies, our Universal Hover has a universal sphere of usefulness. There is practically no limit to its adaptability. As an individual brooder in brood houses alone or in com-



Universal Hover

ination with a hot-water pipe system, or may be used as an indoor brooder in almost any kind of building. It may be attached to any form of outdoor brooder two feet or more in height, to any size or form of colony house, shed, coop, piano, drygoods or organ box. It also enables those who wish to build their own brooders to get the best brooding device possible

in an economical manner. It fills that want, felt by every one who raises poultry, for something they can use anywhere, any time, and do the work well.

The hover is twenty-two inches in diameter, the top of which is wood, lined with strawboard, a 4-inch rim extending downward to which is attached six inches of felt curtains. The hover stands on three iron feet, but is not stationary, and may be raised and moved instantly, if desired.

A thermometer is provided, which may be read from the outside without disturbing any part of the brooder. The lamp used is made of metal, using a No. 2 Sun Hinge Burner and a metallic chimney seven inches in length, thus assuring a steady, bright, clear flame; the lamp being on the outside of the brooder in view at all times. Surrounding the hot air flue or chimney is a fresh-air pipe through which fresh air, slightly warmed, is injected into the upper part of the brooder. This diffuses downward and through the curtains, thus furnishing a perfect system of ventilation. At an additional cost of \$1 to the regular price, a standard wafer regulator may be attached to the hover by the use of which a uniform temperature can be maintained without close attention. It is not essential, but a great convenience during the cold, changeable weather and greatly aids the operator in supplying the desired conditions for newly hatched chicks, relieving him of any cause of worry concerning the brood.

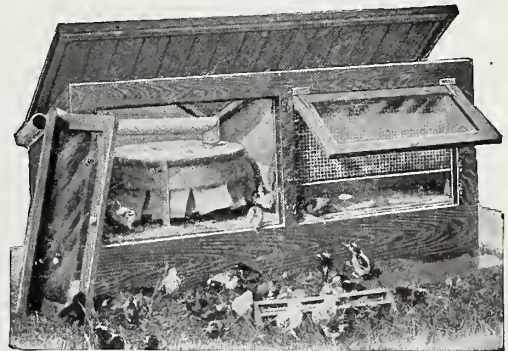
THE COMBINATION COLONY BROODER No. 2.

This brooder is similar to the No. 1 in construction and is 60 inches long, 30 inches wide, 20 inches high in rear, and 30 inches in front.

The interior is divided into two large compartments by a movable partition—the nursery room, and the sun parlor, or the exercising room; the floor throughout being on a level, and 8 inches from the ground. Between the nursery and exercising room is an opening 18 inches wide, with a wooden door, hinged to open and close at will, so when desired the chicks may be confined in either apartment. With the wooden door opened, the space is covered with a heavy felt curtain, slitted for easy passage of the chicks back and forth.

Two glass doors, 26 by 14 inches furnish access to the chicks confined. A movable board below the

glass door brings each opening level with the floor and permits easy cleaning of each apartment.



No. 2 Colony Brooder

PRICE LIST

PRAIRIE STATE INCUBATORS.

No. 0.—100 hen eggs; 135 lbs. crated	\$18.00
No. 1.—150 hen eggs; 160 lbs. crated	22.50
No. 2.—240 hen eggs; 240 lbs. crated	32.00
No. 3.—390 hen eggs; 275 lbs. crated	38.00

COMBINATION COLONY HOUSE BROODERS.

No. 1.—(Outdoor), wt., crated, 270 lbs.	\$20.00
No. 2.—(Outdoor) wt., crated, 208 lbs.	16.00
No. 3.—(Outdoor), wt., crated, 150 lbs.	12.00

JUNIOR INCUBATORS.

No. 2.—115 hen eggs capacity; 110 lbs. crated .	\$15.00
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UNIVERSAL HOVER.

Price for Hover, with lamp case, smoke conductors, lamp and thermometer	\$ 7.00
When used indoors alone, lamp case is not required.	
Hover and lamp with smoke pipes	\$ 6.00

With regulator attached, \$1.00 extra.

Insecticides and Spraying Material

LIME AND SULPHUR

Per bbl. of 50 gallons, \$9.00 (Refund of \$1.00 for empty bbl.)

ARSENATE OF LEAD

100 lb. kegs	\$10.00	5 lb. cans .....	.85
50 lb. kegs	5.50	2 lb. cans .....	.40
25 lb. kegs	3.25	1 lb. can .....	.25

TREE TANGLEFOOT



Tanglefoot prevents insects from crawling up the trees.
 Price, 1 lb. can, 30c; express paid, 60c; 3 lb. can, 85c; express paid \$1.20; 10 lb. can, \$2.65; express paid, \$3.00.
 A band of 3 to 4 inches should be applied and one pound will protect 15 to 25 trees according to size.

BUG DEATH

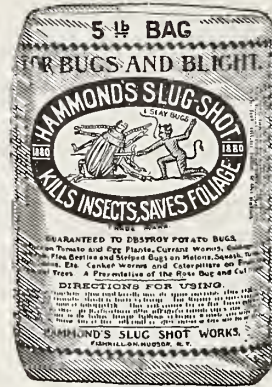


Pat. March 16 and Nov. 9, 1897.

BUG DEATH is a fine tenacious powder, and in composition is peculiar to itself, inasmuch as it does not depend upon Arsenic for its killing power. The only insecticide harmless to use which will kill the bugs and insects, protect the life of the leaf and plants, insure highest quality and promote vigor of the plant, tree or vine. Bug Death is not a new and untried preparation. It has been on the market fifteen years. May be used dry or in solution, prevents blight. We give Bug Death our fullest endorsement.

PRICE LIST.

One pound package, 15c; packed 24 in each case. Three pound package, 35c; packed 12 in each case. Five pound package, 50c; packed 6 in each case. 12½ pound package, \$1.00; packed 4 in each case. Dickey Bug Death Duster for applying dry, 25c; packed 12 in each case. Acre-an-Hour Sifter, 75c; packed 12 in each case.



Perforated top Carton for small gardens, dusting Fowls, Dogs or Cats.

Used from Ocean to Ocean. A light composite, fine powder, easily distributed either by duster, bellows, or in water by spraying. Thoroughly reliable in killing Currant Worms, Potato Bugs, Cabbage Worms, Chicken Lice, Slugs, Sow Bugs, etc., and it is also strongly impregnated with fungicides. Packed in barrels of varying weight, but 8 bbls. average a ton. Prices, 1 lb. can, 15c; postpaid, 35c; 5 lb. pkg., 40c; express paid, 75c.

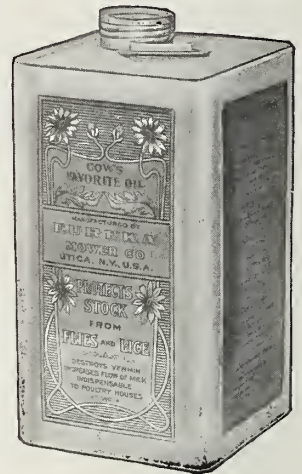
PARIS GREEN

250 lb. kegs, per lb. ....	.15
100 lb. kegs, per lb. ....	.16
14 lb. 28 lb. and 56 lb. kits, per lb. ....	.20
2 and 5 lb. pkgs., per lb. ....	.25
1 lb. pkgs., each .....	.30
½ lb. pkgs., each .....	.20
¼ lb. pkgs., each .....	.15

COW'S FAVORITE OIL

COW'S FAVORITE OIL is very healing, and will be found beneficial for foul in cattle's feet, galled shoulders, or for sore neck on horses.

Keeps flies off. Improves the coat of the animal. Increases the Cow's flow of Milk. Is beneficial and conducive to good health. Price, \$1.00 per gallon can.



The Acre-an-Hour Sifter (patented) is light, simple and durable. It is different than any other arrangement for distributing Bug Death and all dry powders. It covers a large or small plant or area at will of operator and is rapid, at the same time economical.



The most practical and best selling implement for applying Bug Death and all powders to plants.

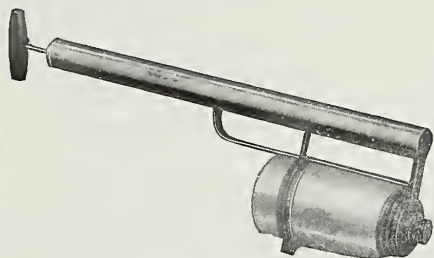
Lowell Sprayers

LOWELL GLASS TANK SPRAYER

No corks to lose out—they have a screw cap where jar is filled.

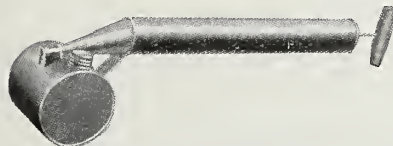
A perfectly DRY PUMP—when plunger is drawn back no solution is sucked back into pump cylinder; this leaves VALVES always DRY and PLIABLE and ready for use. Pump cylinder being six inches longer than most other makes allows operator to stand up straight and gives no backache. Will spray up as well as down.

Solution tank is a one-quart Mason Glass Fruit Jar, which is easily replaced if broken. Price, 75c.



Patented April 17, 1906

LOWELL SPECIAL SPRAY



Lowell Special Sprayer is a Single Tube Tin Sprayer. The air chamber measures 14½ inches in length by 1¾ inches in diameter.

Sprayer is fitted with a ¼ inch steel plunger rod; special type plunger. The special ar-

angement of the spraying tube is such that it thoroughly breaks up or atomizes all oils and solutions into a fine mist-like spray which penetrates all cracks and crevices. The sprayer is adapted for all kinds of general spraying and is used very extensively for spraying disinfectants, etc. Price, 50c.

The Lowell Grand Sprayer has an air chamber in the end of pump cylinder which prevents any moisture from the solution tank being drawn back on the valves. Instead of an air chamber extending from the pump to the solution tank, as in our Glass Tank Sprayer, the Grand is so constructed, with its tapering form of tank, as to allow the use of two short, straight brass solution or spraying tubes to extend upward, connecting with the outlet of the pump direct, thus directing the spray from the end of the pump cylinder instead of solution tank.

The pump cylinder being six inches longer than most other makes allows operator to stand up straight and direct spray at any desired angle giving better results with less labor than with any other make of hand machine. No corks to lose out. It has a screw cap where solution tank is filled. Capacity of tank, one quart. Strong, durable and satisfactory. It is a Trade Maker. Aluminum finish. Price, 60c.



THE EUREKA GALVANIZED OIL SPRAYER
Price, 60c.

LOWELL BLOW SPRAYER

In some instances potato growers, stock and poultry raisers prefer to use Paris Green and disinfectants in powder



form mixed with dry plaster. To meet this demand the Lowell Blow Powder Sprayer is especially constructed, and is without exception the most popular machine of its class on the market. The Ball Valve arrangement is so positive in its action that it is impossible to draw any powder back into the pump cylinder or in contact with the pump valve, water pressure before leaving our factory.

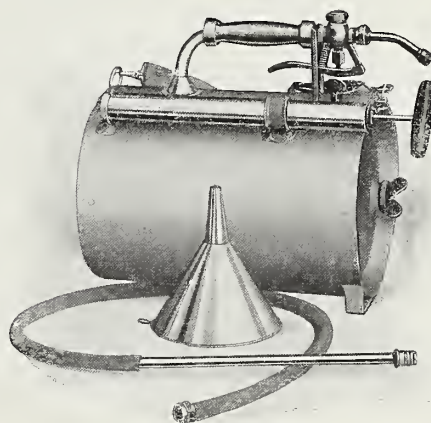
Ball Valve in the end of the pump cylinder furnishes the intake of air and is positive in its action. The powder can have a two inch screw cap opening in back for filling and by our double screen arrangement it is impossible for the machine to clog when powder is dry. The powder can hold one quart and the sprayer has an aluminum finish, giving it an attractive appearance. Price, 65c.



Same general description given our No. (101-A) Glass Tank Sprayer applies to this Sprayer, with exception that it does not have the can screw for filling, it being necessary to re-

move jar to fill. Made in tin only. Price, retail, 60c each.

Lowell Fountain Compressed Air Sprayer



Patented December 3, 1901

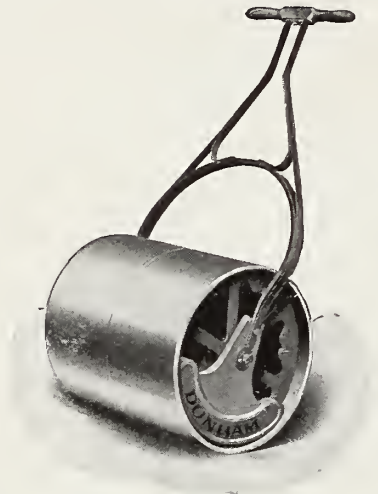
Note these exclusive points:

1. It is devoid of complex or intricate parts.
2. It is both automatic and positive in its action.
3. One charge is sufficient to expel entire contents.
4. Each sprayer is thoroughly tested with both air and thus insuring the same case of operating at all times. The
5. Having convex heads entire contents can be drained from machine, leaving it perfectly dry when not in use.
6. Heads after being seamed and riveted are dipped into molten solder, making it absolutely air tight and the strongest Air Pressure Sprayer made—standing five times the air pressure necessary to operate.

Tree Attachment, consisting of three feet of ¾ inch 3-ply C. I. Rubber Tubing with spraying nozzle one foot long, for small tree and shrub spraying; Spray Crook nozzle three inches long for potato spraying; Funnel with brass wire strainer cloth for filling, and shoulder strap for carrying furnished with each machine.

Capacity of tank, three gallons. Material, brass and galvanized steel. Finish, Aluminum. Price, galvanized steel, \$5.00; brass, \$7.00.

DUNHAM ROLLER BEARING LAWN ROLLERS
(Patented)



Face of roller is smooth and aluminum finished; outer edges rounded. The rolls or sections of these rollers are cast iron of the very best quality.

No.	Diameter	Length	Weight	Price
404	20 in.	20 in.	250 lbs.	Net \$12.50

DUNHAM WATER ROLLER



TRANSPLANTING HALE TROWELS.



7 inch blade 40c

WOOD HANDLE DIBBLES

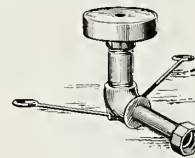


With iron point 40c
With brass point 75c



ALL IRON DIBBLE
Price, 30c.

LAWN SHOWER SPRAYER



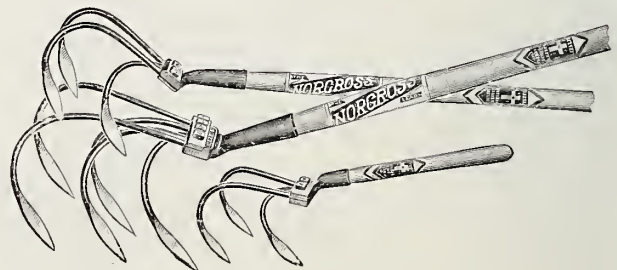
Price, \$2.00.

Will throw an even spray 25 ft. in diameter.

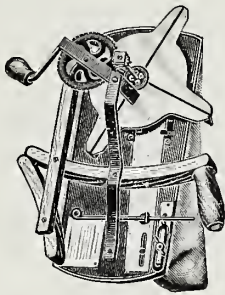
THE NORCOSS CULTIVATOR HOES

These cultivator hoes are very useful for the garden.

5 prong	.....	75c
3 prong	.....	50c
Midget	.....	25c



Little Giant Seeder No. 1



This seeder has a steel bow swinging movement and steel brace, forced feed and pressed tin distributing wheel.

Price, \$1.50.

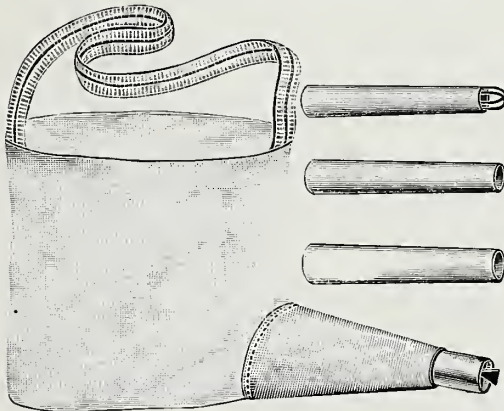
Village Blacksmith Grass Hook No. 1



Forged steel and bent near the handle, which gives easy action.

Price, 50c.

Little Giant No. 3



This Seeder Has Been on the Market for Many Years.

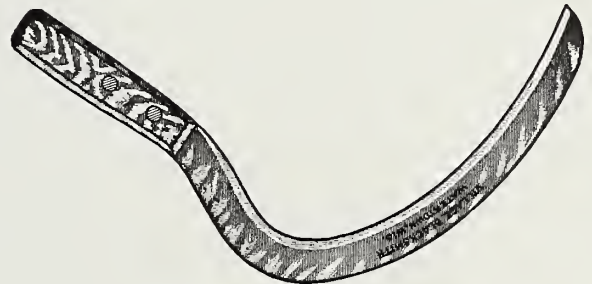
Has a pressed tin four flanged distributing wheel and lathe centered gears, making it a very easy running seeder. Accurate gauge.

Force Feed!

Steel Frame!

Hand Hold and Shield.

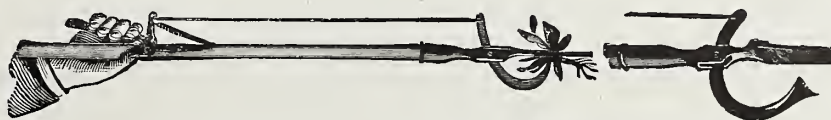
Price, \$1.00.



FORGED STEEL

Price, 40c.

Climax Lawn Weeder



Is always ready to grab and hold anything with sufficient grip to remove Root and Branch.

Price, 75c.

Quantity of Seeds required to plant an acre or a given amount of ground.

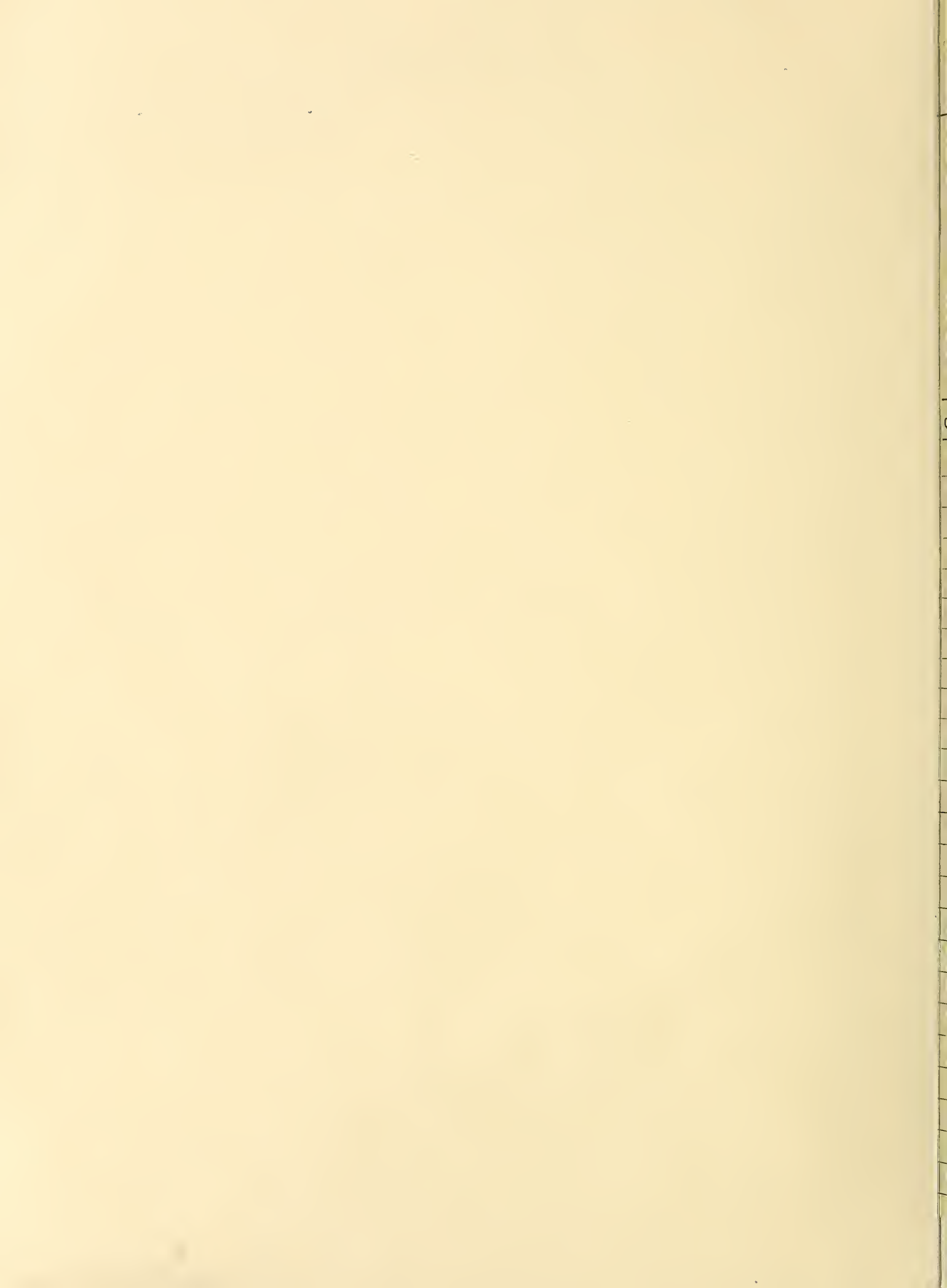
	Per acre		Per acre
Alfalfa	15 to 20 lbs.	Nasturtium 1 oz. to 50 ft. of drill	10 lbs.
Alyske	6 to 8 lbs.	Oats	2½ bu
Asparagus 1 oz. to 200 plants	4 to 5 lbs.	Onion Seed 1 oz. to 200 ft. of drill	4 lbs.
Barley	2 to 2½ bu.	Onion Seed for sets	75 lbs.
Beans, "Dwarf," 1 qt. to 150 ft. of drill	¾ to 1 bu.	Onion Sets 1 qt. to 20 ft. of drill	7 to 8 bu.
Beans, "Pole and Lima," 1 qt. to 200 ft. of drill	⅓ to ½ bu.	Orchard Grass	28 to 35 lbs.
Beets 1 oz. to 100 ft. for drill	8 to 10 lbs.	Parsnip 1 oz. to 250 ft. of drill	5 lbs.
Blue Grass, Fancy Kentucky	28 to 35 lbs.	Parsley 1 oz. to 250 ft. of drill	8 lbs.
Buckwheat	30 to 40 lbs.	Peas, Garden, 1 qt. to 150 ft. of drill	2 bu.
Cabbage 1 oz. to 3,000 plants	6 oz. to ½ lb.	Peas, Canada Field	2½ to 3 bu.
Cane	30 to 40 lbs.	Peas, Cow peas, in drills	½ to ¾ bu.
Carrot 1 oz. to 250 ft. of drill	2½ to 3 lbs.	Peas, Cow peas, broadcast	1 bu.
Cauliflower 1 oz. to 3,000 plants	6 oz. to ½ lb.	Pepper, 1 oz. to 1,500 plants	4 ozs.
Celery 1 oz. to 10,000 plants	4 to 6 ozs.	Potatoes	6 to 8 lbs.
Clover, Medium or Mammoth	10 to 12 lbs.	Pumpkins 1 qt. to 300 hills	4 qts.
Clover, Scarlet or Crimson	12 to 15 lbs.	Radish 1 oz. to 150 ft. of drill	8 lbs.
Clover, White Dutch	4 to 6 lbs.	Rape, Dwarf Essex, in drills	2½ to 3 lbs.
Corn, field, in hills	6 quarts.	Rape, Dwarf Essex, broadcast	5 to 6 lbs.
Corn, for fodder in drills	¾ to 1 bu.	Red Top Solid Seed	10 to 12 lbs.
Corn, sweet, 1 qt to 500 hills	8 quarts.	Red Top unhulled	30 to 40 lbs.
Cress 1 oz. to 150 ft. of drill	8 lbs.	Rutabaga 1 oz. to 200 ft. of drill	1½ to 2 lbs.
Cucumber 1 oz. to 80 hills	2½ lbs.	Rye	1½ bu.
Egg Plant 1 oz. to 2,000 plants	3 ozs.	Salsify 1 oz. to 60 ft. of drill	8 lbs.
Endive 1 oz. to 300 ft. of drill	3 lbs.	Spinach 1 oz. to 150 ft. of drill	15 lbs.
Flax	28 to 30 lbs.	Speltz	2 to 2½ bu.
Hungarian Grass	40 to 50 lbs.	Summer Savory 1 oz. to 500 ft. of drill	2 lbs.
Kale 1 oz. to 3,000 plants	4 ozs.	Squash, Summer, 1 oz. to 40 hills	2 lbs.
Kohl Rabi 1 oz. to 200 ft. of drill	1½ lbs.	Squash, Winter, 1 oz. to 10 hills	3 lbs.
Lawn Grass, 5 lbs. per 1,000 sq. ft.	60 to 80 lbs.	Timothy	12 to 15 lbs.
Lettuce 1 oz. to 250 ft. of drill	3 lbs.	Tomato 1 oz. to 3,000 plants	3 ozs. to ¼ lb.
Mangel Wurzel	10 to 12 lbs.	Tobacco 1 oz. to 5,000 plants	2 ozs.
Melon, Musk, 1 oz. to 100 hills	2 lbs.	Turnip 1 oz. to 250 ft. of drill	1½ lbs.
Melon, Water, 1 oz. to 25 hills	2½ to 3 lbs.	Vetch, Spring	1½ to 2 bu.
Millet	40 to 50 lbs.	Vetch, Winter	¾ to 1 bu.
		Wheat	1½ to 2 bu.

Number of Plants or Trees to the Acre at given distances.

Dis. apart	No. Plants	Dis. apart	No. Plants	Dis. apart	No. Plants	Dis. apart	No. Plants
½ foot	174,240	3 feet by 3 feet	4,840	6 feet	1,210	12 feet	302
1 foot	43,560	4 feet by 1 foot	10,888	7 feet	889	15 feet	193
1½ feet	19,360	feet by 2 feet	5,444	8 feet	680	18 feet	134
2 feet	10,890	4 feet by 3 feet	3,629	9 feet	573	20 feet	105
2½ feet	6,969	4 feet by 4 feet	2,722	10 feet	435	25 feet	69
3 feet by 1 foot	14,520	5 feet by 5 feet	1,742	11 feet	360	30 feet	49
3 feet by 2 feet	7,260						

Standard Weight of Various Articles.

Apples	per bush	48 lbs.	Onions	per bush	56 lbs.
Apples, dried	"	22 "	Peas	"	60 "
Barley	"	48 "	Rape	"	50 "
Beans	"	60 "	Rye	"	56 "
Buckwheat	"	48 "	Red Top Seed	"	14 "
Broom Corn	"	46 "	Salt Coarse	"	50 "
Blue Grass, Kentucky	"	14 "	Salt, Michigan	"	56 "
Blue Grass, English	"	24 "	Sweet Potatoes	"	56 "
Bran	"	20 "	Timothy Seed	"	45 "
Canary Seed	"	60 "	Turnips	"	58 "
Castor Beans	"	46 "	Wheat	"	60 "
Clover Seed	"	60 "	Beef and pork, per bbl., net		200 "
Corn, shelled	"	56 "	Flour, per bbl., net		196 "
Corn, on ear	"	70 "	Salt, per bbl.		280 "
Corn Meal	"	50 "	Lime, per bbl.		220 "
Dried Peaches	"	28 "	Hay, well settled, per cubic foot		4½ "
Flax Seed	"	56 "	Corn, on cob, in bin per cubic foot		22 "
Hemp Seed	"	44 "	Corn, shelled, in bin, per cubic foot		45 "
Hungarian Grass Seed	"	50 "	Wheat, in bin, per cubic foot		48 "
Irish Potatoes	"	60 "	Oats, in bin, per cubic foot		25½ "
Millet	"	50 "	Sand, dry, per cubic foot		95 "
Malt	"	38 "	Clay, compact, per cubic foot		135 "
Oats	"	32 "	Seasoned Beech Wood, per cord		5616 "
Orchard Grass	"	14 "	Seasoned Hickory, per cord		6960 "







From _____

PUT
STAMP
HERE

ALFRED J. BROWN SEED CO.,

GRAND RAPIDS,

COR. OTTAWA AND LOUIS STS.

MICH.



