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Farm-Field-Garden

SEEDS

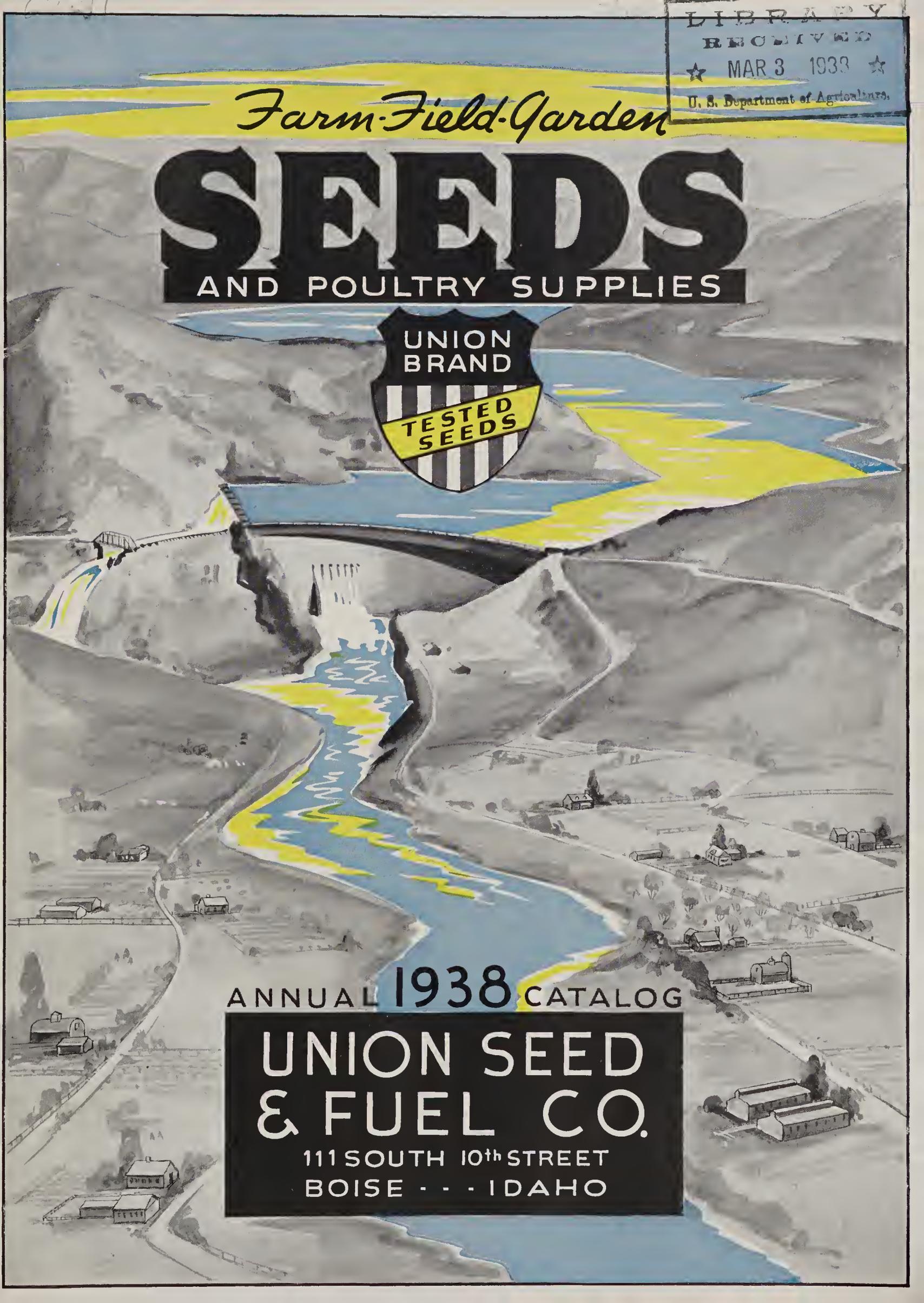
AND POULTRY SUPPLIES



ANNUAL 1938 CATALOG

**UNION SEED
& FUEL CO.**

111 SOUTH 10th STREET
BOISE . . . IDAHO





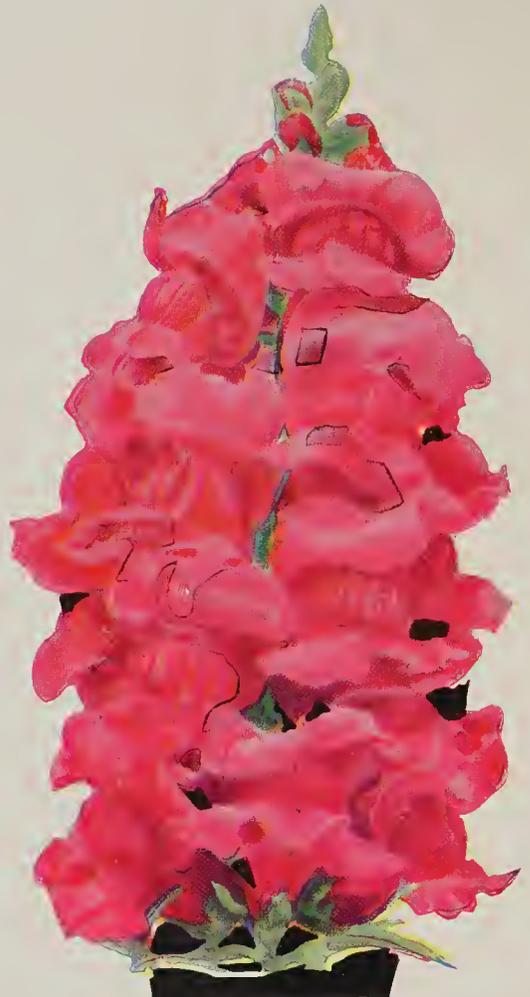
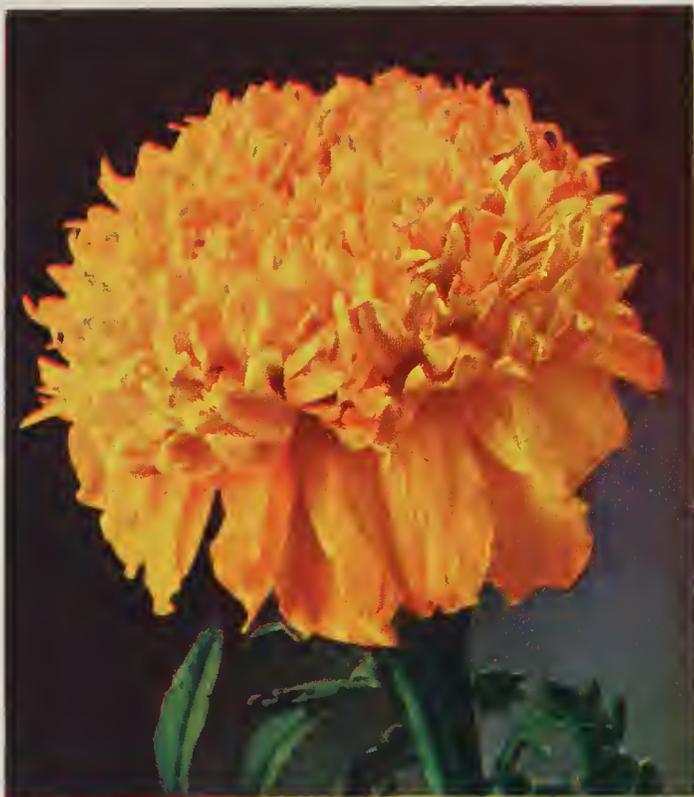
SCABIOSA, GIANT SALMON BEAUTY

Pure salmon in color with huge flowers and all the vigor of its near relative, the popular Loveliness. The stems are long and stiff, making it a most popular flower for the garden and also for cutting. Pkt. 25c.

NEW COLLARETTE MARIGOLD, CROWN OF GOLD

Gold Medal, All-America Selections, 1937

A new kind of Marigold with a Chrysanthemum-like crown surrounded by a collar of big, broad petals of the same color, bright golden orange. It is the only Marigold with entirely odorless foliage. The flowers have a delicate fragrance. Plants grow about 2 feet tall, bloom early, profusely and continuously until frost. Lovely in the garden; wonderful for cutting. Pkt. 15c.



RUST-PROOF SNAPDRAGON, ROSE SENSATION

It is the richest, most charming shade of rose pink imaginable, with just a slight touch of salmon to add to its piquancy. Huge flowers, with both tube and flower being one solid color. Trusses are immense and finely tapered. Pkt. 25c.

AGERATUM, FAIRY PINK

This new variety is the dwarf compact type which comes in a delightful, soft salmon rose pink color. It begins to bloom when the plant is half grown and continues until the plant is a solid mass of color. Try this lovely novelty for borders this year. Pkt. 25c.



Twenty-seventh Annual Catalog

Boise, Idaho, January 20th

1938

GREETINGS

Every farmer, gardener and florist realizes and appreciates quality in seeds—of course, it takes more than good seed to produce a good crop. The ground must be thoroughly cultivated, fertilized and irrigated at the proper times to produce best results.

Our seeds are all grown and selected with the greatest of care and their merit attested by our hundreds of satisfied customers. Through the pages of this catalog, you will find brief descriptions of many varieties of the farm, field and garden seeds we stock. We also have a complete line of poultry feeds and equipment, fertilizers, pet supplies, farmer's hardware, smithing coal, bags, twine and other sundry items.

TO YOU, OUR CUSTOMERS AND FRIENDS, we thank you for your patronage and friendship and assure you of our sincere efforts to please you at the home of QUALITY merchandise and SATISFIED customers. Your mail orders will be handled with best care and service at our command.

Yours respectfully,

UNION SEED & FUEL COMPANY

ARTHUR E. CUNNINGHAM,
President

CLYDE E. SIMPSON,
Vice-President

HOWARD E. CAMPBELL,
Secretary-Treasurer

INDEX

Prices Quoted in this Catalog Subject to Market Fluctuations

A	Page	Page	Page
Asparagus	4	Fish Foods	48
Aster Plants	17	Fungicides	34-35
Aster Seeds	20		
Albers Feeds	41	G	
Alfalfa	29	Gladioli	22
		Gloves	34
B		Gourds	22
Bag Balm	44	Garlic	9
Bags, Burlap	18	Gumbo	11
Barley	29	Grass Seed	29
Beans	4-5-21-31	Gopher Guns	32
Bird Foods	48	Garden Seeds	4
Bird Cages	48	Garget Remedy	38
Borecole	5	Garden Tools	46-47
Broccoli	6		
Beets	6	H	
Buckwheat	31	Hardware	46
Broom Corn	31	Hot Kaps	12-15
Buttermilk, Dried	42	Hotents	9
Brooders	37	Herbs	17
Blue Stone	32		
		I	
C		Incubators	36
Cabbage	6-7	Insecticides	34-35
Calf Manna	45		
Canary Bird Supplies	48	K	
Carrots	7	Kale	5
Cauliflower	8	Kohl Rabi	9
Celery	8	Kow Kare	44
Ceresan	28	Kaffir Corn	31
Chives	7		
Collards	8	L	
Chick Boxes	38	Ladino Clover	30
Chicory	8	Lawn Mowers	46
Concentrates	42	Lettuce	9
Corn Salad	8	Leek	9
Cress	8		
Cucumbers	8	M	
Cantaloupes	10	Musk Melon	10
Corn, Sweet	12	Millet	31
Corn, Field	29	Milo Maize	31
Clovers	29-30	Mustard	11
Canada Field Peas	31	Milk Tubes	44
Copper Sulphate	32		
Caponizing Sets	38	N	
Cod Liver Oil	44	Nasturtium	23
Cultivators	47	Neponset Pots	40
Cyanogas	27	Nitratin	19
Chili, Red	14		
Crested Wheat Grass	30	O	
		Okra or Gumbo	11
D		Onions	11
Dusters	40	Oyster Plant	15
Dog Foods and Medicines	48	Onion Sets	11
Dip and Disinfectant	43	Oats	29
Don Sung	44	Ortho Products	35
E		P	
Egg Plant	9	Pasture Mixtures	30
Endive	9	Phosphate	32
Epsom Salts	44	Phosphate Treble	32-33
Egg Cartons	38	Parsley	13
Egg Scales	38	Parsnip	13
Evergreen	32	Peas, Garden	13
		Pepper	14
F		Pumpkins	14
Flower Seeds	20-26	Potatoes	18-32
Flax Seed	31	Plants, Flower	17
Feterita	31		
Fertilizers	27-32-33	R	
Fertilizer Spreader	27	Radishes	14-15
Field Seeds	29-30-31	Raffia	32
Flowering Beans	5	Rape	31
		Red Kaffir Corn	31
		Rhubarb	15
		Rutabaga	17
		Rye	29
		Rose Bushes	26
		S	
		Sa-Cow	44
		Salsify	15
		Salvia Plants	17
		Seamless Bags	18
		Seeders	34
		Seed Potatoes	18-32
		Sewing Twine	18
		Semesan	28
		Semesan Bel	28
		Semesan Jr.	28
		Smithing Coal	38-40
		Snarol	27
		Sorghum	31
		Soy Beans	31
		Spinach	16
		Spratts Dog Food	48
		Spray Pumps	40
		Sprays and Insecticides	34-35
		Squash	15
		Stock Foods	44
		Strawberry Plants	17
		Sudan Grass	31
		Sulphur	32
		Sunflower	31
		Sweet Peas	25
		Sweet Potatoes	14
		Sweet Potato Plants	14
		Swiss Chard	16
		T	
		Teat Dilators	44
		Tobacco	15
		Tomatoes	16
		Tomato Plants	17
		Turnips	17
		Thermometers	38
		Tobacco Powder	34
		Twine for Fleece	18
		U	
		Union Brand Feeds	42
		V	
		Verbena Plants	17
		Vetches	31
		Vigoro	27
		W	
		Wheat	29
		Watermelon	10-11
		Z	
		Zinnia	26

Notice to Customers — Read Carefully

THIS ISSUE CANCELS ALL PREVIOUS CATALOGS AND GIVES YOU FAIR PRICES
WITH QUALITY MAINTAINED

TERMS OF SALE

When more convenient for our customers, orders will be sent C. O. D. However, no Plants sent C. O. D. Please save time and expense by accompanying your order with remittance in full by draft, money order or cash in registered letter. We can take postage stamps in moderate amounts.

ORDER EARLY

We earnestly solicit our friends to send their orders to us early—at once—before the rush is on. No matter how small or how large your order, it will receive our careful attention.

Use the order sheet and our self-addressed envelope, and ask for more when you want them.

IF GOODS DO NOT ARRIVE PROMPTLY after receiving our notice that goods have been shipped, please write us.

NON-WARRANTY

So many conditions arise in the growing of plants from seeds, and in setting out plants that are grown from seed, over which we have no control, that success is not altogether dependent on the seed or plant. We will send out only seed that we believe will grow and produce the kind of plant and variety represented. However, the UNION SEED & FUEL CO. gives NO WARRANTY, expressed or implied, as to description, quality, productiveness, or any other matter, of seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are to be returned at once.

GOODS BY EXPRESS OR FREIGHT

When ordering to be shipped at your expense goods priced "prepaid" you may deduct postage from prices. Often we send by express prepaid instead of by mail goods priced prepaid. If not convenient for you to receive by express, be sure to mention when ordering. Whenever our notification cards say "prepaid" you are to pay nothing. Write us at once if charge is added.

PARCEL POST RATES

Be sure and read headings carefully as to parcel post on BEANS, CORN, PEAS, PLANTS, etc. One-half pound or less goes at 1c for each 2 ozs.

Parcels cannot exceed 100 inches in length and girth combined. Limit weight, 70 lbs. to any postoffice in the United States.

For complete Parcel Post Rates see below.

GOODS BY MAIL

All Garden and Flower Seeds are sent by mail or express without further cost, except Beans, Corn and Peas. Also Onion Sets, Grain, Grass, Field Seeds and Plants which require 8c for first pound and 1 1/10c each additional pound added to the remittance when wanted by parcel post in first and second zones.

See below for detailed PARCEL POST RATES.

TABLE OF FOURTH-CLASS OR PARCEL POST RATES NOW IN EFFECT

Weight in Pounds	Local	Zones		Weight in Pounds	Local	Zones	
		Second Up to 150 Miles	Third 150 to 300 Miles			Second Up to 150 Miles	Third 150 to 300 Miles
1.....	\$0.07	\$0.08	\$0.09	36.....	\$0.25	\$0.47	\$0.79
2.....	.08	.10	.11	37.....	.25	.48	.81
3.....	.08	.11	.13	38.....	.26	.49	.83
4.....	.09	.12	.15	39.....	.26	.50	.85
5.....	.09	.13	.17	40.....	.27	.51	.87
6.....	.10	.14	.19	41.....	.27	.52	.89
7.....	.10	.15	.21	42.....	.28	.54	.91
8.....	.11	.16	.23	43.....	.28	.55	.93
9.....	.11	.17	.25	44.....	.29	.56	.95
10.....	.12	.18	.27	45.....	.29	.57	.97
11.....	.12	.19	.29	46.....	.30	.58	.99
12.....	.13	.21	.31	47.....	.30	.59	1.01
13.....	.13	.22	.33	48.....	.31	.60	1.03
14.....	.14	.23	.35	49.....	.31	.61	1.05
15.....	.14	.24	.37	50.....	.32	.62	1.07
16.....	.15	.25	.39	51.....	.32	.63	1.09
17.....	.15	.26	.41	52.....	.33	.65	1.11
18.....	.16	.27	.43	53.....	.33	.66	1.13
19.....	.16	.28	.45	54.....	.34	.67	1.15
20.....	.17	.29	.47	55.....	.34	.68	1.17
21.....	.17	.30	.49	56.....	.35	.69	1.19
22.....	.18	.32	.51	57.....	.35	.70	1.21
23.....	.18	.33	.53	58.....	.36	.71	1.23
24.....	.19	.34	.55	59.....	.36	.72	1.25
25.....	.19	.35	.57	60.....	.37	.73	1.27
26.....	.20	.36	.59	61.....	.37	.74	1.29
27.....	.20	.37	.61	62.....	.38	.76	1.31
28.....	.21	.38	.63	63.....	.38	.77	1.33
29.....	.21	.39	.65	64.....	.39	.78	1.35
30.....	.22	.40	.67	65.....	.39	.79	1.37
31.....	.22	.41	.69	66.....	.40	.80	1.39
32.....	.23	.43	.71	67.....	.40	.81	1.41
33.....	.23	.44	.73	68.....	.41	.82	1.43
34.....	.24	.45	.75	69.....	.41	.83	1.45
35.....	.24	.46	.77	70.....	.42	.84	1.47

ADDRESS ALL ORDERS TO

UNION SEED & FUEL COMPANY

Postoffice

111 South 10th Street

Phone 111

Box 1097

BOISE, IDAHO

Phone 112



ASPARAGUS

1 oz. to 100 ft., 5 lbs. per acre.

CULTURE—When starting an asparagus bed from seed, it is advisable to soak the seed for 24 hours before planting. This makes germination more rapid and certain. Sow in spring in rows about 18 inches apart, allowing 15 to 20 seeds to the foot. Cover 2 inches deep. When plants are well established, thin to about an inch apart. Hoe frequently during the summer. The plants will be ready to set in a permanent bed the following spring. It is one of the earliest and best spring vegetables. Your garden is not complete without it.

**PRICES QUOTED
SUBJECT
TO
MARKET
CHANGES**



Palmetto. Is of very large size, even and regular in growth and appearance. It is very early, immensely productive, and of the best quality. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

Conover's Colossal. The standard variety; of large size, tender and of excellent quality. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

Martha Washington. A vigorous growing and very productive variety which has been bred to resist the disease known as "Asparagus Rust". The shoots are of large size, excellent quality and of rich deep green color, tinted somewhat with purple at tips. Seed, pkt. 10c; oz. 20c; 2 oz. 30c; ¼ lb. 45c; lb. \$1.50.

ASPARAGUS ROOT PLANTS

Roots of above variety, 25c per doz., \$1.50 per 100, by express. Prices for larger quantities on application.

BEANS — Dwarf or Bush

CULTURE—Plant in drills about 2 inches deep, rows from 18 to 24 inches apart, according to the richness of the soil. The plants should be about 3 inches apart. A succession of sowings can be made from the first week in May until August. One lb. to 50 feet of drill; 60 to 80 lbs. to an acre.

U. S. Postage Rates on Beans. Add 8c first lb. and 1 1/10c each additional lb.; ½ lb. or under, 1c each 2 ozs.

GREEN PODDED VARIETIES

Burpee's Stringless. Extra early, round, fleshy pods; very brittle, almost entirely stringless, rust proof, vigorous, productive, and without doubt the best green podded beans known. Pkt. 10c; ½ lb. 15c; lb. 20c.

Round Yellow Six Weeks. Very similar to Long Yellow Six Weeks as to vine, with pods shorter and much more thick and fleshy; about one week later, being ready for table 57 days from planting. Seed round, yellowish drab, with a slightly darker marking about the eye. Pkt. 10c; ½ lb. 15c; lb. 20c.

Dwarf Horticultural Stringless. An excellent bean when young. Fine for snaps and green shell purposes. The thick, flat pods are 4½ to 5 inches long. Round light buff seeds spotted with red. Pkt. 10c; ½ lb. 15c; 1 lb. 20c.

Red Kidney. A well-known variety of dwarf growth. Highly valued because of its hardness and heavy yield. The pods are 5½ to 6 inches long, filled with large kidney shaped beans of a rich deep color. Pkt. 10c; ½ lb. 15c; 1 lb. 20c.

Giant Stringless Green-Pod. The pods are meaty, nearly round, brittle and stringless. Green-Pod, but matures a few days later. The pods are straight, quite long, and rather slender. The color of the pods is lighter than Burpee's Stringless Green-Pod and they show depressions between the beans. Pkt. 10c; ½ lb. 15c; 1 lb. 20c.

Idaho Bean. A dwarf bush bean growing only 1 foot high. One of the finest dry beans grown. It leads all others, being three times the size of the Navy, and half the size of the Lima. Is far superior to either for flavor. You should plant a quantity of this bean for your winter supply. Pkt. 10c; ½ lb. 15c; 1 lb. 20c; 10 lbs. \$1.50.

Refugee or 1000 to 1. The pods are fleshy and remarkably solid. They are brittle in texture and mild in flavor, but have slight strings. Somewhat later than the other green-podded sorts, but widely grown on account of its productiveness. Refugee is much grown for canning. The pods measure from 5 to 5½ inches in length. The flavor is good. Pkt. 10c; ½ lb. 15c; 1 lb. 25c.

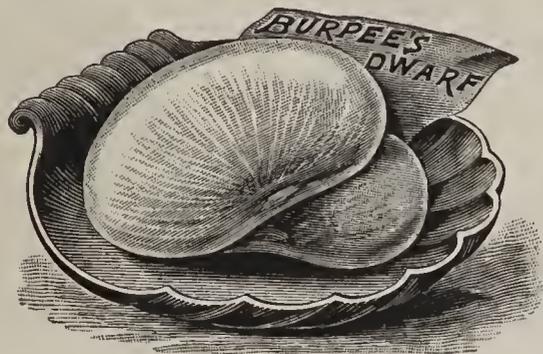


Burpee's Stringless Green Pod Beans

LIMA BEANS



Henderson's Bush Lima. The new bush Lima grows without the aid of stakes or poles, in compact bush form, from 15 to 18 inches high, and produces enormous crops of delicious Lima beans. The new bush Lima is at least two weeks earlier than any of the climbing Limas. Pkt. 10c; lb. 25c.



Burpee's Bush Lima. It is the true bush form of the old large Lima pole beans. It grows vigorously to a height of 18 to 20 inches, forming a circular bush of 2 or 2½ feet in diameter, yielding from 50 to 100 fine pods similar to those grown on the large white-pole Lima. Pkt. 10c; lb. 25c.

Baby Lima Beans. A Lima bean similar to Henderson Bush Lima in size and color. Grows 14 to 20 inches tall and heavy yielder. Lb. 15c; 10 lbs. \$1.00.

Special Prices on 100-lb. Lots



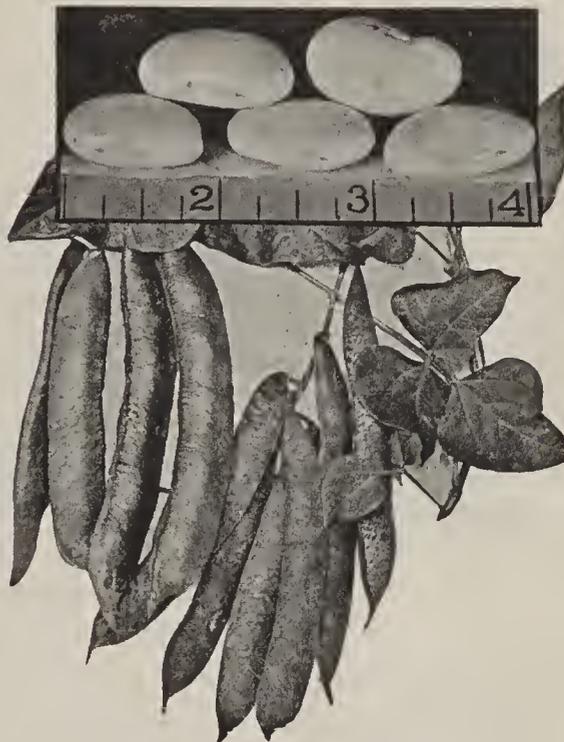
DWARF BEANS

YELLOW PODDED VARIETIES

Improved Golden Wax. The pods are large, long, half round, brittle and entirely stringless, and of a beautiful rich golden wax color. As a snap bean it excels every other variety in tender and rich buttery flavor, while as a shell bean for winter use it has few or no superiors. It is very prolific, of dwarf, compact growth. Pkt. 10c; lb. 20c; 10 lbs. \$1.75.

Pencil Pod Black Wax Beans. "Pencil Pod" is one of the most satisfactory of the early dwarf wax beans. Of dwarf, bushy growth, about 15 inches high, large luxurious foliage, beneath which in great clusters will be found an enormous crop of beautiful straight yellow pods, 6 to 7 inches long, well rounded, deeply "saddle-backed", meaty and solid clear through; they are brittle, of rich, mild flavor, and entirely stringless. An early sure cropper; of the finest quality. Pkt. 10c; lb. 20c; 10 lbs. \$1.90.

Improved Black Wax. This is an improvement over the old Black Wax, and is equal to our Improved Golden Wax. The pods are of rich golden color in green state. Pkt. 10c; ½ lb. 15c; lb. 20c.



BEANS — Pole Varieties

Pole beans mature well in Idaho and Eastern Oregon. They should be more extensively grown, as they can be planted with corn, which will furnish the support to climb on.

Oregon Pole Lima. Proven over many years to be well adapted to our climate. A strong, vigorous grower, bearing continuously until frost. Pods are at their best when turning yellow. ¼ lb. 10c; ½ lb. 15c; 1 lb. 25c.

King of the Garden Lima Pole Bean. The vines are very vigorous and prolific. Pods are of large size, filled with four or five large beans of very fine quality. The beans are easily shelled and of handsome appearance. A favorite with market gardeners. ¼ lb. 10c; ½ lb. 15c; lb. 25c.

Kentucky Wonder. Vine vigorous, climbing well and very productive, bearing its pods in large clusters; pods green, very long, often reaching 9 or 10 inches, nearly round when young and very crisp. Pkt. 10c; ½ lb. 15c; 1 lb. 20c; 10 lbs. \$1.75.

Lazy Wife. This is popular in many localities. As its name indicates, a handful of choice stringless pods at a single grab. The pods are broad, thick, very fleshy and possess a rich buttery flavor when cooked. The beans are white and make a very good dry bean for winter use. Pkt. 10c; ½ lb. 15c; lb. 20c.

Kentucky Wonder Wax. A productive variety. Pods of very light yellow color and good flavor. Pkt. 10c; ½ lb. 15c; lb. 20c.

Flowering Beans

Very desirable for trellis, or to cover old fences, etc. While the green seeds are edible, the attractiveness is the profuse blossoms.

Scarlet Runner. The old popular scarlet flower. Pkt. 5c; ½ lb. 20c.

White Runner. A pure white flower. Pkt. 5c; ½ lb. 20c.

Tri-Color Runner. Pink and white in the same blossom. Pkt. 5c; ½ lb. 20c.

BORECOLE or KALE

Dwarf Green. Sow in the spring for "sprouts" and "greens". Hardy, prolific, flavor similar to cabbage, desirable in every garden. Pkt. 10c; oz. 15c; lb. \$1.00.

BEET — Table Beets

CULTURE—Beets require a deep, rich, mellow soil, and may be sown from early spring to commencement of summer. Drop about 1 inch deep in drills 12 to 18 inches apart. One ounce to 60 feet of drill; 6 to 8 lbs. to the acre.

Extra Early Egyptian. An extra early turnip shaped variety; has small tops and grows quickly. The flesh is in alternate rings of white and deep red. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

Early Blood Red Turnip Beet. Here we have the old standby, the turnip beet, with its dark color, well known to so many homesteads. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

Eclipse. It is nearly as early as Egyptian and more desirable, owing to its globe shape, great smoothness and regularity,

having a small top; very sweet, fine and dark blood color. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

Burpee's Early Red Ball Beets. Uniform globe shaped, deep color flesh and fine sweet flavor. Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

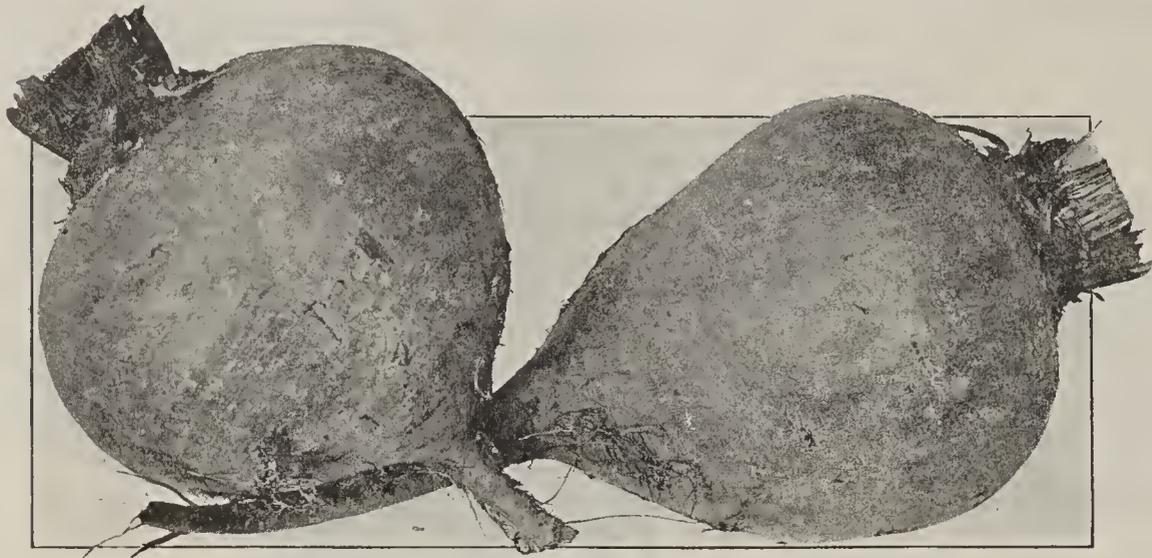
OTHER STANDARD VARIETIES

Detroit Dark Red. Extremely popular for market and canning. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

Half Long Beet. Yields more than the turnip rooted varieties. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

Early Wonder. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

Market Gardener. A standard variety suited for table use. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

**STOCK BEETS****MANGEL WURZEL FOR STOCK FEEDING**

CULTURE—They require a soil plowed deeper and the drills farther apart than garden beets. Sow in April or beginning of May in drills from 2 to 3 feet apart, and when 4 or 5 inches high thin to 12 to 18 inches in the rows.

Golden Tankard Mangel Wurzel. This is undoubtedly one of the most prolific varieties to grow for stock, as it is an enormous cropper, and is said to be one of the most nutritious mangels in cultivation. Color, bright yellow. Postpaid, lb. 50c; 5 lbs. \$2.25; 10 lbs. \$4.00; 20 lbs. \$7.75.

Mammoth Long Red Mangel Wurzel. This is a particularly fine mangel, growing from one-half to two-thirds above ground. The roots attain enormous size; smooth and regular in shape. Postpaid, lb. 50c; 5 lbs. \$2.25; 10 lbs. \$4.00; 20 lbs. \$7.75.

Giant Feeding Sugar Beet or Half Sugar Mangel Wurzel. This new sugar beet gives nearly as large of easily grown and harvested roots as a crop of mangels, besides being much more succulent than the ordinary sugar beet. It grows well above ground and is easily pulled. Under same cultivation will yield twice more than regular sugar beets. Postpaid, lb. 50c; 5 lbs. \$2.25; 10 lbs. \$4.00; 20 lbs. \$7.75.

Klein Wanzeleben Sugar. The most popular varieties for sugar factories. The sugar content depends on intelligent care and development on the part of the seed grower. It is wedge shaped, wide at the top and tapering gradually to a long tail. This variety is most planted by sugar factories as it has a high sugar content; **MAKES GOOD FOOD FOR CATTLE.** Pkt. 5c; ¼ lb. 20c; lb. 50c; postpaid, 10 lbs. \$4.00; 20 lbs. \$7.75.



Mammoth Long Red Mangel

BROCCOLI

CULTURE—Sow early in the spring, transplant and cultivate the same as cabbage. The broccoli is a species of cauliflower, but more hardy and closer grained; does best in cool, moist climate. They will produce heads in October and November, and should any plant not be forward enough for use before frost, let them be removed to a light cellar, where they will head during the winter.

St. Valentine. This new strain is a sure header of immense size; heads extra early, pure white, and remains in good condition longer than any other variety. Try this and compare with best cauliflower. Pkt. 10c; ¼ oz. 40c.

Purple Cape. Pkt. 10c; oz. 35c.

CABBAGE**Early, Midsummer and Late**

CULTURE—For early cabbages sow the seed in a hot bed in March and April, covering the seed from ¼ to ½ inch deep, and when big enough, transplant to another bed. As soon as the ground is in good condition, transplant outside in rows 2 feet apart and 15 to 18 inches in the row. The soil should be mellow, rich and well drained. For late crops, the seed can be sown in a cold frame, or even in the open ground, and then transplanted in rows 3 feet one way and 2 feet the other, so as to be able to work with a horse and cultivator. One ounce of saltpeter dissolved in one gallon of water sprinkled over the cabbages will destroy the green worm. The liquid being



CABBAGE—Continued

clear does not discolor the cauliflower or cabbage heads. Fine air-slaked lime or tobacco dust, sifted on the ground, will prevent them from doing any harm. One ounce will produce about 2,000 plants. About 16,000 early or 8,000 late cabbages plant one acre. Most of the seed we offer imported by our firm from Holland.

**EARLY VARIETIES**

Early Winingstadt (Imported). A well known and very popular variety in season, very close to Wakefield. Heads are large, decidedly conical, leaves bright, glossy green; heads solid and hard, even in summer. This is a very sure heading variety, valuable not only for early use but for winter cabbage. Imported seed, pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$2.75.

True Jersey Wakefield (Imported). This is an admirable imported sort, suited to the family and market garden. The heads begin to mature the latter part of June to the first of July, and may be cut in succession for several weeks. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$2.75.

Early Dwarf Flat Dutch (Imported). Has succeeded admirably on account of its ability to resist heat; it never flaws under the severest sun, and produces very fine heads after the earliest varieties have disappeared. We recommend it highly. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$2.75.

Glory Cabbage (Imported). This is as early as Early Flat Dutch, but is also one of the very best winter cabbages, and is unexcelled in delicious flavor, crispness, solidity and keeping qualities. No other cabbage combines so many excellent qualities in such marked degree. Pkt. 5c; oz. 30c; lb. \$3.00.

Copenhagen Market. Early variety, popular with market gardeners. One of the finest round head cabbages in cultivation. Heads mature evenly, averaging about 8 lbs. each. A short-stemmed variety, fine and sweet, and we offer you best imported seed. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

Golden Acre Cabbage. A new early variety earlier than Copenhagen Market. Solid round head. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

LATE VARIETIES

Danish Ballhead, Short Stem. This winter variety is especially desired on account of its great solidity and its keeping qualities. They weigh more than other sort of equal size. The heads are crisp, tender and sweet, and unsurpassed for boiling, slaw, sauer kraut, etc. It grows well on all soils and under most conditions withstanding hot, dry weather, and does not rot in wet seasons. This seed is also imported by us direct from Holland. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

Premium Late Flat Dutch (Imported). As a variety for winter it has no superior. Heads large, bluish green, round, solid, broad and flat on top. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

Volga. A Russian cabbage which has a deep, hard, round head, short stem, grows close to the ground. It matures earlier than any other late variety. Heads weigh from 12 to 14 pounds. Our seed is absolutely the best. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

All Seasons. A grand variety. We recommend it as one of the best and surest cabbages to grow. For the market gardener it is one of the most useful, marketable, and profitable. It is perhaps the safest variety for the amateur to plant as it does well at all seasons and is a very sure cropper. The heads are dark blue in color and being tender and fine keeping, are excellent for fall and winter use as well as during the summer. Pkt. 5c; oz. 35c; lb. \$3.00.

OTHER STANDARD VARIETIES

Surehead. Produces large, round flattened heads. Second early. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

All Head. Matures 95 days. One of the largest second early sorts, excellent quality, solid, deep, flat and uniform. Imported strain. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

Mammoth Red Rock. The best, largest and surest heading red cabbage. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

CARROT

CULTURE—The carrot, like other root crops, delights in a sandy loam, deeply tilled. For early crops, sow in the spring as soon as the ground is in good working order; for late crops they may be sown any time until the middle of June. Sow in rows about 15 inches apart, thinning to 3 inches between plants. Do not cover more than ½ inch deep. One ounce to 150 feet of drill; 3 pounds to an acre.

Extra Early Scarlet Horn. An excellent forcing variety, very tender and fine flavor; small growth. The best for hot beds and cold frames, or the earliest out-of-doors planting. Pkt. 5c; oz. 15c; 4 ozs. 35c; lb. 90c.

Chantenay. One of the most perfect and uniform in shape, smooth, heavy yielder, and of fine table qualities. It grows 5 or 6 inches long; is fine in texture and easily dug; the flesh is of a beautiful deep orange, tender and of excellent flavor. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

Ox Heart or Guerande. This new French carrot is one of the most valuable of all recent introductions either for family use or market. It is an intermediate between the Half Long and Horn varieties, attaining a diameter of 3 or 4 inches at the neck, and of most beautiful shape and rich orange color. It is of extra fine quality and very productive. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

New Coreless. A splendid new carrot, larger than other early varieties, crisp and solid, of fine flavor and almost coreless. Holds its color and cooks quickly. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 90c.

Danvers Half Long. Admirable in color, fixed in habit, a wonderful producer; the best of all for the stock breeder, and valuable to the market gardener. With this variety the planter secures the largest returns to the acre with the least difficulty in harvesting. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 85c.

Asgrow Imperator. Flesh rich orange color, fine grained, tender, excellent quality. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

**STOCK CARROT**

Large White Belgian. Grows one-third out of the ground. Root pure white, green above ground, with small top. It will grow to a very large size on light, rich soil, and is very easily gathered. Flesh rather coarse; is raised exclusively for stock. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

Large Yellow Belgian Carrot. Same as large White Belgian, except in color. Pkt. 5c; oz. 15c; lb. 90c.

Yellow Giant. Particularly adapted to moist, heavy soils, one of the most productive stock carrots as well as one of the earliest of the half-long type with a broad shoulder. The carrot grows about half above the ground, making it less expensive to harvest and has a bright yellow color. Pkt. 5c; oz. 15c; lb. 90c.

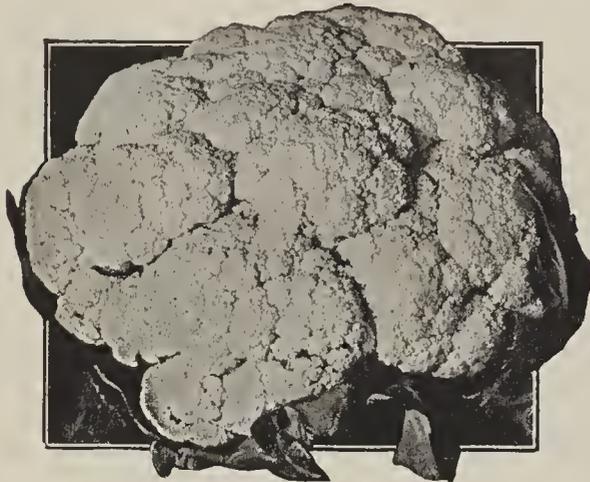
CHIVES

The Chives are small and not very important members of the onion tribe, but quite hardy everywhere. The leaves are slender and appear very early in the spring, and may be shorn during the season. They are propagated by division of the roots. Pkt. 5c; ¼ oz. 25c; ½ oz. 50c; oz. 90c.

CAULIFLOWER

CULTURE—Same as for cabbage, except that extra manure and plenty of water will pay with cauliflower. If the soil is dry, water frequently, and if the plants could have mulch of hay or straw it would keep the soil moist and the plants would not suffer from drouth. The early kinds should be strong enough to plant out not later than May 1st; the late kinds may be planted out same as cabbage. One ounce produces 1,500 plants; 15,000 plants will cover an acre. Our cauliflower and cabbage plants usually ready through May and June. (See page 17.)

Early Danish Snowball. This variety, by innumerable trials has established the claims made for it. The plants are very dwarf. The outer leaves are erect. The inner ones lap over the head so as to completely shade from the sun. It is a valuable variety for early and late. Pkt. 15c; ¼ oz. 75c; oz. \$2.



Eureka Early Snowball. This is a reselected and improved strain and plants grown from this seed have given practically 100% uniform, pure white, very solid and evenly maturing heads. Imported by us from Holland. Oz. \$2.00. Gardeners, ask about this.

Danish Dry Weather Cauliflower. Especially adapted for dry localities. Produces large, solid, pure white heads. Make the ground rich and you will be pleased with results from this seed. Pkt. 15c; ¼ oz. 75c; oz. \$2.00.

Veitch's Autumn Giant. A distinct and valuable late variety. Heads very large, white, firm and compact, and remain for a long time fit for use. The plants should be started and transplanted early in the season to insure their full development. Pkt. 10c; ¼ oz. 25c; oz. 80c; ¼ lb. \$2.50.

CHICORY

Large Rooted. A hardy plant introduced from and much used in Europe as a substitute for coffee. In the fall the roots require to be taken up and cut into small pieces and put where they will dry, requiring the same treatment used for drying apples. When required for use, it should be roasted and ground like coffee. Requires similar culture to carrots. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

COLLARDS

Georgia Southern or Creole. This is the variety so extensively used in the south, where it furnishes an abundance of food for both man and beast. Forms a large, loose, open head, of a mass of leaves on a tall stem. Freezing improves the quality. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

CORN SALAD

Broad Leaved. Used as a small salad throughout the winter and spring. Sow thickly in drills, cover slightly at first of autumn and sprinkle with straw at the approach of severe weather, or sow in a cold frame, covered in winter as may be convenient—thus it is accessible even when deep snow prevails. Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$2.00.

CRESS

Garden Curled or Pepper Grass. Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season. Pkt. 10c; oz. 15c; ¼ lb. 50c.

True Water Cress. It is quite distinct from the Garden Cress, and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads and should be planted wherever a suitable place can be found. Pkt. 10c; oz. 30c; ¼ lb. \$1.00.

CELERY

CULTURE—The conditions necessary for successful celery cultivation are good seed, plenty of moisture and cultivation. The most suitable soil is rich loam finely pulverized, and highly enriched with 30 to 40 loads to the acre of good stable manure. Sow seeds in boxes for early planting, later plants may be produced from seeds sown in frames or open ground. Transplant 4 inches apart when 3 inches high. Water and protect until well rooted, then transplant into rows for garden culture, 18 inches to 2 feet apart; for field culture, in rows 3 to 4 feet apart, set the plants from 8 to 12 inches apart, supply plenty of moisture and see that plants receive thorough cultivation. They must be set either on the surface or in well manured trenches 1 foot in depth. To blanch, draw earth around the plants, being careful not to cover the tops of the center shoots.

White Plume. The earliest variety grown, can be blanched for the table in September. It is a self-blanching variety, easily grown by anyone. Stalks and inner leaves white, crisp and delicious. ½ oz. 15c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00.

Golden Self-Blanching. Domestic grown seed. Pkt. 10c; oz. 40c; ½ lb. \$2.75; lb. \$5.00.

Burpee's Golden Plume. A new variety of celery. The plants are of strong growth and produce thick and heavy stalks with a well blanched solid heart. Early and quite resistant to blight and rot. Of excellent crisp and nutty flavor. Pkt. 20c; oz. 60c; ½ lb. \$2.75.

Burpee's Golden Self-Blanching Celery (Original Dwarf Strain, French grown). The plants form thick solid heavily-ribbed stalks which blanch easily into a beautiful clear waxen yellow color. Pkt. 20c; ½ oz. 60c; oz. \$1.00; ½ lb. \$5.50.

Giant Pascal. This choice celery is of a sweet, nutty flavor; stalks thick, solid, stringless, almost brittle as glass; bleaches with slight earthing; very satisfactory for all purposes. Pkt. 10c; oz. 30c; ¼ lb. 80c; lb. \$3.00.

Celery Plants can be shipped in June and July—See Plant List.

Celeriac or Turnip Rooted Celery. Grown exclusively for its roots, which are turnip shaped, very smooth, tender and narrow-like. The roots are cooked and sliced; used with vinegar they make an excellent salad. They are used for seasoning meats and to flavor soups. Pkt. 10c; oz. 20c; ¼ lb. 60c.

CUCUMBERS

CULTURE—Drop in hills 4 to 6 feet apart, as soon as the weather becomes settled and warm. Scatter 8 or 10 seeds to a hill and cover half an inch deep, and pat it down with a hoe. Hoe often, and when out of danger of insects thin to four plants to a hill. June and July is the time to sow for pickling. One ounce to 50 hills; 2 pounds to an acre.

Early White Spine. Vines vigorous, fruiting early and abundantly; fruit uniformly straight and handsome, dark green, with a few white spines; flesh tender and of excellent flavor. In this country this variety is used more, perhaps than any other, for forcing under glass. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.25.

Early Frame. Of early growth and vigorous; fruit medium size and straight. It is popular for both table use and pickling. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.25.

Boston Pickling. A distinct variety which has attained great popularity in the Boston market for pickling. Medium long, a great producer. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.25.



Improved Long Green. Unquestionably this is the most popular general purpose cucumber in the West. When matured it is 9 to 12 inches long, very solid and crisp, and retains its dark green color until nearly ripe. One of the best for small pickles if pickled properly. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.25.

Davis Perfect. This is one of the best cucumbers grown, both for forcing and for out of doors. It is slim and symmetrical in shape, and from 9 to 12 inches long and of a dark, glossy green color changing to white, without a streak of yellow, only when nearly ripe. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.25.

Everbearing. This variety is of small size very early, enormously productive, and valuable as a green pickle. Its peculiar merit, however, is that the vines continue to flower and produce fruit until killed by frost, whether the cucumbers are picked off or not. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.25.

West India Gherkin. A small, oblong pickling cucumber, bright green color and thickly set with short spines. Oz. 30c; ¼ lb. \$1.00.

EGG PLANT

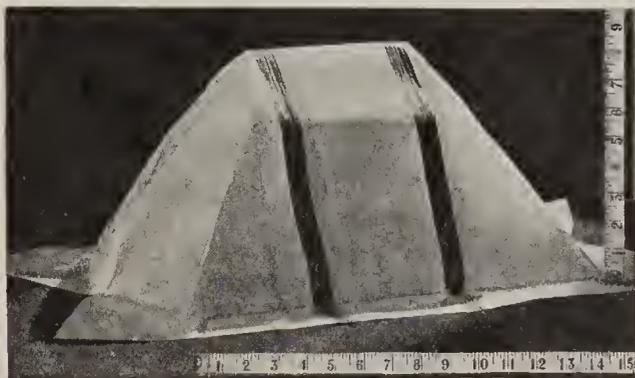
CULTURE—Sow in hotbeds very early in the spring; thin them out as soon as big enough to be handled to 3 or 4 inches each way, and transplant to 2 or 3 feet apart in very rich, warm ground. Do not plant them outside till the nights are real warm, as the least frost will, if it does not kill them, check the growth, and it will take two or three weeks before they get over it. Hoe often and hill up gradually till they blossom. One ounce to 1,500 plants.

New York Improved (Large Purple Spineless). This variety has about superseded all others, both for market and home garden; a favorite in Idaho. Our stock is extra selected, direct from the best growers. Pkt. 10c; ¼ oz. 15c; oz. 50c; ¼ lb. \$1.50.

ENDIVE

CULTURE—It is the same as lettuce. In order to bleach the green varieties, gather all the green leaves together and tie them for a few days. It furnishes an appetizing salad for all the fall and winter months.

Green Curled. Leaves finely cut and lacinated; bleaches very readily. Pkt. 10c; oz. 15c.



GERMACO HOTENTS

The largest and strongest protector—552 cubic inches of PROTECTED AREA. Individual hot house for each plant. Place soil on edge of Hotents and not against sides. Prices, \$13.00 per 1000; \$6.75 per 500; \$1.50 per 100; 25c per doz.

Setter \$1.95

GARLIC

The garlic is the most pungent of all the onion family. It is much used in the south of Europe. The root or bulb is composed of many small bulbs called "cloves", which are planted in the spring 6 to 8 inches apart, and in August the bulbs are ready to gather. Bulbs, lb. 30c. Ask for quantity price.

KOHL-RABI

CULTURE—Sow in the spring in rows 18 inches apart, afterwards thinning to 8 to 10 inches in the row. The edible part of the turnip-shaped bulb is formed by the enlargement of the stem. When used for the table they should be cut when quite small, as it is then very tender and delicate, but if allowed to reach its full size it becomes tough and stringy. One ounce produces 2,000 plants.

Early White Vienna. The earliest and best for forcing; very tender; excellent for table use. Pkt. 10c; oz. 20c; ¼ lb. 60c.

Early Purple Vienna. Same as above, only differs in color. Pkt. 10c; oz. 20c; ¼ lb. 60c.

LEEK

CULTURE—A hardy species of onion sown in drills or broadcast. When 6 inches high, transplant into rows a foot apart, setting the plants 4 to 5 inches deep, and about 6 inches apart in the rows. Used mostly in soups and stews. One ounce to 1000 plants.

Large London or Scotch Flag. This Leek, aside from being valuable for soups and salads, when bleached makes an excellent dish if sliced and cooked like green peas. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

VIGORO
Complete plant food

TRY VIGORO ON YOUR LAWN

LETTUCE

CULTURE—For a family garden plant as soon as the ground is open in the spring, covering the seed about ¼ inch deep, and thin out if necessary as the plants develop. Repeat each two weeks if a continuing supply is desired.

For a commercial crop, Southern Idaho and Eastern Oregon. Plant early in the spring in rows 18 inches apart and thin out plants to 10 to 12 inches. Some growers have been quite successful planting the seed in the late fall just before the ground freezes. For a fall crop, plant seed between July 25 and August 10 and your success will largely depend on how good a weather prophet you are. If a warm fall your plants may shoot to seed. If planted too late they may be frozen down before large enough to ship. Weather conditions are a dominating factor in commercial lettuce production.

HEADING VARIETIES

New York No. 12 is the best head lettuce for market gardeners and commercial growers. The solid heads are beautifully blanched to a creamy white with few bright green outer leaves; splendid quality. No. 12 is a hardy, rapid grower, deep rooted and resistant to drouth, and sure to head under favorable conditions. Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

Los Angeles-New York or Wonderful. Very similar to above No. 12. Also a good header. Used extensively as a commercial crop producer. Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

California Cream Butter. Heads large, round, and of a beautiful appearance. The outer leaves are medium green marked with small brown spots; inner leaves of a rich cream color. Medium early, and makes a good sort for summer use. Quality very good, rich, buttery flavor. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

Early Prize Head. It forms a large head and remains tender and crisp throughout the season; it is prompt to head but the leaves are very large, crimped, slow to seed, and of superior flavor; bright green tinged brownish red on edge. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

Improved Hanson. A white seeded lettuce of American origin, especially adapted to outdoor culture. The leaves are crumpled, the head proper is hard, tender and crisp, with white blanched appearance at the center. The average size is quite large. In table quality this lettuce is free from bitter taste, having sweet, rich flavor, even to the outer leaves. Resists heat and drouth well, and is slow to run to seed. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.25.

Big Boston. This is a fine forcing variety for cold frames during the winter months, as it produces heads of very large size, often 10 to 12 inches across, and succeeds better in a cooler temperature than most forcing strains. The large heads are beautifully blanched and of superior quality. It heads well, also in the open ground during cool weather or spring and fall, and is very popular in the South to grow for shipping North. Our seed is the choicest it is possible to produce. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

CURLED OR LOOSE LEAF VARIETIES

Early Curled Simpson. One of the best early sorts for market or family use; recommended for general cultivation. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.



Grand Rapids. As a lettuce for greenhouse forcing, this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot, and standing for some days after being fit to cut. The plant is upright and forms a large, loose head or cluster of yellowish green leaves. Slightly crimped and blistered and rather thin. It will stand shipping long distances better than most sorts. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

Black Seeded Simpson. One of the best, either for forcing under glass or for open ground culture. It forms large thin, loose leaves, light green color, very tender, crisp and of fine quality. A fine sort for summer, as it withstands the heat; also for the home garden. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

MUSKMELONS and CANTALOUPE

CULTURE—Select a sandy loam, avoiding both too heavy and too sandy soils. Deep fall plowing is best, followed by several discings in the spring. Avoid land which during past three years has been in melons. The second year after alfalfa is considered suitable. Plant 8 to 10 seeds to hill about 2 inches deep and thin to two healthy plants when they have 5 or 6 leaves. If planted in hills the rows should be 5 feet apart each way. If drilled in rows, place 5 feet apart and thin to one plant every 3 feet. Hoe carefully around the plants. Keep free from weeds and cultivate often. If you wish to force the growth **USE HOTKAPS** as described on other pages in this catalog. **HOTKAPS** will also protect them from frost and hail. One ounce plants 60 hills; about 2 or 3 pounds per acre.

GREEN FLESH VARIETIES

Rocky Ford Cantaloupes. It is of the Netted Gem type, oval in shape, averaging 4½ to 5 inches in length, of a delicious flavor, very fine and smooth grained flesh of light green color throughout when ripe. It takes its name from the district in which it has been for the past several years so extensively grown—Rocky Ford, Colorado—and from which points these melons are shipped by the carload to every station in the United States, till the name Rocky Ford has become a synonym for excellence in cantaloupes. The seed we offer is the best strain, and can be relied on for both purity and vitality. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

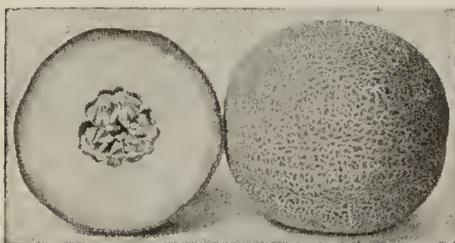
Netted Nutmeg. We consider this one of the best varieties in cultivation for family use. Vines hardy, productive; fruit round, slightly flattened at both ends, ribbed, covered with coarse netting; flesh very thick, green and of the highest flavor. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

Golden Beauty Cassaba. Long, oval shaped, skin very thin and delicate, flesh extremely tender, rich, sweet and juicy. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.25.

Extra Early Hackensack. By careful selection and improvement, carried on for some years, this strain has been so developed that it produces melons with all the good qualities of the well known Hackensack melon, but at least ten days earlier. Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.50.

Try the Famous Honey Dew. The long distance shipper and money maker has broken all records for heavy yields and net returns. Much more prolific than cantaloupes, will give heavy yields in any section where cantaloupes will produce, planted at the same time; matures two weeks later than cantaloupes. Average size, 7 inches in diameter, 8 inches in length; weight 5 to 6 pounds; skin at maturity, smooth, creamy yellow; flesh, light green, fine grained; very thick juicy meat to extreme rind; of a rich, fruity flavor; unsurpassed. Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.50. Write for prices on larger quantities.

YELLOW FLESH VARIETIES



Hale's Best (Original strain, stock seed). About 85 days to mature. A large melon running nine to the jumbo crate, well netted. An excellent shipper. 1-lb. sealed bags, \$1.35.

Hale's Best No. 10 (Stock seed). Mature about 87 days. Smaller, more uniform and more solidly netted than the original Hale's Best. Flesh thick, deep salmon, sweet and good quality. 1-lb. sealed bags, \$1.40.

Hale's Best No. 36 (Stock seed). 85 days to maturity. Large, 9 to 12 to the jumbo flat crate. Rich, spicy salmon flesh is deep, fine grained and a long distance shipper. 1-lb. sealed bags, \$1.40.

NEPONSET POTS and BANDS

Start your plants in this simple and inexpensive way.



Neponset Bands
Neponset Pots

See
page 40 for prices.



Honey Rock. New early variety melons, 5 to 6 inches in diameter, round to slightly flattened, shallow ribs and more or less netted. Rind hard and brittle, flesh medium thick, deep salmon, juicy, sweet, musky flavor. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1-lb. sealed bags, \$1.25.

Banana. An entirely distinct variety, bearing long slender, banana-like fruit. Skin creamy white and entirely free from netting. Flesh deep salmon color, thick and of good quality. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

Burpee's Spicy. Flesh of a deep rich salmon color, frequently 2 inches thick, stringless and luscious in flavor. Strong foliage and a very prolific bearer. Pkt. 5c; oz. 25c; 2 oz. 40c; lb. \$2.00.

Burrell Gem. This new melon is the "ne plus ultra" of yellow flesh muskmelons. It is another Colorado product, and, like the Rocky Ford cantaloupe, one that we can be proud of. It has a tough thin rind, well arched ribs, covered with a closely laced and interlaced gray netting. Shape is quite elongated, the diameter from stem to blossom end being one-third more than from top to bottom. Meat reddish orange, very thick, fine grained and spicy; vines vigorous; average weight 2¼ lbs., and notwithstanding its thin rind, is an ideal shipping melon. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.25, in sealed packages.

Hoodoo or Hearts of Gold. A splendid type of the salmon fleshed cantaloupe. It is early and prolific. Similar in shape to the Rocky Ford but slightly flattened from stem to blossom end. The ribs are completely covered with a heavy, close netting, with a very narrow stripe between. Flesh salmon colored, thick, fine grained and of delicious flavor. It is an ideal shipping melon and sure to become a favorite with all who prefer a salmon fleshed melon. Don't fail to give it a trial. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.25.

FOR
EARLY
MELONS



PROTECT
YOUR
PLANTS

WATERMELON

CULTURE—The same as for muskmelons, except that they should be planted from 8 to 10 feet apart. One ounce for 30 hills; 3 or 4 pounds to an acre.

Phiney's Early. A very early variety, medium and uniform size. The skin is smooth, with uniform, narrow, white mottled and dark green stripes. Flesh light red or pink; very sweet and delicious. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

Cole's Early. This is an extra early melon, maturing fully a week or more in advance of any other variety. Melons are oval in form, handsomely striped with light and dark green, small but of good quality and desirable for raising where seasons are short. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

Gypsy or Rattlesnake. One of the largest of all the varieties of watermelons, long, smooth, distinctly striped, with mottled and wavy dark green, regular stripes. Flesh bright scarlet and very sugary. Thin skinned, but bears carriage well. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

Stone Mountain. An early and large sized variety. Nearly round in shape, dark green in color and very sweet and juicy. Flesh highly colored. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.25.

Kolb's Gem. Vines of medium size, but remarkably vigorous and healthy. Fruit of the largest size, round or slightly oval, marked with irregular mottled stripes of dark and very light green. Flesh bright red, extending to within half an inch of the rind; always solid, very firm, a little coarse, but sweet and tender. An excellent keeper and very good for shipping. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

Halbert Honey Watermelon. This melon is the same sweet color and shape as our Improved Kleckly Sweet, but is more tender. The melons split ahead of the knife when cut. The seeds, instead of being white, are of a rather dull white with slightly brown tips. It is of excellent quality and will be ordered extensively by those who know it best, which is the best recommendation a melon can have. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

Stock Seed Improved Kleckly Sweet Watermelon. This seed cut from large selected melons. Pkt. 5c; oz. 20c; ¼ lb. 55c; lb. \$2.00.

WATERMELON—Continued



No. 1 Seed Improved Kleckly Sweet Watermelon. Saved from desirable melons grown from the same stock seed. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

Tom Watson Melon. This large mottled green watermelon often weighs 50 to 60 pounds and averages on good soil over 30 pounds. It has won place among the very first as a market melon. The flesh is deep red and contains very few seeds, which are firmly bedded. It is the leader, taking into consideration the size, shipping and eating quality. We have carefully selected our stock and have excellent seed to offer. Your orders will be placed where you should get excellent results if you buy this seed from us. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

ONIONS

Ask for Quantity Prices

Crystal Wax White Bermuda Onion Plants

Ready for Shipment Early March

These plants are no longer an experiment and will make early green onions for pulling and large sweet matured onions for the market. Per bunch, 15c; 5 bunches for 70c; 10 bunches for \$1.25. Postage extra.

ONION CULTURE—Onions thrive best in rather deep, rich, loamy soil. The ground should be deeply trenched and manured the previous autumn, and laid in ridges during the winter to soften. As early in the spring as the ground is in working order commence operations by leveling the ground with a rake. Sow thinly in rows 14 to 15 inches apart, 4 pounds to the acre, and a quarter of an inch deep. Cover with fine soil and press down with the back of a spade or a light roller.

YELLOW VARIETIES

Yellow Globe Danvers. A very excellent variety of globular shape, flesh white and mild flavor. Skin brownish yellow. It is very productive and a good keeper. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.00. Ask for our quantity prices.

Prizetaker. This handsome variety is a splendid type of the celebrated Spanish fancy onions, which are annually imported into the United States from Spain. The onions grown here quite rival the imported ones in great beauty and enormous size, weighing in many cases from 3 to 3¾ pounds each. The outside skin is of a rich, yellow color, while the flesh is white, sweet and mild. Pkt. 5c; oz. 20c; ¼ lb. 75c; lb. \$2.25.

Gigantic Gibraltar. Produces perfectly globular bulbs of enormous size. The skin is of a pleasing light straw color, and extends evenly over the whole onion. The flesh is pure white and astonishingly sweet. It is mild and tasty, and the texture is brittle, tender and juicy. The large handsome onions mature very evenly. Pkt. 10c; oz. 40c; ¼ lb. \$1.00; ½ lb. \$1.60; lb. \$2.50.

Riverside Strain Sweet Spanish. A large globe shaped light yellow onion. It is a Spanish variety which has quickly become very popular in many sections. Pkt. 10c; oz. 30c; lb. \$2.50.

Giant Sweet Spanish. A beautiful large yellow oblong onion produced by a very particular grower. Very heavy yielder. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50.

Grano Onion. Large, yellow, sweet. Extra heavy yielder. Limited supply. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; 1 lb. \$3.50.

Valencia. Ex-select strain. Sweet Spanish. Pkt. 10c; oz. 35c; lb. \$4.00.

Brown Australian. It is medium size, wonderfully hard and solid, and most attractive for market, both as to form and appearance. They are extremely early in ripening. It has the reputation of keeping indefinitely, and we think from its firmness and hardness that it will keep in good condition longer than any other onion known. The color of the skin is a clear amber brown. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.00.

RED VARIETIES

Large Red Weathersfield. Large, red, thick, nearly round fine grained, pleasant flavored and productive. It ripens in September and keeps well. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

Klondike. Because of its genuine merit the Klondike is favored by many. The rind is dark green; shape, oblong; flesh a distinctive shade of red. It is very sweet, crisp and tender, ripens early and so is adapted to northern states. It is also a heavy yielder. Pkt. 10c; oz. 20c; lb. \$1.50.

Striped Klondike. A splendid melon; deep red flesh, very sweet; 25 to 30 lbs. each. Pkt. 5c; oz. 20c; lb. \$1.75.

MUSTARD

Fordhook Curled Mustard. Beautiful dark green, finely curled plume-like leaves that are of distinctive flavor; superior to spinach as greens and in fine salads. Fordhook Curled is vigorous and productive. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

White English. The leaves are light green, mild and tender when young; seeds light yellow. Pkt. 5c; oz. 15c; ¼ lb. 25c.

Ostrich Plume. The leaves are long, ruffled and curved as gracefully as an ostrich plume. It is especially good as a salad and as greens is equal to spinach. Pkt. 5c; oz. 15c; ¼ lb. 30c.

OKRA or GUMBO

CULTURE—Sow late in spring, after the ground has become warm, in drills 3 feet apart, and when plants are 3 inches high, thin out from 10 to 12 inches. They should be well manured. They can also be started in a hotbed and transplanted afterwards. The young pods can be dried for winter use. One ounce will plant 100 hills.

Tall Okra. Grows to height of 5 feet. Pods ridged and about 6 inches long. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

Dwarf Okra. Early, long podded and productive. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

Red Bermuda. The bulbs of this variety are similar in form and early ripening to the White Bermuda; very flat and of a light pink color. The flesh is white, slightly suffused with pink. Tender if grown from seed. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.00.

Southport Red Globe. A large, globe shaped onion, with small neck, rich red color, splendid keeper and of extra fine quality. It matures a few days later than the Red Weathersfield. Pkt. 5c; oz. 25c; ¼ lb. 65c; lb. \$2.00.

WHITE VARIETIES

Southport White Globe. Very large, globular, pure white skin and flesh; the handsomest onion grown. Very productive and of fine quality. Pkt. 10c; oz. 30c; ¼ lb. 90c; lb. \$2.50.

Crystal White Wax. Sweet, mild flavor, of large size. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$2.50.

Extra Early Barletta (True French stock). It is fully two or three weeks earlier than the Early White Queen, which heretofore has been the earliest variety in cultivation. They are of pure paper white color, very mild and delicate in flavor, from 1 to 1½ inches in diameter and ¾ of an inch in thickness. Pkt. 10c; oz. 35c; ¼ lb. \$1.20; lb. \$3.50.

Silver Skin. Of attractive shape, silvery white skin and flesh of a most agreeable flavor. Largest of the white flat varieties. Pkt. 5c; oz. 25c; lb. \$3.00.

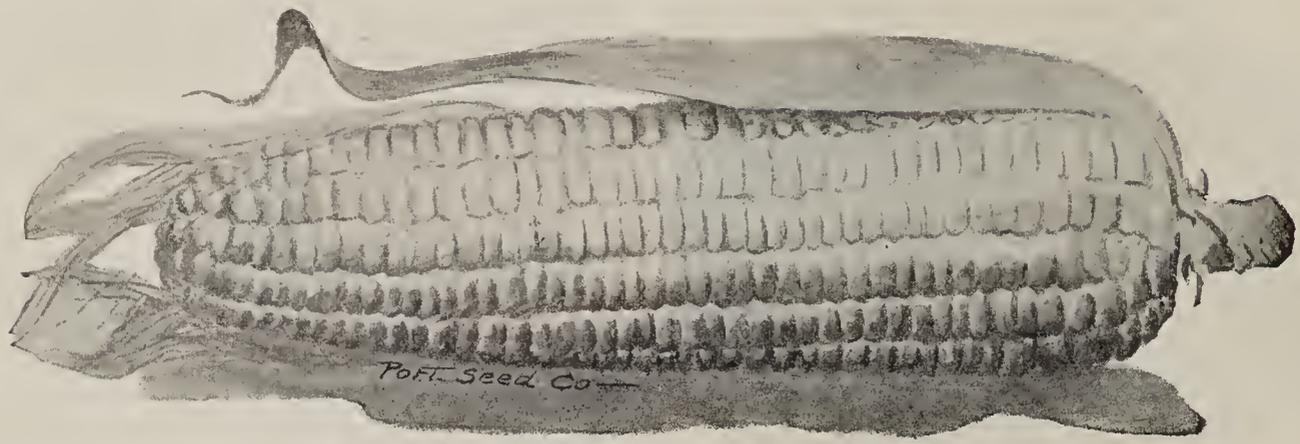
White Sweet Spanish Onion. Noted for its uniformity and mildness. A fair keeper with pure white skin. Pkt. 10c; oz. 30c; lb. \$2.50.

Onion Sets

Regular bottom sets to be placed in ground early in spring. **Yellow Bottom**, lb. 15c; 7 lbs. \$1.00. **White Bottom**, lb. 15c; 7 lbs. \$1.00. Postage extra.



GET OUR PRICES ON QUANTITY PURCHASES
OF ONION SEED



SWEET CORN

Write for Quantity Prices

CULTURE—All varieties of sweet corn may be either sown in rows 3 feet apart, and the seeds planted about 8 inches in the row, or planted in hills at a distance of 2 or 3 feet each way, according to the variety grown or the richness of the soil in which it is planted. Sweet corn should not be planted deeper than 1½ inches, as it is liable to rot in the ground. Ten pounds to an acre.

Prices for all varieties listed: ½ lb. 10c; lb. 15c; 10 lbs. \$1.40. If by mail, postage must be added at the rate of 8c for first pound, 1 1/10 cents extra for each additional pound.

New Golden Bantam. This is an early sweet corn with golden yellow grain, very tender and of excellent quality. The ears are eight-rowed, 6 to 7 inches long and of medium size found most suitable for the table. The flavor is exceptionally rich and delicious. The stalks are 4 to 5 feet high. Our stock of this splendid home garden and market variety has been very carefully selected and is decidedly superior to much that is offered.

Peep o' Day. It is not only one of the earliest sweet corns, but is very sweet and immensely productive, stalks producing from two to five large ears and being dwarf, about 4 feet in height, admits of close planting.

White Cob Cory. For a strictly early, for the first market and home use, you can't be far wrong with White Cob Cory. We offer northern grown extra early matured seed.

Country Gentleman. The ears are not only of good size, but are produced in great abundance, frequently bearing four good ears, while the average is three to a stalk. The cob is very small, giving great depth to the kernels which are of pearly white quality. It is without doubt the sweetest and most tender of all sweet corns, and at the same time with ears of good size.

Portland Market. One of the early white varieties. Large, sweet; grains pure white, ears well filled—a good market variety.

Early Minnesota. This is among the earliest of the sugar varieties, and is much esteemed not only because it matures early, but for the excellent qualities as well. Ears rather small, long and pointed.

Stowell's Evergreen. This variety is more largely planted than any other, being the general favorite with canners and market gardeners for late use. It is very productive, the ears are large size, grains deep, exceptionally tender and sugary, and remains for a long time in an edible condition.

Early Evergreen. This corn has all the good qualities of its parent, Stowell's Evergreen, but matures earlier. Stalks grow from 6 to 8 feet high.

Black Mexican. This corn, when in condition for the table, cooks remarkably white, but the ripe grain is black or bluish black. It is surpassed by none in tenderness. For family use it is considered the most desirable of the medium late sorts.

OTHER VARIETIES

Little Gem, Giant Bantam, Golden Early Sunshine, Golden Evergreen.

TREAT SEED BEANS
WITH NITRAGIN



Germaco HOTKAPS



HIGHER PRICES FOR YOUR CROPS

This Method of Plant Protection Gets You Higher Prices for Larger and Quicker Crops.

This remarkable invention consists of a scientifically constructed wax paper cone that you place over each plant. Thus they are miniature hothouses that protect plants from frost, wind, rain, insects and ground crusting.

HOTKAPS not only protect plants, but make them grow faster. Thus you get a greater crop production to market earlier for higher prices!

You can add to your profit with Hotkaps. They cost but a fraction over a penny each. One man can "set" 3000 Hotkaps per day. They not only bring you higher prices, but are a method of crop insurance against the danger of the elements.

Price per roll (1000) Hotkaps, \$9.75; lots of 5000 Hotkaps, \$9.65 per M. Write for interesting pamphlet or order today!

Shipping weight 28 pounds per 1000.

PARSLEY

CULTURE—Parsley succeeds best in rich, mellow soil. As the seeds germinate very slowly, 3 to 4 weeks elapse sometimes before it makes its appearance. It should be sown early in the spring, previously soaking the seed for a few hours in tepid water. Sow thickly in rows a foot apart and half an inch deep. One ounce to 150 feet of drill.

Champion Moss or Triple Curled Parsley. The leaves are finely cut and curled and of a dark green color. Extra fine for garnishing and culinary purposes. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.

Turnip Rooted or Hamburg. The root is the edible portion and represents a small parsnip in shape and color. Flesh white and flavored like celeriac. Foliage same as plain parsley. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.



PARSNIP

Sugar or Hollow Crown. The best for table use, a vegetable of merit, easily raised, and of great productiveness. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

PEAS

CULTURE—Peas do best in sandy soil, not too rich or they will run up to vines. The smooth kinds can be sown as soon as the ground can be worked, but the wrinkled varieties should not be planted till it is warmer or they will rot. Sow in single or double rows from 1½ to 3 feet apart, dropping a pea every inch and covering from 2 to 3 inches deep. For a succession, sow every ten days up to July. One pound to 50 feet of drill, 90 to 120 pounds to the acre.

In ordering peas, add 8c for first pound and one and one-tenth cents for each additional pound for postage.

EARLY VARIETIES

***Little Marvel.** A splendid new dwarf pea for home or market. The dwarf, bushy vines averaging 15 inches are loaded with firm, square-ended pods 2½ to 3 inches long, tightly filled with plump, luscious, deep green peas. Little Marvel is as early as American Wonder, fully equals the superb quality of Nott's Excelsior and far out-yields these two popular sorts. Pkt. 5c; lb. 20c; 10 lbs. \$1.75.

Early Alaska. A variety of remarkable earliness and hardiness. It is a good yielder and produces pods of good size and dark green color, which are well filled with round, smooth peas of splendid flavor. Height 2 feet. The color of the dried peas is green. It ripens evenly, one picking will nearly clean off the crop. Pkt. 5c; lb. 20c; 10 lbs. \$1.75.

***Select Little Gem.** An improvement on the Little Gem, being larger and more productive; early in maturing; very luscious in flavor; highly recommended; try it. Height 1½ feet. Pkt. 5c; lb. 20c; 10 lbs. \$1.75.

***American Wonder.** The vine grows 15 to 18 inches high, and is very prolific in pods of striking form and size. In maturity it is among the earliest of the green wrinkled sorts, ripening in about 50 days from germination. Pkt. 5c; lb. 20c; 10 lbs. \$1.75.

***Prosperity or Gradus.** This remarkable pea is not only large and of the best quality, but is not quite as early as the small, round, extra early. It is hardy and may be planted as soon as the ground is fit to work in the spring, along with smooth peas. The pods are of a bright green color and measure 4 inches or more in length, being as large as Telephone and equally well filled with luscious peas—8 and 10 in a pod; vine growing about 30 inches high. The peas are of first class table quality and retain their color and attractive appearance after cooking. Pkt. 5c; lb. 20c; 10 lbs. \$1.75.

***Nott's Excelsior.** Robust and vigorous in growth, inclined to throw out laterals from the base of the stalk, producing in profusion long, handsome pods, closely packed with large peas of fine flavor. An improvement on American Wonder, being more vigorous and prolific with large pods and more peas. Height 12 inches. Pkt. 5c; lb. 20c; 10 lbs. \$1.75.

***Laxtonian.** A new, early dwarf, robust, large podded pea of superior excellence, growth averaging 16 inches. The large pods are well filled, holding 8 to 10 peas. Laxtonian is so highly recommended that you should give it a trial. Pkt. 10c; lb. 20c.

Tom Thumb. Foliage heavy, bushy, growing to a height of 10 to 12 inches, very productive, and matures in less than 40 days after sprouting. Pkt. 5c; lb. 20c.

SECOND EARLY VARIETIES

***Dwarf Telephone.** Grows 20 to 24 inches high; the vines are very vigorous, of a branching habit, and bear for a long time a great quantity of large, dark green pods, containing from 8 to 10 peas. It is one of the best second early, and on account of its nice appearance, brings the highest price on the market. Must be sown farther apart than other peas. Height 2 feet. Pkt. 5c; lb. 20c; 10 lbs. \$1.75.

***Telephone.** This variety is one of the finest branching, tall, wrinkled marrows yet introduced. It is immensely productive, of the finest quality, and excellent sugary flavor; vine strong, averaging 18 to 20 pods per stalk; the pods are of large size and closely packed with 6 to 8 large, delicious peas. Height 4½ feet. Pkt. 5c; lb. 20c; 10 lbs. \$1.75.

OTHER STANDARD VARIETIES

***Stratagem.** Seeds green, wrinkled, middle crop; one of the best peas ever sent out. Height 2 feet. Pkt. 5c; lb. 20c; 10 lbs. \$1.75.

***Bliss Everbearing.** A late variety which grows about 24 inches high and continues long in yielding; the peas are of excellent quality, pods contain from 5 to 7 peas so closely filled that while in the edible condition they weigh nearly one-fifth more than most other sorts. Pkt. 5c; lb. 20c; 10 lbs. \$1.75.



SUGAR PEAS, EDIBLE PODS

Burpee's Melting Sugar. This is the best known edible podded pea. The vines reach a height of 6 to 7 feet. The whole pod is fleshy and tender and should be gathered when the seeds are just beginning to form. They are broken in pieces the same as string beans. Pkt. 10c; ½ lb. 20c; lb. 35c.

Gray Sugar. Edible pods. The most desirable of all edible pod peas. The pods are flat and crooked and contain 5 to 6 peas. Height 1½ feet. Pkt. 5c; ½ lb. 15c; lb. 20c; 10 lbs. \$1.75.

*Indicates wrinkled varieties.

10-lb. lots all priced F. O. B. Boise. Write for quantity prices.



Use Nitragin
for better crops of
Garden Peas or
Sweet Peas



PEPPER

CULTURE—Peppers should be started in a hot bed in February and March and not planted outside until the ground is warm and there is no danger of frost. Set the plants in rows 2 feet apart and 18 inches in the row. Hoe often and keep the weeds down. One ounce produces about 1,500 plants.

Ruby King. Fruits 6 to 7 inches long by about 4 inches in diameter; of bright red color. They are remarkably mild and pleasant in flavor and can be sliced and eaten like tomatoes. One of the best for making mangoes. Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$1.50.



Large Sweet Spanish (Bell Shaped). A very large sort, of square form, mild, thick and suitable for filling with cabbage, etc., and for mixed pickle; less pungent than most sorts; notwithstanding its size, it is one of the earliest varieties. Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$1.50.

Chinese Giant. One of the very best and largest mango peppers. Its mammoth size, splendid shape, beautifully rich, glossy-red flesh and mild flavor all lead us to recommend it. Its strong, bushy plants are heavily loaded with large fruits, which are produced throughout the season. Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$1.50.

California Wonder. A large sweet pepper, with flesh which is often $\frac{3}{8}$ of an inch thick, crisp and juicy. A heavy yielder. Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$1.50.

World Beater. An excellent large pepper. Fruit 5 inches long by $3\frac{1}{2}$ inches in diameter. Flesh mild and thick. Deep red when ripe. Very productive and a good shipper. Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$1.50.

Long Red Cayenne. Fruit brilliant coral red; conical, from 2 to 3 inches in length, from $\frac{3}{4}$ to 1 inches in diameter, very pungent. Pkt. 10c; oz. 50c.

Red Chili. This is slightly larger in growth than the Red Cayenne, with larger fruits, 3 inches in length, and an inch in diameter. Bright red, very hot and fiery. Ripens early. Makes the famous Mexican chili. Pkt. 10c; oz. 50c.

OTHER VARIETIES

Neapolitan, Pimento or Perfection, Sweet Mountain. Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$1.50.

SEED POTATOES

Write us for prices on our Early and Late Potatoes.

SWEET POTATOES

Our sweet potatoes are selected home grown stock. One bushel of seed will produce 1800 to 2000 sprouts. To insure prompt filling orders for sweet potatoes they must be engaged ahead. Standard weight of sweet potatoes, 50 lbs. per bushel.

Buyers will please note that owing to the tenderness of sweet potatoes, we do not guarantee the safe arrival of sweet potato seed or plants; however, we use all precaution possible in packing and time of shipping. Sweet potatoes should not be mailed.

Supply limited. Place your order for future shipment at once.

Yellow Nansemond. Standard variety of main crop. The best for short season localities. 10 lbs. \$1.00; 25 lbs. \$2.00.

White Bermuda. Similar to the preceding, only shorter and thicker in size. 10 lbs. \$1.00; 25 lbs. \$2.00.

Red Bermuda. Specially adapted to Idaho. Supply limited. 10 lbs. \$1.00; 25 lbs. \$2.00.

Porto Ricans. 10 lbs. \$1.00; 25 lbs. \$2.00.

Black Spanish. 10 lbs. \$1.00; 25 lbs. \$2.00.

SWEET POTATO PLANTS

Plants ready from May 1 to June 15. Our long experience in this line enables us to make shipment to long distance points, with comparatively no loss. However, we do not guarantee safe arrival, as oftentimes mail is delayed or something happens beyond our control. If wanted by mail, postage should be added, 10c for 50; 20c for 100 plants. We make special rates on large lots.

Yellow Nansemonds and Red and White Yams. 50 plants, 50c; 100, 90c; 1,000, \$8.00. Order early.

PUMPKIN

CULTURE—Pumpkins are usually planted in fields of corn or potatoes, but may be profitably raised in fields by themselves. Sow first of May, in hills 8 feet apart. One ounce to 30 hills; 4 lbs. to an acre.

Sugar or Pie Pumpkin. Smaller than the field pumpkin, but finer grained, sweeter and more prolific; first rate for table or stock. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

Big Tom. A large round variety, produced in great numbers. Has thick meat of fine quality. Very suitable for canners' use. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 80c.

King of Mammoth. The flesh and skin are of a bright golden yellow color. Flesh fine grained and of excellent quality. Notwithstanding its enormous size, it is one of the very best pie pumpkins ever grown, and a splendid keeper. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.10.

Tennessee Sweet Potato. A good variety for making pies and for other cooking purposes. It is of medium size, of a white creamy color and has an excellent flavor; good keepers. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

Cashaw or Crookneck. A French variety, liked by many. Has yellow flesh, solid and sweet. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.

Mammoth Tours. A French variety which grows to an immense size, often weighing over 100 pounds. Fruit is either long or round, but generally flattened at both ends. Skin pale green, marked with deeper bands and marbling. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.25.

Connecticut Field or Common Yellow. Extensively grown for stock feeding, and generally planted with corn. Produces enormous crops. Hardest of all and good for pies. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00; 5 lbs. \$4.00.

Japanese Pie. The flesh is very thick, nearly solid. Fine grained, dry and sweet, having much the taste and appearance of sweet potatoes. The seeds are peculiarly marked and sculptured like Japanese characters. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00.

RADISHES

EARLY ROUND VARIETIES

CULTURE—Sow as early in spring as the ground can be worked, and every two weeks throughout the season for a succession of crops. During the summer months use summer and winter varieties, as the early kinds get pithy. Winter radishes can be wintered over just as easily as any root crop. One ounce to 100 feet of drill; 10 pounds to an acre. Five-pound lots in one variety, 15c less per pound, not prepaid, with white tip. Popular as a market variety. Pkt. 5c; oz. 15c;



Early Scarlet Turnip, White Tipped. A beautiful deep scarlet $\frac{1}{4}$ lb. 35c; lb. 85c.

Early Scarlet Turnip. A small, round, red, turnip shaped radish, with a small top and of very quick growth. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 85c.

French Breakfast. A medium sized radish, olive shaped, with small top of quick growth; very crisp and tender; scarlet color, except near root, which is pure white. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 85c.

Burpee's Crimson Giant. This new radish is double the size of those of other forcing varieties without getting pithy or hollow, has pure white flesh remaining crisp and mildest of flavor. It is well adapted to outside culture. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.

RADISHES—Continued

Long Bright Scarlet. Extra early, the roots being ready for use about 25 days after sowing; very bright color. It is very slightly tipped with white, and the flesh is crisp and tender. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 85c.

White Icicle. Entirely distinct, long, slender, pure white. Very early, much the earliest and finest long white. It is ready for use fully as early as Long Island Short Top, with less foliage, rendering it most desirable for forcing. In the open ground the roots continue brittle, crisp and mild, until they are fully as large as those of Long Bright Scarlet. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 85c.

Chinese White or "Celestial". This is the large white radish. It keeps well in winter and is usually crisp and not strong. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 85c.

Stuttgart. A large winter variety, splendid keeper, brittle and fine eating. Pkt. 5c; oz. 15c; lb. 80c.

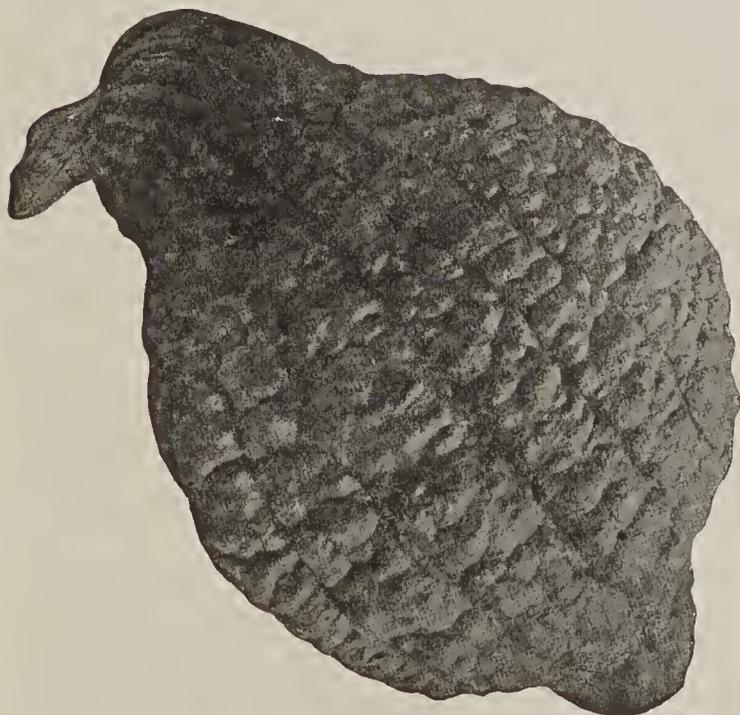
Round Black Spanish. Of similar nature and quality to the long, differing shape. It is the favorite winter radish for this part of the country. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

China Rose. It is a half long shape, pink color, flesh solid. Keeps well. It should be sown during August. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 90c.

SALSIFY or OYSTER PLANT

CULTURE—The oyster plant succeeds best in light, well enriched, mellow soil which, previous to sowing the seeds, should be well stirred to a depth of 18 inches. Sow early in the spring, in drills 15 inches apart; cover the seed with fine soil 1 inch deep. One ounce for 60 feet of drill; 7 pounds to one acre.

Mammoth Sandwich Island. This variety grows fully double the size of the common sort, and is of superior quality. It is pure white in color and is invaluable to market gardeners. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

**SQUASH**

CULTURE—Sow about the middle of spring, in hills, the early sort about 4 feet apart, and the late varieties 6 to 8 feet. Drop enough seeds to be thinned to 3 plants in a hill. The hills should be highly manured and prepared in a similar manner as those for cucumbers. One ounce to 40 hills for small sorts; large varieties, 1 oz. for 30 hills.

Five pounds of one variety, not prepaid, at 10c less per pound. Four or five pounds to an acre.

Early White Bush. The earliest to mature; very productive; light cream colored. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

Fordhook. One of the hardest, flesh thick, small seed cavity, and a good keeper. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

Sibleys. One of the best for shipping, owing to the hardness of the shell. Flesh is solid and thick, of a bright orange color and of choice quality. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

Banana Squash. The large whitish green fruits measure 2 to 3 feet in length and are quite thick. Fine-grained mealy flesh. Hard to beat. Pkt. 10c; oz. 15c; lb. \$1.25.

Mammoth Chili. Size enormous, often weighing 100 lbs. or more, very profitable for stock feeding. Remarkably productive. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

Mammoth Summer Crookneck. It is the best summer squash. It is twice as large as the ordinary form of Crookneck, far more productive variety, and several days earlier. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

Vegetable Marrow. A favorite English sort, early, skin greenish-white; flesh white, soft and rich flavor, quite distinct from other sorts. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

Golden Hubbard. This is a very distinct sort of the shape and general character of the Hubbard, but smaller, earlier to mature, and of rich, orange-red color, instead of the olive-green of the old Hubbard. One of the best fall and winter varieties. Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.25.

"The Delicious" Squash. The squashes, weighing from 5 to 10 lbs., vary both in color and form, but are uniformly delicious in flavor and splendid winter keepers. The dark orange flesh is very thick and fine grained. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

Warty Hubbard. This is one of the best in quality of all winter sorts. The flesh is dry and sweet. Shell very dark green and hard, which insures long keeping qualities. It is considered an improvement over the old type Hubbard on account of its warted skin. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

Acorn or Table Queen. Of small size, about 7 inches long and 3 inches thick. Ridged and scalloped, turning from deep green to bright orange. Early, prolific and tasty. Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50.

Utah Field. This is the "Jumbo" of the squash family. It is an extra fruited sort, quite distinct in form and appearance. The fruits frequently attain more than 100 pounds in weight. Flesh firm and solid, of beautiful orange yellow, and excellent quality. Decidedly the best field variety grown. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.

RHUBARB

CULTURE—Rhubarb succeeds best in deep, somewhat retentive soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep and thin out the plants to 12 inches apart. The following spring transplant into place; set the plants from 4 to 5 feet each way. One ounce produces from 400 to 500 plants.

Paragon. A good variety. Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.50.

Victoria. Very large, later than Linnaeus. Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.50.

Rhubarb Roots. 3 for 25c; 6 for 50c; 12 for \$1.00, prepaid. If not prepaid, 75c per doz.; \$5.00 per 100.

TOBACCO

CULTURE—Tobacco in this part of the country should be started in hotbed in March and treated the same as tomato.

Havana. Pure Cuban grown seed. When grown in this country, commands a high price as cigar stock. Pkt. 10c; oz. 30c.

Connecticut Seed Leaf. Best adapted to the climate of the middle and northern states, as it is more hardy and endures the cold better than the tender varieties grown in the South. Pkt. 10c; oz. 40c.



Germaco Hotkaps can make you extra dollars this season. They protect plants from frost, wind, rain, insects and ground crusting. Thus they produce hardier, quicker crops. You get higher prices!

Home Garden Pkg. of 25 Hotkaps and Cardboard Setter.	\$.45
Price per 100 Kaps	1.35
Price per roll (1000 Kaps)	9.75
In lots of 5000 Kaps, per 1000	9.65

We can also supply a special package of 100 Germaco Hotkaps, one Papier Mache Garden Setter and one Steel Tamper. Complete, postpaid \$2.00

Or a package containing 250 Germaco Hotkaps, one Papier Mache Garden Setter, and one Steel Tamper.

Complete, postpaid	\$2.00
Steel Hotkap Setters	1.50
Garden Setters.....	.50
Steel Tamper.....	.25

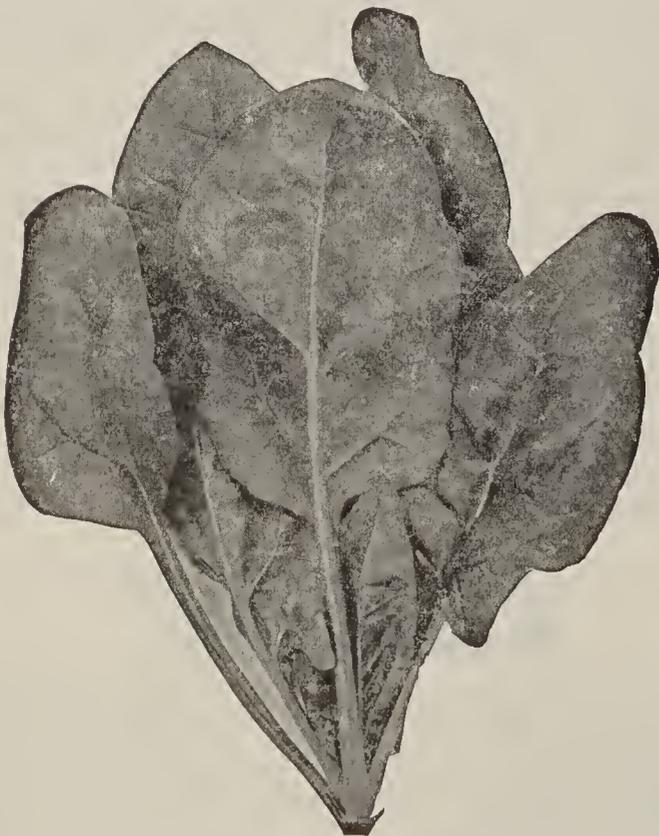
Write for free pamphlet or order today!



SPINACH

CULTURE—Spinach is one of the most easily managed of all vegetables, requiring little culture. The main crop is sown in September and it is sometimes covered with straw in exposed places during winter, which prevents it from being cut with the frost. For summer use it may be sown at intervals of two or three weeks from March to August. Spinach is best developed, most tender and succulent when grown in rich soil. One ounce to 100 feet of drill; 10 to 12 pounds to an acre. Five pounds or more of one variety, not prepaid, at 10c less per pound.

Long Standing. An improved strain of excellent merit, having all the good qualities of the ordinary sorts. The fact that it is much later in going to seed than any other variety renders it especially desirable. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 50c.



Improved Thick Leaf. A variety which grows rapidly, forming a cluster of very large, slightly crumpled leaves of a deep green color and good quality. The leaves are usually broad arrow-shaped, but sometimes rounded. This is an extensively used medium early sort for the market and home garden. Seed round. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 50c.

American Curled Savoy Leaved Spinach. A most valuable variety. In appearance the leaf is wrinkled in the same way peculiar to Savoy cabbage, from whence the name. Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 50c.

SWISS CHARD

Swiss Chard. Used only for greens and is very fine for this purpose. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

TOMATO

CULTURE—When the plants are to be raised, the seed should be sown in March, in a hotbed or greenhouse; or they may be sown in a box and kept inside the window of a room where the night temperature is not less than 65 degrees. The plants should be thinned out in the bed so as to give them plenty of room, or they will be weak and poor. They should be transplanted in the open ground from 3 to 4 feet apart each way. One ounce produces about 1,500 plants.

Sparks' Earliana. Produces fruit earlier than any other variety. The quality is good, of large, uniform size, red color. It is very solid, being a shy seeder. Pkt. 5c; oz. 40c; ¼ lb. \$1.00; lb. \$3.50.

Earliest of All. A large, bright red, extremely early variety, especially suitable for truckers and market gardeners. Try this for your early variety. Pkt. 5c; oz. 40c; ¼ lb. \$1.50.

Chalk's Early Jewel Tomato. About ten days later than Sparks' Earliana; of more robust growth. Fruits good size, very solid and deep through. Color bright scarlet. Ripens right up to the stem

without cracking. The flesh is bright scarlet, very solid, with comparatively few seeds, and of fine, sweet flavor. Pkt. 5c; ¼ oz. 15c; oz. 45c; ¼ lb. \$1.25; lb. \$4.00.

Dwarf Champion. This tomato owes its wide popularity to stiff, vigorous, upright growth, with fruit well above the soil, and to the earliness with which it reaches maturity. In color the fruit is purplish-pink, and it is always round, smooth and symmetrical. Size medium, table quality superior, a good shipper. Pkt. 5c; ¼ oz. 15c; oz. 45c; ¼ lb. \$1.25; lb. \$4.00.

Selected Strain Livingston's Beauty. It is the smoothest and best of the large purple sorts. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.50.

June Pink. This tomato resembles Earliana except in color, which is a fine pink color. It is the earliest pink tomato grown, and is from 2½ inches to 3 inches in diameter. The vines are very robust and very heavy bearer, being the first on the market, and lasts till frost. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.50.

Ponderosa Select Stock. A splendid variety of magnificent size, often attaining a circumference of 18 inches and weighing from 2 to 4 pounds. It is perfect in form, free from wrinkles, does not crack, smooth as glass and is solid and meaty as beefsteak. Ponderosa is of delicious flavor, rich when sliced, and splendid for canning. The plant is luxuriant, healthy, independent of drought, and prolific bearer. Pkt. 5c; oz. 45c; ¼ lb. \$1.50; lb. \$4.00.

Burpee's Matchless. Burpee's Matchless is the best large-fruited and smooth, main-crop tomato in existence. It is a strong, vigorous grower, with sturdy vines producing an enormous crop of large handsome tomatoes. The fruits are a rich scarlet-red color. They are perfectly smooth, of even color, firm, solid, and noted for their long-keeping qualities. The flavor is most agreeable, sub-acid and tasty. Fordhook-grown seed. Pkt. 10c; ½ oz. 25c; oz. 40c; lb. \$4.00.

Marglobe. Marglobe has proven one of the most outstanding new tomatoes introduced within recent years. Producing a crop of large, well-rounded, bright scarlet-red tomatoes. The plants are resistant to nail head rust and fusarium wilt. Pkt. 15c; ½ oz. 35c; oz. 60c; ¼ lb. \$1.80; ½ lb. \$3.50; lb. \$6.00.

Rutgers. Globe shaped. Scarlet red color. Very meaty. Small seed cavity and little seed. Pkt. 5c; ½ oz. 20c; oz. 35c; ¼ lb. \$1.00.

OTHER STANDARD VARIETIES

Beefsteak. Pkt. 5c; ¼ oz. 15c; oz. 45c.

New Stone. Pkt. 5c; ¼ oz. 15c; oz. 45c.

Bonny Best. Pkt. 5c; ¼ oz. 15c; oz. 45c.

John Baer. Pkt. 5c; ¼ oz. 15c; oz. 45c.

Red Head. Pkt. 5c; ¼ oz. 15c; oz. 50c.

Columbia. Pkt. 5c; ¼ oz. 15c; oz. 45c.

Pritchard or Scarlet Topper. Pkt. 5c; ¼ oz. 15c; oz. 45c.

Greater Baltimore. Pkt. 5c; ¼ oz. 15c; oz. 45c.

Golden Queen. The best large yellow variety. Pkt. 5c.

Red Pear. Shaped like pear. Makes fine preserves. Pkt. 5c.

Red Plum. Pkt. 5c.

Yellow Plum. Color bright yellow, excellent for preserving. Pkt. 5c.

Yellow Pear. Same as above, except shape. Pkt. 5c.

Husk Tomato or Yellow Ground Cherry. This is liked by many for preserves and eating from the hand. Pkt. 5c; oz. 25c; ¼ lb. 90c.



TURNIP

CULTURE—Turnips do best in highly enriched, light, sandy or gravel soil. Commence sowing early varieties in April in drills from 12 to 15 inches apart, and thin out early to 4 to 6 inches in the rows. For a succession, sow at intervals of a fortnight until the last week in July, from which time until the end of August sowing may be done for the main crop. One ounce will sow 150 feet of drill; 1½ pounds to an acre.

EARLY VARIETIES

Early White Flat Dutch, Strap Leaved. This is a popular early turnip for table use. For autumn and early winter use, this and the purple top are highly popular. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.

Purple Top, Strap Leaved. The standard of this part of the country. Superior for early or late planting. Round, flat, good sized, small top with but few leaves; flesh very fine grained, good flavor. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 75c.

Early White Egg. A quick growing, egg-shaped, perfectly smooth, pure white variety, growing half out of the ground with small top and rough leaves. Its smooth, white skin and quick growth make it peculiarly desirable for market purposes. The flesh is very sweet, firm and mild, never having the rank, strong taste of some varieties. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.

Extra Hardy White Milan. The earliest in cultivation. The bulb is very flat, of medium size, quite smooth. It is a pure white, thus making it especially desirable for forcing. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

Amber Globe or Strap Leaved. One of the best varieties for table use or for a field crop for stock. Flesh yellow, fine grained and sweet, color of skin yellow with green top. Hardy, keeps well, a good cropper, grows to a very large size. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.

Extra Early Purple Top Milan. A bright purple top, leaves few, short and light of color, growing very compact, and making an exceedingly small and neat top. The pure white flesh is of the choicest quality, hard, solid and fine-grained. It is an excellent keeper. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

Golden Ball. Undoubtedly one of the most delicate and sweetest yellow-fleshed turnips yet introduced. Not of large size, but firm, hard and most excellent flavor. Keeps well and is superior as a table variety. It is extensively used by market gardeners. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.

Purple Top White Globe. Large size, rapid growth, unusually attractive and admired by all. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.

RUTABAGA

Yellow Purple Top Rutabaga. Hardy and productive, flesh yellow, of solid texture, sweet and well flavored; shape slightly oblong, terminating abruptly with no side or bottom roots; color deep purple above and bright yellow under the ground; leaves small light green, with little or no neck; the most perfect in form, the richest in flavor, and the very best in every respect. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.

Monarch or Tankard. This is a yellow sort, having very large tankard-shaped roots; flesh very solid, fine grained of fine flavor; grows well out of the ground and yields large crops. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

White Sweet Russian. Flesh white, hard and firm, partaking much of the nature of a rutabaga. Must be sown much earlier than the flat turnip. In the autumn and early winter it is apt to be hard, but mellows like an apple by keeping. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.

HERB SEEDS

The following Herb Seeds 5c a package: Anise, Balm, Borage, Caraway, Catnip or Catmint, Chervil, Coriander, Dandelion, Hop, Horehound, Hyssop, Lavender, Rosemary, Sage, Saffron, Savory, Sorrel, Sweet Basil, Sweet Fennel, Sweet Marjoram, Tarrogon, Sweet Thyme, Wormwood.

VEGETABLE PLANTS

We are prepared to furnish plants, in any quantity, of the varieties described below, all Idaho grown especially for us. The plants are grown from select seed and you can depend on the plants being true to name. We exercise great care to produce strong, vigorous plants and see that they are packed properly for transportation. We advise sending by express, and the following prices DO NOT INCLUDE POSTAGE. If wanted by mail, add 8c per dozen, or 20c per 100, postage.

Early Cabbage. From seed bed. Early Winnigstadt, Jersey Wakefield, ready May 1st. Doz. 20c; 100, \$1.00.

Late Cabbage. Seed bed. Copenhagen Market, Flat Dutch, Danish Ball Head, ready June 1st. Doz. 15c; 100, 80c.

Early Snowball Cauliflower. Ready in May. Doz. 25c; 100, \$1.50.

Late Cauliflower. Snowball, ready in June. Doz. 25c; 100, \$1.25.

Tomatoes. Earliana, Chalk's Early Jewel, Greater Baltimore, Golden Queen, Stone, Scarlet Topper, Marglobe, and Beauty, ready May 1st from seed bed. Doz. 20c; 100, \$1.00.

Peppers. Ruby King, California Wonder, Sweet Spanish, Chinese Giant, Pimento, seed bed, ready May 15th. Doz. 25c; 100, \$1.50.

Egg Plant. New York Improved, seed bed, ready May 15th. Doz. 30c; 100, \$2.00.

Early Celery. White Plume, Golden Self-Blanching, ready May 10th. Doz. 20c; 100, \$1.00.

Late Celery. Giant Pascal, Golden Self-Blanching, ready June 25th. Doz. 20c; 100, 85c.

Sweet Potatoes. Yellow Jersey, Red and White Yams, ready May 15th. Doz. 20c; 100, 90c.

Ask for special prices on plants in large quantities.

STRAWBERRY PLANTS

Progressive Everbearing, Kellogg Strain. Rich red color, firm berry, and of delicious flavor. Do not allow plants to bear fruit from first blossoms. 25 plants postpaid, 60c; 100 plants postpaid, \$1.25. By express, \$9.00 per 1000.

Mastodon Everbearing. The largest fruiting of the everbearing sorts, yet notwithstanding its size it is also the most prolific, bearing continuously from June until frost. Fruit firm and of excellent flavor. 50 plants postpaid, 85c; 100 plants postpaid, \$1.35. By express, \$10.00 per 1000.

New Oregon Annual. 50 plants postpaid, 75c; 100 plants postpaid, \$1.15. By express, \$7.50 per 1000.

SUMMER BEDDING PLANTS

(Postage Extra)

Summer Bedding Plants of the following varieties, same to be ready for shipment about May 1st. Prices quoted below do not include postage. Add 8c per dozen or 30c per hundred for postage if wanted by mail.

Pansies. Very choice varieties, extra large. Per dozen, 50c.

Asters. Crego Giant, mixed colors, per dozen, 25c. Solid colors: White, Pink, Purple, Lavender, Crimson. Per dozen, 30c.

Salvia (Scarlet Sage). One of the most beautiful flowering plants; flowers flaming scarlet color. Per dozen, 40c.

Verbena. Mixed colors. Per dozen, 50c.

SEED POTATOES

We offer to our customers only those grown under supervision of experienced growers. Many things are to be considered in growing good seed potatoes—origin of and disease free parent seed, soil, elevation, climatic conditions, source of moisture available—are some of the more important points to be considered.



This season we are offering **IDAHO STATE CERTIFIED BLUE TAG NETTED GEMS** grown at an altitude of over 5000 feet in a mountain valley in close proximity to **snow capped peaks**. Certified Blue Tag Potatoes from this source have produced in past years many crops of three hundred sacks per acre or more.

For satisfactory results this seed cannot be excelled, if equalled. Our supply is limited. **ORDER EARLY.**

We will also have a limited supply of **Minnesota Grown State Certified Blue Tag Early Ohios, Irish Cobblers, Bliss Triumphs**. Also Minnesota Grown Uncertified Six Weeks. These seed potatoes from the famous Red River Valley have always given surprising results and satisfactory returns.

If interested write us for particulars and prices.

UNION SEED & FUEL CO.

111 SOUTH TENTH STREET
P. O. BOX 1097 BOISE, IDAHO

Headquarters for BAGS and TWINE

NEW AND SECOND HAND BAGS

BURLAP GRAIN BAGS:

Calcuttas	Barley
Domestics	Potato and Onion
Oats	Alfalfa Meal

SEAMLESS SEED BAGS:

Ames-Harris & Neville A. H. N.
Also Bemis A
Both are full 16-ounce bags.

WOOL BAGS AND FLEECE TWINE — SACK TWINE

Write for Prices

Prices Upon Request

Handy Table for Planters

	Pounds Per Acre	Pounds Per Bu.
Alfalfa	12-15	60
Barley	60-90	48
Beans, drilled	50-60	60
Beans, Navy	35-40	60
Blue Grass, Kentucky	15-20	30
Brome Grass	20-25	14
Broom Corn, drilled	12-15	46
Buckwheat	40-60	50
Cane, broadcast	60-80	50
Cane, in drills	6-8	50
Clover, Alsike	8-10	60
Clover, Crimson	15-16	60
Clover, Mammoth	12-15	60
Clover, Red	10-12	60
Clover, Sweet	15-18	60
Clover, Sweet, unhulled	25-30	38
Clover, White	6-8	60
Clover, White, for lawn	10-12	60
Corn, in hills	8-10	56
Corn, for silage	25-30	56
Corn, Sweet, drilled	12-15	46
Cow Peas, broadcast	80-100	60
Cow Peas, drilled	50-60	60
Emmer	50-75	40
Flax	30-40	56
Hullless Oats	50	54
Kaffir Corn, drilled	4-6	65
Kaffir Corn, broadcast	25	56
Meadow Fescue	15-20	24
Millet, German	25-30	50
Oat Grass, tall	20-25	14
Oats	80-120	40
Onion Sets	375-400	32
Orchard Grass	25-30	14
Pasture Mixture	20-25	
Peas, Garden	75-90	56
Potatoes	600-1000	60
Rape, broadcast	8-10	60
Red Top	12-15	
Rye	66-80	56
Rye Grass, Italian	20-25	24
Rye Grass, perennial	20-25	24
Soy Beans	20-25	60

Handy Table for Planters—Cont.

	Pounds Per Acre	Pounds Per Bu.
Sunflower, Russian	3-4	24
Timothy	8-10	45
Vetch, Winter	60	60
Vetch, Spring	100	60
Wheat	100-140	60

Rules for Measuring Hay in Stack

Rule—Take the width from the over, then divide by 2; then multiply by the width and length of the stack and the result will be the number of cubic feet in the stack. Divide the number of cubic feet in the stack by 512, or, if the stack is well settled divide by 422.

Table to assist farmers and gardeners in making an accurate estimate of the amount of land in different fields under cultivation:

10 rods x 16 rods equal	1 acre
8 rods x 20 rods equal	1 acre
5 rods x 32 rods equal	1 acre
4 rods x 40 rods equal	1 acre
5 yards x 968 yards equal	1 acre
10 yards x 484 yards equal	1 acre
40 yards x 121 yards equal	1 acre
209 feet x 209 feet equal	1 acre
200 feet x 108.9 feet equal	1/2 acre
100 feet x 145.2 feet equal	1/3 acre
100 feet x 108.9 feet equal	1/4 acre

To Measure Ear Corn in Crib

Find the length, breadth and depth of the body of the corn in feet and multiply these three dimensions together, then multiply this product by .63. This will give the heaped bushels of ears. Sometimes 1 1/2 bushels of ears are allowed for a bushel of shelled corn, and sometimes 2 bushels, the amount depending upon the shape of the ear, the size of the cob, etc.

Number of Plants to an Acre

Set at regular distances apart.

Distance Apart	No. Plants
3 in. by 4 in.	522,720
4 in. by 4 in.	392,040
6 in. by 6 in.	174,240
1 ft. by 1 ft.	43,560
1 1/2 ft. by 1 1/2 ft.	19,360
2 ft. by 1 ft.	21,780
2 ft. by 2 ft.	10,890
2 1/2 ft. by 2 1/2 ft.	6,960
3 ft. by 1 ft.	14,520
3 ft. by 2 ft.	7,260
3 ft. by 3 ft.	4,840
3 1/2 ft. by 3 1/2 ft.	3,555
4 ft. by 1 ft.	10,890
4 ft. by 2 ft.	3,630
4 ft. by 4 ft.	2,722
4 1/2 ft. by 4 1/2 ft.	2,150
5 ft. by 1 ft.	8,712
5 ft. by 2 ft.	4,356
5 ft. by 3 ft.	3,904
5 ft. by 4 ft.	2,178
5 ft. by 5 ft.	1,742
5 1/2 ft. by 5 1/2 ft.	1,440
6 ft. by 6 ft.	1,200
6 1/2 ft. by 6 1/2 ft.	1,031
7 ft. by 7 ft.	888
8 ft. by 8 ft.	680
8 ft. by 9 ft.	537
10 ft. by 10 ft.	435
11 ft. by 11 ft.	360
12 ft. by 12 ft.	302

RULE—Multiply the distance in feet between rows by the distance the plants are apart in the rows, and the product will be the number of square feet for each plant or hill; which divided into number of square feet (43,560), will give the number of plants to the acre.



1938 Price Reductions

AGAIN MARKS LOWEST PRICE in NITRAGIN HISTORY

Fresh Each Year—High Count

Only 50¢

Per 1 BU SIZE ALFALFA and CLOVER



ESTABLISHED in 1898 39 YEARS OF SERVICE

NITRAGIN INOCULATION PRICES

When Ordering, ALWAYS State Name of Seed

ALFALFA, all CLOVERS		LESPEDEZA	
Size	Price	Unhulled or Hulled	Price
1/2 bu. ea. ....	.30	1 bu. ea. ....	.30
1 bu. ea. ....	.50	2 bu. ea. ....	.50
2 1/2 bu. ea.	1.00	5 bu. ea.	1.00
VETCH, AUSTRIAN PEAS, CANADIAN PEAS, BEANS			
1/2 bu. ea. ....	.25	PEANUTS, SOY BEANS, COW PEAS, LIMA BEANS	
1 bu. ea. ....	.40	1 bu. ea. ....	.30
*1 1/3 bu. (100 lb. size) ea. ....	.60	2 bu. ea. ....	.50
5 bu. ea.	1.70	5 bu. ea.	1.00
*12 1/2 bu. ea.	4.00	10 bu. ea.	1.60
*100 lb. size and 12 1/2 bu. size packed only for Vetch and Peas		*25 bu. ea.	3.00
		*25 bu. size packed only for Soy Beans, Cow Peas, Peanuts	

NITRAGIN GARDEN SIZE for Garden Peas, Beans, Sweet Peas, Lima Beans and Lupines. Retail Price.....10c each.

BUILD UP YOUR SOIL

Inoculate Your Legumes with NITRAGIN

Make the most of your seed, soil and labor. Don't let legumes rob your soil—be sure they are soil builders!

Remember legumes NOT Inoculated are "SOIL ROBBERS" but legumes WELL Inoculated are "SOIL BUILDERS." Play Safe!

INOCULATE WITH NITRAGIN

NITRAGIN is an approved, moist soil culture—tested and guaranteed—easy to apply—packed with Billions of fresh bacteria—the cheapest legume crop insurance money can buy. Direction on every can.

With New Low Prices in 1938, you can afford to inoculate all your legumes with Nitragin

NITRAGIN — the Oldest and Most Widely Used Inoculator in America

FLOWER SEED SECTION

Flower Seeds
All
Postpaid



Beautify
the
Home

AGERATUM (Floss Flower)

One of the most popular summer blooming plants grown from seed, being literally covered with flowers from early summer until frost. Excellent for borders, edgings, rockery or pots. The taller varieties are fine for cutting. Do well in semi-shade.

Blue Perfection. Clear deep amethyst blue, of compact growth and the finest of all large flowering Ageratums. Height 1 foot. Pkt. 10c.

Fairy Pink. For description, see inside front cover.

ALYSSUM

Hardy annual; blossoms white, very fragrant. Bloom until late in fall. Pkt. 5c.

SNAPDRAGONS

The snapdragons, also known under the botanical name *Antirrhinum*. As a cut-flower, few annuals equal in brilliancy of color and beauty the glorious spikes of snapdragons. They are easily raised from seed sown indoors in March or outdoors the middle of April, and bloom profusely from June throughout the summer until frost. Pkt. 10c. Also:

Dreer's Silver Pink. 1/16 oz. 10c.

Dreer's Rose Giant. 1/16 oz. 10c.

Dreer's Yellow Giant. 1/16 oz. 10c.

Dreer's Giant Mixed. 1/16 oz. 10c.

Rose Sensation, R. P. For description, see inside front cover.

Rust Proof Snapdragons, California Giant Mixture. Certificate of Honor, All-America Selections, 1935. Even and compact in habit, of the popular majestic type, the plants are from 20 to 24 inches in height, and bear long spikes of close spaced, extra large florets. It comprises a fine, full color range, including exquisite shades of pink, rose, apricot, bronze, orange, light and deep yellow, scarlet, crimson and white. While not yet 100% resistant, the percentage is well above 75%. Pkt. 15c.

AQUILEGIA or COLUMBINE

Aquilegias or Columbines are among the most beautiful of hardy spring and early summer flowers. They are very effective when growing in the herbaceous border and make charming specimens for vases and table decorations. The flowers range from pure white and yellow to deep blue, through all shades with combinations of white and yellow, white and blue, etc. Blooms in June. Pkt. 10c.

ARCTOTIS (Blue-Eyed African Daisy)

This is a sun loving plant better suited to American conditions than any other African Daisy. The petals are white with light lilac backs, radiating from a steel blue and yellow center. Thrives in dry places.

Grandis. Pkt. 10c.

CREGO'S GIANT ASTERS

Wilt Resistant

This type enjoys the greatest popularity with American gardeners wherever Asters can be grown. The flowers are of immense size, usually measuring 4 to 5 inches in diameter, and are borne on stems 12 inches or more in length. The petals of the flowers are most attractively curved and twisted, resembling in looseness an ostrich feather. The plants are of strong branching growth, and measure 2 to 2½ feet high. They bloom during midseason.

Giant Deep Rose

Giant Azure Blue

Giant Crimson

Giant Purple

Giant Shell Pink

Giant White

Giant Violet

Giant Salmon Queen

Giant Mixed

Any of above separate colors. Pkt. 10c; ¼ oz. 35c.

Special. Six packets. (One each of White, Azure Blue, Shell Pink, Crimson, Deep Rose, and Violet, Value 90c) for only 50c.



ASTER, CREGO GIANT

CALIFORNIA GIANT ASTERS

A marvelous midseason to late-flowering type with plants growing 3 to 3½ feet high. Has magnificent curled and interlaced flowers measuring 5 inches or more in diameter carried gracefully on splendid strong stems.

Dark Purple
 Carmine Rose
 Peach Blossom
 Deep Rose

White
 Apple Blossom
 Light Purple
 Mixed

Pkt. 15c; ¼ oz. 50c.

Aster Super Giant El Monte. Special Mention, All-America Selections, 1936. El Monte was awarded the highest rank of all the new Aster seedlings placed in competition in 1935. Deep glowing crimson, composed of abundant quantities of daintily interlaced plume-like petals, the flowers are extremely large and fluffy, borne on heavy non-lateral, basal branched stems. It is very early blooming, and remains in flower over a long period. Pkt. 15c.

BACHELOR BUTTON (Centaurea Cyanus)

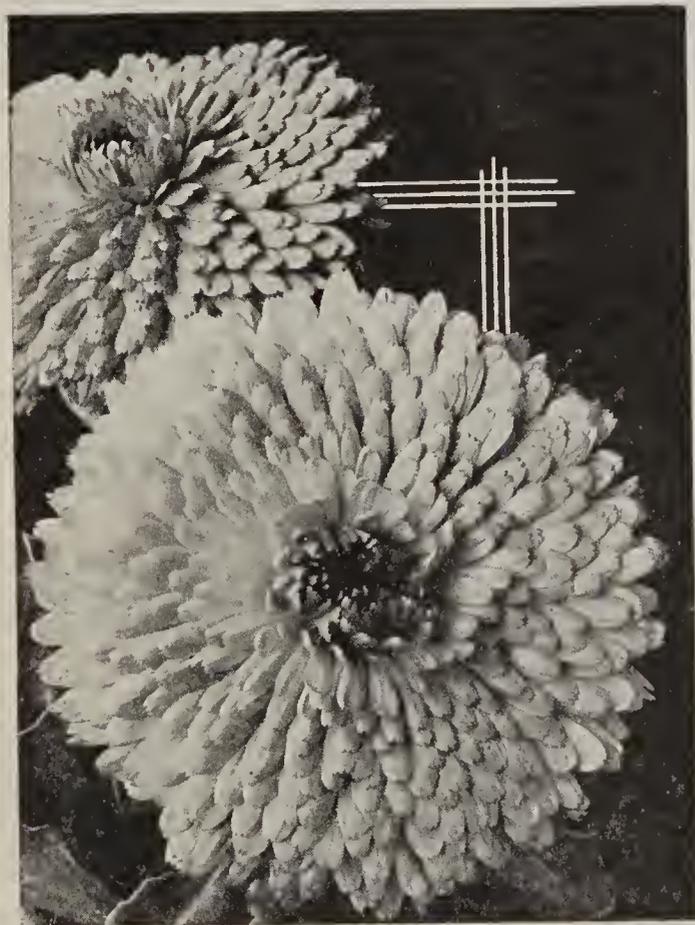
Also called Cornflower, Ragged Sailor and Blue Bottle. Pkt. 5c.

BALSAM (Lady Slippers)

One of the oldest garden flowers. The brilliantly colored flowers are produced in great profusion. They are of easy culture but should have good soil and plenty of room to develop. They are tender annuals and should be started indoors in April or sown outdoors in May. Pkt. 5c and 10c.

BEANS, Various Colors

Ornamental climbers for porch and trellis. Scarlet Runner, White Runner. Pkt. 5c. Tri-color, pkt. 10c.



CALENDULA, CAMPFIRE

CALENDULA (Scotch Marigold)

The colorful flowers make a wonderful display in the garden and are always admired by those who see them. Blooms freely in early summer and continues into the fall. Even though

this plant prefers a sunny location and rather dry soil, it does well under widely different conditions, requiring little care to grow to perfection. 18 to 24 inches in height.

Double Mixed. Pkt. 10c.

Campfire Improved. The color is well known, a very deep strong orange with a distinct scarlet sheen on the upper side of each petal. Blooms are flat across the top and measure at least 4 inches in diameter. The plants are strong growing and even in habit, with exceptionally long heavy cutting stems, produced in generous quantity on each plant. Pkt. 15c.

Radio. A late English introduction, a distinct new break. Flowers very full, petals quilled. Color a rich glowing orange. Pkt. 10c.

CALLIOPSIS

A very showy border plant, producing flowers nearly every shade of yellow, orange, crimson, red and brown. If the seed pods are removed as fast as they appear, the plant will remain in bloom much longer. Height 2 feet. Hardy annual. Mixed colors, pkt. 5c and 10c.

CANDYTUFT

All the colors of Candytuft are desirable for bouquets, especially the white, for its form, fragrance and profusion of bloom. Height 1 foot. Hardy annual. Mixed colors, pkt. 5c.

CANNA

Stately plants with foliage of excellent growth, presenting a luxuriant and tropical appearance. Giant-flowered, mixed. Pierce the seed in one spot with a file and soak in lukewarm water for 24 hours before sowing. Pkt. 10c.

CANTERBURY BELL (Campanula Medium)

Handsome, hardy biennial of stately growth, rich color and profuse bloom. Has large, bell-shaped flowers. Height 2 to 4 feet. Finest mixed, all colors of the cup and saucer type. Pkt. 10c.

CARNATION (Dianthus)

Carnations can be grown successfully in the garden. Every lover of flowers should have some carnations in the garden. Splendid for pot culture for winter. Pkt. 10c.

MARGUERITE CARNATION

Flowers in a few weeks from the time of sowing and produces beautifully fringed and wonderfully fragrant flowers. With a slight covering they will survive an ordinary winter and bloom again in the spring. Pkt. 10c.

CASTOR BEAN (Ricinus)

Tall, majestic plants for lawns or driveways, with broad, beautifully lobed, palm-like leaves of glossy green, brown or bronzed metallic hue and long spikes of scarlet, or of green, prickly seed pods. Makes a rapid, vigorous growth in rich soil. Sow seed outdoors after danger from frost is over. Pkt. 5c and 10c.

EARLY ANNUAL CHRYSANTHEMUM

The plants can be raised by sowing the seed early in the house or frame, and planting them out when the weather is favorable, or the seed can be sown where the plant is to stand. Mixed, pkt. 10c.

CONVOLVULUS MAJOR (Tall Morning Glory)

This well known annual is one of the most popular climbers. Of rapid growth. A great variety of colors and shades. Height 10 feet. Hardy annual. Mixed colors, pkt. 5c.

IMPERIAL JAPANESE MORNING GLORY

The flowers are of immense size and strong colors. Soak seed before planting. Mixed colors, pkt. 5c.

Clark's Heavenly Blue Morning Glory. For description, see inside back cover.

COSMOS

No garden is complete without Cosmos. These old favorites supply a gorgeous, colorful effect during late summer and fall. Fine for cutting as the flowers last well in water. Cosmos are easy to grow.

Early Klondyke Orange Flare. Grand Champion Gold Medal, All-America Selections, 1935. The long stemmed flowers of bright vivid orange are freely borne on 2 to 3 foot plants. Its most remarkable feature, however, is its early blooming habit. It blooms from mid-summer until frost. **Pkt. 10c.**

Early Single. Grows 5 feet tall and blooms several weeks before the late-flowering varieties. Flowers 3 inches across.

Mixed. Pkt. 10c.

Sensation Pinkie. For description, see inside back cover.

COXCOMB (Celocia Cristata)

There are many colors and shapes, but the scarlet and crimson ones are the most brilliant and rich. Height 1 to 3 feet. Tender annual. Dwarf mixed colors, **pkt. 10c.**

CYPRESS VINE (Ipomoea Quamoclit)

Bears an abundance of small scarlet and white flowers which contrast beautifully with the green leaves. Tender annual growing to a height of 12 feet. **Pkt. 10c.**

DAHLIA

From seed in many bright colors.
Decorative Mixed. **Pkt. 25c.**
Large Flowered Double. **Pkt. 20c.**
Cactus Flowered Mixed. **Pkt. 20c.**
Pompon Mixed. **Pkt. 25c.**
Peony Flowered Mixed. **Pkt. 25c.**
Coltness Gem. **Pkt. 25c.**
Coltness Hybrids. **Pkt. 15c.**
Unwin's Dwarf Hybrids. **Pkt. 15c.**

DOUBLE DAISY (Bellis Perenis)

Charming little plants for edging and borders. The flowers are quilled and flat-petaled, with white, pink, red and variegated. Not all will come double from the seed, and the single ones should be pulled out. Height 6 inches. Tender perennial. **Pkt. 10c.**

DELPHINIUM

One of the greatest charms of hardy Larkspurs is in their shades of blue which range from soft rosy lavender to violet and deepest indigo. The dwarfs are valuable in the border while the magnificent tall varieties are stately and beautiful in front of a shrubbery background. Above the deeply cut dark green leaves rise long floral spikes.

Tall Hybrids. Handsome sorts adapted to backgrounds. Plants grow from early sown seed will flower late the first season, but reach their full development the second year and thereafter. 5 feet. **Pkt. 15c.**

Blackmore and Langdon Hybrids. Latest and highest development of the Hollyhock type of Delphinium. Very large single, semi-double, and double flowers. All the pastel shades from very light blue to indigo. **Pkt. 25c.**

FEVERFEW (Matricaria Capensis)

A free-blooming, half hardy, perennial plant of about 18 inches high. Bears many clusters of double pure white flowers about three-quarters inch in diameter. Seed sown in early spring in the open will bloom by fall. **Pkt. 10c.**

FORGET-ME-NOT (Myosotis Alpestris)

The delicate blue flowers appear all summer. Height 6 inches. Hardy perennial. **Pkt. 10c.**

FOUR O'CLOCK, Marvel of Peru or Mirabilis Jalapa

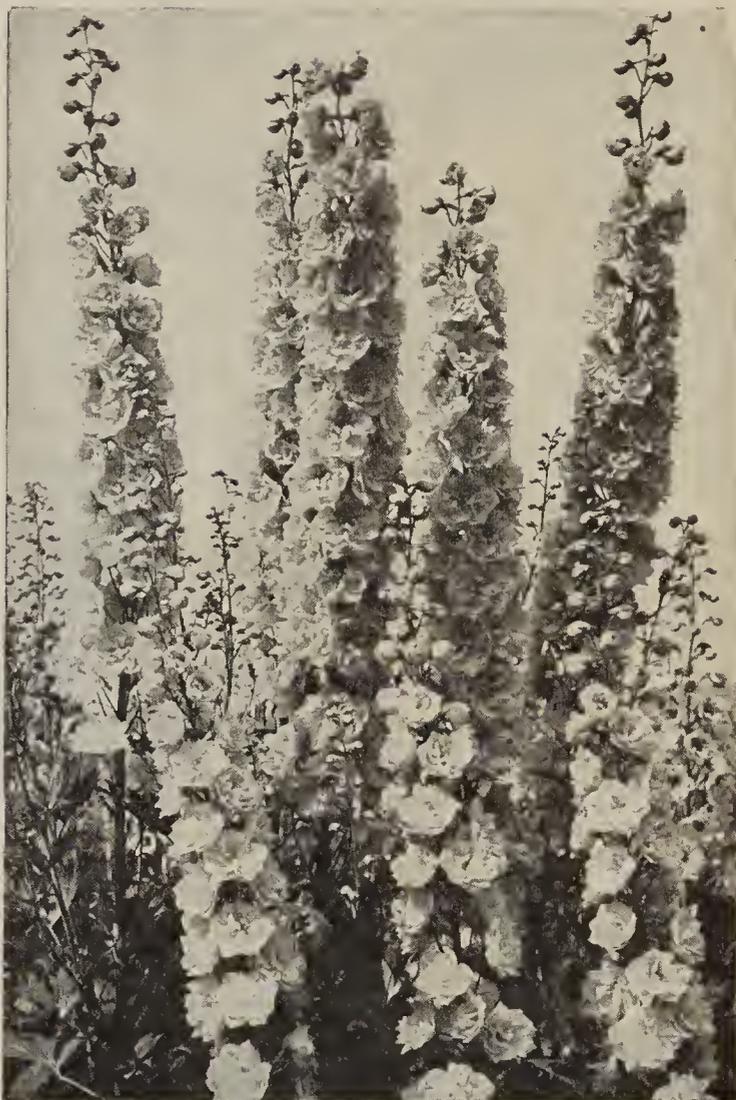
Flowers open about four in the afternoon and then remain open until about nine the next morning. The blossoms are marbled and spotted in the most diversified manner and different colored flowers are even found on one plant. Height 2 to 3 feet. Hardy annuals. **Pkt. 5c; oz. 15c.**

GAILLARDIA (Blanket Flower)

Splendid showy annuals. They are in bloom from early summer until frost. Unexcelled for beds, borders, or for cuttings; should be sown where they are to bloom. Height 18 inches. **Pkt. 10c.**

GERANIUM

We know of no plant that is better known or more universally admired than the geranium. Commonly propagated by cuttings but may also be grown from seed which is very interesting. **Pkt. 15c.**



DELPHINIUM, BLACKMORE & LANGDON HYBRIDS

GEUM (Avens)

Atrosanguineum fl. pl. Beautiful hardy perennials, bearing profusely large, showy, double, dark crimson flowers all through the summer. An elegant flower for bouquets. **Pkt. 10c.**

Mrs. Bradshaw. Large, double, brilliant orange-scarlet. In flower throughout the entire summer. **Pkt. 15c.**

GLADIOLI

One of the most popular of summer flowering bulbs. Easy to grow and will do well in most any location.

Mixed Varieties. We offer mixed select gladiolas, all 1½ inch or larger. **50c per doz.; \$2.50 per 100.**

If special named varieties are desired please specify and we will supply at slightly advanced prices.

GOURDS

A great variety of curiously formed and marked fruits, vines are of rapid growth and with luxuriant foliage. Adapted for covering screens, arbors, etc. Height 10 to 12 feet. All kinds. **Mixed, pkt. 5c.**

GYPSOPHILA

Delicate, free-flowering plants covered with star-shaped flowers, valuable for mist-effects and as trimming in bouquets. Sometimes called Baby's Breath. Will thrive in almost any well prepared ground. **Elegant large flowering pure white.** An improved large flowering strain, superior to the common Elegans not only in size of flowers but also in color. Annual. **Pkt. 10c.**

Paniculata. Perennial, white. **Pkt. 10c.**

HELIOTROPE

Everyone loves the delicate fragrance and beauty of the heliotrope, but few know that it can be raised from seed as easily as the verbenas. To insure a long period of bloom, seed should be sown early indoors. **Lemoines Giant, superb mixed, pkt. 10c.**

HOLLYHOCK (Althaea Rosea)

The large, richly colored blossoms, about 3 inches across, ranging from deep yellow and red to pure white, are set as rosettes around the strong growing flower stalks. Sow seed in June or July, in open ground, and in the autumn transplant to permanent position 2 or 3 feet apart. The following summer they will bloom. All double varieties are hardy perennials; 5 feet high. Pkt. 10c.

HYACINTH BEAN (Dolichos Lablab)

Splendid climbers with abundant clustered spikes of purple and white flowers, which are followed by exceedingly ornamental seed pods. A very rapid grower. The usual growth is from 10 to 20 feet but it often grows as much as 30 feet. Tender annual. Pkt. 10c.

JAPANESE HOP (Humulus Japonicus)

A rapid growing, perfectly hardy annual climber of the hop family, of the easiest culture and indispensable for covering unsightly objects or verandas, trellises, etc. Variegated leaves. Pkt. 10c.



LARKSPUR, WHITE KING

LARKSPUR (Annual)

Annual Delphiniums are adorned with finely cut, feathery foliage of soft green which sets off to advantage the handsome long floral spikes of double blossoms. The colors are very satisfying for they range from pure white through soft shades of lavender and pink to deep blue.

Giant Imperial. Tall, upright, compact, basal branching in habit, the Giant Imperials have superseded all other types of Larkspurs for general garden use. Their delphinium-like spikes of double florets are carried on stout stems 4 to 5 feet tall. **Finest Mixed.** Pkt. 10c.

White King. Special Mention, All-America Selections, 1937. The flowers are a pure, glistening white, with extremely large double florets, sometimes measuring 2 inches across, evenly spaced on the stem. An early bloomer and the finest of Larkspurs. Pkt. 15c.

Coral King. Coral King was a running mate to White King for All-America recognition. It has the same form and size and is different only in color—a beautiful coral pink. Pkt. 15c.

LINARIA (Kenilworth Ivy)

This grows readily from seed and is one of the finest plants for edges of vases or hanging baskets, as well as for pot plants in the house, or for planting out on rock-work. Pkt. 10c.

LOBELIA (Crystal Palace)

Plants of dwarf compact growth, bearing a profusion of delicate blue flowers. In bloom through the summer and autumn. Height 6 inches. Half hardy annual. Pkt. 10c.

Lobelia Speciosa. Rich ultramarine blue flowers; trailing; 9 inches high. Pkt. 10c.

MARIGOLD

Tall African. The plants grow 2½ feet high, and produce a profusion of large double flowers, 2 to 3 inches in diameter. Sow in shallow drills in the open garden early in the spring after all danger of frost is over. They bloom from July until frost and delight in rich soil. Pkt. 10c.

New Collarette. For description, see inside front cover.

Gigantea Sunset Giants. For description, see inside back cover.

Guinea Gold (African). Carnation-like petals and unusually brilliant golden color makes this flower outstanding among Marigolds. It lacks much of the pungent odor of other Mari-

golds. The plant blooms very freely, and practically all of the flowers are double. 2 feet. Pkt. 10c.

Dwarf French. This Dwarf French class forms ball-like bushes, 12 to 15 inches in height, with finely cut, fern-like foliage. This class is unsurpassed for borders, beginning to bloom in July and lasting until late in the fall. Pkt. 5c.

Yellow Supreme. Gold Medal, All-America Selections, 1935. It is a companion flower of Guinea Gold. The color is a delightful light lemon yellow, flowers medium sized, loosely ruffled or carnation type. Plants are free-blooming, 2 feet tall. Pkt. 10c.

MOONFLOWER (Ipomoea Mexicana)

Grandiflora (White). One of the most rapid of summer climbers. One plant will cover with a dense mass of leaves a trellis 30 feet high and 6 feet wide. Beautiful, wax-like flowers open at night and on cloudy days. The seed has a very hard shell and should be filed before planting. Tender annual. Pkt. 10c.

Rubro-coerulea (Heavenly Blue). This splendid variety has very large blooms of a rich sky blue color. It does best in a warm sunny situation and a soil with good drainage. Pkt. 10c.

MOURNING BRIDE (Scabiosa or Sweet Scabious)

An old-fashioned but most attractive flower. Desirable for cutting as well as for beds and borders. Flower heads about 2 inches across; florets double, surrounding the thimble-shaped cone. Pkt. 10c.

Giant Salmon Beauty. For description, see inside front cover.



NASTURTIUM, DOUBLE GLEAM

NASTURTIUMS

Double Golden Gleam. Sweet-scented Nasturtium. A new creation received with enthusiasm by all flower lovers. Blooms are of intense golden yellow color, splendid for the garden and peerless for cutting because of the striking color and fragrance. Pkt. 10c; oz. 20c; 6 oz. \$1.00.

Tall Nasturtiums. Usually used for arbor or trellis planting, but do equally well for mass planting without supports. On a trellis they will grow to a height of 6 to 10 feet. Oz. 10c; pkt. 5c.

Dwarf Nasturtiums. The dwarf varieties are excellent for borders, along paths, and for pot culture. They grow to be about a foot high and are in constant bloom. Oz. 10c; pkt. 5c.

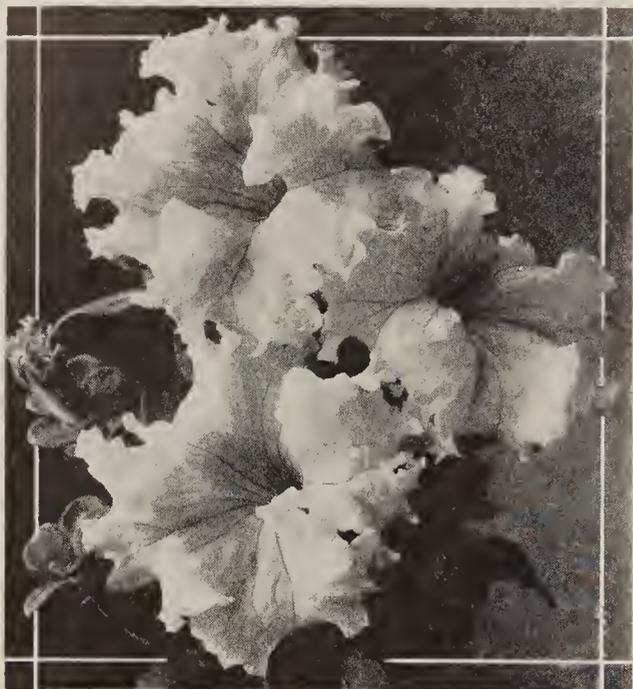
Bodgers' Double Glorious Gleam Hybrids. Finest mixed. The flowers are fine, large, well balanced, sweet scented doubles of the same type as the well known Golden Gleam. Many colors are represented. Pkt. 10c; oz. 20c.

GIANT PANSIES

They flourish in a cool, rich, moist soil and a situation that protects them from the cutting winds as well as the bright sun. To get the best results, pansies should be sown in July or August and protected with a cold frame, soft hay or manure. The seed may also be sown indoors in January or February, or in the spring in the open ground.

Extra Fine Bedding Pansies Mixed. These are valuable for making beds where the size of the individual flower does not count much. They are of stocky growth, and the plants are covered with blooms during the entire summer. They flower profusely from seed sown in the open early in the spring. Our mixture contains a remarkably large number of different colors. Pkt. 10c.

Mastodon Miracle Mixed Pansies. Immense and well-shaped flowers with thick and well-waved petals. Includes everything from pure white to deep mahogany. The very fine lavender, rose, cerise, and light blue shades deserve special mention. Pkt. 25c.



PETUNIA DAINTY LADY

PETUNIA

Petunias are unsurpassed for massing in beds. They are also used along walks and driveways and are often grown in window boxes. Their richness of color, duration of bloom and easy culture will always make them popular. In some strains the flowers are very large, measuring 4 to 5 inches across; in others, they are deeply fringed; still others have star-like markings radiating from the throat and extending nearly or quite to the outer margin of the blossom; again, others have full, double flowers. The colors range from white to deep red-purple and are variously striped and blotched.

Single Flowering Bedding Varieties, pkt. 10c.

Dreer's Superb Double Fringed Petunia. Said to be one of the finest strains in the world producing a large percentage of double flowers very large and deep fringed in many bright colors. **Pkt. 50c.**

Dreer's Balcony Blue. Velvety indigo blue. **Pkt. 15c.**

Dreer's Balcony Rose. Brilliant rose pink. **Pkt. 15c.**

Dreer's Balcony Crimson. Rich velvety crimson. **Pkt. 15c.**

Dreer's Balcony Mixed. Containing all colors. **Pkt. 15c.**

Elks' Pride. Rich royal purple **Pkt. 25c.**

Rosy Morn. Soft rose pink blooms, white throat. **Pkt. 15c.**

Giant of California. For description, see inside back cover.

Petunia Single Fringed Dainty Lady. Award of Merit, All-America Selections, 1936. Dainty Lady, a new yellow Petunia, has proved itself a winner from the very start. It was granted Awards of Merit in both Europe and America as soon as it was introduced, and has occasioned favorable comment wherever exhibited or grown. The flowers are of medium size and daintily fringed, delicate light yellow deepening to golden yellow at the throat. The strain comes exceptionally true to color. The plants are neat, compact, somewhat upright in habit, semi-dwarf and very free flowering. Dainty Lady is excellent for border use, for bedding, for use in window boxes and as a cut flower. Dainty Lady is especially effective when combined with one of the purple Petunias, such as *Violacea Marine* or *Elk's Pride*. **Pkt. 25c.**

PHLOX DRUMMONDI (Large Flowering)

The plants are hardy bush-like annuals with many broad flat-topped clusters of nearly round and star-shaped flowers. They are of easiest culture and bloom profusely through a long season. **Pkt. 10c.**

PHYSALIS FRANCHETI (Chinese Lantern Plant)

This hardy biennial plant grows to a height of about 2 feet and is a profuse bloomer, producing many large, striking flowers of a beautiful, brilliant orange red color resembling Chinese lanterns in shape. **Francheti. Pkt. 10c.**

PINKS (Dianthus)

Seed sown out of doors when danger of frost is past will produce plants that bear flowers in a few weeks time. Bloom constantly from July until frost and if covered, will bloom again the second season. **Dianthus Chinensis** (Double China), mixed, **pkt. 10c.**

CALIFORNIA POPPY

The true golden yellow strain. This is the state flower of California. **Pkt. 10c.**

California Mixed. An excellent mixture producing deep yellow, creamy white, scarlet and orange flowers. **Pkt. 5c.**

ICELAND POPPY

These are hardy perennials which will flower the first year from seed. The foliage is fern-like, the plants of neat, compact growth and send up slender stalks about 12 inches high bearing brilliantly colored flowers. If the flowers are picked daily the plants will bear all season. They will continue to bear from year to year. **Pkt. 10c.**

ORIENTAL POPPY

For brilliancy of color there is nothing that quite equals the Oriental Poppy. The flowers are of enormous size, often 6 inches in diameter and the colors range from soft pink to dazzling scarlet and deep maroon. Especially adapted to mass planting and in hardy borders with shrubs or other perennials. The seed should be sown in the early spring in the open ground. The plant disappears during July and August, appearing again as soon as weather gets cool. The plants will increase in size from year to year. **Pkt. 10c.**

SHIRLEY POPPIES

Splendid strain of annual poppies of the greatest of color. The flowers range from pure white to maroon with all intermediate shadings and all combinations imaginable. Of easy culture and free bloomers. **Pkt. 10c.**

Poppy Nudicaule "The Emperor". Truly regal among this exceptional group of Poppies, The Emperor stands forth in a class by itself. It is without a doubt the very finest orange Iceland Poppy ever produced, with extremely large fluted petaled flowers composed of broad, overlapping petals, many flowers having extra petals. The strong, straight stems are very wiry, 18 to 22 inches long, and bear the large flowers majestically whether in the garden or when used for cutting. A perennial, it blooms freely the first year from seed. **Pkt. 25c.**

SINGLE AND DOUBLE POPPIES MIXED

A fine collection of the best annual varieties. Plant these in a mass or row and you will get a beautiful effect. **Pkt. 10c.**

PORTULACA

Sometimes called Moss Rose. Few flowers make such a dazzling display of color in the bright sunshine as a bed of Portulacas. Desirable also for edgings. They are in bloom through a long season. **Pkt. 10c.**

Double Portulaca. Pkt. 10c.

SALPIGLOSSIS

Flowers of the richest colors—blue, crimson, yellow, purple, scarlet, etc., with texture like rich velvet; each petal beautifully penciled. Splendid for bouquets. Height 2 feet. **Mixed colors, pkt. 10c.**

SALVIA (Flowering Sage)

Blooms are borne in long spikes well above the foliage and are of fiery red, crimson, continuing in flower a long time. The densely filled flower spikes are often 8 to 10 inches long and include 30 or more tube-like florets, 1 to 2 inches in length. **Pkt. 10c.**

STOCKS (Ten Weeks)

Plants grow about 1 foot high, making a compact bush, covered with splendid spikes of blossoms from July until frost. Half hardy annual. Height 1 foot. **Double mixed, pkt. 10c.**

SWEET PEAS, New Early Flowering Spencers

CULTURE—Sweet Peas do best in good, rich soil that is inclined to be a little clayey. Fall is the best time to prepare the soil, especially if manure is used. Pea vines like moist soil and often the heat originated by the manure combined with the heat from the sun is too much for the vines. They turn yellow and die. Use a good commercial fertilizer or else apply the manure in the fall. Dig a trench a foot deep and about 16 inches wide and mix in this about 6 inches of top soil with good manure or commercial fertilizer. Plant the seeds in this trench in two rows, dropping the seeds about 2 inches apart. Cover 2 inches deep and then gradually fill the trench as the plants grow. The trench should be made so that water will drain off. The seed should be planted just as early in the spring as possible, as late sowing produces rank growth but few flowers. Provide a trellis, wire or brush for the vines to climb on and pick the flowers every day. An application of bone meal and nitrate of soda will hasten the blooming time.

If you want your sweet peas to do wonderfully well use Nitragin. **Garden size, 10c.**

SPENCER SWEET PEAS

Plant the Spencer varieties and have the best. The seeds cost a little more but they require no more land nor labor and the flowers are much larger and much more beautiful. If you will try the Spencers you will be pleased.

All Colors: Pkt. 10c; oz. 25c.

PINK SHADES

Beauty. This is the largest and most vigorous blush pink Sweet Pea in existence and will displace all other varieties of similar color.

Floradale. A most artistic flower of rich salmon-pink on cream ground. It received the Award of Merit of the National Sweet Pea Society of Great Britain.

Jack Hobbs. Cream-pink, flushed scarlet. One of the largest Sweet Peas ever introduced. Gold Medal. Award of Merit, National Sweet Pea Society Trials.

Pinkie. Rose-pink with large and frilled flowers. This variety is seldom affected by weather conditions and first-class blooms can be cut all during its long blooming period. Silver Medal, Scottish National Sweet Pea Trials.

LAVENDER AND BLUE SHADES

Ambition. Rich deep lavender, with a darker shade on the base of the standard and wings when young, lessening as the bloom ages. Gold Medal and Award of Merit, National Sweet Pea Society Trials.

Blue Bell. Clear bright blue with a slight tinge of mauve on the standard.

Gleneagles. A most beautiful tone of light blue with just a suggestion of lavender. The flowers are exceptionally large; the standard broad and well expanded and frilled and waved to an extraordinary degree.

The Admiral. Largest and best navy blue. The color is richer and deeper than Fortune. Award of Merit, Scottish National Sweet Pea Trials. Award of Merit, Royal Horticultural Society.



EARLY FLOWERING SPENCER SWEET PEA

WHITE AND CREAM SHADES

Sextet Queen. Pure white flowers of perfect form and of great substance. Normally produces five-flowered stems when grown under ordinary conditions. Black seeded. Award of Merit, National Sweet Pea Society Trials.

What Joy. Primrose, shading to cream. A charming tone and so far the nearest approach to a true yellow.

ORANGE AND SALMON SHADES

George Shayer. A giant orange pink, the standard showing more orange than the wings. The flowers are perfectly formed and nicely placed. Award of Merit, National Sweet Pea Society and the Royal Horticultural Society.

Pirate Gold. Golden orange, deeper than Guinea Gold and lighter than Prince of Orange. It withstands hot sun better than any other variety in this color class. Its distinct color is the most pleasing of the golden orange group.

Smiles. Clear glistening salmon, best describes this exquisite variety. The large flowers are beautifully waved and fluted. Award of Merit.

CERISE SHADES

Beatall. Pale blush cerise with a suffusion of salmon and rose. A very rich and charming Sweet Pea.

Flamingo. Orange and scarlet, heavily shaded cerise. Absolutely sunproof. Certificate of Merit and Silver Medal, Scottish National Sweet Pea Society Trials.

Mrs. A. Searles. Salmon-cerise, merging into a soft oriental-red. A remarkable and distinct color. No collection is complete without this beautiful Sweet Pea.

RED SHADES

Red Boy. The very best crimson. It is a first class Sweet Pea for all purposes, especially for general garden culture. Award of Merit.

Sybil Henshaw. Glowing blood-red. This has superseded King Edward Spencer as the standard crimson.

Welcome. By far the best and most brilliant, dazzling, scarlet Sweet Pea. For exhibition or gardens it is supreme. Absolutely sunproof. Silver Medal, Scottish National Sweet Pea Society Trials.

MAROON AND PURPLE SHADES

Warrior. Rich chocolate maroon. A magnificent variety which has held its place and popularity for a number of years. variety, bright and showy colors. Pkt. 10c; oz. 20c.

OTHER SHADES

King White. Best pure white	Fiery Cross. Orange
Daffodil. Cream color	Morning Glow. Orange scarlet
Lampoc. Soft pink, creamy edge	Guinea Gold. Golden orange
Lady Ruffles. Giant ruffles, soft pink, on white ground	Crimson King. True crimson
Valentine. Blush pink	Ruffled Rose. Rich rose color
Deeper Hercules. Deep pink	Fordhook. Light violet blue.
Ophelia. Shaded light apricot	Regal Purple. Royal purple
Barbara. Pure salmon	Lock Lomond. Mahogany shaded
Michael. Salmon orange	The Clown. Crimson and white

Our Special Blend. The cream of the finest named Orchid or Spencer Sweet Peas. It is the very best mixture possible to produce today and will surely delight all who want a grand variety, bright and showy colors. Pkt. 10c; oz. 25c; lb. \$2.75.

Giant Ruffled Sweet Peas. A splendid mixture of the finest ruffled sweet peas. Pkt. 15c.

SWEET SULTAN (Centura Moscharta)

A handsome annual with fragrant flowers, borne on long slender stems. Their fragrance and habits of growth adapt them finely for bouquets. In bloom from July to October. Height 2 feet. Mixed, pkt. 10c.

SWEET WILLIAM (Dianthus Barbatius)

A great variety of rich colors, eyed and variegated with other shades, forming large trusses of blooms, remaining a long time in blossom. Hardy perennial. Height 18 inches. Double mixed, pkt. 10c.

THUNBERGIA (Blackeyed Susan)

A very elegant, slender-growing climber from Africa, rapidly covering wire trellises and also useful for vases in the garden or house. They are very attractive if grown simply trailing on the ground. The colors are white, light yellow, and deep orange, and of each color there is a variety with white eye and also with black eye; the latter is often called "Blackeyed Susan". Blooms continuously from June until October. Sow the seed indoors in March or April, or outdoors in May. Pkt. 10c.

VERBENA

Blooms in a wide range of colors, shades and stripes, usually running from pure white to deep purple. Pkt. 10c.

WALLFLOWER

A fragrant, half hardy perennial. Their adaptability to both pot culture and outdoor planting, together with their fragrance makes them very popular. The coloring runs mainly to rich yellow, orange and purple, and is oriental in effect. Pkt. 10c.

WILD FLOWER GARDEN

This Wild Flower Garden is a mixture of a great many varieties which bloom throughout the season and provide many beautiful bouquets. Prepare the soil and sow the seed very thinly so as to give the plants a chance to develop properly. Pkt. 10c and 5c.

ZINNIA

One of the most showy and satisfactory of our hardy annuals for beds, mixed borders and for cutting purposes. Easy to grow in any good garden soil. They commence flowering early in the summer and continue until frost.

Double Dahlia Flowered. 2½ feet. Enormous double flowers are produced by robust branching plants. The flowers usually have slightly hollowed centers ringed with small tubular florets. The petals are quite loosely placed and tend to curl at the edges, giving the blossoms a crisp, fresh appearance.

Crimson Monarch. Deep crimson, large flowers. Pkt. 10c.

Dream. Deep rosy lavender. Pkt. 10c.

Exquisite. Light rose, deep rose center. Pkt. 10c.

Golden Dawn. Golden yellow. Pkt. 10c.

Oriole. Orange and gold bicolor. Pkt. 10c.

Polar Bear. White. Pkt. 10c.

Scarlet Flame. Bright scarlet. Pkt. 10c.

Mixed. Pkt. 10c.



ZINNIA, FANTASY STAR DUST

Fantasy, Star Dust. Award of Merit, All-America Selections, 1937. To those who definitely do like an informal Zinnia, Star Dust will be welcomed with enthusiasm. It has the same shaggy-petaled, medium-sized flower as the mixture—a deli-

cate, graceful bloom. The color is a rich deep golden yellow, while the very free flowering, 2½ to 3 foot plants are early blooming, coming into flower about 45 to 50 days from the time of planting. Pkt. 15c.

Fantasy Mixed Shades. Pkt. 10c.

Double Lilliput. 12 inches. A charming dwarf which is excellent for low borders or edgings. The plants are of tidy habit and produce a bounteous supply of very double pompon flowers about 1½ inches across. The colors are bright and well varied.

Mixed. Pkt. 10c.

Zinnia Crown O'Gold Desert Gold. Desert Gold is an aristocrat among Zinnias. The flowers are large, double and well formed, on good cutting stems, generously produced on plants which reach a height of 2½ to 3 feet. It is a good garden variety but its main claim to individuality and distinction is the delightful color combination of the flowers. The variety comprises the light and deep shades of gold while each petal is overlaid at the base with a deeper golden yellow. This bicolor effect is one of arresting beauty whether seen under artificial light or in daylight. Flowers will be produced about 60 days after the seed is planted. Pkt. 15c.

ROSE BUSHES

A select collection of 2 year old Roses, various colors, carefully packed and protected for shipment. Make first and second choice. Each 50c; 3 for \$1.25; Postpaid.

- Angele Pernet
- Autumn
- Chas. P. Killham
- Dame Edith Helen
- E. G. Hill
- Etoile De Hollande
- F. K. Druschki
- Golden Emblem
- Hadley
- Joanna Hill
- Miss Rowena Thom
- Paul's Scarlet
- American Beauty

- K. A. Victoria
- Lady Hillingdon
- Los Angeles
- Mme. Butterfly
- Mme. Ed. Herriot
- Mrs. E. P. Thom
- Pres. Hoover
- Radiance
- Red Radiance
- Talisman
- Golden Dawn
- Lady Margaret Stewart



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THIS MODERN PLANT FOOD MAKES IT EASY TO HAVE A LAWN LIKE THIS . . .

This year millions of new gardens will be made . . . a natural follow-up to the big building and remodeling program undertaken last year. We are prepared to guide and counsel inexperienced gardeners and will be glad to serve them with highest quality plants, seeds, and equipment.

Because undernourishment is one of the most common reasons for poor results with lawns, flowers, shrubs, and trees, we recommend regular feeding with Vigoro, the square meal for all plants.

Vigoro is the *complete plant food* made by Swift. It is clean, odorless, and sanitary; it contains every one of the 11 food elements that plants require! For lawns and gardens, feed Vigoro at the rate of 4 pounds per 100 square feet. Complete directions included in every bag and package. Vigoro is also the most economical plant food you can buy because so little is needed.

- 100-lb. Bag \$4.00
- 50-lb. Bag 2.25
- 25-lb. Bag 1.50
- 10-lb. Pkg. .85
- 5-lb. Pkg. .45
- 1-lb. Pkg. .10

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These flowers will need EVER GREEN, the non-poisonous insecticide that kills all insects, to protect them. Order now!

Use **EVER GREEN**
NON-POISONOUS INSECTICIDE *to*
PROTECT YOUR GARDEN

FERTILIZER SPREADER

Easiest and quickest way to apply fertilizer to your lawn or garden. Packed in a compact box. Full instructions; it is simple to operate. No wasting of fertilizer as it is efficient and does the fertilizing quickly. Price, 85c; postpaid, \$1.00.



- 4-oz. Cans . . . \$.30
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- 5-lb. Cans . . . 2.25
- 5-lb. Cans G.
Fumigant . . 3.00
- 25-lb. Tins in stock.

DUST AND GRANULATED

QUICKLY DESTROYS GARDEN PESTS!



Cutworms, Snails, Grasshoppers, Slugs, Sowbugs, Earwigs, Etc.

A GUARANTEED EXTERMINATOR

Snarol is a ready-prepared meal that you simply broadcast on the ground, under the vegetation. Pests eat it at night and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling. Thus it lasts longer and is more economical. Requires no preparation. It is non-injurious to vegetation when used according to simple directions.

1½-lb. pkg. 35c 4-lb. pkg. 85c

SNAROL

Ready to Use

Important!

Mr. Farmer — Read and Remember

**Tested
Disinfectants**



**Tested
Disinfectants**

Increase Your Profits - Treat Seed Grains, Etc.

With Bayer Semesan Products

**Increase Your Yields
IMPROVE THE QUALITY**

DIRECTIONS FOR USE ON EACH TIN — FOLLOW CAREFULLY

New Improved CERESAN—for Seed Grains



New Improved CERESAN is unusually effective for controlling bunt or stinking smut of wheat, loose and covered smuts of oats, covered smut and stripe of barley, and seedling blight caused by seed-borne scab. It costs but $1\frac{1}{8}$ to $2\frac{1}{8}$ cents a bushel of seed, as only $\frac{1}{2}$ ounce of dust is used. Is easily and quickly applied—requires only twenty revolutions in a rotary treater or three turnings with the shovel. It is non-injurious to the drill. Fre-

quently improves the stand of grain and increases yields. Reduces losses from smut and dockage.

Prices: 1-lb. tin, 70c; 5-lb. tin, \$3.00.

Caution—Treat 24 Hours Before Using.

New Improved SEMESAN BEL—for Seed Potatoes



One pound treats 60 to 80 bushels of seed. An instantaneous treatment requiring no time-consuming soaking. IMPROVED SEMESAN BEL is highly effective in controlling such destructive seed-borne diseases as scab and rhizoctonia. Protects the seed piece against rotting by soil organisms. Improves germination and usually produces a bigger crop of better quality.

Prices: 4-oz. tin, 45c; 1-lb. tin, \$1.50; 5-lb. tin, \$6.75; 25-lb. pail, \$31.00.

New Improved SEMESAN JR.—for Seed Corn



A simple, quick, inexpensive dust treatment with SEMESAN JR. destroys harmful disease organisms on the seed, protects seed from rotting in cold, wet soil, controls seedling blight, reduces root and stalk rots, and generally increases crop yields. Harmless to seed corn. Does not slow up rate of drop. Only 2 ounces necessary per bushel of seed field or sweet corn. Costs only $2\frac{1}{2}$ cents an acre.

Prices: 4-oz. tin, 30c; 1-lb. tin, 75c; 5-lb. tin, \$3.25.

SEMESAN—for Flower and Vegetable Seeds



Diseases carried on the seed often reduce germination and cause a poor stand, lowered quality, and unsatisfactory yields. Destroy these disease organisms without injuring the seed by treating your seed, bulbs, roots, corms and tubers with SEMESAN. Easily and quickly applied as a dust or liquid. Effective in controlling damping-off of seedlings. Costs $\frac{1}{4}$ to 1 cent a pound as one ounce treats 15 to 30 pounds of seed.

Prices: 2-oz. tin, 35c; 1-lb. tin, \$2.25; 5 lb. tin, \$9.90; 25-lb. pail, \$45.50.

ANY OF THE ABOVE MAY BE MAILED

UNION SEED & FUEL CO.

Distributors for Idaho

IF YOUR DEALER IS UNABLE TO SUPPLY YOU, WRITE US

Field Seed Department

The prices of all Field Seeds are those ruling February 1, 1938, and are subject to change. As far as possible, we will fill all orders at prices quoted, but if market values will not permit, we will send all that money remitted will pay for. Get our prices on quantities on all Field Seeds. If prices decline, our customers will benefit accordingly.

SELECTED SEED CORN

Postage at the rate of 8 cents per pound must be added for the first pound, and 11/10 cent each additional pound, if wanted by mail. Eight pounds of the small kernel varieties or 10 pounds of the large varieties will plant an acre.

Idaho Yellow Dent. Our Idaho Yellow Dent corn is the small cob, medium sized ear variety, maturing the earliest of any dent corn we carry. It has been grown here until fully acclimated, and may be depended on as a sure cropper. With many yields as high as 100 bushels per acre. **Price, lb. 10c; 16 lbs. \$1.** Write for quantity price.

Minnesota No. 13. Yellow Dent variety, particularly adapted to this climate. The ears are of handsome appearance, bearing 16 to 20 rows of bright, rich yellow, smooth, wedge-shaped kernels, packed closely on the cob from butt to tip. Ears average 8 inches in length and are usually borne two on a stalk. Cobs are well filled and the individual kernels plump and of good color. This corn is recommended by various experiment stations. Write us for prices.

Idaho White Flint. This standard variety of white flint corn produces a good-sized, well-filled ear from 10 to 16 inches in length and at times three ears to the stalk. A sure cropper for any section of Idaho. **Per lb. 10c.**

Northwestern Dent. A very early corn. Does well on dry land and has matured in this section in 70 days. **Price, lb. 10c; 25 lbs. \$1.50.**

GRAIN

Postage rates, 2nd zone, 8 cents first pound, add 1 1/10 cents extra each additional pound. Get our quantity prices.

WHEAT

We carry in stock re-cleaned wheat of the different varieties, and would be pleased to quote on request, in quantities to suit.

Spring Wheat. Sow 100 to 120 lbs. per acre. We give special attention to our grain, procuring from reliable growers who select for seed. We cannot guarantee purity on any grain, but assure you it will be the best obtainable. Our process for cleaning is near perfect. When grain seeds are shipped in seamless sacks, we charge 35c extra for each bag.

Early Bart Wheat. Dry land grown. A splendid spring variety. Although bearded, we believe it will give results where others fail; particularly adapted to dry land; about three weeks earlier than Blue Stem. **Price, 3c per lb.** Get quantity prices.

Soft Federation. Has comparatively short straw which easily supports a very heavy yield of grain without lodging. Yields in this section have run as high as 85 bushels per acre. **Price, lb. 3c; cwt. \$2.50.**

Write for Quantity Prices on Grain and Field Seeds

BARLEY

Sow 80 to 100 lbs. per acre.

Prices on Application

Extra Fancy Trebi Barley. It is very early. Has large white kernel with thin hull which accounts for the beards being easily removed in threshing, giving grain a very fine appearance. This is without doubt the best variety to sow for seed purposes. Our seed stock which we offer is well cleaned. **10 lbs. 30c.** Write for quantity prices.

RYE

Sow 60 to 80 pounds per acre.

Spring Rye. It is a quick growing crop which will give a good early pasture and later on a good cutting of hay or a good crop of grain. Please note that in ordering spring rye, we offer what is furnished us as spring rye, but make no guarantee for same. **50 lbs. for \$1.25.** Write for quantity prices.

Fall or Winter. It is a good crop for early fall or spring pasture, as it keeps green a long time in the fall and starts growing again as soon as the weather gets a little warm. Does well in any kind of soil. There is always a good market for good fall rye for seeding purposes. **50 lbs. \$1.25.** Write for quantity prices.

OATS

We carry in stock re-cleaned oats suitable for seed. Write us for quantity prices.

Idamine Oats. A very fine oat, re-cleaned, free of wild oats and an excellent producer. **3c lb.** Write for quantity prices, which are subject to market changes.

Victory Type Oats. Excels all others for yield on light soils. The straw is stiff and the white kernels very large and plump. The hull is of medium thickness. **Price, 3c lb.; 100 lbs. \$2.75.** Write for quantity prices.

GRASS SEED

Idaho laws are very strict with reference to sale of seeds containing noxious weeds. We give this department our special attention, selecting only such seeds as pass the pure seed law, and your orders will be filled with **strictly first class seed of good germination.** We are unable to quote prices covering the season, owing to fluctuation of prices, and we ask you to write us for quantity prices, or send us your order and we will give you the very best price consistent with quality.

Seventy pounds may be sent by parcel post in one package, at the rate of 8c for first pound and 11/10c per pound for each additional pound up to and including the second zone. Inquire of postmaster for zone.



Alfalfa or Lucerne. This plant is too well known in this state to require description, being especially adapted to our soil and climatic conditions. The large long roots penetrate deep into the soil and gather nitrogen, thus increasing the fertility to the highest point. All seed offered is high grade state tested and mostly dry land grown. Sow 12 to 15 lbs. per acre. **Price, 1 to 25 lbs. 35c per lb.** Ask for quantity prices.

Grimm Alfalfa. An alfalfa which is extra hardy and vigorous. Grimm Alfalfa is drought resisting, winters well, thrives on all soils except undrained meadow land, and is unaffected by extreme heat or cold, wet or dry climate. Its feeding value is of the highest, and the plant stools more than the ordinary alfalfa, so that, when sown broadcast, 8 pounds of seed per acre is sufficient. If your conditions are such as require an extremely hardy drought resisting alfalfa, you will find that Grimm alfalfa will be the best for these conditions. Genuine variety. **Certified Blue Tag 50c per lb.; 10 lbs. for \$4.50. Yellow Tag, 35c per lb.** Write for quantity prices.

Uncertified Grimm Alfalfa. Dry land grown and of highest purity, free of noxious weed seed. **\$35.00 per cwt.**

Genuine Cossack Alfalfa. This variety comes from a region in Siberia where the total annual precipitation does not exceed 8 inches and the temperature varies from 106 degrees in summer to 50 degrees below in winter, often without snow. **Price, 1 lb. 50c; 10 lbs. \$4.50.** Write for quantity prices.

Alsike or Swedish Clover (Trifolium Hybridum). Does not winter-kill, stands alike drouth or wet. One of the hardiest varieties known, it is a perennial and a great favorite with beekeepers, as its flowers have a sweet and agreeable odor and afford excellent forage for bees. Sow 6 to 8 lbs. to the acre. Free of noxious weeds. **Price, lb. 40c; 10 lb. for \$3.75.**



**KILL INSECTS
with
EVER GREEN.**

GRASS SEED—Continued

White Bokhara or Sweet Clover (*Melilotus Alba*). Tall shrub plant. Grows from 4 to 6 feet high; good for pasture. The best plant to grow as a soil renovator. Sown in the spring in drills 16 inches apart. Ten pounds will sow an acre. **Price per lb. 20c; 25 lbs. for \$4.20.**

Yellow Blossom Sweet Clover. Yellow Blossom is a biennial the same as the white, but does not grow as large. Better for pasture as it is more leafy and seems to stay green longer. **Price, 20c per lb.; 25 lbs. for \$4.20.** Ask for price in quantities.

Red Clover. The seed crop from our Red Clover fields in 1937 brought Southwestern Idaho growers hundreds of thousands of dollars. It was readily purchased by Eastern buyers, and as the season advanced and the crop shortage become more apparent the prices advanced accordingly. While we purchased heavily, we have only retained about 100 bags of very select stock for distribution for seed production purposes. This stock will be free of all noxious or objectionable weeds, with high purity test. **Price, single lb. 40c; 25-lb. lots for 38c per lb.** Write for special prices on 100-lb. lots.

White Dutch Clover (*Trifolium Repense*). Excellent for pasture, and when mixed with Kentucky Blue Grass makes the finest and most nutritious food for sheep and cows. Used universally on lawns in most of the United States. Sow for pastures 5 to 8 lbs. per acre. **Extra fancy, 50c; choice, 35c and 40c per lb.** Write for special quantity prices.

Ladino Clover. Said to be the best pasture grass so far discovered. It grows very rank and stock are very fond of it.

Idaho Certified, Blue Tag Ladino. \$1.25 per lb. Write for quantity prices.

Pasture grade, 75c per lb.

Strawberry Clover. The most alkali tolerant of all legumes. Makes a vining strawberry-like growth and reaches a height of 15 to 20 inches under favorable conditions. Adaptable only where moisture is available. Excellent for pasture. 3 to 4 lbs. per acre. **Price, \$2.00 per lb. Supply limited.**

Crested Wheat Grass. One of the hardiest and nearest drouth resistant grasses discovered. If this grass will thrive as experiments so far indicate, our dry lands and hills can be made as valuable for pasture as many of our meadows. **Price, per lb. 50c; 10 lbs. for \$4.75.** Write for quantity prices.

Canadian Blue Grass (*Pea Compressa*). Produces a fine foliage of dark green color and is more hardy than Kentucky Blue Grass. It is especially adapted to light, poor, dry soils, and makes very satisfactory lawns. It has somewhat of a creeping habit and does not need to be clipped as often as Kentucky Blue Grass. **Price, lb. 35c; 10 lbs. \$3.00.**

Kentucky Blue Grass. The standard for lawns. Our "Idaho Tested Seeds" grade is the purest obtainable. The old standard grass for pasture as well as lawns. Every farmer knows it and its good qualities. Sow 15 to 30 lbs. to the acre for meadows; for lawns, 1 lb. to 300 square feet. Ask for "Idaho Tested Seeds." **Price, lb. 40c; 10 lbs. for \$3.50.** Special prices on quantities.

Creeping Bent Grass (Certified Blue Tag Astorian). Especially recommended for lawns at country homes where depending on irrigation. It flourishes with but little moisture. Also good on terraces and sloping ground. **Price, lb. \$1.00.**

Perennial English Rye Grass (*Lolium Perenne*). A good pasture grass, it grows quickly and withstands drouth reasonably well. For pasture sow in the spring, 25 to 30 lbs. to the acre; for lawns, 60 to 70 lbs. to the acre. **Price per lb. 20c.**

Meadow Fescue or English Blue Grass (*Festuca Pratensis*). Especially adapted for permanent pasture. Grows 2 to 3 feet high, but not in tufts like orchard grass. Earliest and most nutritious of grass. Makes good hay and cattle thrive on it, whether in green or dry state. Succeeds even on poor soil, and as the roots penetrate deep, from 12 to 15 inches, it takes extremely dry weather to affect it. Sow 15 to 20 lbs. per acre. **Price, per lb. 25c; 5 lbs. for \$1.00.**

Tall Meadow Oat or Evergreen Grass (*Avena Elatior*). The roots of this grass descend deeply into the subsoil, enabling it to withstand a protracted drouth, and is green all seasons of the year. Its early growth in the spring makes it equal to rye for pasture. It grows quickly after mowing, giving a denser and more succulent aftermath than any of the present popular tame grasses. Sow broadcast 25 to 30 lbs. to an acre. **Price, per lb. 40c; 25-lb. lots, \$8.75.**

Orchard Grass (*Dactylis Glomerata*). Stands the drouth, grows well in the shade, does well in wet or poor ground, and is splendid to prevent worn-out fields from washing. This grass furnishes excellent pasture three weeks before any other and after close grazing ten days' rest is sufficient for another growth. It is especially adapted for winter grazing, as it remains green all season. It is well suited to sow mixed with alfalfa on average of 12 lbs. orchard to 8 lbs. alfalfa seed. Sow 20 to 25 lbs. per acre. **Price, per lb. 30c; 25 lbs. for \$5.25**

Timothy (*Phleum Pratense*). As a crop for hay, timothy is probably unsurpassed by any other grass. Being an early grass, it is well adapted to spring and summer grazing, and if the fall season is favorable, it will grow sufficiently to furnish good fall grazing, too. Sow 10 to 12 lbs. to the acre. **Price per lb. 12½c.** Write for quantity prices.

Red Top (*Agrostis Vulgaris*). A valuable grass for most soils. It is good, permanent grass, standing our climate as well as any other, and consequently well adapted to our pastures, in which it should be fed close, for if allowed to grow up to seed, the cattle refuse it. On moist, rich soil it will grow about 2 feet, and on poor gravelly soil about half that high. It has been grown successfully even on "alkali" bottom lands, where other grasses failed. We offer only the clean seed. Sow 15 to 20 lbs. of clean seed to the acre. **Price per lb. 25c.** Write for quantity price.

Bromus Inermis or Hungarian Brome Grass. A wonderful drouth resister. A grass for the stock raiser. All kinds of stock like it. Its nature is to stool out, and thus it does not show its best until the second season. It seldom produces seed the first year. Aside from alfalfa, no grass has fulfilled the promises to our western farmers better than the *Bromus Inermis*. It meets drouth as well in wet and cold, and for Idaho we know of no grass to equal it. Many of our large ranchers are planting it extensively. Sow 20 to 25 lbs. per acre. **Price per lb. 30c; 25 lbs. for \$5.50.** Write for quantity prices.

GRASS SEED MIXTURES FOR MEADOWS AND PASTURES

It is a well ascertained fact that a thicker and more prolonged growth is produced by a mixture of many sorts of grasses that are especially suitable. Some sorts do best on high ground and in dry weather; others prefer plenty of moisture. Some mature so early and others so late that from the beginning of spring until winter sets in there is no time when one species or another is not at its best.

In the matter of preparing the soil for pasture, it is necessary to put the ground in the best condition possible to get the best results. The soil should be perfectly even after sowing the seed. You will find that cross harrowing will be to your advantage, as it has a tendency to scatter the seed more evenly.

We are prepared to furnish any mixture wanted at the lowest prices, and would ask that you ask us for mixture prices, such as you may require for pasture mixtures. However, we specially recommend our **Union Brand Pasture Mixture** which is carefully mixed from the very best seed stock. No chaff or light seed. Will give you a fine pasture with proper care. **Price, lb. 25c; 100 lbs. for \$22.50.**

Timothy and Alsike Seed Mixed. \$10.00 per cwt. Ask for sample. Supply limited.

*A square meal for
lawns and flowers
is 4 lbs. of Vigoro
per 100 sq. ft.*

FORAGE AND NON-SACCHARINE PLANTS

Quantity price on application. Postage extra.

Golden Millet. No other grass or forage has been able to produce the enormous yield of this plant. It has produced 4 to 5 tons of hay to the acre, and from 70 to 80 bushels of seed. If sown in the spring on newly broken prairie, it leaves the ground in the finest condition for wheat, after harvesting it. Sow 25 to 40 lbs. to the acre. **Price, lb. 10c; 12 lbs. for \$1.00.**

Early Fortune or Broom Corn Millet. So called on account of the head being a panicle, as in broom corn. Seed red and slightly larger than common millet, producing more seed and rather less foliage than Foxtail millet. Will produce seed in dry, hot seasons. Said not to have the diuretic effect of Foxtail millet. **Price, lb. 10c; 12 lbs. \$1.00.**

Japanese Millet or "Million Dollar Grass". Being superior to good corn fodder in feeding for milk, and in combination with the Soja bean makes a very superior ensilage, it is recommended highly for feeding dairy cattle, young stock and sheep, being very rich in nutritious elements. If sown latter part of April will be ready to cut for hay by middle of July. Attains a height of from 7 to 7½ feet, according to the season. We cannot recommend it in the far north. **Price, lb. 15c; 10 lbs. \$1.00.**

New Siberian or Russian Millet. Earlier and heavier cropper than Golden millet. Hay is much finer, stalks more elastic and growing much taller, that it is rust-proof. Chinch bugs do not relish it, and being of stooling habit requires much less seed per acre. You should try it. **Price per lb. 12c; 10 lbs. \$1.**

Hog Millet. Most common of the millets for seed production. The grain is fine feed for hogs, cattle and poultry, as it is rich in food value. A drouth resistant. Color light yellow. **Price, lb. 10c; 14 lbs. for \$1.00.**

Dwarf Essex Rape (Brassica Napus). Does well with oats. If the soil is rich and clean, sow broadcast; otherwise in drills to cultivate same as corn. Poultrymen will do well to sow a small patch to feed green to growing chicks. Can be sown on wheat stubble, furnishing excellent pasture late in the fall. Does well on alkali ground. Broadcast it takes 8 to 10 lbs. to the acre; in drills 4 to 5 lbs. to the acre. **Per lb. 15c; 25 lbs. for \$3.00.** Write for quantity price.

Sugar Cane or Sorghum. Early Amber, a valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre. When fed while young it makes a rapid second growth. **15c per lb.** Write for quantity prices.

Silver Hull Buckwheat. An improved sort. It blooms longer, matures sooner, and yields double the amount per acre. Husk thinner, corners less prominent, and seeds of a beautiful light gray color. Flour made from this variety is pronounced better and more nutritious than others. Sow 30 to 50 lbs. to an acre. **Price, lb. 15c; 8 lbs. \$1.00.**

Sunflower, Mammoth Russian. The largest and most productive variety. It makes one of the very best of foods for poultry, a great egg producer. **¼ lb. 10c; 20c per lb.; 10 lbs. \$1.50.**

Flax Seed. Can be grown in any wheat district. Thirty to 40 pounds will sow an acre. We have choice northern grown seed. **Lb. 20c; 3 lbs. for 50c.** Write for quantity price.

Red Kaffir Corn. Taller than the white, the stalks are more slender and juicy and very leafy. The heads are long, slender, compact and grow erect; they measure from 1 to 2 feet. The seed is red, smaller than that of the white, and rather hard and brittle. It does well on poor land and yields earlier than the white variety, from 100 to 120 days, and yields much heavier. **Per lb. 10c.** Write for quantity prices.

Feterita. It is an early maturing, drouth-resisting sorghum of considerable value both for fodder and grain. It has produced a crop where Jerusalem and Kaffir corn has failed. It should be planted in hills or drills, where the ground becomes warm, as it rots easily in cold ground. **Price, lb. 15c.** Write for quantity price.

Broom Corn. Requires soil similar to corn, same cultivation, but should be planted some later in the season. Put ground in prime condition. We think that more of western farmers should grow broom corn for market. It is profitable. Frequently planted in drills 3½ feet apart, leaving plants 6 inches apart; 10 to 20 lbs. to the acre.

The Oklahoma Broom Corn. Originated in Oklahoma. Most valuable grown there and in the Southwest. Quite distinct from all others in earliness; robust habit and extreme productivity; brush long and well fibered and is a drouth resister. Averages 5 feet in height. Stalks make excellent fodder if cut at once after brush is pulled. **10 lbs. \$1.25.**

Milo Maize. This is one of the sorghums similar to Kaffir corn. Grows erect, with thick, close-jointed stalk. Height 4 to 9 feet. Heads are very large, giving a heavy grain yield; is drouth resistant and succeeds on alkali soil. Plant late, when ground is warm, 3 to 6 lbs. per acre. **Per lb. 10c.**

VETCHES OR TARES

Vicia Sativa (Common or Spring, Greatest Forage Plant). One of the best forage plants that can be grown on the Pacific Coast. This is a species of the pea, grown extensively in western Oregon and Washington, especially in the Willamette valley and on the Oregon coast. It furnishes an abundance of excellent feed, either green or cut and cured for hay. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of 2 bushels per acre. Vetch weighs 70 pounds per bushel. Sow in the early spring. **Per lb. 15c; 10 lbs. for \$1.00.** Write for quantity prices.

Vicia Villosa (Sand or Winter). This variety thrives in poor, arid, sandy soils. It is sown either in the fall or early spring, and is generally mixed with rye which serves to support the plants. It grows to a height of 3 or 4 feet and can be cut twice; first as soon as the bloom appears, and afterward for seed. The plant is perfectly hardy and makes a nutritious food. **Per lb. 15c; 25 lbs. for \$3.50.** Write for quantity price.

PEANUTS

The peanut grows in this locality and does well if properly taken care of. Should be planted about April 15th and may be in hills about 3 feet apart each way. Seed may be hulled or in pod. **Per lb. 30c; 2 lbs. 50c.**

FIELD BEANS

White Navy. The standard white bean, of medium size. Plant in drills, so as to cultivate with a horse; 25 or 30 pounds is enough for an acre. **Per lb. 15c.** Write for quantity price.

Montana White, Great Northern or Medium White Bean. A bean successfully and extensively grown in this section for a commercial dry bean. **Price, lb. 10c; 12 lbs. for \$1.00.** Write for quantity price.

Red Mexican. A very good dwarf bean. Heavy yielder and fair seller. **Per lb. 15c; 10 lbs. for \$1.00.**

Early Soja Beans, Coffee Berry, also called Soy Bean. Soja Beans are drouth resistant, much more so than cow peas, but will not do so well as them on poor ground. The berries ripen in about 3 or 4 months from the time of planting and produce a crop of 20 to 40 bushels per acre, and are as easily grown as other beans. One bushel of Soja beans is at least twice as valuable as corn for feeding purposes. Sow in drills 2 or 3 feet apart and 1 foot between plants; 15 to 50 pounds, according to conditions, will sow one acre. Do not cover more than 1 to 1½ inches deep. **Price, lb. 15c; 2 lbs. 25c; 10 lbs. \$1.00.** Write for quantity price.

CANADIAN FIELD PEAS

They should be sown or drilled as soon as the ground can be worked in the spring. They may be sown with a nurse crop, about 60 lbs. of each, or if sown separately, 100 to 120 lbs. to the acre. In addition to enriching the ground, they are splendid stock feed and may be harvested by machinery, or hogged off to good advantage.

If wanted for hay, they should be cut while the supply of nutriment in milk is in the vine, forming the pod, cut and cured like hay. This makes the finest of hay for dairy stock. Be sure to plant early. Try some of these the coming season. **Price, single pound, 10c per lb.; 12 lbs. \$1.00.** Get our prices in quantity.

SUDAN GRASS

This grass will mature in from 70 to 80 days, but should have longer time to get the best results as to tonnage. It is best grown in rows as near together as can be cultivated conveniently, in which case 2 or 3 pounds to the acre of good seed is sufficient. If sown broadcast, 15 to 25 pounds are required.

The plants stool wonderfully, and produce, under favorable conditions, as many as 100 stalks from a single root. The grass yields a good crop of first class hay; all stock relish and thrive on it. **Price, lb. 10c.** Write us for prices on Sudan grass in large quantities.

VIGORO
Complete plant food

SEED POTATOES

Certified Blue Tag Netted Gems,

Grown at a high altitude—wonderful producers.

ALSO

Bliss Triumphs

Early Six Weeks, Irish Cobblers and Early Ohios

Certified Minnesota Stock



Write for full particulars and prices, giving your requirements

ATTENTION

Commercial as well as other Potato Growers

Be sure and
TREAT YOUR SEED POTATOES
with
SEMESAN BEL

Write for Pamphlets. See Page 28.

THE NEVER-FAIL GOPHER GUN

Load gun with a .38 S. & W. blank cartridge as sold by dealers everywhere and set in gopher tunnel. Within a few minutes the gopher will attempt to close the hole, setting off the gun. The concussion kills them every time. For moles, dig down to main run and set same way. New models have safety catch. Protection while loading. Complete instructions with each gun. **Price \$1.75 each.**

USE FERTILIZERS FOR PROFIT

NITRATE OF SODA

Extensively used in early spring, as the nitrogen content is available to the plant during cold weather, thus stimulating early growth.

We ship in carload lots and shall be pleased to quote on any quantity.

Single pound, 5c; 25 lbs. for \$1.00. Unmailable. Write for quantity prices.

SULPHATE OF AMMONIA

Contains 20.6% nitrogen. Valuable as top dressing for use in late spring or summer. It is fine and dry, easily spread by hand or by drill.

Price, 6c per lb.; 25 lbs. for \$1.25. Unmailable.

STEAMED BONE MEAL

A good source of organic nitrogen and phosphoric acid. Plant foods more slowly available than in chemical fertilizers.

SUPERPHOSPHATE

The phosphoric acid content is quickly available to the plant. Hastens crop maturity and root system development.

LIME PHOSPHATE FERTILIZER

Price, lb. 2c; \$1.50 per cwt. Get our quantity price.

SULPHUR

For SHEEPMEN and ORCHARDISTS and also as a FERTILIZER. Recent field experiments in the Northwest, particularly with alfalfa fields, have demonstrated the fact that SULPHUR is one of the most valuable materials that can be applied to the soil, not only being readily taken up as a powerful stimulant by practically all classes of vegetation, but having the further and more valuable property of making available insoluble potash and phosphoric acid contained in all soils, as well as being an effective fungicide and insecticide.

Price, lb. 5c. Write for quantity prices.

COPPER SULPHATE

(Better known as Blue Stone)

Used for treating grain to prevent smut, also by stockmen as a preventative and cure for foot rot, for both sheep and cattle. **Price, 15c lb.** Write for quantity prices.

Anaconda Copper Co.'s

TREBLE PHOSPHATE

Guaranteed Test 45% Available Phosphate

Highly recommended for our alfalfa fields as it stimulates growth and increases yield; also successfully used in combination with other fertilizers. Our soils require this plant food.

Packed in 100-lb. bags. **Price, \$3.00 per cwt., f.o.b. Boise.** Write for quantity prices.

RAFFIA

Used for numerous purposes, including bunching vegetables, weaving, etc. **Price per lb. 35c.** Special prices on quantities.

Use EVERGREEN to Protect Your Garden



NON-POISONOUS INSECTICIDE

Prices:

1 oz.	\$.35
6 oz.	1.00
16 oz.	2.00
1 gal.	10.00

Treble Super Phosphate

A PRODUCT OF ANACONDA COPPER COMPANY

GUARANTEED ANALYSIS 45% • BAG, TON OR CARLOAD

If the farmer continues to remove crops from the soil without replacing the phosphate removed in the crop, it is only a question of time before the phosphate will be exhausted.

POTATOES

What plant foods do potatoes require?

Potatoes, like all crops, require nitrogen, phosphate and potash, but the grade of fertilizer to use depends entirely upon the condition of your soil.

With rare exceptions there is a great sufficiency of potash in most western soils—a supply much greater than the actual needs of the soil for years to come.

The potato crop is a heavy feeder of phosphate. An application of from 200 to 250 lbs. per acre of Anaconda Treble Superphosphate is recommended.

Phosphate is the Master Key to a Permanent and Successful Agriculture

The average increase in yield of potatoes, from the use of Anaconda Treble Superphosphate, on a large number of tests was 34 100-lb. sacks per acre. Increases of 75 to 100 sacks per acre are not uncommon.

CLOVER and ALFALFA SEED

Clover and other Legumes need Phosphate.

Clover and all other legume crops are usually very responsive to phosphate fertilization, especially in western soils which are highly deficient in phosphate.

The same methods as those employed in applying phosphate to alfalfa can be used for all legume crops.

To meet the annual needs of the crop, top-dress every other year with Anaconda Treble Superphosphate.

A few of the many profitable results from the use of Anaconda Treble Superphosphate on alfalfa and red clover seed crops:

	With Phosphate	Without Phosphate
ALFALFA SEED		
Test No. 1.....	684 lbs.	603 lbs.
Test No. 2.....	760 lbs.	660 lbs.
RED CLOVER SEED		
Test No. 3.....	11.5 bu.	5.75 bu.
Test No. 4.....	6.63 bu.	3.05 bu.



Use it for ALFALFA

A plant of special soil requirements, among which are:

1. Lime enough to prevent or neutralize excessive soil acidity and meet the very large needs of the plant with respect to the plant food element—calcium.

2. A liberal supply of all the other mineral elements of plant food.

Alfalfa is one of the heaviest feeders on phosphate and surely the expression "Alfalfa is a hog for phosphate" is very true when we consider that it takes about 100 pounds of Anaconda Phosphate to replace phosphate lost in one season when four tons of alfalfa hay are harvested.

Probably the most serious problem confronting the alfalfa grower of the West is the known fact that alfalfa does not hold its stand as formerly. Alfalfa has been known to stand for 20 to 25 years without reseeding while it is now difficult to keep the crop more than four or five years. Continual cropping, year after year, without replacing the

plant food taken out is the direct cause of lower yields and shorter life of stands.

Well-Fed Alfalfa Thrives

Phosphate fertilizer gives marked increase in yield. The increases vary from 1 to 4 tons per acre, depending on climate, water and degree of phosphate deficiency in the soil.

Of almost equal importance with the increase in yield is the improved feeding value of phosphated alfalfa. Phosphated alfalfa contains a larger percentage of leaf, often 25% more. This means a material increase in protein as well as the mineral content of the hay. Mineral deficiency in livestock can usually be corrected by feeding alfalfa that has been liberally fertilized with phosphate. Sufficient phosphate also helps nodule formation and resulting in greater nitrogen fixation. There is also less winter killing when alfalfa is treated with phosphate, due to greater strength.

GRAINS

Fertilizers Make Better Grains

For Sale by

UNION SEED & FUEL CO.

111 SOUTH TENTH ST., BOISE, IDAHO

INSECTICIDES AND SPRAYS

Delouse Entire Flock by "Painting" the Roosts with "Black Leaf 40"

A remarkable control for poultry lice, that does away with dusting, dipping or greasing and yet is absolutely effective and unbelievably simple, has been discovered. Owners of poultry, whether it be plain or fancy stock, need no longer be troubled with lice on their chickens. Farm flocks, small or large, as well as commercial flocks can now be protected easily, quickly and cheaply by the "Black Leaf 40" method of poultry lice control at any season of the year. Experiment stations, poultry editors, poultry authorities and flock owners express amazement at the results which the treatment gives and voice regret that it was not discovered long ago. Also destroys thrips, leaf-hoppers, aphids (plant lice) on all bushes, trees, vegetables, flowers and shrubs, without injury to the foliage. One teaspoonful makes one gallon spray.

Prices: 1 oz. bottle, 35c; 5 oz. bottle, \$1.00; 16 oz. bottle, \$2.25; 2 lb. tin, \$3.25; 5 lb. tin, \$5.85; 10 lb. tin, \$10.60; f. o. b. Boise.

PRATTS ROOST PAINT STOP LICE—START PROFITS

Summer, winter, spring or fall—it's all the same to lice. Those pests never let up. Constantly, they drain away energy and nourishment your fowls should use for making eggs, growth and profits for you.

Pratts Roost Paint—an improved, nicotine roost paint—will kill body lice on fowls and start your flock toward profits. It makes it easy, convenient and inexpensive to delouse every bird. You merely paint the roost and a small can goes a long way. 2 oz. 35c; ½ pint, 85c; 1 pint, \$1.50; 1 quart, \$2.25.

LICENE

For killing body lice on chickens—100 per cent guarantee.

If Licene does not destroy every louse and "nit" (egg of a louse) or does not clean scaly legs on your chickens, or if applied on setting hens and does not prevent head lice on chicks—you are the judge—we will refund your money if you notify us within one month after receiving Licene and no questions will be asked. Price per tube, postpaid, 60c.

SODIUM FLUORIDE

Kills Poultry Lice

Sodium Fluoride is made especially for poultry and carries the government's direction for applying. It is safe, easy to use, inexpensive and absolutely does the work quickly and effectively. Also very effective against ants, roaches, etc. 1 lb. 35c.

BUHACH INSECT POWDER

"The All-Year Insecticide"

Not a poison. Buhach kills ants, roaches, flies, mosquitoes, gnats, bed bugs, aphids, lice, mites, fleas, moths, millers. Can be used as a powder, a spray or to burn. Harmless to children, birds and animals. Sure death to insects. Prices, 25c and 50c.

"GOLD LEAF" TOBACCO POWDER

As a result of extensive investigation carried on by the California Agricultural Experiment Station, it was found that finely powdered tobacco was a most effective remedy against round worms in poultry which could be used; one that is uniform in strength and texture, and contains not less than 1% and not more than 1.5% of actual nicotine. These requirements are provided in "Gold Leaf" Tobacco Powder.

Prices: 2 lb. pkgs. 25c each; 10 lb. pkg. \$1.10 each; 100 lb. sacks, price on application. Postage or freight extra.

PURE PARIS GREEN

A strong and effective poison for potato bugs, tobacco eating insects. Prices: ¼ lb. 20c; ½ lb. 35c; 1 lb. 60c; 5 lbs. \$2.25. Not mailable.

ARSENATE OF LEAD POWDERED

For all leaf-eating insects. Sticks to the leaves and stays there. Will not burn foliage.

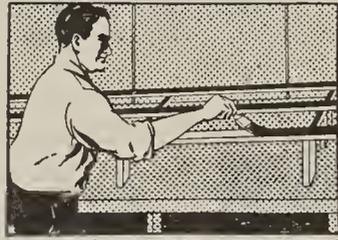
Prices: ½ lb. 20c; 1 lb. 35c; 4 lbs. 75c. Not mailable.

DRY CALCIUM ARSENATE

Prices: ½ lb. 20c; 1 lb. 35c.

Postage extra.

"PAINT THE ROOSTS"



WITH "BLACK LEAF 40"

DR. HESS FLY SPRAY

Kill flies in the stable. Protects cows in the pasture.

Dr. Hess Fly Spray is both fly killer and fly repeller.

For many years Dr. Hess Fly Chaser has been the outstanding preparation for protecting cows and other animals from flies.

The product has now been improved. The quality of fly killing has been added. To properly designate this improved product, now both a protector and a killer, it is given the new name of Dr. Hess Fly Spray.

Prices, in bulk, quart 40c; ½ gallon 60c; 1 gallon \$1.00, f. o. b. Boise.

FUNGICIDES

For prevention of smut in grains and vegetables.

Formaldehyde and Copper Carbonate; also Semesan Products. See page 28. Prices on request.

DRY BORDEAUX MIXTURE

The best fungicide for preventing black rot, mildew, blight, scab, etc., on fruit and vegetable plants. Spray potatoes for blight. One pound will make 50 pounds liquid. Can be used just as needed. Prices: ½ lb. 25c; 1 lb. 45c; 4 lbs. \$1.10.

Postage extra.

"SURE NOXEM"

For use on potatoes, cabbage, cauliflower, cucumbers, melons, tomatoes, currants, gooseberries and all other vegetables and shrubs. Kills insects of all kinds. 16 ozs. 30c.

Postage extra.

WHALE OIL SOAP

For aphids, plant lice, etc. Per bar, 15c; 8 bars for \$1.00.

Postage extra.

CYANOGAS

A poison for fumigating. One of the most effective. 1 lb. can, 75c; 5 lb. can, \$2.25. Not mailable.

SLUG SHOT—KILLS INSECTS

Keeps Flower and Vegetable Gardens Healthy

1 lb. 25c; 5 lbs. \$1.00

Mexican Bean Beetles and other beetles such as Potato Beetle, Cucumber Beetle, Asparagus Beetle, Flea Beetle, etc., are all controlled by dustings of SLUG SHOT.

SLUG SHOT is very effective against Cabbage Worms, Slugs, Sow Bugs, Army Worms, Currant Worms, Cut Worms, Tomato Worms, Cabbage Looper, Weevils, etc.

EZY WEAR LEATHER GLOVES

For Garden and General Home Use

Soft as kid, easy to wear, dirt-proof, durable, washable. Economical, too. Will outwear six pairs of ordinary fabric gloves, can be washed repeatedly and are useful the year round for garden, housework, yard, painting, etc. Three sizes for women: Small, Medium and Large. Also in Men's sizes (Medium and Large) for work about the garage, car, basement, furnace, lawn, garden. Per pair, 75c, postpaid.

CYCLONE HAND SEEDER



This machine is very handy for seeding grass seeds of all kinds. Same is carried by means of strap over shoulders and spreader revolved by means of crank.

Price, \$2.50, postage paid.

COMBINATION FERTILIZER AND SEED SOWER

This dual purpose machine is designed with extra heavy gears and brass bushed bearings for hard service and long wear. Sows any kind of seed as well as fertilizer. The combination sower also broadcasts all kinds of seed, such as clover, timothy, millet, Sudan grass, alfalfa, wheat, etc., perfectly in desired amount per acre.

Price, \$3.75 each, postpaid.

Items on this page are not postpaid unless so stated. See Parcel Post rates.

INSECTICIDES

ORTHO GARDEN SPRAYS

FUNGICIDES

The most common destructive insects are illustrated below (some greatly enlarged). The numbers indicate the products described on this page that are generally used in their control. Other pests are mentioned under product names.



Aphis
1, 9, 10



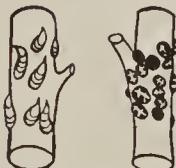
Leafhopper
1, 9, 10



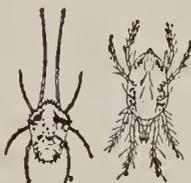
Thrips
1, 9, 10



Mealybug
1, 4, 6



Scale Insects
1, 4, 5, 6, 16



Red Spiders
1, 4, 5, 6, 7



Diabrotica
3, 9, 10



Flea Beetle
3, 9, 10, 18



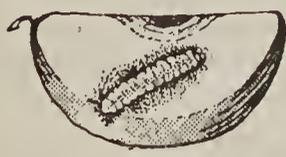
Rose Weevil
3, 11



Sowbug
2



Corn Earworm
3, 10, 18



Apple Worm
3, 17



Earwig
2, 18



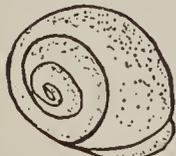
Caterpillar
3, 10, 11, 17



Slug
2, 18



Cutworm
2, 11, 18



Snail
2, 18



Grasshopper
2, 18



1. Garden VOLCK Spray. The complete Contact Spray used for control of sucking insects, including Aphis, Thrips, Mealybug, Scale, White Fly, Red Spider, Cyclamen Mite, small worms, certain Beetles, Rose Mildew. Garden VOLCK Spray is now the best known all-around garden spray used by home gardeners.

3 1/2-oz. bottle \$.35 1-gallon tin...\$3.00
1-pint bottle.. .85 5-gallon tin...10.00
1-quart bottle 1.25

2. Garden BUG-GO. A specially prepared Bait that has proved quite effective for attracting and destroying Snails, Slugs, Sowbugs, Pillbugs, Earwigs, Grasshoppers, Cutworms, Armyworms, and Strawberry Root Weevils.

1-lb. carton...\$.20 15-lb. sack...\$1.95
3-lb. carton... .45 50-lb. sack... 4.50
5-lb. carton... .70

3. Garden CALTOX. A combination Insecticide and Fungicide for dusting or spraying which has proved remarkably effective for control of Diabrotica, Beetle, Flea Beetle and other Beetles; Corn Earworm; Roseslug and other worms; Peach Leaf Curl, Downy Mildew.

6-oz. ctn. (makes 8 to 16 gal. spray) \$.35
1-lb. ctn.....\$.75 3-lb. ctn..... 1.50

4. Nursery VOLCK. The Improved VOLCK Oil Spray Emulsion. Long recognized as the best spray for Mealybug, Red Spider, Scale, White Fly. Also recommended as a carrier and spreader for Nicotine, Pyrethrum, Bordeaux, Caltox, Coposil, Lead Arsenate, in combination spray programs.

1-pint tin...\$.50 1-gallon tin...\$2.00
1-quart tin... .75 5-gallon tin... 5.00

5. Garden KLEENUP. The Dormant Oil Spray Emulsion used on dormant deciduous trees and shrubs to kill San Jose Scale, Lecanium Scale, and other overwintering insect pests.

1-qt. tin (makes 6 gallons), each...\$.50
1-gal. tin, each...\$1.00 5-gal. tin... 3.00

6. ORTHO Mildew Spray. This new non-poisonous Emulsion shows remarkable fungicidal properties effective against many Powdery Mildews on Rose, Delphinium, Dahlia, Sweet Pea, and other plants. Also kills Scale and Red Spiders.

1-qt. (makes 12 gallons dilute spray) \$.75
1-gal.....\$2.00 5-gal..... 5.00

7. ORTHO Garden SULPHUR. A Superfine Powdered Sulphur suitable for use as a Dust or as a Liquid Spray to control Powdery Mildew, Apple Scab, Brown Rot, Red Spider, etc.

2-lb. carton...\$.25 5-lb. carton...\$.50

8. INFERNO Flour Sulphur. An all-purpose ground sulphur suitable for burning, dusting or soil treatment.

12 1/2-lb. bag.....\$1.00

9. Garden Nicotine TENDUST. A High-Kill Nicotine Dust excellent for killing Aphis, Leafhoppers, and Thrips.

1-lb. tin.....\$.50 5-lb. tin.....\$1.50

10. Garden BOTANO Dust. A high strength Rotenone dust useful in controlling certain Aphis, Thrips, Worms, Beetles, Spittle Bugs on vegetables or other plants where a non-poisonous residue is desired. Packed in new "puffer-duster" carton.

1-lb.....\$.35 4-lb.....\$.75

11. DEADLINE Insect Barrier. A sticky compound which is applied to form a barrier around tree trunks, etc., thereby safeguarding trees, nursery stock, vines, roses, etc., from climbing or crawling pests such as Ants, certain Caterpillars, Cutworms, Fullers Rose Beetle, etc.

6-oz. tin.....\$.35 5-lb. tin.....\$3.00
1-lb. tin..... .65 10-lb. tin..... 5.00

12. ORTHO RODENT DESTROYER. A balanced strychnine-poisoned ration containing Wheat, Barley, Oats, Fruits used to kill Squirrels, Gophers, Rats and Mice. Longer lasting, waterproof, more effective.

6-oz. carton...\$.25 5-lb. carton...\$1.50
1-lb. carton... .50 25-lb. sack... 4.50

13. TRIOX WEED KILLER. The Improved "Ortho" Weed Killer, used to kill weeds on paths, roads, curbs, tennis courts, parking lots, athletic fields, etc.

1-pt. tin, ea...\$.50 1-gal. tin, ea. \$1.50
1-qt. tin, ea... .75 5-gal. tin, ea. 5.00

14. Garden COPOSIL Fungicide. This neutral, colloidal copper fungicide has proved remarkably safe and effective in controlling certain Blights, Scabs, Mildews, Leafspots, Leaf Curl, etc. Reduces unsightly residue on ornamental plants to a minimum.

8-oz. carton (makes 12 to 25 gallons dilute spray).....\$.35

4-lb. bag (makes 100 to 200 gallons dilute spray)..... 1.00

15. ORTHO Garden BORDO. A Powerful Bordeaux Mixture widely used to control fungus diseases such as Peach Curly Leaf, Peach Blight, Pear Scab, Strawberry Rust, Potato Blight.

1-lb. carton...\$.30 4-lb. bag...\$.50

16. ORTHO Garden LIME-SULPHUR. A Fungicide-Insecticide, used to control certain fungus diseases, Scale, Red Spider, etc. This is a dry, powdered Lime-Sulphur.

1-lb. tin.....\$.35 5-lb. tin.....\$1.50

17. ORTHO Garden LEAD ARSENATE. Used as a spray or dust to control chewing insects such as Beetles, Caterpillars and Worms. This Basic Form of Lead Arsenate is safer to foliage than ordinary Standard (acid) Lead Arsenate.

1-lb.....\$.35 4-lb. bag...\$.90

18. ORTHO Garden CALCIUM ARSENATE. A strong stomach poison used in making poisoned baits for the control of Snails, Cutworms, Grasshoppers. Also used to control certain Beetles and Worms.

1-lb. carton...\$.25 4-lb. bag...\$.50

● For more detailed information ask for "ORTHO" Primer of Pest Control. Sent free on request.

DEPENDABLE POULTRY SUPPLIES

OIL AND ELECTRIC INCUBATORS

THE FAMOUS PETALUMA



Standard of the
World

Wonderful for both
Chickens and Turkeys

160-egg, \$31.75; 320-egg, \$43.00; 640-egg, \$65.00; 640-egg, Double Compartment, \$75.00

WHY YOU SHOULD USE PETALUMA ELECTRIC INCUBATORS

The regulation of Petaluma Electrics is positive and accurate. The temperature never varies.

Pure, warm, fresh vitalized air surrounds the eggs at all times, making healthier and stronger chicks.

They are the simplest machines in the world to run. There is only one adjustment. No lamps to fill, clean or trim. Labor reduced to the minimum. All the old drudgery is done away with by these wonderful machines.

They can be attached to any ordinary electric light socket, can be run in any room in the house—no muss or odors.

They are the finished product of nearly thirty years of careful experimenting and tests. You get the most wonderful hatches the poultry world has ever known.

Many of the largest and best hatcheries in the world have adopted our machines; also we have converted the machines they have been using into electric incubators, enabling them to hatch bigger, better and stronger chicks than they have ever been able to do previously. Early in the season of 1919-1920, they converted in a few weeks sufficient machines in the big hatcheries of Petaluma and elsewhere, to equal 1500 504-egg machines, and that good work has been going ever since. This would not have been possible, except that the hatcheryman recognized that nothing in the world equaled Petaluma Electrics. If these men of long years of experience in hatching are adopting ours it ought to be safe for you. No hatcheryman will spend several thousand dollars in making the change unless he is satisfied he is getting something superior to anything he has previously had. Illustrated circulars mailed upon request.

Petaluma Hot Water Incubators

Combine every feature of mechanical supremacy and enduring qualities and are in every respect just what is claimed, the best hot water incubators at the lowest price.

The water is circulated in copper tubes of larger size than is usually put into incubators, therefore more radiating surface and hence better heating. The entire heating system being copper, there will be no rusting or accumulation of rust or scale in the pipes to obstruct the circulation of the water.

ELECTRICALLY HEATED HOT WATER INCUBATORS

Where one has the electric current service, it is better to use our regular electric incubators. One derives all the advantages of the character of warmth supplied through our electric system, which many operators claim has a very subtle and invigorating influence upon the

development of the chicks. Should anyone, however, desire to heat the water by electricity instead of coal oil, we can furnish an adapter heating element, to insert in the heater, and a thermostat and breaker and necessary connecting wire at a very liberal price.

Lamp and Burner

Our Petaluma lamp with sleeve burner is used, making it more economical in consumption of oil than any other machine. The tank style of fount is used on two larger size incubators, which carries enough oil for a week or more, thus lessening the labor in caring for the machines.

Moisture Pan

The moisture pan is placed in a most unique position. It is inserted through the front of the machine, is easily handled, and the operator can always see exactly the amount of water it contains and very readily put in more when it is needed.

PRICES ON REQUEST

Freight prepaid when cash accompanies order on all above.

PETALUMA ELECTRIC BROODER STOVES

(RADIANT HEAT) ARE THE HIGHEST ACHIEVEMENT
IN ELECTRIC BROODING

The Circulation System
Removes All Moisture.
The Floor is Dry and Warm.



The Electric Curtain
Circuit Provides Warmth
at the Rim.

LATEST IMPROVED MODELS

There is an old saying that "every dog has his day" and this statement may apply, with some force, to brooders. Interview various poultrymen and few will be found who are completely satisfied with their brooding system—kerosene, distillate, gasoline, gas and coal have been only partially satisfactory. Many people have suffered heavy loss through using some of the above named fuels, and having done so, they and their friends readily turn their attention to that class of brooding where the fire risk is totally removed and also to that system giving the highest results at lowest cost and requiring the least amount of labor and care. The system that surmounts all the above named objections and embodies the very essentials which all are looking for, is the Petaluma Electric Brooder. These brooders are in three sizes, as follows:

Model 250-E-36—Canopy 50 in.; 250 chicks . . . \$21.50
Model 500-E-36—Canopy 65 in.; 500 chicks . . . 32.50
Model 1000-E-36—Canopy 85 in.; 1000 chicks . . . 42.85

Temperature is perfectly controlled by our regulator or thermostat and breaker, so that the brooder is never too hot or too cold. Each one has a thermometer inserted through the top of the canopy.

Many persons are afraid that the electric current is too expensive and makers of other styles of brooding devices indulge in such statements. The very reverse is true, and where current can be purchased at any kind of reasonable rate, it is less expensive than any other plan of heating, besides the chicks grow and develop faster than by any other system. All other fuels are becoming scarcer and of poorer quality and naturally will be more so.

Chicks raised at from 1 cent to 2½ cents each, depending upon the price paid for current, the climatic conditions, and the class of building used.

Other makes and sizes, \$3.50, \$4.00, \$15.50, \$17.50.

JAMESWAY, LINCOLN AND MOE'S OIL BROODERS STRICTLY AUTOMATIC

For those who prefer the oil burning type of brooder the Jamesway, Lincoln and Moe models offer the utmost in simple, sturdy construction and durable service. Built to meet the same high quality standards as the coal burning models and backed by the same guarantee.

Jamesway, Lincoln and Moe's Oil Burning Brooders require little attention and give plenty of good heat without danger. Require cleaning of burner occasionally and refilling of tank but every 36 to 48 hours. Otherwise they

take care of themselves. All-welded burner and cross pipes. Five and ten-gallon metal fuel tanks. No overflow.

Hover is made of heavy, galvanized iron, with special beaded and crimped edges which adds greatly to its rigidity and strength. Special top ventilator assures good circulation of heat and air at all times.

The flame rises up from the burner through combustion chamber and out at top—a clear, clean blue pyramid flame. No generating. Lights like a lamp.

Burns low-priced furnace or kerosene oil.

SIZES AND PRICES

No. 238—Moe's 1000-chick \$19.75
No. 239—Moe's 1250-chick 22.00
No. 240—Moe's Drum Type, 500-chick 14.00
Jamesway 600-800 chicks \$21.00
Jamesway 800-1000 chicks 23.00
Lincoln 500-750-1000 chicks \$15.50, \$17.75, \$20.50

DEPENDABLE POULTRY SUPPLIES

MASCOT AUTOMATIC EGG SCALES & GRADERS



No. BL—A real egg scale—accurate, dependable and fast. New angle dial is easy to read whether seated or standing. Individual egg weight and weight per dozen are indicated on the double dial. Dial is aluminum with figures in black. Easy to read in candling room. Adjustable stop can be set for grading eggs of any weight. New leveling and setting device. Grades up to 1800 eggs per hour.

Egg cup, lever parts and counterweight are chromium plated. Bearing pins are brass. No danger of working parts rusting and affecting accuracy of scale.

Base and dial support are attractively finished in red, green, black Duco. Scale base, 3x6 inches. Height, 6½ inches.

No. BL Egg Scale, with adjustable stop. Packed 1 in carton weighing 2 lbs. **Price \$1.50, postpaid.**

No. 555—All hatching eggs must now weigh at least 23 ounces to the dozen. Mascot Automatic Egg Graders make egg-grading easy. Made of metal throughout with brass bearing points. Each grader carefully tested for accuracy before shipment. To grade eggs, simply place egg in cup and it will tilt the beam if it is heavy enough. **No. 555** can be set to grade eggs from 18 to 26 ounces to the dozen. No springs, no weights to get lost. Packed 1 in carton. Length, 12½ inches. **Price 65c, postpaid.**



No. 555

Other Scales from 60c and up.

The **ACME EGG-GRADING SCALE** is made entirely of aluminum, which makes it rustproof and practically indestructible. Every part is accurately made and carefully tested and will meet the requirements of any state bureau of weights and measures. **Price \$2.35, postpaid.**

POULTRY LITTER (Peat Moss)

Saves Time—Labor—Money

Every raiser of poultry should use this wonderful article because it is sanitary, is a natural absorbent, taking up and holding four or five times as much moisture as straw—is harmless to birds if eaten by them—reduces fire hazard. Does not stick to floor, tools or birds—is easy to spread and may be left in poultry house for several months. Prevents spread of disease because keeps house dry and clean—absorbs offensive odors and helps keep down the ammonia fumes. Also makes a good fertilizer after being discarded from poultry house. Bale covers from 300 to 350 square feet one inch deep. **Imported: Full size bales of about 140 lbs., \$3.90 each.**

HEALTH PAINT

The white disinfectant paint, for interior use only. **DRIES SNOW WHITE.** Contains 5% soluble cresols. Applied with a brush or spray. Ready to use when mixed with warm, hot or cold water.

Painting and disinfecting poultry houses, chicken coops, cow sheds, barns, stables, dairies, hog houses, cellars, kennels, factory buildings, docks, warehouses, garages, etc.

5-lb. pkg. 70c; 10-lb. pkg. \$1.25. Postage extra.

MOE'S CELLULOID COLORED LEG BANDS AND RINGS

Best quality. Made of celluloid in six sizes and ten colors—White, Black, Dark Blue, Light Blue, Red, Pink, Garnet, Green, Yellow, Purple.



Single Coil

Sizes: Turkey, Asiatic, American, Mediterranean, Bantam, and Pigeon:

	Chicken (Single Coil)	Turkey (Double Coil)
12 bands	\$.15	\$.25
25 bands .....	.25	.35
50 bands .....	.35	.65
100 bands .....	.60	1.25
500 bands	2.75	
1000 bands	5.00	

Pigeon and Baby Chick:

12 bands .....	.10	
25 bands .....	.15	
50 bands .....	.25	.60
100 bands .....	.45	1.00
500 bands	1.35	
1000 bands	2.25	



No. 130 Aluminum, with extra large raised numbers. Easy to read, adjustable for any size fowl. Quickly applied. **Pkg. of 12, 15c; 25, 25c; 50, 35c; 100, 60c; 500, \$2.75; 1000, \$5.00. Seal, Adjustable..... \$1.20 per 100**

LIVE CHICK BOXES

25-Chick size, each, postage extra.....	\$.15
50-Chick size, each, postage extra.....	.25
100-Chick size, each, postage extra.....	.35

Quantities very much cheaper.

HUMPTY DUMPTY EGG CARRIER

The best, the cheapest, the most convenient egg carrier. This one is light but strong, being almost indestructible. Can be folded flat for shipping empty. The most satisfactory egg carrier. Twelve dozen sizes. Weight with fillers, 7 pounds.

Price, each 75c, postage extra.

PARCEL POST EGG BOXES

No. 3 —15 egg size, each, postage extra.....	\$.30
No. 4 —30-egg size, each, postage extra.....	.35
No. 5 —50-egg size, each, postage extra.....	.40

Quantities very much cheaper.

EGG CARTONS

These cartons are for the delivery of fresh eggs to consumers. They are neat and convenient, holding one dozen eggs.

Price, per doz. 15c; per 100, 75c. Postage extra.

NEST EGGS

This egg is made from pure sterilized sulphate of lime. They are strong, durable and odorless. They neither break nor disintegrate. White in color.

Price, 5c each; 35c per dozen. Postage extra.

HYGROMETERS AND MOISTURE GUIDES

Hygrometers for incubators, postpaid.....	\$1.50
Moisture Guide for incubators, postpaid.....	1.00

THERMOMETERS

For incubators, postpaid.....	50c, 75c, \$1.00, \$1.25
For brooders, postpaid.....	25c, 40c, 50c, 75c, \$1.00

CAPONIZING SETS

Geo. Beuoy's famous make. \$4.00. Circulars on request.

GRANGE POKE ROOT COMPOUND

An unsurpassed remedy for garget and recommended as a cure. **Wt. 2 lbs. can, 65c. Postage extra.**

DEPENDABLE POULTRY SUPPLIES

TIN PLATE BUTTERMILK FEEDER

A large capacity Feeder and Waterer made of heavy bright charcoal tin plate. Not affected by lactic acids and is a safe and sanitary feeder for buttermilk, sour milk, medicine, etc.

The trough is carefully soldered, so can be used for water on any liquids and also makes a fine feeder for chicks and growing fowl. Also excellent as a mash feeder and waterer for ducks.

With 4-blade reel. Length 30 in., 4½ in. wide, 2¼ in. deep with turned-in edges.

No. 315-S—With Adjustable Wire Legs. Each.....\$.85

CHICK WATERER

Holds 6 quarts and does the work of half a dozen jars or pans. Keeps a constant supply of clean, fresh water available for the chicks. Only two parts to clean—the bucket and the pan.

Poultry experts say it is the most satisfactory chick waterer ever built. Made of heavy galvanized rust resisting sheet steel. Weighs 4½ lbs. Won't tip over. Thousands in use and every one is giving real satisfaction.

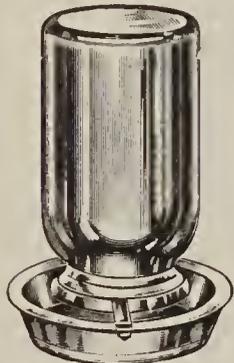
Order No. FB1407 — 100 chick capacity. Can be shipped by parcel post. Price, \$1.25.



CHICK FOUNTAINS

Made with a fluted round pan, shaped so up to 13 chicks can drink at one time without crowding. Galvanized steel and suitable for chicks or grown fowl. Diameter of pan 10 inches. May be placed on the floor or hung from the wire top handle.

Each
No. 158—Capacity 1 gal.....\$.65
No. 159—Capacity 2 gal..... .90



MASON JAR FOUNTS

Glass pan, clip type. Fine for buttermilk feeding or watering chicks. Clip attaches to any size Mason jar. Pan is heavy molded glass with smooth edge. Jar and clip quickly detached for filling.

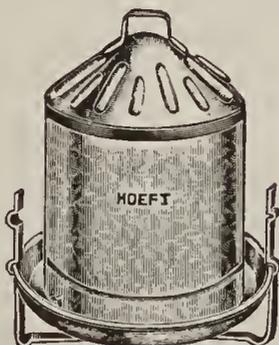
Cat. No. 365G—Price each 15c; 2 for 25c; \$1.35 doz.

MOE'S IMPROVED TOP FILL FOUNTAIN

Provides pure, fresh water at all times. The double wall construction retards freezing and keeps water cool in summer. Fills from the top and easily cleaned, and feeds automatically.

Each
No. 268—Capacity 2 gal.....\$1.3.
No. 269—Capacity 3 gal..... 1.85
No. 270—Capacity 5 gal..... 2.40

With Tripod, 25c higher on each size.



MOE'S FOUNTAIN HEATER

Solves the problem of a uniform supply of fresh water at all times, no matter how cold the weather. Can be used with all styles of fountains. Makes an ideal heater fountain at a low price. Holds enough kerosene to burn continuously for seven days.

No. 10 Heater. Each.....\$2.10



LEADER CHICK FOUNTAIN

No. 530—Galvanized steel, capacity 1 gallon. The round taper shaped body prevents damage if accidentally frozen. Fluted drinking pan 8½ in. diameter. Filled by inverting the body, which has a flat top and will not tip while being filled. Easy to clean.

No. 24—Capacity 1 gal. Each.....\$.45

MOE'S DRY MASH HOPPER

A strictly high quality hopper, properly designed. The curved bottom keeps the feed in easy reach, and the taper shape of the hopper prevents the feed from clogging. Height 19 inches.

No. 13—Width 18 in. Each.....\$1.60
No. 37—Width 24 in. Each..... 2.00



GRIT AND SHELL FEEDER

No. 9—Grit box made of galvanized steel, with three separate compartments. Height 13 in., width 8½ in. To keep chickens in a healthy condition, the feeding of both hard and soft grit, ground shells and charcoal is an essential part of the diet. Each 90c.

MOE'S LARGE CAPACITY FEEDER

The finest and most popular feeders made, for either small or large flocks. Smooth feeder holes just the right size and shape, and in just the correct position to give the chicks easy access to the feed and yet prevent needless waste.

No. 141—Capacity 17 qts., length 35 in., 54 feeder holes....\$1.50

METAL REEL CHICK FEEDER

With a metal four-blade top reel, strong and substantial and which revolves freely and prevents roosting. Made of prime galvanized steel, with red enameled reel. Width of trough, 4¼ in., depth 2¼ in., total height 5½ in., with turned edges. Reel has four adjustments for height, and is easily removed for cleaning and filling.

No. 466—Length 24 in. Each.....\$.60
No. 467—Length 36 in. Each..... .75
No. 468—Length 48 in. Each..... .95

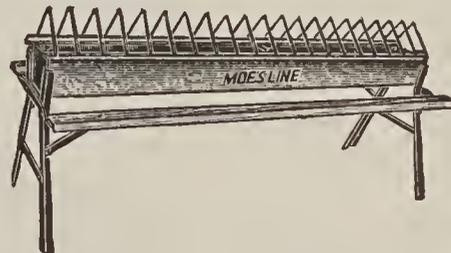
With adjustable legs, 15c higher on each size.

MOE'S FIVE-FOOT WIRE GUARD FEEDER

Made of extra heavy galvanized steel, and holds 32 qts. of feed. Length of trough 5 ft. with wide turned in flanges on each side to prevent waste. Heavy wire top guards hinged in one unit, and trough is removable for cleaning.

Complete with angle iron stand and wood perches. Not available.

No. 375—Complete with Stand 5 ft. Each.....\$4.75
No. 378—Complete with Stand 8 ft. Each..... 6.75



MOE'S DOUBLE FEEDING TROUGHS

Double trough with sliding top. Easily filled and cleaned. Accurately stamped with dies. No rough edges.

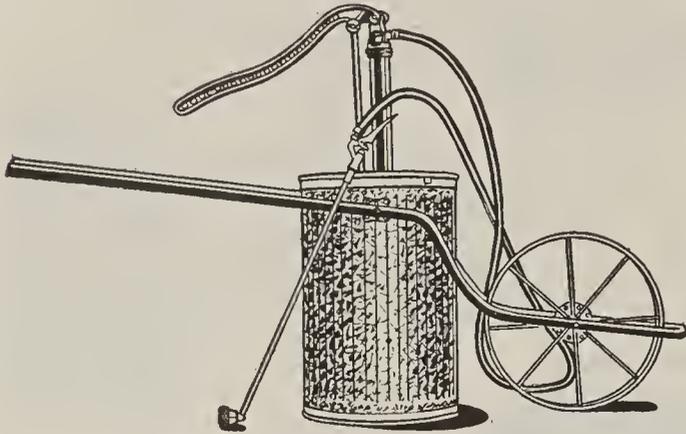
No. 520—Length 13 in.\$.15
No. 521—Length 23 in.25
No. 335—Length 12 in. Reel..... .15
No. 336—Length 18 in. Reel..... .25
No. 337—Length 24 in. Reel..... .30



SPRAYERS AND DUSTERS

BROWN'S No. 49

is a sturdy wheelbarrow sprayer for use in spraying white-wash, kalsomine and cold water paints. It is also an excellent sprayer for field crops, garden truck, vineyards and general spraying. This machine consists of 18 gallon corrugated galvanized steel sheet bucket, truck frame and wheel and heavy duty pump.



Due to the large capacity air chamber of the pump, this machine will spray approximately twice as long as the ordinary sprayer after pumping has ceased.

Bucket: Extra heavy corrugated copper bearing galvanized steel sheet. 18 gallon capacity.

Truck Frame: Heavy iron pipe. Wheel, 18 in. diam., 2½-in. tire. Extension: Iron, 2 feet 8 inches long. 12½ ft hose.

Price, \$21.50 and up. Other models, \$14.25 and up.

DOMESTIC TOP SPRAY No. 325



A continuous atomizer of unusual merits. The container can be detached for refilling and cleaned by simply unscrewing from the pump cylinder. The syphon tube is easily removed and quickly cleaned by removing the nozzle. USES—For spraying garden crops, for use in greenhouses, for handling disinfectants and fly oils. It can be used with all spraying solutions.

Dome Spray No. 315—All tin plate, quart container.....\$.95

Dome Spray No. 325—Tin pump, qt. solid copper container 1.60

Automist No. A—For light or heavy liquids, adjustable nozzle, tin pump, 1 qt. glass container..... 1.40

Twin Blast Sprayer—Tin pump, quart glass container..... .70

BROWN'S OPEN-HED SPRAYER

FEATURES

1. Electrically welded seams. Make a practically seamless "1-piece" tank.
2. Galvanized after tank is fabricated. Completely coated inside and out—all seams and joints locked with hot galvanize—allows heavier coat of galvanize to be applied
3. Double-acting pump lock. Is quickly, easily and safely locked or unlocked.
4. Tank opening is 5 in. in diameter. Tank can easily be wiped dry to lengthen life of sprayer.
5. Tank will withstand 100 pounds pressure.
6. Rubber double grip pump handle. Both hands can be used for pumping.
7. Pump unit completely assembled. Lifts out in one unit with tank top.
8. Swivel nozzle (except on No. 3). Can be adjusted to any angle. 4 gallons.



Price \$6.65

BROWN'S CRYSTAL DUSTER



The Crystal Duster is a new type hand duster with glass jar container. The volume of dust expelled is controlled by the force used in pumping. A greater volume is expelled when the holes in the agitator tube are turned directly down so that the dust is centered about the agitator tube. This duster is especially good for use in dusting orchards, garden, truck, field crops, poultry houses. It may also be used in applying soot remover to dirty flues, and for dusting newly finished walls with silver and gold powders. Price \$1.45.

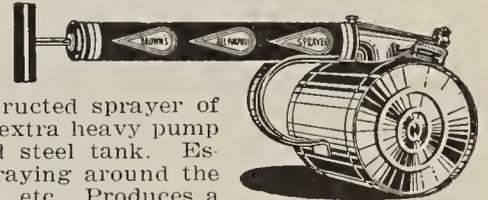


A small capacity duster ideal for use in the garden, in the home, etc., and is especially useful in dusting insecticides and roach powders. Specifications: Pump cylinder, heavy lithographed tin plate. Container, heavy lithographed tin plate. Handle, waxed wood. Gasket, best grade rubber. Discharge tube, heavy tin plate. Prices, 20c, 35c and 60c.

Nu-power Crank Duster. For dusting truck gardens, orchards and field crops. Price \$10.75 and \$12.50.

No. 26-F, \$1.65

(3-quart)



A strong, well-constructed sprayer of 3-quart capacity. Has extra heavy pump and strong galvanized steel tank. Especially useful for spraying around the garden, chicken house, etc. Produces a very fine mist spray. Price by mail, \$1.75.

DOMESTIC TOP SPRAYER



The IDEAL for all purposes to which a quart sprayer is adapted is just what its name implies. The cone shaped end of the pump passes through the top of the tank, adding rigidity to the sprayer and insuring proper alignment of the siphon tube with the end of the pump.

Structural Details: Tank, 4 inches diameter, 4 inches long. Tin or galvanized as selected, 1-inch can screw for filling. Capacity about 1 quart. Pump, 1½ inches diameter, 13 inches long. Provided with special leather and Nu-Action plunger.

Price: Tin, 40c; Galvanized, 45c; also ½ Pints in Tin, 30c.

SMITHING COAL

AJAX Specially Prepared Smithing Coal, being practically free from sulphur and iron, enables the smith to secure in the shortest possible time, good, clean welds that last forever. Not only this, but the use of Ajax coal eliminates all troubles arising from "red-shortness", which is caused by excessive amounts of sulphur and other impurities in the coal.

A sack or a carload, bulk or sacked. Prices on request.

RODENT, SQUIRREL AND GOPHER KILLER

Guaranteed quick and sure, also very effective on wood rats, mice, etc. Use it so that the chickens and birds will not get it. Price, 1 lb. can, 40c; 2 for 75c; postage extra.

NEPONSET PLANT POTS (Paper)

2¼ inch size, per 100.....	\$.60
2¼ inch size, per 1000.....	5.50
3 inch size, per 100.....	.80
3 inch size, per 1000.....	7.75
4 inch size, per 100.....	1.30
4 inch size, per 1000.....	12.00
3 in. x 3 in. Black Bands, per 100.....	.60
4 in. x 4 in. Red Bands, per 100.....	.60
Either size Band, per 1000.....	5.00

Items on this page are not postpaid unless so stated. See Parcel Post rates.



Poultrymen . . .

ALBERS PROVEN FEEDS

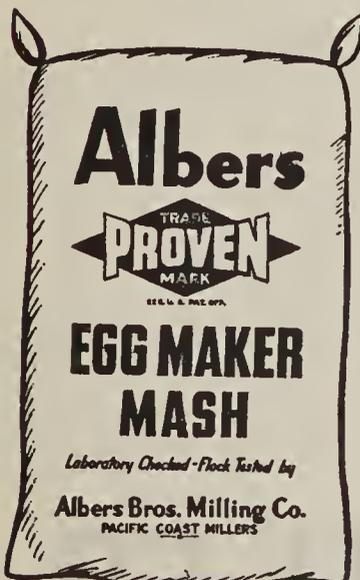
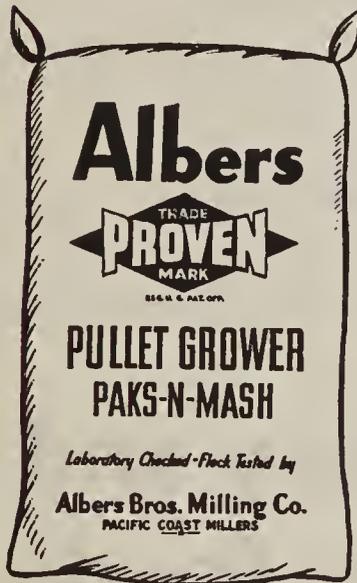
CONTAIN **SIMILENE!**

SIMILENE, the vitality building ingredient in all Albers Proven Poultry Feeds, has been described by experts as "the greatest step forward in poultry rations since cod liver oil." In Similene itself there is Carrotone, (which supplies the vitamins your flock needs) and Simil-8 Minerals, (8 minerals that fowls can assimilate).

Put your flock on Albers Proven Feeds—for healthier fowls, better production, higher quality eggs and a sustained lay—at lower cost!

FREE! ALBERS PLAN—THE COMPLETE GUIDE TO POULTRY RAISING!

Send for your copy of this valuable poultry manual, used by thousands! A 64-page book, covering every detail from hatching eggs through handling laying flocks. Write today for your free copy, to Albers Bros. Milling Co., 1060 Stuart Building, Seattle, Washington.



Albers Proven

CHICK STARTER Paks-N-Mash
PULLET GROWER Paks-N-Mash
EGG MAKER Mash or Paks



POULTRY AND STOCK FOODS

BABY CHICK SCRATCH

Mixed Steel Cut Grains—Not a Mash

In order to start the young chicks right they should have a properly balanced grain ration also at proper time.

The digestive apparatus of a small chick is very tender and easily irritated. All that the chick eats must be easily digested, thus causing no irritation. We carry the best chick feed, and believe the elements necessary for the proper growth of the chick are contained in this feed.

100-lb. sacks. Write for prices.

UNION CHICK AND GROWING MASH

A very fine one at a popular price and a very worthy fore-runner of our famous Union Egg Mash.

100-lb. sacks. Write for prices.

GOLDEN AND UNION EGG MASHES

Made by Ourselves

Makes hens lay when eggs are high, keeps poultry healthy. A complete ground food to be fed dry or wet. Starts hens laying and keeps them at it. Puts poultry in prime condition.

100-lb. sacks. Write for prices.

FISH MEAL

This is a preparation made of fish and an excellent food for poultry. It is high in protein and is highly recommended by our best poultrymen.

100-lb. sacks. Write for prices.

MEAT AND BONE SCRAP

Every poultryman uses meat in some form in feeding, and the cheapest and most convenient method is this commercial meat scrap. This meat is as high in protein, and specially prepared and as near odorless as can be made. Our scrap is 50 per cent and higher protein.

100-lb. sacks. Write for prices.

CHARCOAL

Lump for cistern or brazing. 20 to 25-lb. bags.

Granulated for poultry, in fine, medium and coarse. Made of hard wood. 50-lb. bags. Write for prices.

OYSTER SHELL

This is the best eastern shell, ground and triple screened. Lime is essential for hens. This is the best form to feed it. Ours is 98 per cent lime.

100-lb. sacks. Write for prices.

CALCITE CRYSTAL GRIT

Crystal grit is pure white, largely lime, rock, ground and screened to the proper size, and being very hard, the edges remain sharp as long as any remains in the gizzard. Grit should be kept before the birds at all times, in flour, in fine, medium, coarse and very coarse, 98% available.

100-lb. sacks. Write for prices.

DRIED BUTTERMILK AND SKIM MILK

Regulate digestion and promotes health. Prevents White Diarrhea and Bowel Trouble. Increases egg yield. Will not spoil if kept in dry place. The ideal ingredient for egg mashes.

100-lb. sacks. Write for prices.

ALBERS' STOCK FOODS

Calf Meal. 25-lb., 50-lb., 100-lb. sacks. See page 43.

Lamb Meal. 25-lb., 50-lb., 100-lb. sacks.

Write for prices on above.

OIL CAKE MEAL

This is the flax after the oil has been removed, then ground to a meal, and it is used in the poultry mixtures and for stock feed. A valuable feed for young stock, as it tones up the system and gives the animal a good appetite.

100-lb. sacks. Write for prices.

SOY BEAN MEAL

Soy Bean Meal is very high in protein, and is generally used in a mash mixture, and is a great egg producer.

100-lb. sacks. Write for prices.

UNION *Brand*



Poultry and Dairy Feeds

UNION EGG MASH—

Made from very best materials.
High in Protein.
Gives results.

UNION HEN SCRATCH—

A balanced ration for laying hens.

All of the above are carefully mixed from the very best materials and a fair trial will convince you of the worth of these various products.

If prices do seem low for your poultry products, don't slight your feeding—it will pay in the long run to feed your FLOCKS GOOD BALANCED RATIONS.

UNION CHICK SCRATCH—

Fine for baby chicks and baby turks.

UNION COW FEED—

Good to the last—Cows like it.
Dairymen, give this a trial and increase your cream check.

UNION SEED & FUEL CO.

Manufacturers and Distributors

Phone 112

THE DR. HESS PRODUCTS

For more than 45 years, the products of Dr. Hess & Clark have been used with success by American farmers. These products are and always have been made with one high purpose in mind—to help produce better livestock and poultry, better beef, pork, milk and eggs. Year after year the Research Farm of Dr. Hess & Clark at Ashland, Ohio, tests and retests them in developing better methods to make market weight animals in fewer days, and to control parasites and diseases. That is why we recommend them to every stockman and poultry raiser.

DR. HESS STOCK TONIC

A conditioner and mineral supplement for horses, cows, steers and sheep. Aids digestion, promotes elimination. Cows receiving Tonic give 18% to 20% more milk. Feeder cattle that get it show daily gains of 1/3 pound more per head. Valuable at calving. Conditions horses for spring work.

100-lb. drum, \$10.80; 25-lb. pkg. \$3.30; 15-lb. pkg. \$2.20; 7-lb. pkg. \$1.15; 3-lb. pkg. 55c; 1½-lb. pkg. 30c.

DR. HESS HOG SPECIAL

Mineral supplement and conditioner; boosts hog profits by saving feed and time. Tests show that hogs fed Hog Special reach market weight in 15% less time and on 25% less feed. Runty, unthrifty pigs especially need it.

100-lb. drum, \$10.80; 25-lb. pkg. \$3.30; 15-lb. pkg. \$2.20; 7-lb. pkg. \$1.15; 3-lb. pkg. 55c; 1½-lb. pkg. 30c.

DR. HESS POULTRY PAN-A-MIN

Birds fed Pan-a-min regularly, laid 19 more eggs per year. Baby chicks fed Pan-a-min, grew faster, feathered, matured, and came into laying earlier. Helps shorten moulting period. Costs only 10c per hen per year.

100-lb. drum, \$10.80; 25-lb. pkg. \$3.30; 15-lb. pkg. \$2.20; 7-lb. pkg. \$1.15; 3-lb. pkg. 55c; 1½-lb. pkg. 30c.

DR. HESS DIP AND DISINFECTANT

For all stock dipping—for disinfecting stables, barns, hog pens, poultry houses, and to kill ticks, lice, mites, and other parasites. Standardized—is five times as strong as Carbolic Acid. Makes milk white emulsion, without streaks, settlings or patches of strain on top. Costs less than cheap inferior products.

Five Gallon Can, \$6.50; 1 Gallon Can, \$1.40; ½ Gallon Can, 80c; ¼ Gallon Can, 55c; Special price in 30 and 50 gal. bbls.

DR. HESS FLY SPRAY

The long lasting fly repellent. Protects horses in harness or saddle, and cows in pasture from fly torment. Kills flies in stables. Has pleasant odor. Will not taint milk nor gum the hair.

Five Gallon Can, \$6.50; 1 Gallon Can, \$1.40; ½ Gallon Can, 80c; Special price in 30 and 50 gal. bbls.

DR. HESS POULTRY WORM POWDER

A single dose flock treatment to give in feed. Active principle nicotine, combined with other materials to make it insoluble until it reaches intestines, where its full strength is released. Odorless, tasteless, non-toxic. Does not interfere with egg production or feed consumption.

2½-lb. pkg. \$5.40; 1¼-lb. pkg. \$3.00; 10-oz. pkg. \$1.90; 4-oz. pkg. 90c; 2-oz. pkg. 50c.

DR. HESS POULTRY WORM TABLETS

Same material as Powder except compressed into Tablets for individual treatments.

1000 Tablet pkg. \$6.50; 500 Tablet pkg. \$3.50; 250 Tablet pkg. \$2.00; 100 Tablet pkg. \$1.00; 40 Tablet pkg. \$50c.

DR. HESS POWDERED LOUSE KILLER

Kills lice on stock and poultry—bugs on cucumber, squash and melon vines, slugs on rose bushes. Kills winter ticks on sheep. When used in the dust bath, poultry will delouse themselves. Convenient—economical. In handy sifter top cans.

6-lb. pkg. \$1.25; 2½-lb. pkg. 65c; 1-lb. pkg. 30c.

DR. HESS LIQUID LOUSE KILLER (Roost Paint)

To put on perches. Fumes kill lice while birds roost. Economical. Bottles have special spreader to apply just the right amount.

16 oz. \$2.25; 8 oz. \$1.45; 4 oz. 85c; 1 oz. 35c.

DR. HESS POULTRY TABLETS

Valuable treatment for roup. Soothing, healing and slightly astringent. Use as a local antiseptic, and to medicate drinking water. Helps prevent spread of disease. When once dissolved, solution needs no stirring.

225 Tablet pkg. \$1.00; 100 Tablet pkg. 50c; 45 Tablet pkg. 25c.

DR. HESS CHICK TABLETS

Effective to check diarrheal discharges of both baby chicks and grown birds. A bowel antiseptic to give in drinking water. Solution remains thoroughly medicated until used.

225 Tablet pkg. \$1.00; 100 Tablet pkg. 50c; 45 Tablet pkg. 25c.

DR. HESS UDDER OINTMENT

A soothing penetrating emollient for injured, caked or swollen udders, cracked or chapped teats. Valuable in the household.

16 oz. can, \$1.00; 7 oz. can, 50c.

DR. HESS MEDICATED POWDER

A soothing white powder for cuts, scratches, galls and surface wounds. Forms protective coating and wound heals. Used in the home for scalds, burns, galls and chapped skin.

10 oz. can, 50c; 4 oz. can 25c.

NOTE: *By special arrangement we have secured from Dr. Hess & Clark, Inc., complete feed formulas, which include Tonic, Hog Special and Pan-a-min. These formulas have been tested, approved, and are regularly used on the Dr. Hess & Clark Research Farm. They combine the best feed ingredients with the conditioning properties of the above products to hasten beef and pork growth, and increase egg and milk yields. Ask us to tell you more about these special feeds.*

REMEDIES AND TONICS

SA-COW



For shy breeding cows, cows failing to come in heat, retained afterbirth, cows that do not produce as they should, white scours or flu pneumonia among the calves or premature calves (abortion). Prices: 1 lb. \$1.50; 5 lbs. \$5.00. Postage extra.

BICKMORE GALL SALVE

Bickmore Gall Salve is for the quick relief of collar or saddle galls on horses, under the harness, while the horse is worked; chafes, bruises, cuts, mud scalds, scratches, grease heel, rope burn, wire cuts or any minor wound or sore on horses, cattle and other animals. It is excellent for common mange. It gives immediate relief and aids in healing cracked, sore teats on cows. Use it on poultry for "scaly leg", and also for wounds and sores. Bickmore Gall Salve has been used successfully for burns, bruises, open sores, piles, ring worm or run round, and to allay the itching and irritation of eczema.

Prices: 2 oz. box, 35c; 6 oz. box, 70c.

"PURPUL" MEDICATED WAX TEAT DILATORS

SAVE THE TEAT—Use Moore Bros. PURPUL medicated wax dilators to heal the injured teat without closing. After operating, when sore or congested, for reducing spiders or obstructions insert this wonderful healing dilator. Avoid expensive troubles, lost quarters, unproductive cows. 18 to package, 25c per pkg.; 5 pkgs., 7½ doz., \$1.00, prepaid.

EPSOM SALTS

For poultry and stock. Per lb. 10c; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$6.50.

DON SUNG SPECIAL TONIC AND CONDITIONER FOR LAYING HENS

Don Sung is a balanced, concentrated tonic, always uniform in potency and strength, and is easily and economically given in the mash feed of laying hens. It has been successfully used and recommended for years by large and small poultry raisers from coast to coast. Don Sung is prepared in two forms (Tablets and Powdered) in a size to fit your flock. Complete directions for proper feeding and housing to promote better egg production, are included with every package. It costs you nothing to see what the trial size of Don Sung will do for your flock—because your money will be promptly refunded if you're not more than pleased with results.

Prices of Don Sung Tablets: 50c size (guaranteed trial size); \$1 size (3 times the 50c size); \$5 size (6 times the \$1 size).

KOW KARE



Kow Kare (originally Kow Kure) is different from anything ever discovered for cow troubles. It is the only cow medicine that is strictly for cows only. It is not a stock food, but a scientific remedy especially for cow diseases such as barrenness, scours, milk fever, caked udder, bloating, red water, swelling of bag, etc. It prevents abortion and removes retained afterbirth. It tones up the system, renews vitality, restores appetite to cows that are "off feed", and keeps them healthy. It increases the milk flow, and enables the cows to produce strong, vigorous calves. It is the dairyman's gold mine, and a sure profit payer. Medium cans, mail wt. 2 lbs., price 65c; large cans, mail wt. 4 lbs., \$1.25. Postage extra.

DR. HESS' POULTRY PAN-A-MIN



(Formerly Pan-a-ce-a)

1½ lb. pkgs...	\$.30
3 lb. pkgs...	.55
7 lb. pkgs...	1.15
15 lb. pkgs...	2.20
25 lb. pkgs...	3.30
100 lb. drum	10.80

N. P. MILK TUBES

Self retaining, assorted lengths, metal. 25c each; 2 for 45c;

COD LIVER OIL

Pure Norwegian

COD LIVER OIL is a necessity and indispensable for successful and profitable stock and poultry breeding. If you have not used it, you cannot appreciate the benefits and profits that may be derived from its use. Do not be misled and deceived from so-called POULTRY OILS adulterated with whale, herring, sardine and other cheap waste oils. You want PURE COD LIVER OIL to get results. It goes four times as far as any other oil. Write for prices.

MYCOREX

An original mixture primarily intended as an aid in the control of various types of the Mycosis organism infesting poultry.

In pamphlet we wish to call attention, particularly, to the following diseases: Mycosis, Coccidiosis, Cholera, Trichomoniasis and Blackhead. Infectious diseases for which there are no known cures. Prevention and control by all possible sanitary measures are essential.

Mycorex has been used as an adjuvant to the general control measures used in the treatment of these diseases, seemingly alleviating symptoms, such as: brownish or burnt appearance of the gizzard, crop and gizzard ulcers, when caused by fungi. Hemorrhagic enteritis (hemostatic action) and in simple diarrhea.

Treat all drinking water with Mycorex at intervals or when necessary to aid in controlling the spread of many diseases through the drinking water. ½ pts. 50c; qts. \$1.25; gallons \$3.25.

LIVE YEAST, The Spark of Life

For dry or wet mash feeding, chickens, turkeys, rabbits, horses, cattle, dogs, hogs, foxes. YEAST is a great aid in digestion and a natural laxative agent. YEAST by its fermentative powers, pre-digests food elements otherwise difficult to digest. YEAST helps to prevent disease by its rich vitamin supply and also by its power to create lactic acid, and a media in the intestinal tract unfavorable to parasitic and germ growth. Prices, 5 lbs. \$1.00; 10 lbs. \$1.85; 25 lbs. \$4.25.

DR. HESS' IMPROVED STOCK TONIC

3 lb. pkgs...	\$.55
7 lb. pkgs...	1.15
15 lb. pkgs...	2.20
25 lb. pkgs...	3.30
100 lb. drum	10.80



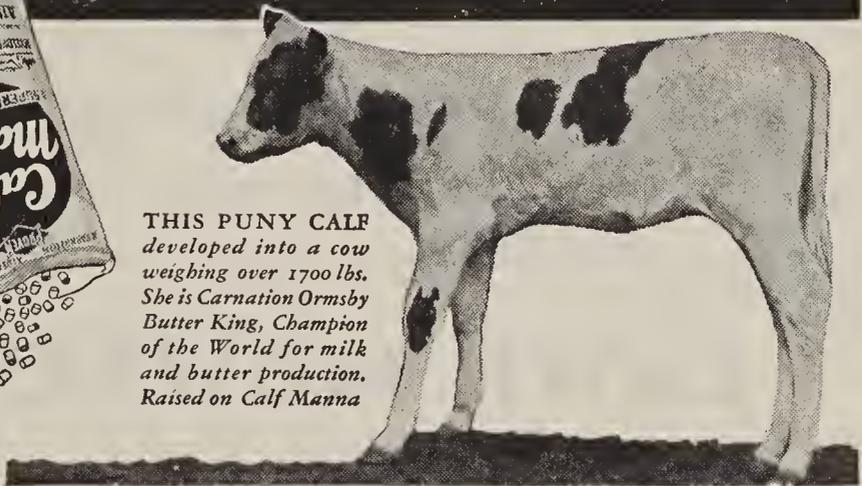
BAG BALM

A soothing, penetrating ointment for all affections of the bag. Wt. 12 oz. pkg., 60c. Postage extra.

The Calf Feed that Raised
THE 4 GREATEST
BUTTER PRODUCERS
Is Actually Cheapest to Use!



THIS PUNY CALF developed into a cow weighing over 1700 lbs. She is Carnation Ormsby Butter King, Champion of the World for milk and butter production. Raised on Calf Manna



Carnation Ormsby Nellie—World's fourth greatest butter producer.

Carnation Prospect Ormsby Gluck—U. S. butter champion, 1935.

Carnation Ormsby Segis Beauty—1290.4 pounds of butterfat last year.

NOT A CALF MEAL

THESE 4 CALVES were raised on Calf Manna, and they developed into four of the world's greatest producing cows (averaging over 1300 pounds of butterfat each in a year). While breeding is the basis of such ability, there can be no question that the greater depth of body—which Calf Manna produced—enabled these cows to go on day after day with this enormous production. For six months, Calf Manna replaced all milk in the ration of these calves, eliminating all scours, building strong, smooth bodies. In addition, Calf Manna cut 65% of the labor. It was poured into the feed box without weighing, dissolving or mixing. Best of all, it never cost over 6½ cents a day. If your dealer does not yet carry Calf Manna, write and we will arrange for you to get a supply.

1 LB. REPLACES 16 LBS. OF MILK

Calf-Manna

Hardware Department

- | | | | |
|-------------------|----------------------|---------------------|----------------------------|
| <i>Pitchforks</i> | <i>Bits</i> | <i>Thermometers</i> | <i>Spray Pumps</i> |
| <i>Shovels</i> | <i>Wrenches</i> | <i>Saws</i> | <i>Binder Twine</i> |
| <i>Scoops</i> | <i>Screw Drivers</i> | <i>Axle Grease</i> | <i>Egg Scales</i> |
| <i>Rakes</i> | <i>Tin Snips</i> | <i>Coal Hods</i> | <i>Padlocks</i> |
| <i>Hoes</i> | <i>Pruning Tools</i> | <i>Gopher Traps</i> | <i>Brushes</i> |
| <i>Hammers</i> | <i>Pliers</i> | <i>and Guns</i> | <i>Snow Shovels</i> |
| <i>Braces</i> | <i>Pocket Knives</i> | <i>Feeders</i> | <i>Dairymen's Supplies</i> |
| | <i>Rope</i> | <i>Fountains</i> | |

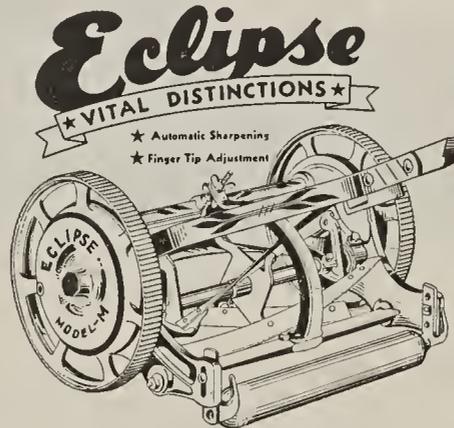
Handles for Many Kinds of Tools Not Mentioned

COMPLETE LINE OF POULTRY NETTING AND STAPLES

LAWN MOWERS

The Famous

ECLIPSE
AUTOMATIC
SELF-SHARPENING
 and
FINGER-TIP ADJUSTING



**Saves Yearly Sharpening-
 Adjusting Expense.**

**A MOWER FOR THOSE
 WHO
 DEMAND THE BEST!**

We recommend this Mower because it is always sharp and always in correct adjustment. The keen cutting edge of Eclipse blades keeps a lawn beautiful and smooth without injury to the turf. The first cost of an Eclipse is the last cost—precision methods of manufacture assure long service without the usual sharpening and adjusting expense of the ordinary mower.

SPECIFICATIONS: Wheels, 10-in. closed type. Bearings, patented super-easy running wear-proof precision, adjustable bearings. Run in oil wells to provide continuous lubrication. Blades, heat treated tool steel, precision ground by latest type automatic grinding machines. Finish, the most beautiful mower made—aluminum filler assures resistance to rust and keeps mower looking new for years. Rollers and handles finished with double coats of best marine varnish.

Also Eclipse-built CENTURY, MIDWEST, ARLINGTON, RIO GRANDE and ZEPHYR, in solid and semi-solid rubber tires and standard wheels, down as low as \$7.25.

ECLIPSE POWER MOWERS in three sizes, from \$79.75 and up. Prices on request.

Model "A"—5 Blades, Pneumatic Tires	16" \$27.00	18" \$28.50	20" \$30.00
Model "L"—5 Blades, Pneumatic Tires	16" 20.00	18" 21.50	20" 23.00
Zephyr—5 Blades, Pneumatic Tires	16" 15.00	18" 16.00	

Items on this page are not postpaid unless so stated. See Parcel Post rates.

Planet Jr. Tools

Also IRON KING HILL AND DRILL SEEDERS and
BOTH SINGLE AND DOUBLE WHEEL HOES



No. 18

PLANET JUNIOR

Hand and Drill Seeders

Prices on request.



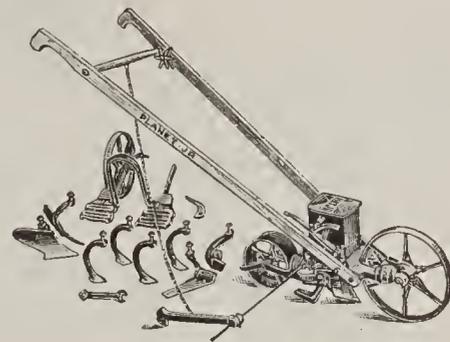
No. 119

Planet Jr. Garden Tractors

Increased production of vegetables has resulted in lower prices. The only way for the grower to make his profit, therefore, is to reduce his costs. Experiments with large tractors has proved that gasoline is cheaper than horse power or man power.

In order to reduce production costs to the point where there is a profit margin many crops have to be planted in rows so narrow that a large tractor cannot be used in them. Once more gasoline produced a machine to help out the farmer. The small, so-called Garden Tractor was developed, which replaces one-horse cultivation and hand wheel-hoeing.

Planet Jr., out of their fifty odd years of experience in designing and manufacturing specialized farm and garden tools, slowly and carefully worked out the design of a Garden Tractor that would provide the grower with a machine that would successfully and economically meet every reasonable demand he could make of it. In 2 and 3 horsepower. Catalog and prices on request.



No. 25

No. 25 Planet Jr. Combined Hill and Drill Seeder, Double and Single Wheel Hoe, Cultivator and Plow

The Planet Jr. No. 25 Seeder and Wheel Hoe has long been known as the "Complete Gardener". It is recommended particularly to those with large gardens, or to those who for some other reason prefer a double to a single wheel hoe.

As a seed drill the No. 25 is identical in operation to the No. 4. As a wheel hoe or cultivator you can do more work with the No. 25 because you can straddle the row of plants, working both sides at once.

Many farmers find the No. 25 particularly valuable for planting their kitchen garden and also an acre or two of mangle beets and turnips for fodder. As a wheel hoe it is then used in the garden and for any other hand cultivating jobs.



No. 4

IRON KING No. 4

Chief of these is the No. 4 Drill Seeder, a favorite among onion growers. It is chiefly popular because of its simplicity and because it plants onions, carrots and other small seed with a high degree of accuracy.

It is a plate type seeder—two plates being furnished, each having nine holes. One plate is for ordinary vegetable seeds, the holes varying from one-eighth of an inch to one-half an inch in diameter. The other plate is for onion seeds and the variation is very slight to take care of various types of onions.

One metal feed wheel and one brush feed wheel are furnished as regular equipment. An adjustable V-shaped opening plow opens a straight narrow furrow. The markers are adjustable for rows from 6-20 inches apart. The seed hopper holds three quarts and can be easily removed when desired.

OTHER NUMBERS OF BOTH CULTIVATORS AND SEEDERS
NOT SHOWN BY CUTS.

ALL KINDS OF TOOL EQUIPMENT and REPAIRS ON ALL ABOVE

FOODS and SUPPLIES for BIRDS, DOGS, CATS and FISH

JUSTRITE BIRD LINE

Vitamine Health Food. Vitamines A, B, C, D. 4 oz. 20c.
 Vitamine Health Food Jr. Vitamines A, B, C, D. 1½ oz. 10c.
 Honey Roll. An excellent "sweet treat" for birds. 5c.
 Honey Roll with Bell. A "sweet treat" with bell. 10c.
 Song Restorer. General tonic. 4 oz. 20c.
 Song Restorer Jr. General tonic. 1 oz. 10c.



Bird Tonic. Gives bird vitality and pep. 2 oz. 25c.
 Bird Bitters. Heart stimulator. 2 oz. 25c.
 Iron Tonic. Blood conditioner. 2 oz. 25c.
 Iron Tonic Jr. Blood conditioner. ¾ oz. 10c.
 Moulting Food. Feed during moulting. 4 oz. 20c.
 Moulting Food Jr. Season. 1 oz. 10c.
 Bird Wash. An excellent antiseptic. 2 oz. 15c.
 Cage Cleaner and Lice Destroyer. 4 fl. ozs. 15c.
 No. 1 Cuttle Bone. Large size, 5c and 10c.
 Bird Salve. For scaly legs. 15c.
 Bird Charcoal. Birds should have it. 10c.
 Silver Bird Gravel with Charcoal. 28 oz. 10c.



Mel-O-Dee Mix Bird Seed. Exceptional quality, contains canary, sweet rape, nigre, gold of pleasure seed; flax, maw, teasle, lettuce egg flakes, sesame, psyllium. 14 oz. 25c.
 Imported Bird Seed. Canary and rape. 14 oz. 20c.
 Love Bird or Finch Seed. 14 oz. 15c.

JUSTRITE PARROT FOOD

Parrots, like people, should have a variety of essential foods necessary to promote good health. Justrite Parrot Food is an ideal mixture containing necessary seeds, grains, nuts and Polly crackers, all of which will be relished by your parrot. 14 oz. 25c.

FISH FOODS

Natural and Tropical, both wafer and granulated, for all kinds fish. Prices 10c to 25c.



BIRD CAGES

Large assortment. Latest patterns. QUALITY GOODS at popular prices. \$1.50 and up in new and standard colors. Also, complete line of STANDS to match, \$1.45 and up. CAGE EQUIPMENT—full and complete assortment.

SPRATT'S BIRD PRODUCTS

BIRD SEEDS AND FOODS

Mixed Bird Seed. 15 ozs. 20c; 2 for 35c.
 Roller Canary Mixture. 15 ozs. 25c.
 Canary Mixture (with egg flakes and fruit). 6 ozs. 15c; 9 ozs. 25c.
 Cage Bird and Nestling Food (with cod liver oil). 4 ozs. 15c; 9 ozs. 25c.
 Moulting Food. 15 ozs. 25c.
 Spratt's Color Food. Pkg. 25c.
 Spratt's Song Restorer. Pkg. 25c.
 Spratt's Sing Song. Pkg. 15c; 2 for 25c.
 Spratt's Flea and Insect Powder. Pkg. 10 and 25c.
 Spratt's Bird Gravel. 32-oz. pkg. 10c.
 Union Mixed Bird Seed. Bulk, lb. 20c; 2 for 35c; 3 for 50c.
 Canary Bird Rape. Bulk, lb. 20c; 2 for 35c; 3 for 50c.

All above 25c packages, 2 for 45c.

Bird Baths, Seed Cups, Perches, etc.

SPRATT'S DOG FOOD

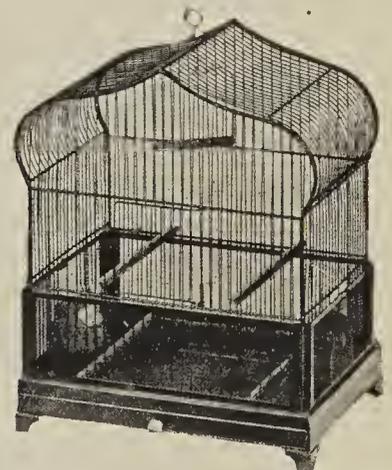
The backbone of the canine race. Foods for all kinds and sizes and ages of dogs. Bulk or package at the right price.

SPRATT'S DOG MEDICINES

Remedies for all kinds, conditions or diseases of dogs. Spratt's Hints on the Care and Feeding of Dogs. Ask for a copy—it's free.

DOG FOODS AND REMEDIES

Complete line, both canned, cakes and biscuit, for all sizes of dogs. Prices on application.



BIRD CAGES and STANDS

LARGE VARIETY OF STYLES
AND COLORS

POSTAGE EXTRA ON ALL ABOVE



COSMOS, SENSATION PINKIE

This is the finest new development in Cosmos. The flowers are very large, as much as 5 inches in diameter, with broad, heavy fluted petals, slightly overlapped. Ideal for cut flowers. Sturdy plants are 3 to 4 feet high, producing flowers 8 to 10 weeks from seed. Pkt. 15c.

CLARK'S HEAVENLY BLUE MORNING GLORY

An early flowering variety, making a sparse growth of foliage and is heavily covered with flowers. These flowers are very large, of a beautiful sky blue color which shades at the center to a golden throat. Pkt. 15c.



MARIGOLD GIGANTEA SUNSET GIANTS

(A New Bodger Marigold)

Sunset Giants are very showy, fragrant, and of exceptional size. The flowers are the largest ever known in the Marigold group, averaging 5 to 7½ inches. Instead of the usual Marigold odor these flowers have a definitely sweet fragrance. The flowers are loosely formed, very full centered, with broad heavy petals gracefully overlapping to make a flower of great depth. Sunset Giants is a mixture ranging from deep orange through golden orange, deep golden yellow, light yellow, lemon yellow, and a delightful new shade of primrose. Pkt. 15c.

PETUNIA, GIANTS OF CALIFORNIA

Very large ruffled, shallow open throated flowers in a color range comprising the lighter rose and pink shades. Strong growing plants and an excellent bedding variety. Flowers are produced in less than four months from the time the seed is sown. Pkt. 25c.





UNION'S SPECIAL

Vegetable Seed Collection



TRY
OUR UNION
SPECIAL
VEGETABLE
COLLECTION

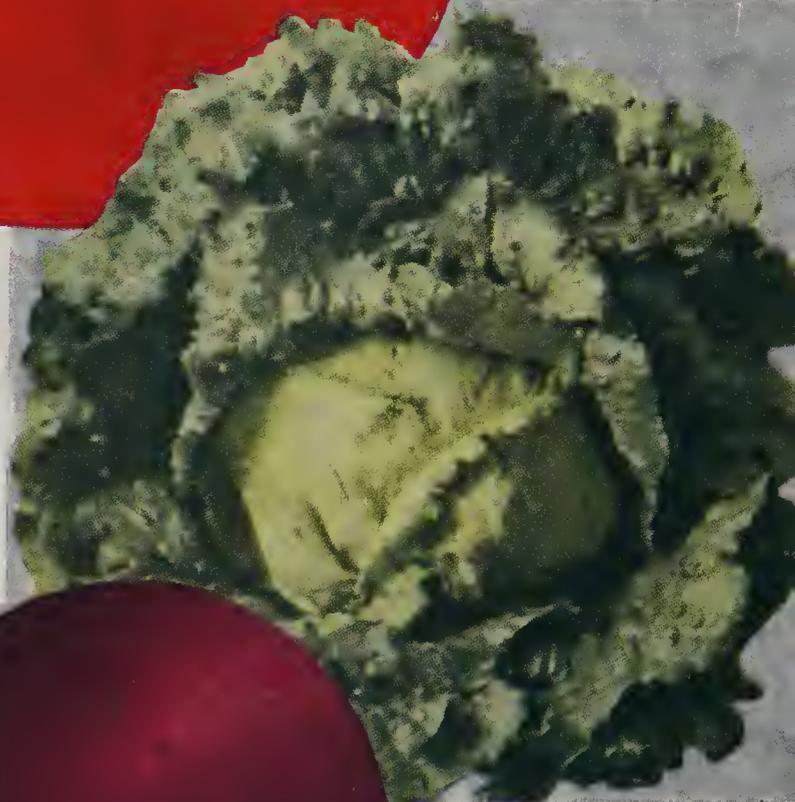
Union Special VEGETABLE COLLECTION

Select Stock

1 Packet Each:

- White Icicle Radish.
- Scarlet Turnip White Tipped Radish.
- Pritchard's Blight Resistant Tomato.
- Chantenay Carrot.
- New York Head Lettuce.
- Leaf Lettuce.
- Early Blood Turnip Beet.
- Early Purple Top Turnip.
- Sweet Spanish Onion.
- Little Marvel Peas.

USE
VIGORO
on
Vegetable and
Flower Gardens
and Lawns



TEN PACKETS

40c

Postpaid

UNION SEED
& FUEL CO.

Boise,
IDAHO

UNION
QUALITY