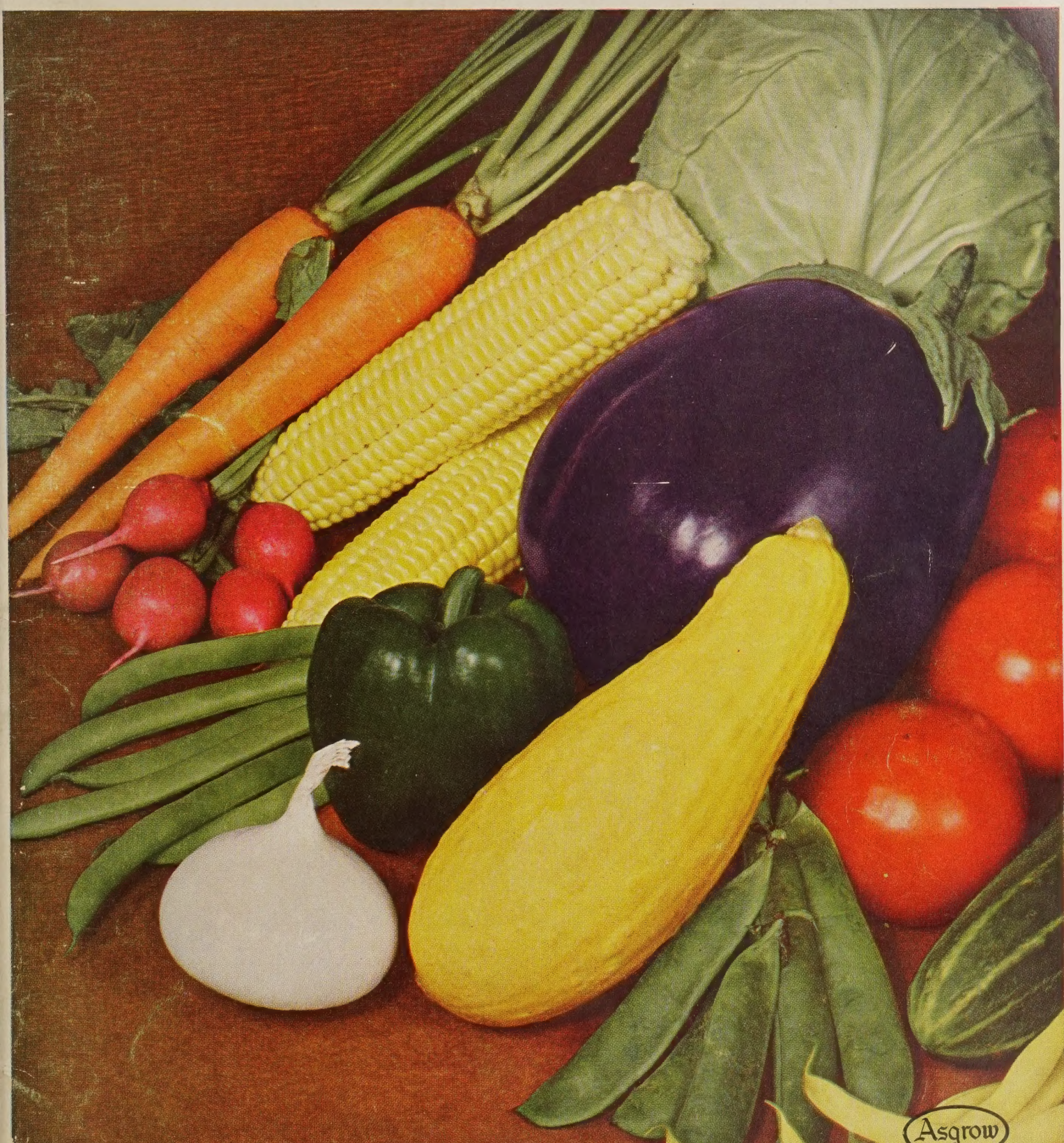


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Do not assume content reflects current scientific knowledge, policies, or practices.



See page 17.

Seed Trade
1944
Buyers Guide



ICER No. 95 (Rogers)



TENDERGREEN (New Stringless)

GOLDEN CROSS

67 Years of EXPERIENCE

... in breeding, developing and improving peas, beans and sweet corn for seed

In 1876 Rogers Bros. began to breed and produce peas, beans and sweet corn for seed. From the beginning they used the best practices known. As experience and science revealed improved methods, Rogers adopted them.

After superior new methods were developed and proved ... the older and less desirable varieties of the same type were discarded. Thus a policy of progress has been followed.

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ICER No. 95 (Rogers)

Wilt resistant—adapted for home and market garden. Vine: 24 inch, coarse, dark. Pod: 4½ to 5 inch, dark pointed. Seed: very large, size, wrinkled. 74 days.

TENDERGREEN (New Stringless)

Stringless, all-purpose variety. Pods are 6 inches long, round, medium dark, slightly curved. 56 days.

GOLDEN CROSS

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Rogers Bros. Seed Co.

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"Blood Tells"

CORNELI



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WON BY CORNELI
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KEYSTONIAN**



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Corneli Seed Co.

ST. LOUIS, MO.

Breeders... Growers... Wholesalers

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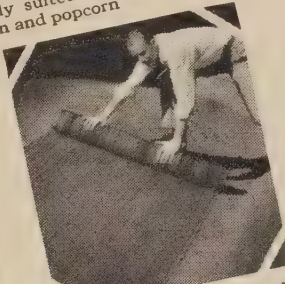
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Economy Mailing Bags—For samples. Tags, for addresses, sewn in to bottom.



Two-In-One Envelope Bags—Seeds carried in bag at parcel post rates... letter in envelope

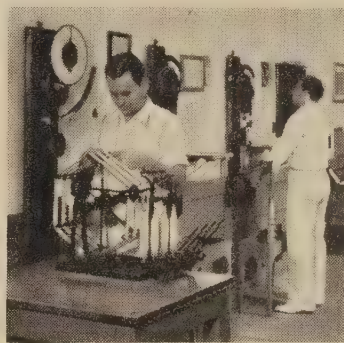


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DISCOVERING NEW WAYS TO SERVE SEEDSMEN is one of the purposes of Bemis Research Laboratories. Bemis Try-Sax, which permits seed sampling at any level without damaging the bag, is one of the recent Bemis research developments.

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MARIGOLD

*All-America
Winner for 1945*



FLASH is very easy to arrange in effective bouquets

**Tangerine and Marigold-Red, Earliest of All—
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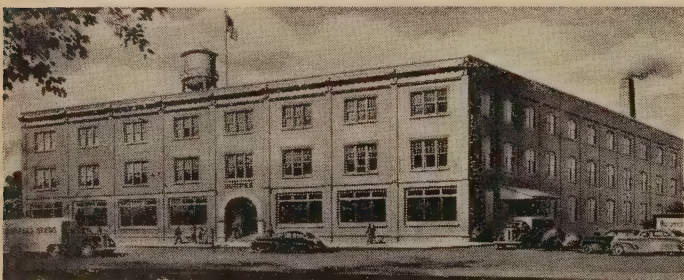
FLASH is the new semi-dwarf French Marigold with so many fine qualities it is destined to be the most popular in its class. Earliest of all, the uniform flowers appear in ten weeks from seed and the plants bloom profusely until frost. Strong 7- to 10-in. stems, fine for cutting.

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Actual size of flower

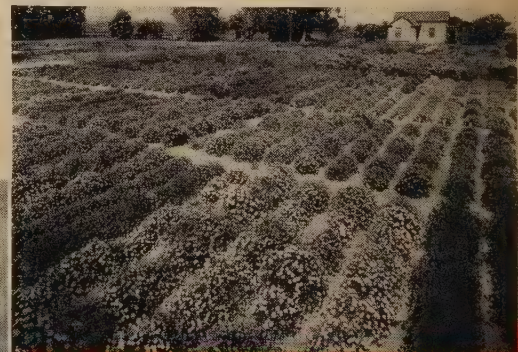
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For years Burpee scientists have conducted the world's most extensive flower hybridization and development operations. While all possible attention has been given to vegetables, valuable new flowers have not been sacrificed.

A section of extensive experimental Marigold trials on Burpee's famous Floradale Farms in California.



Burpee's Eastern Headquarters in Philadelphia, also on Lincoln Highway. Serves eastern states and Ohio, and export. General Offices located here.



W. Atlee

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VEGETABLES *for* VICTORY

Burpee Devotes Thousands of Acres to Vegetable Seed Production for the Raising of Food for Freedom

THE 1944 demand for vegetable seeds will break all records; we believe we are ready to meet your requirements. But please remember 1943's hectic season and cover your needs as soon as possible.

In 1943 20,000,000 Victory Gardens used **DOUBLE** the amount of vegetable seeds in 1942, and grew the tremendous crop of 7,940,000 tons of vegetables; the Dept. of Agriculture and National Victory Garden Institute are calling for 22,000,000 Victory Gardens in 1944; in addition the commercial growers must be supplied for their increased production.

Burpee Growing Operations Coast to Coast Concentrate on Vegetable Seeds, Many Heretofore Always Imported

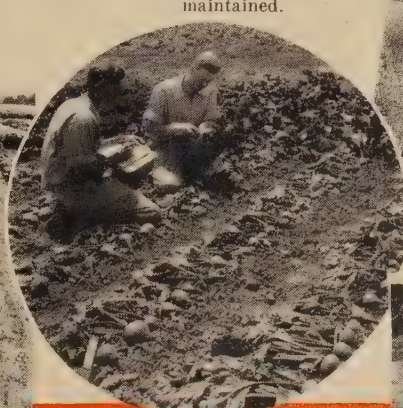
On Burpee's Fordhook Farms in Pennsylvania, the best-known seed growing and testing farms in the world, all possible manpower and acreage has been utilized to produce more and better vegetable seeds. In the soils and climates where each class produces the best seeds, Burpee growing fields have been operated from coast to coast.

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Your Want Lists of Vegetable and Flower Seeds Will Receive Our Prompt Attention If You Mail them Early

A few of the hundreds of acres of Burpee's Fordhook Farms in Pennsylvania, photo of a portion of the extensive Vegetable Trials conducted here. Every Burpee variety is Burpee-tested under actual growing conditions.

Burpee Vegetable experts analyze Beet Trials at Floradale, where extensive Vegetable Trials are also maintained.



Burpee Co. *Seed Growers*
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INCIDENT TO WAR YEARS HAVE NOT LOWERED THE QUALITY OF

BROWN'S TESTED SEEDS

OR AFFECTED OUR BREEDING, PRODUCING, TESTING, PROCESSING AND DELIVERING

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IN THE POST-WAR PERIOD, THOSE DEALERS WHO RENDERED THE BEST SERVICE DURING DIFFICULT TIMES—THE BROWN DEALERS

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GRAND RAPIDS, MICHIGAN

GROWING STATIONS: IDAHO FALLS, TWIN FALLS, IDAHO AND GRAND RAPIDS, MICHIGAN



Seed Trade Buyers Guide

TWENTY-SEVENTH EDITION

VOLUME XXVII

A NATIONAL SEEDSMAN PUBLICATION

YEAR OF 1944

IN PRESENTING this year's volume to the Seed Industry and its Allied Trades, the publishers have endeavored to assemble such new material as will be helpful to our readers in guiding the millions of newcomers to horticulture, and more particularly to Victory Gardening. The many new pages of *Facts and Figures* are designed for the sole purpose of quickly answering some of the many questions of beginners who seek help.

The new pages of Weed Illustrations and Descriptions are a valuable supplement to the 75 or more similar pages of former volumes.

It will be noted that the Classification pages of this volume have been completely reset in stream-lined form and in easily read type faces to help our thousands of dealer readers locate instantly the source of supply they seek.

All of the State Seed Laws show some form of revision, and twenty have been drastically changed or are entirely new laws. They all merit the trade's careful study.

It is our sincere hope that this 1944 Volume will be an important addition to the working library of all who are interested in seeds.

J. M. ANDERSON, *Publisher*

NATIONAL SEEDSMAN PUBLICATIONS

R. C. HELGESON, *Editor*

H. B. OLSON, *Business Manager*

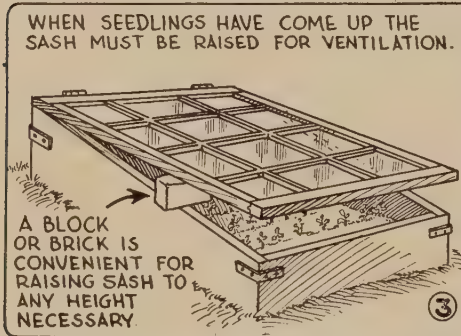
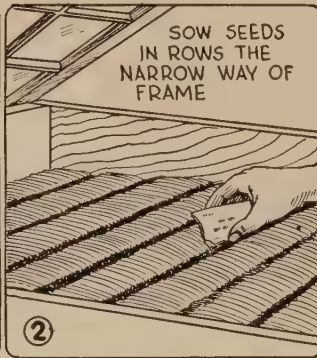
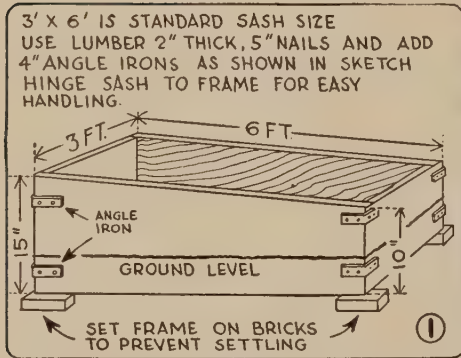
211 W. WACKER DRIVE, CHICAGO 6, ILLINOIS

Facts and Figures

To Help Answer Those Perennial Questions of the Victory Gardener

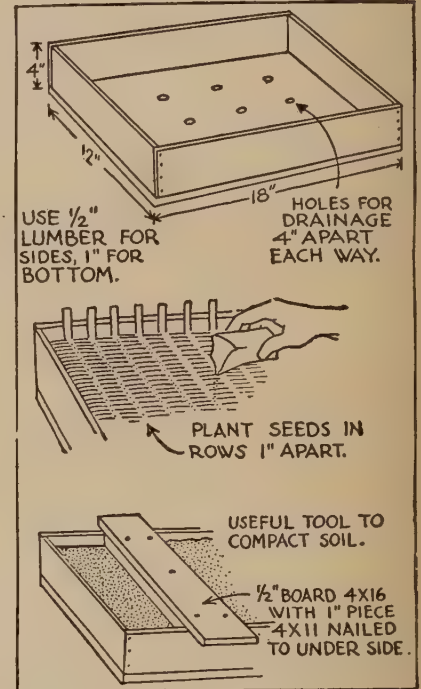
(Much of the uncredited material in this department was prepared by the National Garden Bureau)

How to Make a Cold Frame . . .



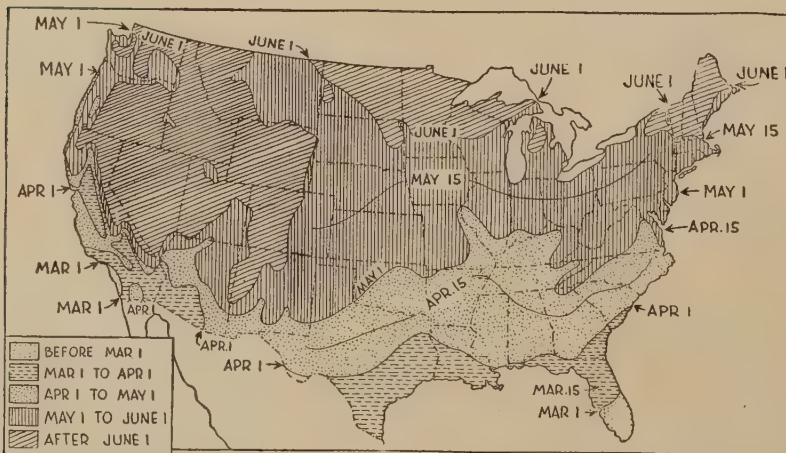
FEW GARDEN AIDS produce as much from the effort expended as the cold frame, and no critical materials are employed in constructing it. Standard dimensions and instructions are given complete in the drawing above, and with the exception of the sash, the frame can be constructed by an amateur, oftentimes with materials at hand. Recommend sturdy materials, and sound construction.

. . . and a Seed Box



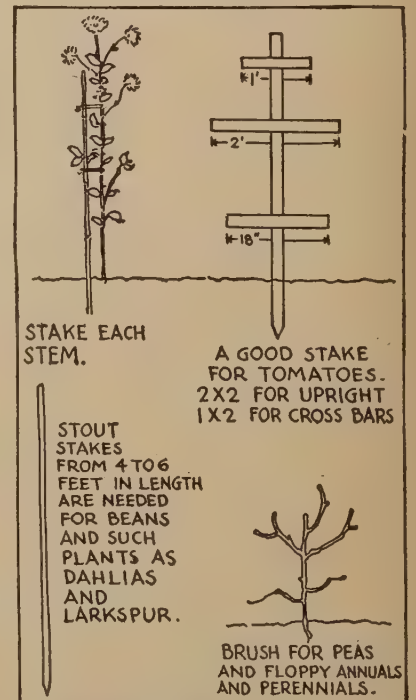
SEED FLATS such as those shown above will lengthen the season for the gardener and allow him to start tender plants indoors.

Facts About the Weather



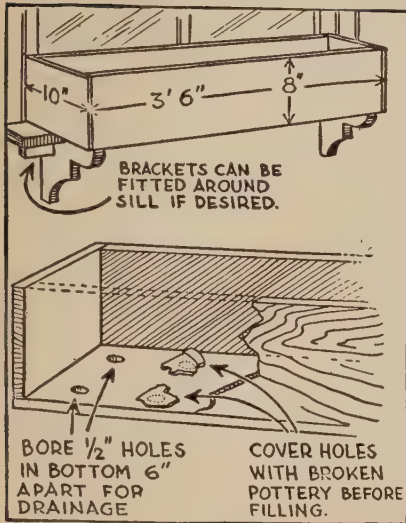
THIS U. S. DEPARTMENT of Agriculture map divides the country into planting zones, where the chances of damage from frost is only one to ten. Most gardeners may plant a little earlier and take a chance on late cold weather. Consult the local county agent or weather bureau for exact information for your locality. Two weeks earlier than the last killing frost isn't taking too much of a chance, and the early vegetables which result are well worth it.

Plant Stakes



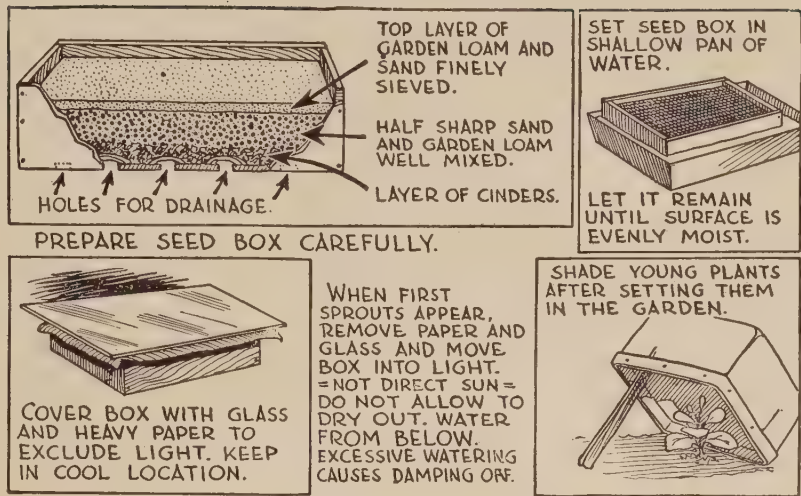
RECOMMEND strong materials for plant stakes, so they will last over a period of years. Building lathe are not satisfactory.

Window Box



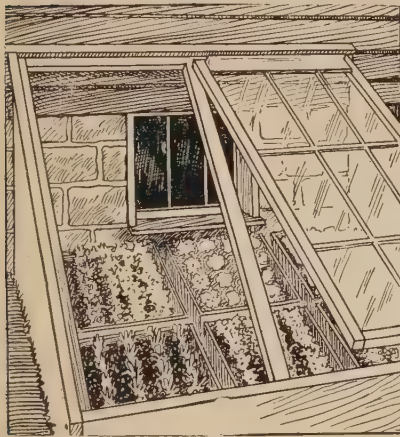
CYPRESS WOOD is excellent for window boxes because it will not overly warp, and will last for years.

Starting Seeds



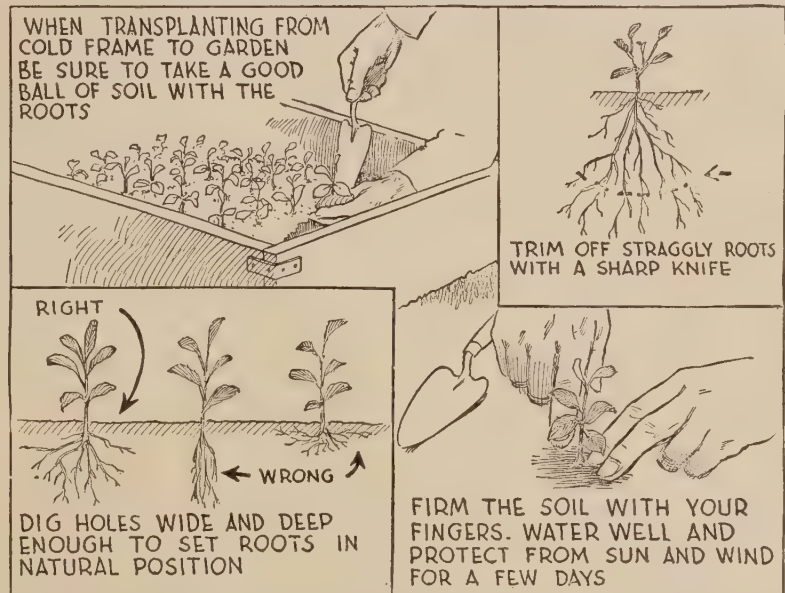
THERE ARE LOTS OF ANGLES to growing seeds in flats, and the drawing above will appeal to the careful gardener, and explain how he can easily grow some of the more difficult or tender flowers and vegetables.

Basement Greenhouse



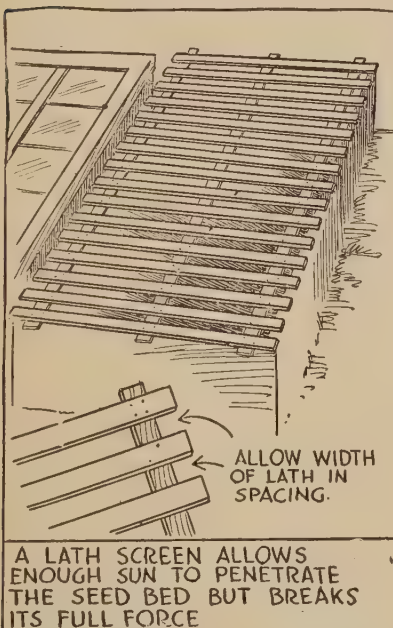
STANDARD WINDOW SASH should form the basis for a basement-window greenhouse.

Transplanting Seedlings



THIS DRAWING EXPLAINS TRANSPLANTING so that even the first year Victory Gardener can understand it.

Lathe House



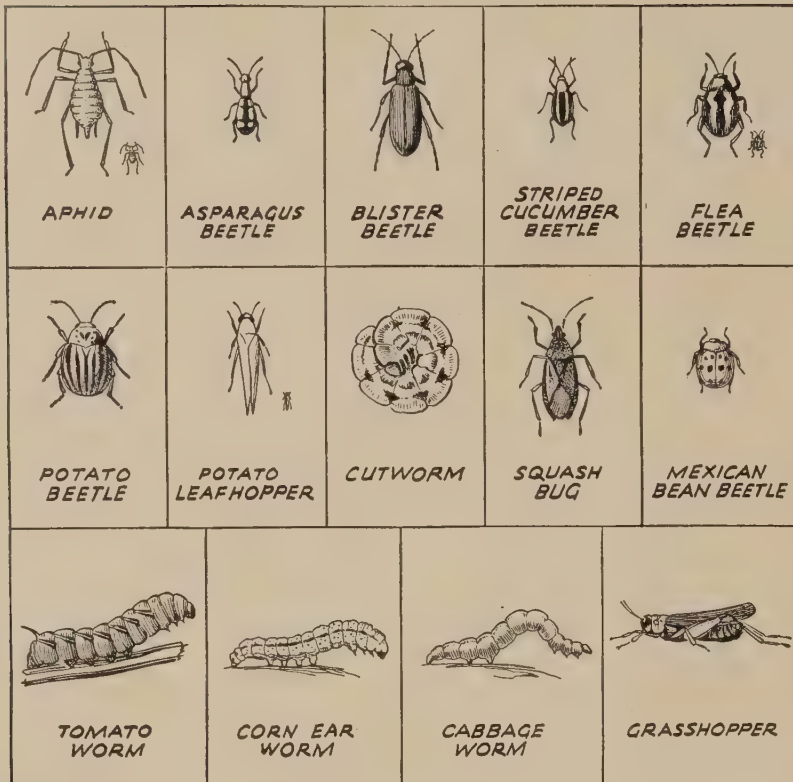
A LATH SCREEN for the cold frame or hotbed makes an excellent seedbed for perennials in the summertime. It breaks the direct rays of the sun, and keeps the bed cool.

How to Plan All-Summer Harvest of These Short Season Vegetables

In Column 1 is given the time during which the harvest from one sowing remains in top condition. In Column 2, the space in the garden row required to serve a family of four one meal. These figures are approximate, since gardening cannot be a precision job; but use them as a guide with broad tolerances, and they will help you avoid serious waste, and scarcity as well.

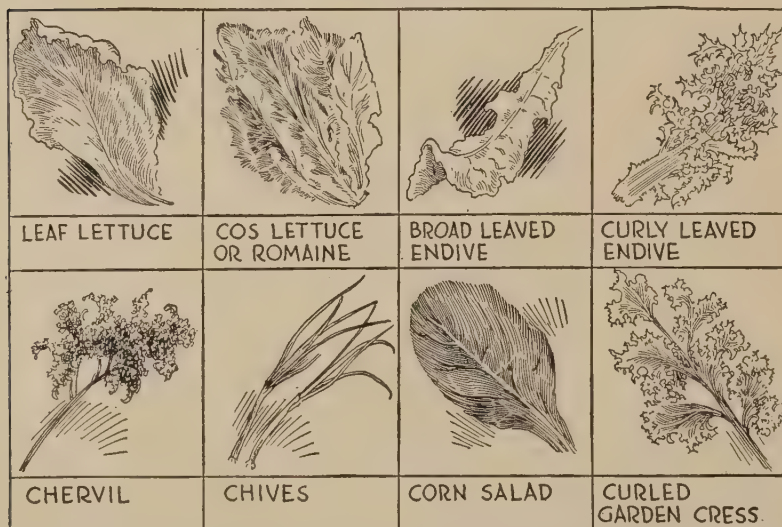
Crop	Column 1	Column 2
Beans, snap	4 weeks	1 foot
Beets	6 weeks	1 foot
Carrots	8 weeks	2 feet
Cucumbers	4 weeks	2 feet
Endive	6 weeks	1 foot
Lettuce	6 weeks	1 foot
Kohlrabi	3 weeks	2 feet
Turnips	2 weeks	1 1/2 feet
Spinach	2 weeks	3 feet
Sweet Corn	10 days	4 feet
Onion Sets	4 weeks	1 foot
Peas	2 weeks	3 feet
Radish, early	1 week	1 foot
summer	2 weeks	1 foot
winter	6 weeks	1 foot

Identify the Garden Pests



IDENTIFYING THE PEST is half the battle. Above are shown the fourteen most common garden enemies, and if the gardener can pick those he is most bothered with, the correct insecticidal remedy can be prescribed.

Eight Salad Vegetables



THE SALAD GARDEN should include more than leaf lettuce as the above selection of vegetables shows. All are easily grown in the amateur garden from seed.

Best pH Range

VEGETABLES	Best pH Range
Asparagus	6.0-8.0
Bean, Kidney	6.0-7.5
Bean, Lima	6.0-7.0
Beet, Table	6.0-7.5
Broccoli	6.0-7.0
Brussels Sprouts	6.0-7.5
Cabbage	6.0-7.5
Cabbage, Chinese	6.0-7.5
Cantaloupe	6.0-7.5
Carrot	5.5-7.0
Cauliflower	5.5-7.5
Celery	5.8-7.0
Chicory	5.0-6.5
Chives	6.0-7.0
Collards	6.0-7.5
Corn	5.5-7.5
Cress, Garden	6.0-7.0

Cucumber	5.5-7.0
Dandelion	5.5-7.0
Egg Plant	5.5-6.5
Endive	5.8-7.0
Garlic	5.5-8.0
Horse Radish	6.0-7.0
Kale	6.0-7.5
Kohl Rabi	6.0-7.5
Leek	6.0-8.0
Lettuce	6.0-7.0
Mangel	6.0-7.0
Mushroom	6.5-7.5
Muskmelon	6.0-7.0
Mustard	6.0-7.5
Onion	5.8-7.0
Parsley	5.0-7.0
Parsnip	5.5-7.0
Peas	6.0-7.5
Pepper, Sweet	5.5-7.0
Potato	4.8-6.5
Potato, Sweet	5.2-6.0
Pumpkin	5.5-7.5
Radish	6.0-7.0
Rhubarb	5.5-7.0
Salsify	6.0-7.5
Sorrel, Garden	4.0-7.0
Soybean	6.0-7.0
Spinach	6.0-7.5
Squash, Hubbard	5.5-7.0
Swiss Chard	6.0-7.5
Tomato	5.5-7.5
Turnip	5.5-6.8
Water Cress	6.0-8.0
Watermelon	5.5-6.5

FLOWERS

	Best pH Range
Ageratum	6.0-7.5
Alyssum	6.0-7.5
Anchusa	6.0-7.5
Aster, China	6.5-7.0
Aubrietia	6.0-7.5
Baby's Breath	6.0-7.5
Bachelor's Button	6.0-7.5
Calendula	5.5-7.0
Candytuft	6.0-7.0
Cardinal Climber	6.0-7.5
Carnation	6.0-7.5
Celosia	6.0-7.5
Chrysanthemum	5.5-7.5
Clarkia	6.0-6.5
Columbine	5.0-7.5
Cosmos	5.0-8.0
Crocus	6.0-8.0
Cynoglossum	6.0-7.5
Daffodil	6.0-6.5
Dahlia	6.0-7.5
Delphinium	6.0-7.5
Forget-me-not	6.0-8.0
Four-o'clock	6.0-7.5
Fox Glove	6.0-7.5
Gaillardia	6.0-7.5
Geum	6.0-7.5
Gilia	6.0-8.0
Gladiolus	6.0-7.0
Godetia	6.0-7.5
Heliotrope	6.0-8.0
Hollyhock	6.0-8.0
Ice Plant	6.0-8.0
Lantana	5.5-7.0
Larkspur	5.5-7.5
Lily, Regal	6.0-7.0
Lobelia	6.0-7.5
Love-in-a-Mist	6.0-7.5
Love-Lies-Bleeding	6.0-8.0
Lupin, Annual	6.0-7.0
Lupin, Perennial	6.5-7.5
Marigold	5.0-7.5
Mignonette	5.0-8.0
Morning Glory	6.0-7.5
Nasturtium	5.5-7.5
Pansy	5.5-6.5
Periwinkle	6.0-7.5
Peony	6.0-8.0
Petunia	6.0-7.5
Phlox drummondii	5.5-7.0
Pimpernel	6.0-7.5
Poppy	6.0-7.5

70 Years Experience

and

9

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. . . 9 MILLION ACRES of rich, fertile farm land—the World-Famous Sacramento Valley.

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Garrot
Celery
Beet
Fava Bean
Swiss Chard
Fennel
Lettuce
Peas
Mustard
Creole Peas
Radish
Turnip
Sugar Beet

Tomato
Onion
Broccoli
Austrian Winter Peas
Alaska Peas
Vetch
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Bur Clover
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Canadian Field Peas
Rye Grass
Sudan Grass
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Actually a SUMMER LETTUCE—greatly needed.
Non-Bolting—forms heads under warm weather conditions.

F. LAGOMARSINO & SONS

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Portulaca	5.5-7.0
Salvia farinacea	6.0-7.5
Salvia splendens	5.5-6.5
Scabiosa	4.8-7.5
Schizanthus	6.0-7.0
Snapdragon	6.0-7.5
Sunflower	6.0-7.5
Swan River Daisy	6.0-7.5
Sweet Pea	6.0-7.5
Sweet William	6.0-7.5
Tulip	6.0-7.0
Verbena	6.0-8.0
Wallflower	6.0-8.0
Zinnia	5.5-7.5

HERBS

	Best pH Range
Balm	6.0-8.0
Fennel	5.0-6.0
Lavender	6.5-7.5
Marjoram, Sweet	6.0-8.0
Spearmint	5.5-7.5
Wormwood	5.0-6.5

GRASSES

Bermuda	6.0-7.0
Brome	6.0-8.0
Canada Blue	6.0-7.5
Chewing's Fescue	5.5-6.5
Creeping Bent	6.0-7.0
Italian Rye	6.0-7.0
June	5.5-6.5
Kentucky Blue	5.5-7.5
Perennial Rye	6.0-7.0
Red Fescue	5.5-6.5
Redtop	5.0-6.0
Rhode Island Bent	4.5-6.0
Rough Blue	6.0-7.0
Seaside Bent	6.0-7.0
Timothy	5.5-8.0
Velvet Bent	5.5-7.0

COMMON LEGUMES

Alfalfa	6.2-7.8
Alsike Clover	5.5-7.5
Crimson Clover	5.5-7.0

Red Clover	6.0-7.5
White Sweet Clover	6.5-7.5
Yellow Sweet Clover	6.5-7.5
White Clover	5.6-7.0
Hairy Vetch	5.2-7.0

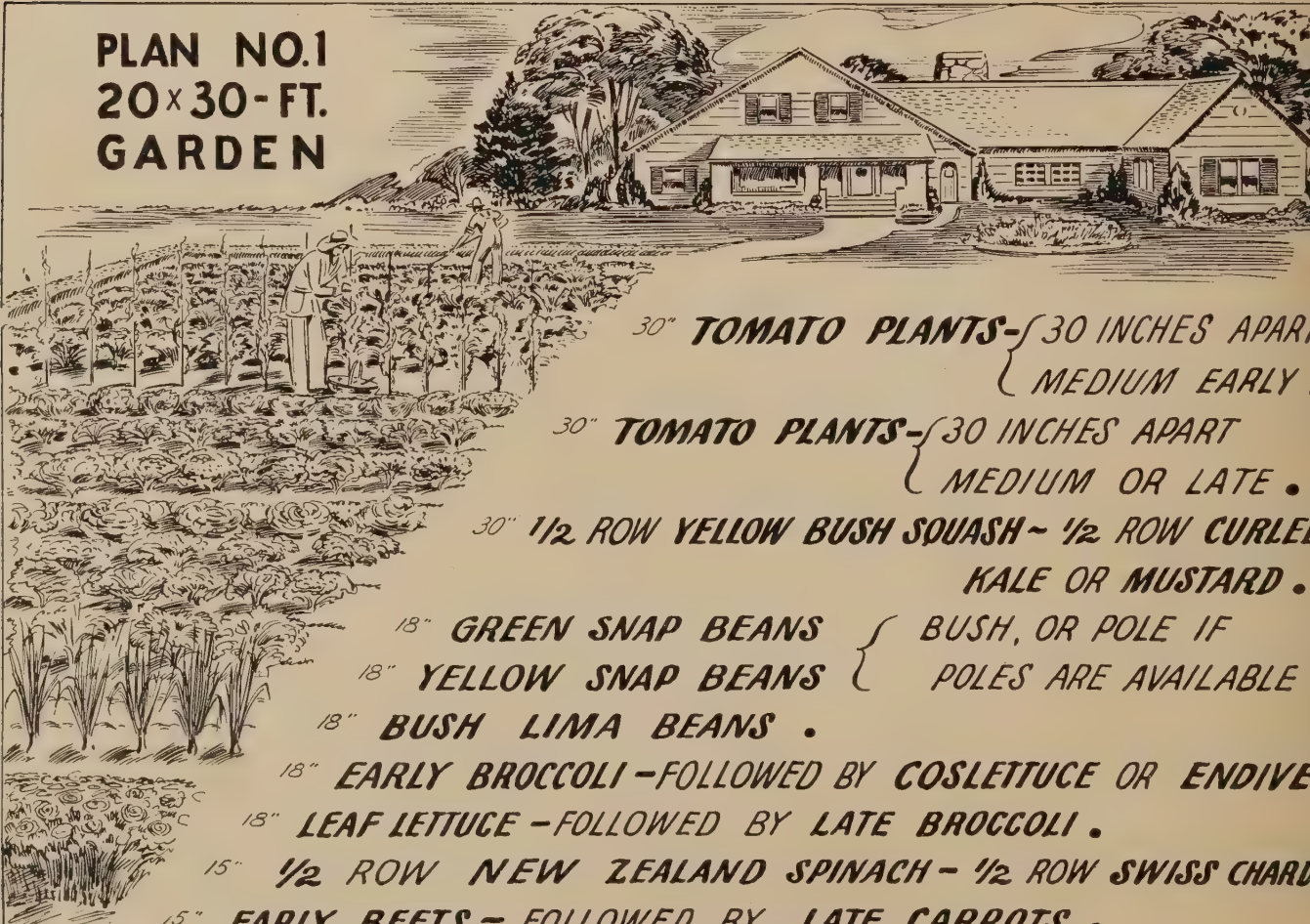
CEREALS

Barley	6.5-7.8
Buckwheat	5.5-7.0
Oats	5.0-7.5
Rye	5.0-7.0
Wheat	5.5-7.5

COMMON ACID LOVING PLANTS

Azalea	4.5-6.0
Bittersweet, American	4.5-6.0
Blueberry	4.5-6.0
Cranberry	4.2-5.0
Hydrangea hortensis	4.0-5.0
Lily of the Valley	4.5-6.0
Orchid	3.5-5.5
Rhododendron	4.0-6.0
Japanese Spurge	4.5-5.5
Strawberry	5.0-6.5

Victory Garden Plan for the Small Family



**PLAN NO.1
20 x 30- FT.
GARDEN**

30" TOMATO PLANTS - 30 INCHES APART
MEDIUM EARLY .

30" TOMATO PLANTS - 30 INCHES APART
MEDIUM OR LATE .

30" 1/2 ROW YELLOW BUSH SQUASH - 1/2 ROW CURLED
KALE OR MUSTARD .

18" GREEN SNAP BEANS } BUSH, OR POLE IF
18" YELLOW SNAP BEANS } POLES ARE AVAILABLE .

18" BUSH LIMA BEANS .

18" EARLY BROCCOLI - FOLLOWED BY COSLETTUCE OR ENDIVE .

18" LEAF LETTUCE - FOLLOWED BY LATE BROCCOLI .

15" 1/2 ROW NEW ZEALAND SPINACH - 1/2 ROW SWISS CHARD .

15" EARLY BEETS - FOLLOWED BY LATE CARROTS .

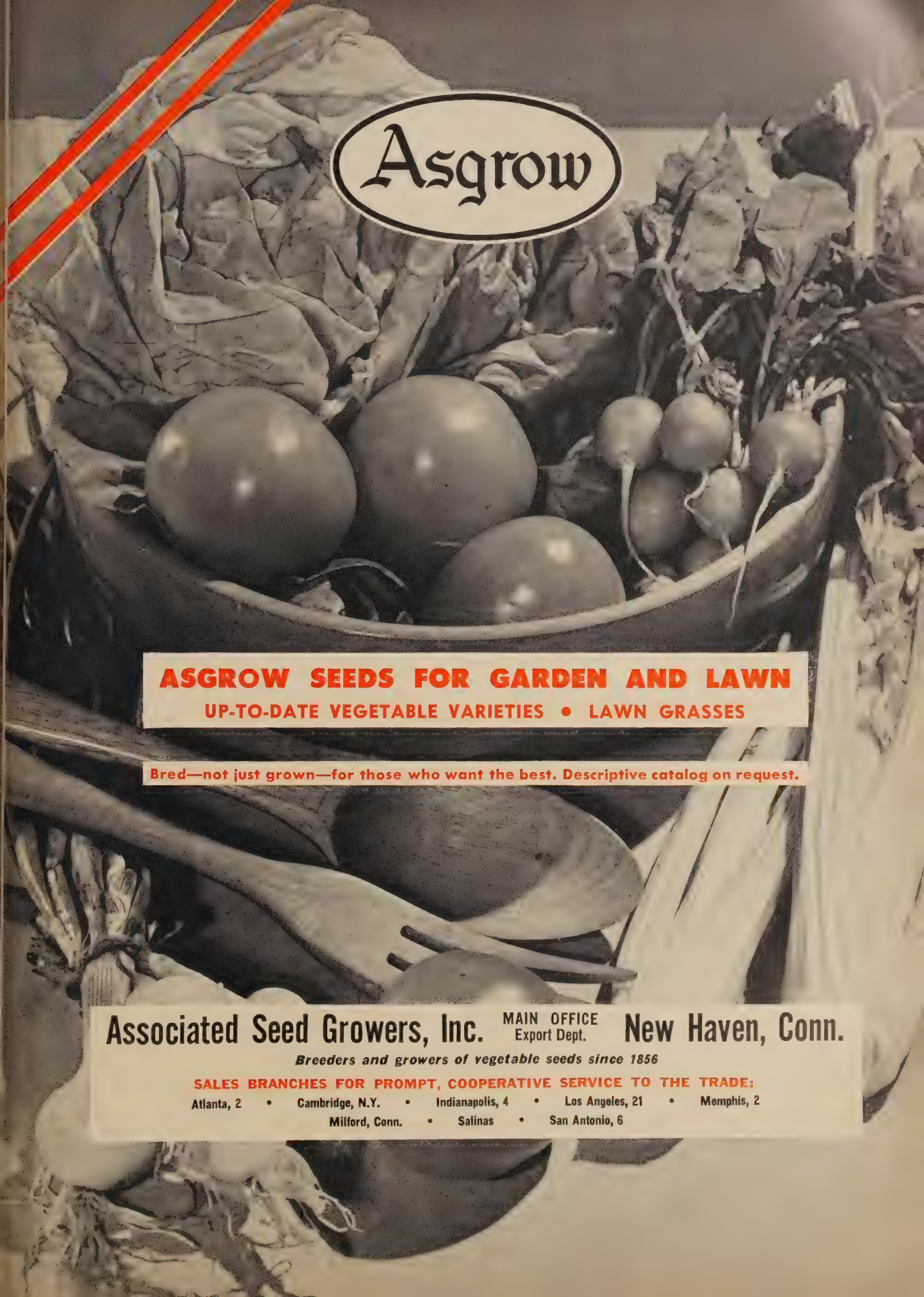
15" EARLY CARROTS - PLANT RADISH SEED WITH CARROTS - FOLLOW WITH LATE BEET .

15" ONION SETS OR PLANTS FOLLOWED BY LATE TURNIPS FOR STORING .

15" BORDER OF COLORFUL ANNUAL FLOWERS - ZINNIAS MARIGOLDS.etc .

L.A. HAWKINS

THIS GARDEN PLAN was designed by L. A. Hawkins of the Victory Garden Institute for the small family, or for the small city lot. It was widely publicized last spring and proved a successful design in most sections of the country. Although many vegetables are not included, the selection is rather complete for the size of the plot. Note the recommendation for a border of annual flowers.



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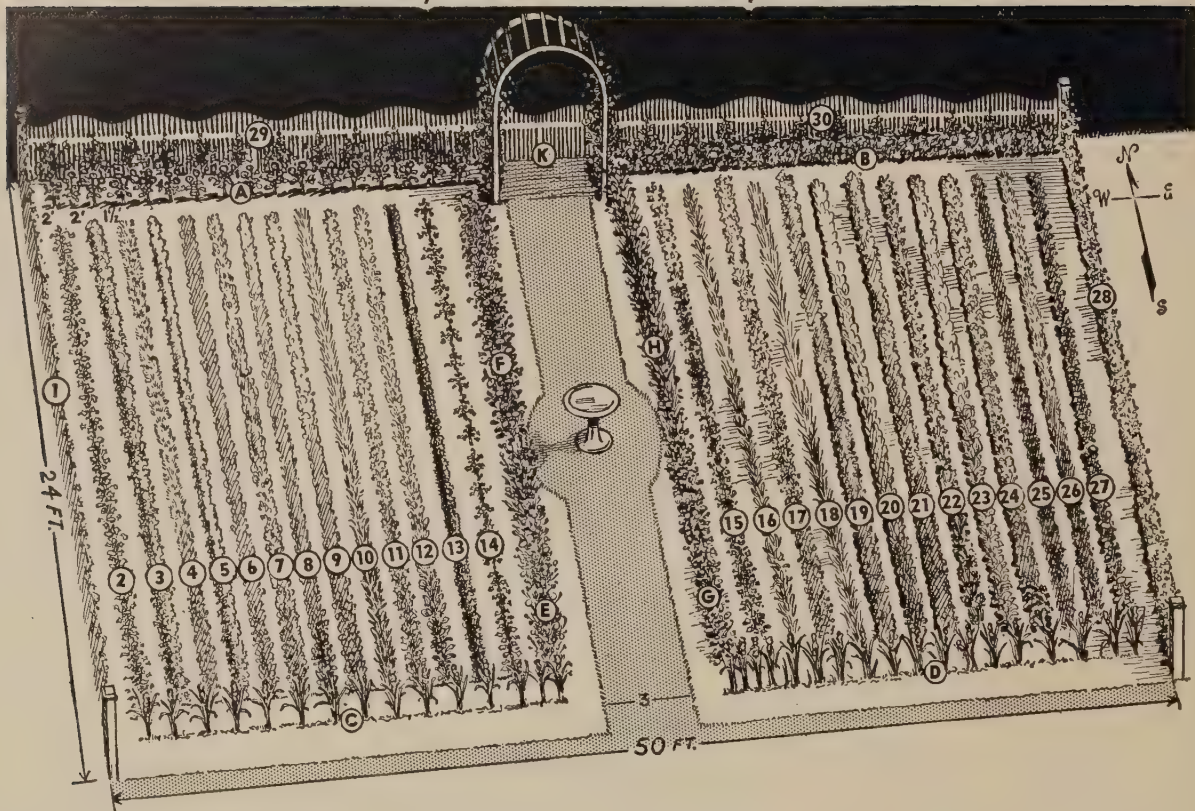
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Victory Garden Plan for Family of Four

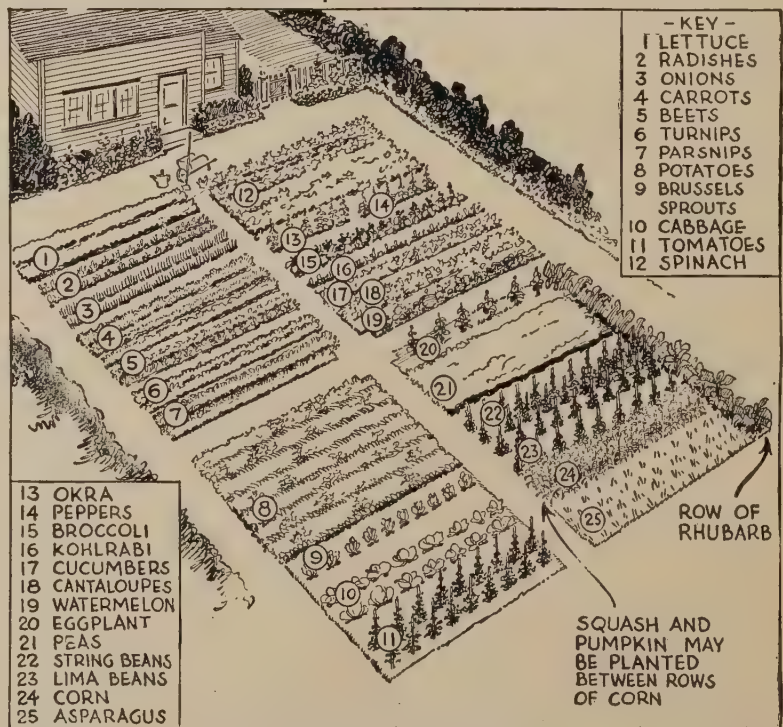


Here is the list of flowers and vegetables, each numbered or lettered to indicate its position on the plan.

- | | | | |
|--------------------------------|---|----------------|--------------------|
| 1—Pole Lima Beans on fence | 18—Spring onions | 3—Beets | 12—Green beans |
| 2—Cucumbers | 19—Peas | 4—Green beans | 17—Onion sets |
| 3—Wax beans | 20—Chard | 6—Cos. lettuce | 19—Chinese Cabbage |
| 4—Carrots | 21—Peas | 7—Onion sets | 21—Winter Radishes |
| 5—Green Beans | 22—Celery | 9—Carrots | 26—Wax Beans |
| 6—Beets | 23—Collards | 10—Endive | |
| 7—Leaf lettuce | 24—Kale | | |
| 8—Parsnips | 25—Broccoli | | |
| 9—Cos lettuce | 26—Carrots | | |
| 10—Spring onions | 27—Italian Marrow | | |
| 11—Escarolle (endive) | 28—Pole Lima Beans on fence | | |
| 12—Turnips | 29—Red tomatoes on fence, 12 plants | | |
| 13—Parsley | 30—Yellow Tomatoes on fence, 12 plants | | |
| 14—Egg Plant | | | |
| 15—Peppers | | | |
| 16—Oyster Plant (Salsify) | | | |
| 17—Green Beans | | | |
| A—Zinnias | G—Red, White & Blue Centaurea | | |
| B—Marigold | H—Calliopsis | | |
| C—Gladioli | K—On arbor red, white, blue morning glories | | |
| D—Gladioli | | | |
| E—Red, White & Blue Centaureas | | | |
| F—Salpiglossis | | | |

This garden is planned to produce a continuous yield throughout the harvest season. Rich feeding and care will combine to produce a heavy yield from small space, and the vegetables so grown will contain maximum nutritive values, and excel in tenderness and flavor.

A Complete Garden Plan



HERE IS a complete backyard Victory Garden, with most of the vegetables included. It is also laid out for beauty as well as convenience, and may well serve as an extra lot design instead of for the house lot. By adding borders of annual flowers, it can be made a thing of beauty, plus utility.



... all over the land

The Food Production picture throughout the Nation changes from year to year, and from month to month. Supply and demand do not always level off . . . weather conditions are not dependable . . . new developments in research throw new lights on soils and seeds. New problems arise daily.

Through all of these changing conditions, the Farmer must produce more and more from the land.

The Chas. H. Lilly Co. recognizes the seriousness of these problems, and is exerting every effort to supply Seed Dealers with the high quality, dependable seed essential to the fullest war production.

Spinach	Onion	Cabbage	Carrot
Chard	Parsnip	Turnip	Rutabaga
	Kale	Mustard	

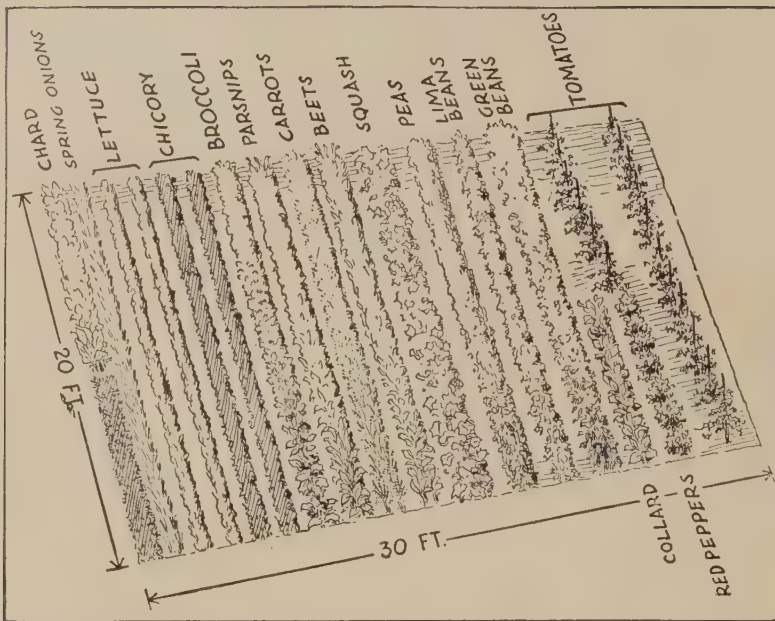
The Emblem of  *Purity in Seeds*

The Chas. H. Lilly Co.

Established 1885

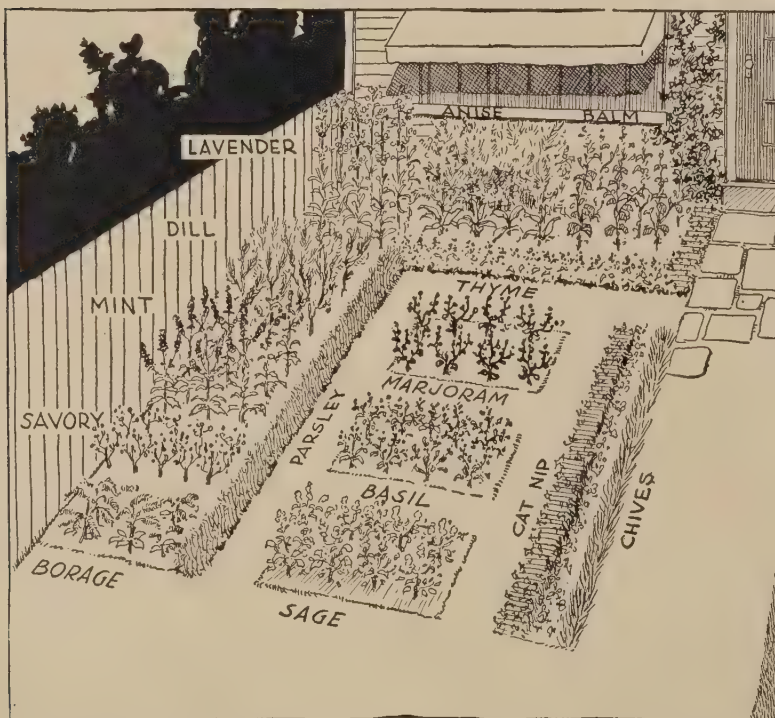
SEATTLE (4) WASHINGTON

Minimum Victory Garden



A MINIMUM VICTORY GARDEN should be at least 20 by 30 feet in area, if it pretends at all to completeness. Smaller areas may, of course, be used for single plantings of vegetables, or they may be put into flower borders.

Herb Garden for Flavors



HERB GARDENS are not grown as much as they should be, in spite of the fact that most herb plants may be started from seed, and will produce the first year.

PLANT FOOD TABLE

The standard application of a balanced plant food is 4 pounds per 100 square feet (a space 10 x 10 feet square). You may figure one pound per pint, so an area 10 by 10 ft. requires two quarts. One quart will feed 50 square feet and one pint 25 square feet.

Where smaller quantities are required, use a rounded tablespoon per square foot. For convenience, here

is a table showing some common areas and the standard balanced plant food application for each:

- 5' x 5' equals 25 sq. ft.—requires 1 lb. (or 1 pint).
- 5' x 10' equals 50 sq. ft.—requires 2 lbs. (or 1 quart).
- 10' x 10' equals 100 sq. ft.—requires 4 lbs. (or 2 quarts).
- 20' x 30' equals 600 sq. ft.—requires 24 lbs.
- 25' x 100' equals 2,500 sq. ft.—requires 100 lbs.

These Are the Vitamin-Rich Vegetables

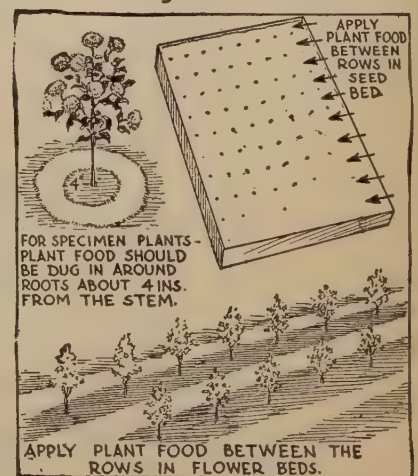
	I.U. A	I.U. B1	Mg. C	Mg. B2
Spinach	14,000	27	13	...
Chard	12,000	15	28	...
New Zealand				
Spinach	7,500	10	0.45	...
Endive	9,500	5	0.022	...
Kale	9,000	59	140	0.50
Tomatoes	6,000	52	50	0.10
Turnip Greens	6,000	35	42	0.25
Turnip Roots	...	Trace	26	...
Beet Greens	12,000	15	28	...
Beet Root	70	24	10	...
Spring Onions	6,200	...	...	...
Leaf or Cos Lettuce	6,000	18.6	4.6	.12
Green Broccoli	4,000	25	50	...
Yellow Squash	2,900	21	3.5	...
Carrots	2,700	32	3	...
Red Peppers	2,200	...	135	...
Green Peppers	600	69	0.12	...
Collards	2,200	50	22	...
Yellow Corn	1,250	22	4	...
White Corn	125	18	4	0.13
Parsley	1,000	...	11	...
Green Beans	600	20	7	...
Wax Beans	410	25	...	...
Green Peas	530	78	13	...
Parsnip	380	66	38	...
Green Celery	320	...	2	...
White Celery	2	5	2	...
Lima Beans	125	100	13	0.25
Brussels Sprouts	1,100	50	90	...

Seed Disinfectants

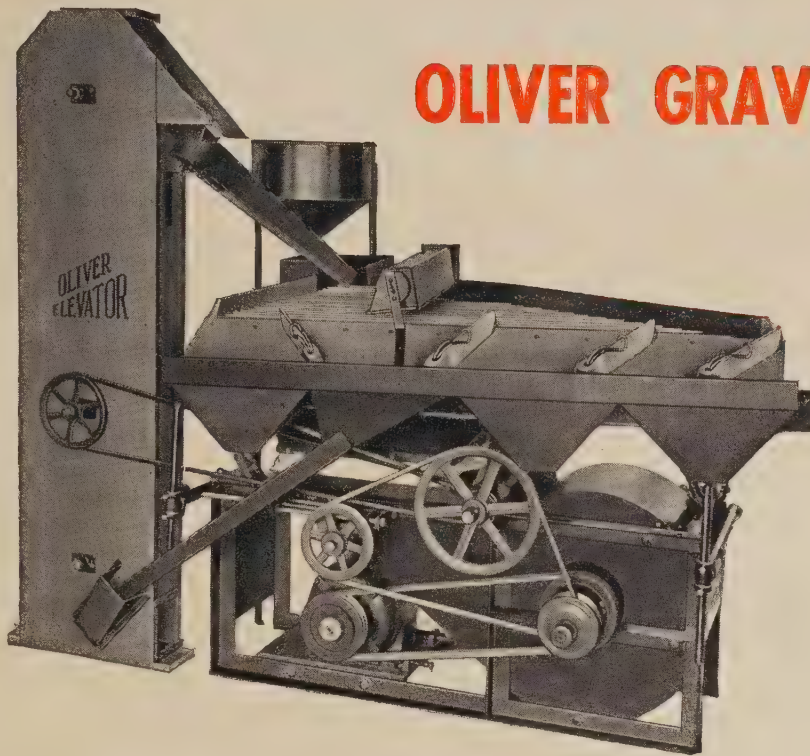


SEED DISINFECTANTS are economical safety measures for all seed plantings, whether indoors or out. Packets are available for the small garden.

Using Plant Food

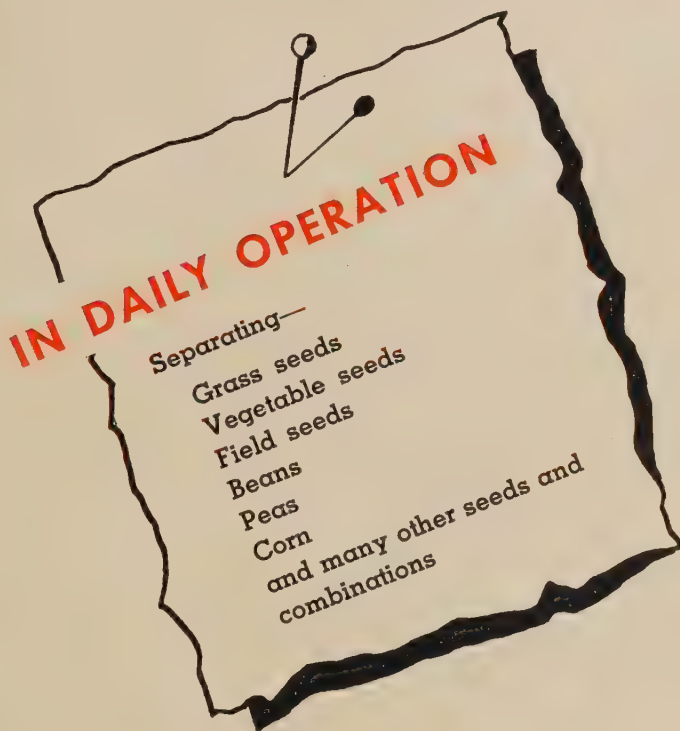


PLANT FOOD should be used intelligently, especially with growing plants.



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2. Low initial cost.
3. Quickly and easily installed.
4. Extremely low upkeep.
5. Ability to stand up to peak loads.
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SEEDS, CHIEFLY BEANS, BEETS, CARROTS, ONIONS, LEEKS, NEW ZEALAND
SPINACH, HERBS AND FOODSTUFFS.

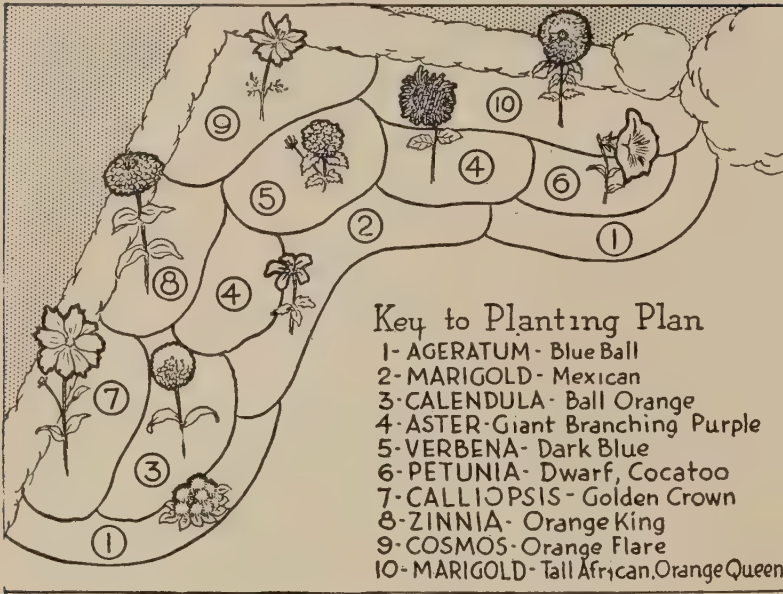
WE HOPE SOON TO TAKE UP WITH GREATER VIGOR WHERE WE LEFT OFF IN
1941 TO BE READY FOR PEACETIME DEMANDS.

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Growers

CALIFORNIA

Three Flower Garden Plans



These Vegetables Have Short Harvests

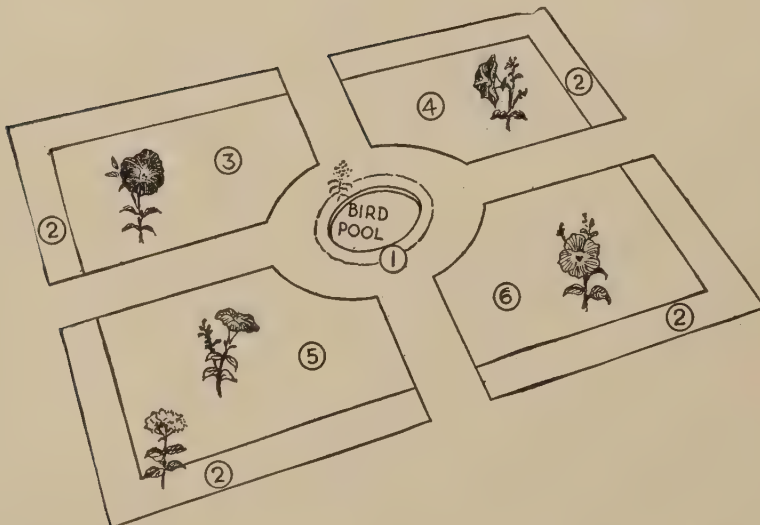
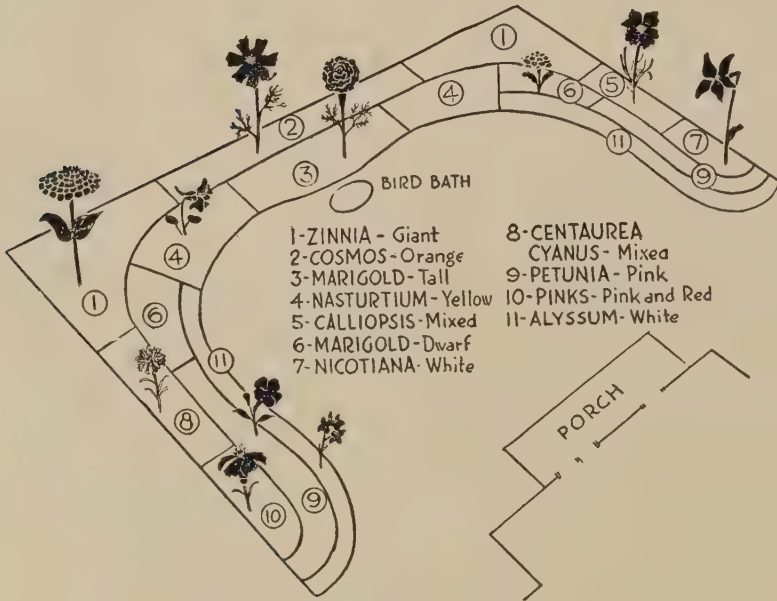
Sow only what you will eat while harvest lasts, then follow with another sowing, to keep the supply continuous.

Crop	Harvest Lasts
Beans	4 weeks
Beets	6 weeks
Carrots	8 weeks
Cucumbers	4 weeks
Endive	6 weeks
Lettuce	6 weeks
Kohlrabi	3 weeks
Turnips	2 weeks
Spinach	2 weeks
Sweet Corn	10 days
Onion Sets	4 weeks
Peas	2 weeks
Radish, early	1 week
Radish, midseason	2 weeks
Radish, winter	6 weeks

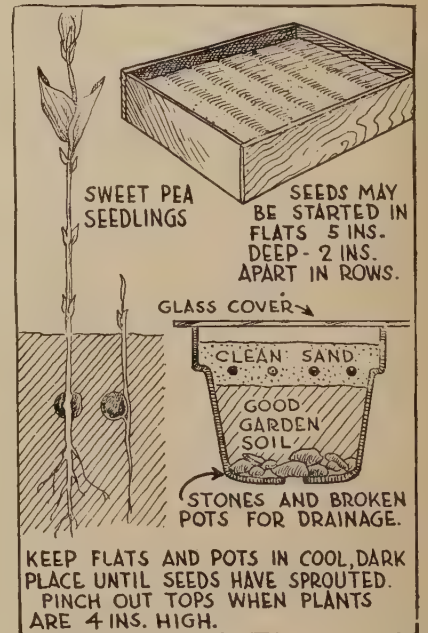
Planning Victory Garden Yields

This table shows the length of garden row required to produce one serving for a family of four.

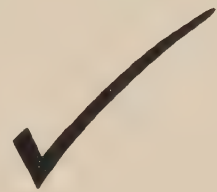
Snap Beans	1 ft.	Kohlrabi	2 ft.
Lima Beans	2 ft.	Leeks	2 ft.
Beets	1 ft.	Lettuce, Leaf	1 ft.
Broccoli	1 ft.	Spring Onions	1 ft.
Brussels		Parsley	½ ft.
Sprouts	1 ft.	Parsnips	2 ft.
Cabbage	2 ft.	Peas	3 ft.
Chinese Cabbage	1½ ft.	Peppers	1 ft.
Carrots	2 ft.	New Zealand Spinach	½ ft.
Cauliflower	2 ft.	Radish	1 ft.
Celery	1 ft.	Rutabaga	2 ft.
Collards	1 ft.	Salsify	2 ft.
Sweet Corn	4 ft.	Spinach	3 ft.
Cucumbers	2 ft.	Squash	3 ft.
Egg Plant	1 ft.	Swiss Chard	½ ft.
Endive	1 ft.	Tomatoes	½ ft.
Kale	1 ft.	Turnips	1½ ft.



Success with Sweet Peas



ONE OF THE MOST disappointing annual flowers to grow with many people is sweet peas. The drawing above provides some instructions which if followed carefully will produce outstanding results in communities where sweet peas can be grown.



DOUBLE CHECKED...

When you see the brand above you know the seed it represents has been *twice approved*.

Not only does it measure up to our own critical standards, but it has also met with the approval of a reputable wholesaler who in a conscientious attempt to deserve your good will by handling only the finest stocks of seed obtainable, relies on. . . .

McCREA

McCREA SEED COMPANY, INC. SANTA BARBARA, CALIF.

GUIDE FOR STORING VEGETABLES

Vegetable	When to Harvest	Where to Store	Ideal Temp.	Humidity and Air Conditions	Length of time will keep
Beans, Dried Shell	As ripened on plants.	Where there is dryness and ample ventilation. Fumigate beans for weevil control.	30 to 32°	Low humidity; ample air circulation.	Indefinitely
Beets	Soon as large enough to use. Medium size, best. Remove all but about 2" of tops.	In a pit, well-ventilated basement, or bank. Do not store in cellar that is hot and dry.	32 to 40°	High humidity, medium ventilation.	4 to 5 mos. Keep best in sand, cave, or if waxed.
Cabbage	When heads are moderately firm. Leave heads untrimmed and roots on for pit storage. For basement storage, rough-trim heads and remove roots.	In a pit or bank cellar. Avoid storing in basement under house because of strong odors.	32 to 40°	High humidity.	5 mos.
Carrots	Soon as large enough to use. Medium size, best. Remove all but about 2" of tops.	In a pit, well-ventilated basement, or bank. Do not store in cellar that is hot and dry.	32 to 40°	High humidity, medium ventilation.	6 mos. Keep best in sand, damp cave, or if waxed.
Celery	Strip off outside leaves, leave roots attached.	Set plants in moist sand or soil in boxes in basement. Water every 10 days. Or may be set in trenches or pits protected from freezing.	33 to 38°	High humidity, medium circulation.	2 to 4 mos.
Chinese Cabbage	Leave in garden until Nov. 1. Will stand heavy frost.	Hang up or spread on shelves, in basement.	32 to 40°	Medium circulation, high humidity.	3 to 4 mos.
Onions	Harvest before fall rains. Dry thoroughly. Do not trim stem too close—leave 2 to 4 in.	In attic, barn, or shed, or cold basement if dry.	32°	Circulation should be good, dry atmosphere.	5 mos.
Potatoes, Irish	As soon as mature. Dry thoroughly.	In pit, cool basement, or dry floor where will not freeze.	36 to 40°	Must have dryness. Protect from freezing, dampness and direct light.	3 to 5 mos.
Potatoes, Sweet	Harvest before frost. Handle carefully to avoid bruising. Cure for 2 weeks at 80 to 90°. Do not break skin. Avoid freezing, too much moisture, and improper curing.	Store in a dry place where will not freeze, in basement or garage.	55°	Low humidity, good air circulation.	4 to 6 mos.
Pumpkin and Squash	Harvest before frost. Leave several inches of stem attached. Cure for two weeks at 80 to 90°.	In attic, barn, garage or shed where will not freeze. Do not allow one pumpkin or squash to touch another. Store in dry place.	50°	Low humidity, good air circulation.	2 to 3 mos.
Rutabagas and Turnips	Select only sound vegetables.	Store in sand in cool basement in closely covered boxes. Or may be stored in pit.	32 to 40°	High humidity and little air circulation.	2 to 3 mos.
Salsify and Parsnips	Freezing does not injure so may be taken as needed thru winter. To facilitate digging, mulch row with straw, leaves or similar material.	May be stored in basement, pit, storage cellar or garage.	32°	High humidity, medium circulation.	4 to 5 mos.
Tomatoes	Harvest light and dark green fruit before damaged by frost.	Wrap each fruit individually and place on shelves or in boxes, basement or garage.	50 to 55°	Medium humidity and air circulation.	1 month

Oregon workers find if a few ripe apples and pears are mixed with partly ripened late tomatoes, picked before frost and stored at 68 to 72° in sealed boxes, tomatoes will ripen up well.

*Compiled by "The Master Gardener."



FIELD SEEDS

SUDAN LADINO CLOVER SUNFLOWER
CANADIAN AND AUSTRIAN PEAS
MELILOTUS INDICA



Part of a 250 Acre Field of Carrots Growing on One of Our Ranches

VEGETABLE SEEDS

CARROT ONION PEAS
BEET CABBAGE BEANS

VINE SEEDS

Growers for the Wholesale Trade

PARAMOUNT SEED CO.
STOCKTON, CALIFORNIA

3 POWERFUL ANSWERS

DOW FUMIGANTS

Dow Methyl Bromide
Dow Chloropicrin
Dow Dichlorethyl Ether

Dow Fumigants are scientifically developed materials—products of Dow's vast chemical experience spanning a period of more than fifty years. Each product is designed to do a specific job—effectively and efficiently.

Complete information as to use and application of these fumigants may be obtained by writing The Dow Chemical Company.

METHYL BROMIDE THE PENETRATING FUMIGANT FOR ALL TYPES OF FUMIGATIONS



IN VAULT FUMIGATION, Methyl Bromide is introduced from the outside with simple applicator from 1 lb. can or convenient cylinders.



TARPAULIN FUMIGATION with Methyl Bromide permits fumigation wherever material is located.

Methyl Bromide, an effective and economical fumigant, has proved itself in many difficult fumigations. It possesses unusual chemical properties which make it especially useful to seed dealers and growers.

VAULT FUMIGATION

Methyl Bromide is especially well adapted for use in the fumigation vault. Its great power of penetration permits it to reach the center of every bag in the vault load. It is capable of killing insect eggs as rapidly as the more active stages, thus completely eliminating insect life with a single fumigation. Its action is rapid so that the exposure period need not exceed twelve hours. By increasing the dosage, it may be cut to four hours. Simple inexpensive equipment permits its application from outside the fumigation chamber so that with reasonable precaution no gas mask is needed except in the case of possible emergency breakage of equipment.

Write today for a complete booklet giving instructions on the construction and operation of a Methyl Bromide fumigation chamber.

TARPAULIN FUMIGATION

Through the use of a plastic-treated tarpaulin perfected by Dow, individual lots of infested seed may now be fumigated

TO YOUR FUMIGATION NEEDS



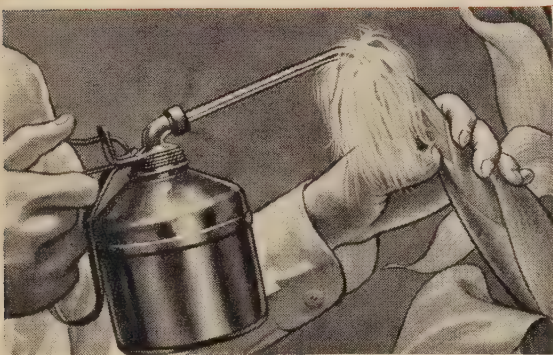
LARGE WAREHOUSE STOCKS are easily penetrated by Methyl Bromide. Kill is complete—in every stage of insect development.

at outlying points, buying stations, retail stores and other locations ordinarily not equipped for fumigation. The tarpaulin is in effect a portable, inexpensive fumigation chamber.

WAREHOUSE FUMIGATION

High diffusion rate gives Methyl Bromide exceptional penetrating power—capable of reaching the very center of every bag or container in even the largest warehouses. The kill is complete—eliminating insects in all stages of development—from egg to adult.

DICHLORETHYL ETHER PLUM CURCULIO CONTROL CORN EAR WORM CONTROL SOIL FUMIGATION



GETTING AN EARFUL OF CHEMISTRY—Armed with common pressure-type oil can, corn growers inject solution into each corn ear.

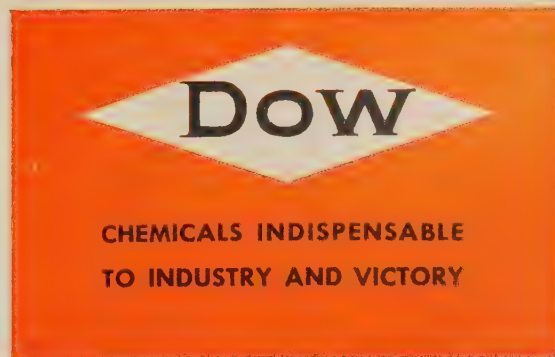
A mixture of Dichlorethyl Ether and white mineral oil effectively controls the corn ear worm. Injection is made into the ear immediately following the completion of pollination. Ether fumes kill all stages of insect development—making possible increased production of hybrid corn and increased quality of sweet corn.

Government agencies are now recommending a Dichlorethyl Ether emulsion as a dormant spray of the soil in the orchard for the control of plum curculio as an effective means of preventing the over-wintering of this destructive pest.

Dichlorethyl Ether is an inexpensive, effective soil fumigant for many insects. It is now used in vegetable crop production for the control of wireworms.

CHLOROPICRIN "SPOT" FUMIGATION, SOIL TREATMENT, RODENT CONTROL

Chloropicrin is one of the older, better-known fumigants. It may be used in buildings not sufficiently well constructed to confine other gases. It is well adapted to so-called "spot treatment" of individual machines, elevator legs and conveyors. It is widely used for rodent control. Very small quantities properly placed will drive rodents from the warehouse. It is widely recommended as a soil fumigant and not only acts as an insecticide and nematocide but also has fungicidal properties.



THE DOW CHEMICAL COMPANY, MIDLAND, MICHIGAN
New York • Cleveland • St. Louis • Chicago • Houston • San Francisco • Los Angeles • Seattle

VITAMIN CONTENT OF ORDINARY FOODS

FOOD	AMOUNT	In International Units except G, given in Sherman-Bourquin Units*				FOOD	AMOUNT	In International Units except G, given in Sherman-Bourquin Units*					
		B ₁	C	G (B ₂)	D			A	B ₁	C	G (B ₂)	D	
Apples	1 medium-sized	100	20	250	30	Kidneys	½ cup, serving	830	95		860		
Asparagus, green	6-7 stalks	430	100	350		Lemon juice	2 tablespoons			300			
Bananas	1 medium-sized	375	25	200	40	Lettuce, green	3 large leaves	1,500	15	125	30		
Beans, navy	½ cup, baked	70	50			Liver, beef	4-ounce serving	12,000	150	200	1,000		
Beans, string	½ cup cooked, incl. liquid	450	45	80		Orange juice	7 ounces	200	60	1,200	70		
Beef, lean	Average serving	70	40		100	Parsley	1 tablespoon, chopped	900		50			
Beets (roots)	½ cup, cooked	35		100	50	Peas, green	½ cup, cooked	800	100	150	100		
Beet tops	½ cup, cooked	12,000		320	250	Peaches, fresh yellow	1 medium-sized	700	10	140			
Bread, white (with milk solids)	1 slice (1 ounce)	5	6		20	Peanuts	½ cup, chopped		85		100		
Bread, whole-wheat	1 slice	6	25		25	Peppers, green	1 medium-sized	600		2,000			
Broccoli	½ cup, cooked	8,000		440	220	Pineapple juice, canned	½ cup	130	35	350	10		
Brussels Sprouts	½ cup, cooked	250		900		Pineapple, canned	2 slices with juice	100	30	200	10		
Butter	Usual square, ¼ ounce	150	11		14	8	Pork, lean	Roasted, 4 ounces		360		110	
Cabbage, green raw	½ cup shredded	550	30	600	40	Pork chop	1 small, fried		300		90		
Cabbage, cooked	½ cup	775		750		Potatoes, white	1 medium-sized	80	50	400	40		
Cantaloupe	Medium-sized half	550	7	400		Potatoes, sweet (yams)	1 medium, cooked in jacket	5,200	30	250	50		
Carrots	½ cup, cooked	3,200	10	35	40	Prunes	½ cup, cooked	2,500	85	204	60		
Carrots, raw	1 large, 3½ ounces	3,850	12	70	50	Salmon, canned red	3½ ounces (¾ cup)	250	15		80	400	
Cauliflower	½ cup, cooked	50	30	600	60	Spinach	½ cup, cooked	17,000	25	450	100		
Celery, green	2 average stalks	300		30		Squash, Hubbard	4-ounce portion, cooked	2,200	17	90			
Chard, Swiss	½ cup, cooked	12,000		320	250	Tomatoes, ripe	½ cup, cooked or canned	1,050	35	300			
Cheese, cheddar	¾-inch cube	400			30	Tuna, canned	3½ ounces (¾ cup)	8,900	33		33	50	
Cream, light	1 tablespoon	150			8	Turnips	1 medium-sized		40	360	20		
Cream, heavy	1 tablespoon	340			8	Turnip greens	½ cup, cooked	7,000	12	350	260		
Dandelion greens	½ cup, cooked	18,000		700	75	Whole-wheat cereal	1-ounce serving		48		27		
Eggs	1 whole egg	600	15		60	8	Whole-wheat fortified with 5% wheat germ	1-ounce serving		61		30	
Fish, lean (not the oily types)	4 ounces, fried		65			Yeast	1 cake, compressed	3,100	150		50	400	
Grapefruit	One-half		40	1,200	40								
Grapefruit juice	½ cup, canned		12	700	45								
Grapefruit juice	½ cup, fresh		12	850	45								
Kale	½ cup, cooked	20,000	12	720	200								

*Some nutrition charts give Vitamin G (B₂), Riboflavin, in micrograms: 1 microgram equals ⅓ Sherman-Bourquin Unit. (Material in this table courtesy of Better Homes & Gardens)

WHOLESALE GARDEN SEEDS



BEANS, BEET, CABBAGE, CARROT, CAULIFLOWER, CORN, CUCUMBER,
LEEK, LETTUCE, ONIONS, PEAS, PUMPKIN, RADISH, SPINACH,
SQUASH, SWISS CHARD, SWEDE, TOMATO, TURNIP.



CANADIAN PRODUCTION
IN
ALBERTA, BRITISH COLUMBIA, QUEBEC



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K. N. GLOVER
BROOKS, ALTA.

CANADA

Computing Seed Requirements Per Acre

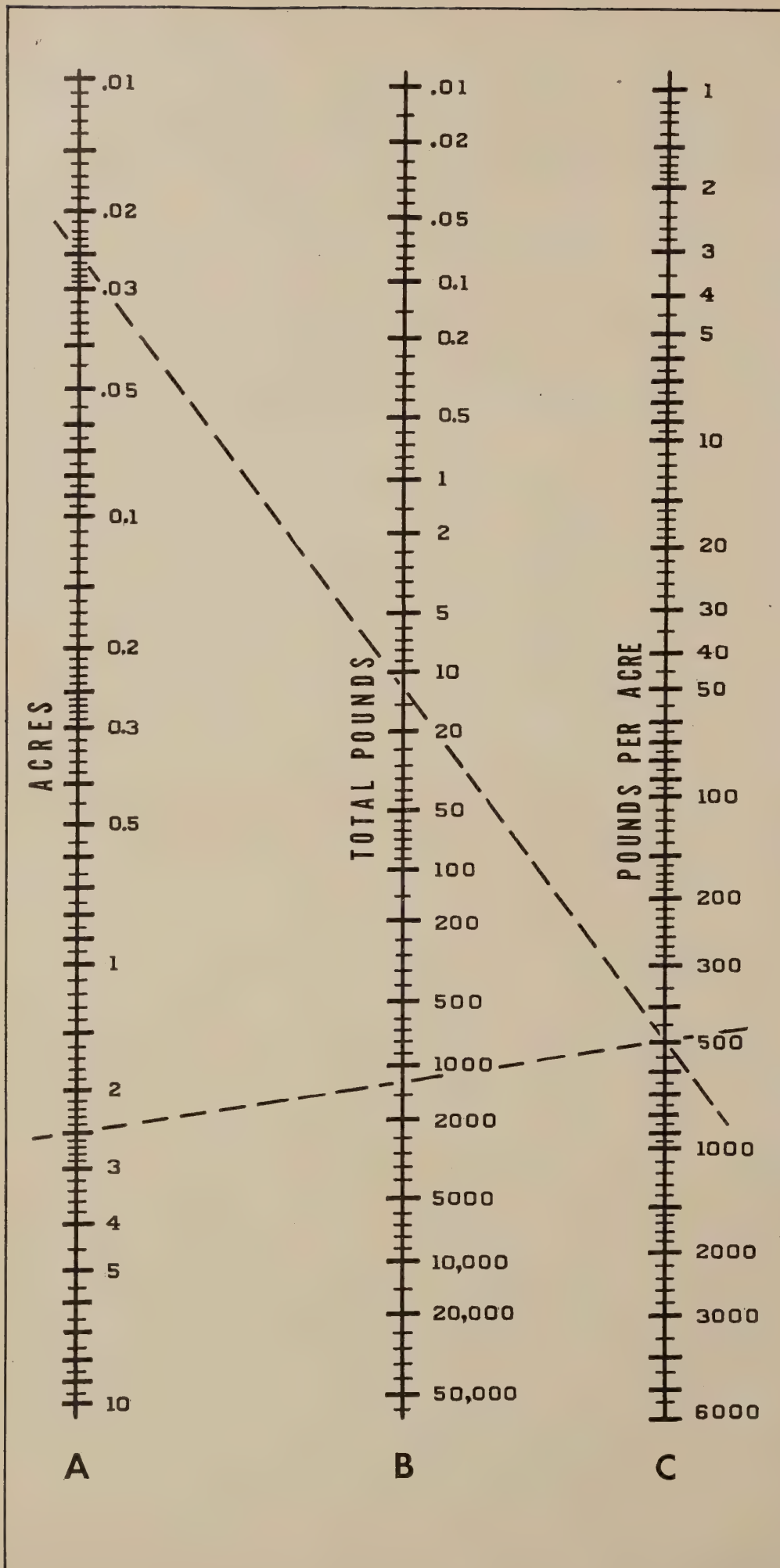
Seed specialists frequently have occasion to compute problems. This chart will prove to be a great help in making computations involving "pounds of seed per acre." The chart gives the total number of pounds of seed to be used on any plot of ground without any "longhand" figuring whatever.

For example, let us suppose that you want to sow 500 pounds of seed per acre. Let us also suppose that the plot is very small—only .025 acre. How many pounds of seed should be used?

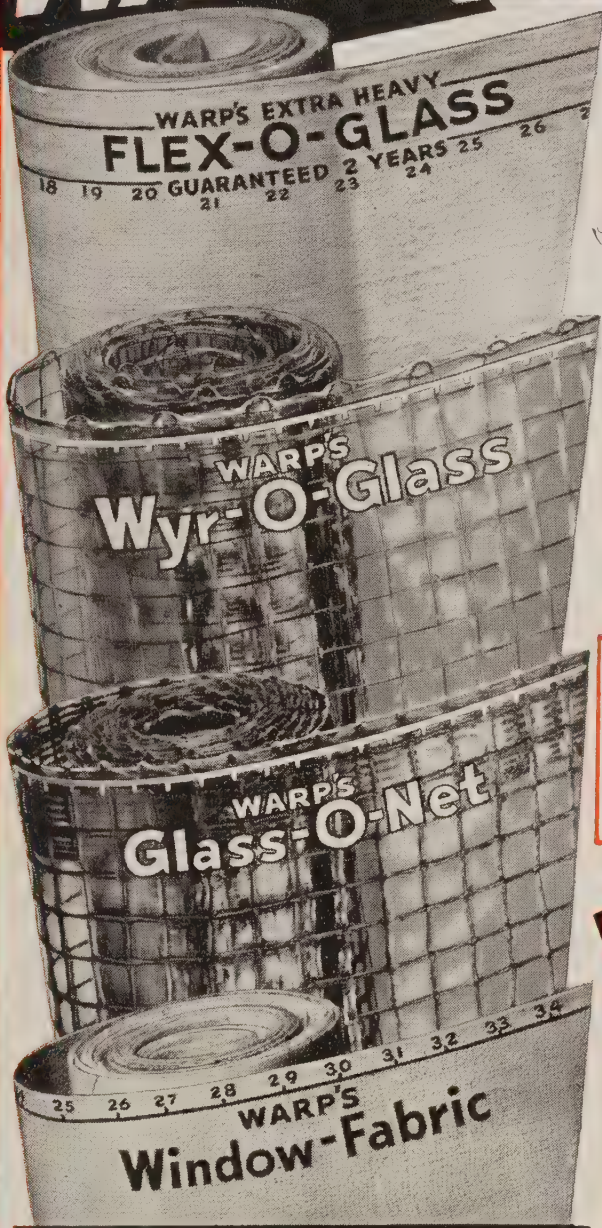
Run a straight line through the .025, column A, and the 500, column C, and the intersection with column B gives the answer as 12.5 pounds. One of the dotted lines drawn across the chart shows how it is done.

The other dotted line across the chart shows that if there are 2.5 acres, and that if you are told to sow 500 pounds per acre, the answer is 1250 pounds of seed.

The range of the chart is from .01 acre to 10 acres, and one pound per acre to 6000 pounds per acre. However, by keeping tab on the ciphers this chart is easily applicable to ANY number of acres and ANY number of pounds—per acre. Thus if the plot is 25 acres,—12,500 pounds; 250 acres,—125,000 pounds; etc. With the aid of this chart you will be able to quickly do problems that might produce headaches and consume much time when performed by the old longhand method.



WARP'S WINDOW MATERIALS



LET THROUGH ULTRA-VIOLET LIGHT

The Sunshine Vitamin "D" Rays

KEEP IN HEAT—HOLD OUT COLD—BETTER THAN GLASS



Porch Enclosures



Storm Doors & Windows

- Poultry House Windows
- Brooder House Fronts
- Porch Enclosures
- Storm Windows
- Storm Doors
- Barn Windows
- Hog House Windows
- Rabbit Hutches
- Hot Beds Cold Frames
- Greenhouses
- Sky Lights
- Factory Windows
- Office Partitions
- To Diffuse Light



Under Glass Under Flex-O-Glass



Poultry House Windows



Hot Beds Cold Frames

It Pays to handle Warp's complete line of Window Materials! If temporarily out of one, you can satisfy your customers with another and always make the sale.

YOU GET ALL THIS for only 27⁰⁰

Special Deal
A COMPLETE LINE

FREE Counter Display of Warp's Super-Quality Window Materials helps overcome Mail-Order competition.

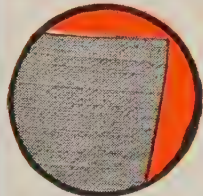
	Sq. Ft.	Width per roll	Sells For
50 Sq. Yds. Flex-O-Glass 36"	450		35¢ yd.
25 Sq. Yds. Window-Fabric 36"	225		27¢ yd.
15 Sq. Yds. Glass-O-Net 36"	135		57¢ yd.
10 Sq. Yds. Wyr-O-Glass 36"	90		81¢ yd.

All Packed in One Box—Weight 65 lbs. Retail for \$40.70



Cat. No. SPD200

Warp's Genuine
FLEX-O-GLASS
GUARANTEED TWO FULL YEARS

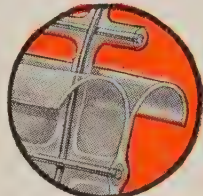


Retails at **35¢** Sq. Yd.

LEADING WINDOW MATERIAL
Let's Thru More Healthful Ultra-Violet Rays than other Substitutes (clear across the Spectrum) as proved in various Authentic Tests, and Holds in Heat Better Than Glass.
Absolutely Waterproof-Unbreakable. Has 120 strong, preshrunk Threads per Square In. Impregnated with composition that will not run, discolor or melt in a Window.
Extra Heavy—Extra Durable.
Most Widely Used—Extensively advertised. Feet, Yards, and Inches plainly printed along Selvage for easy cutting.

Cat. No.	Yds.	Width	Sq. Ft.	Lbs.	Dealer's Cost
FOG-100	100 yds.	36"	900	56	\$23.50
FOG-50	50 yds.	36"	450	28	11.75
FOG-25	25 yds.	36"	225	16	5.88

Warp's
WYR-O-GLASS
GALVANIZED WIRE BASE

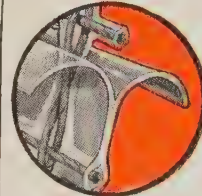


Retails at **81¢** Sq. Yd.

A WIRE BASE PLASTIC GLASS
Extremely tough and very transparent. Extra high in Ultra-Violet Ray transmission. Tough 1/4 Inch mesh Galvanized Wire Base, drawn Tough and Thin to admit more light.
Every Joint and Wire imbedded in a cushion plastic for double reinforcing.
Plastic Glass applied to both sides, sealing everything into one Solid Weatherproof Sheet.
No cheap rosin or glue to discolor or decompose, and—no air pockets to trap moisture in Warp's Wyr-O-Glass.

Cat. No.	Yds.	Width	Sq. Ft.	Lbs.	Dealer's Cost
WOG-50	50 yds.	36"	450	28	\$27.00
WOG-25	25 yds.	36"	225	14	13.50
WOG-10	10 yds.	36"	90	7	5.40

Warp's
GLASS-O-NET
RE-INFORCED MESH BASE

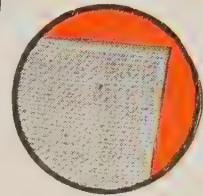


Retails at **57¢** Sq. Yd.

MESH BASE GLASS SUBSTITUTE
Made on 1/4 inch mesh Waterproofed Cords. Extra strong. Dyes Light Fast Green. Every Cord imbedded in Cushion Plastic to eliminate air pockets where greatest strain occurs.
Plastic applied over Cushion and Cords to seal everything together into one solid weatherproof sheet.
Very Transparent, High Ultra-Violet Ray transmission. Can be washed with Soap and Water.
No cheap rosin, glue or paste to decompose in Warp's Glass-O-Net, and no air pockets to trap moisture.

Cat. No.	Yds.	Width	Sq. Ft.	Lbs.	Dealer's Cost
GON-50	50 yds.	36"	450	18	\$19.00
GON-25	25 yds.	36"	225	10	9.50
GON-15	15 yds.	36"	135	6	5.70

Warp's
WINDOW-FABRIC
ORDINARILY LASTS 1 SEASON



Retails at **27¢** Sq. Yd.

THE BIGGEST SELLER IN THE LOW PRICE FIELD
Popular priced competitive plain waxed cloth. Over 80 threads per Square Inch. Impregnated with light stable, high melting point wax.
Lets through Sun's Ultra-Violet Rays.
Holds in heat better than glass.
Every Yard, Foot and Inch plainly marked along edge for easy measuring and cutting.

Cat. No.	Yds.	Width	Sq. Ft.	Lbs.	Dealer's Cost
WF-100	100 yds.	36"	900	42	\$18.00
WF-50	50 yds.	36"	450	22	9.00
WF-25	25 yds.	36"	225	12	4.50

All items on this page are manufactured by FLEX-O-GLASS MFG. CO. (Warp Bros.), 1104-6-8 No. Cicero Ave., Chicago, Ill. Distributed by Leading Hardware Jobbers — (Not Sold by Mail Order Houses) — Samples Free on Request

OTHER WARP BROTHERS' PRODUCTS
SCREEN-GLASS, VI-O-TEX, WINDOW-TEX, WYR-KRAFT, PLASTIC-SCREEN

Prepare!

for the army of

VICTORY GARDENERS *next spring*

CATALOGS

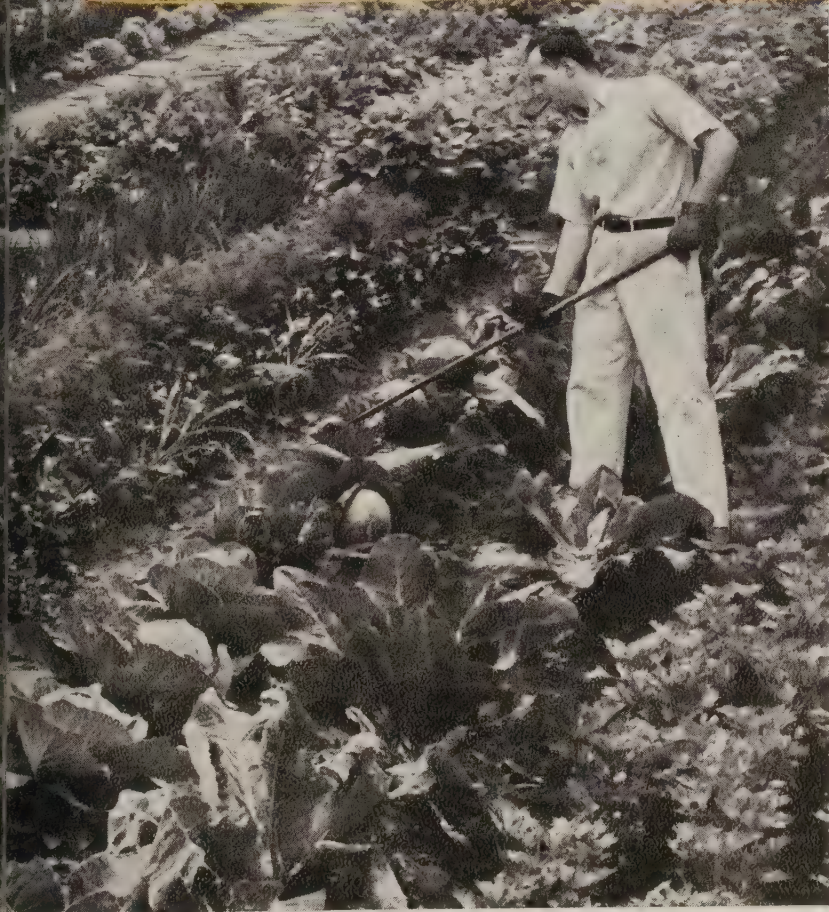
As we see it, a thoughtfully planned catalog can sell an idea as well as the most silvery-tongued salesman. Let Victory Gardens be the idea, with mouth-watering photographs and really instructive text.

with **McFARLAND Printing**

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An attractive folder, well prepared and illustrated, can be your "calling card" in the homes of prospective gardeners.





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Last spring "Vegetable Gardening in Color" and now "Garden Flowers in Color," both written by Daniel J. Foley, completely McFarland-produced and Macmillan-published. Our personal offering to the horticultural world.

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Our tags and labels for all kinds of plants literally cover the country, and have sold carloads of packaged nursery stock.

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Also selected strains of

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TOMATO
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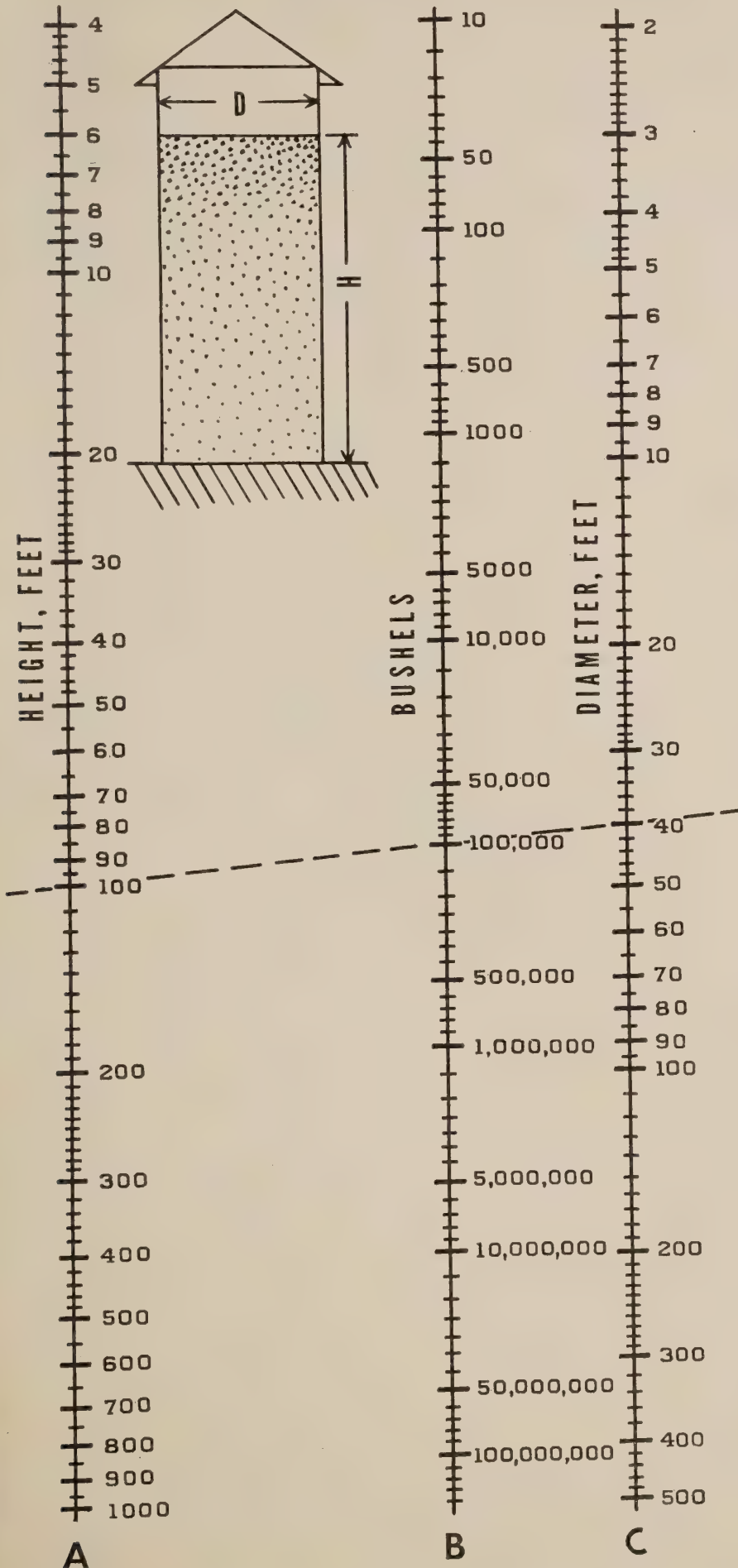
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SQUASH

*Wholesale Growers
1900-1944*

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SEND FOR PRICE-LIST AND CONTRACT PRICES

EDGAR F. HURFF COMPANY
SWEDSBORO, NEW JERSEY

How Many Bushels in Any Cylindrical Bin?



This chart makes it easy to determine the number of bushels in any cylindrical bin of ordinary size as well as extra-ordinary sizes—up to 500 ft. in diameter by 1000 ft. high.

To use the chart simply run a straight line across it connecting the height H in feet, column A, with the diameter D in feet, column C, and the number of bushels is immediately given in the middle column—column B. Pencil figuring is unnecessary.

For example: How many bushels in a circular bin 100 ft. high by 40 ft. in diameter? The dotted line drawn across the chart shows how it is done. Run a straight line through the 100, column A, and the 40 in column C, and the intersection with column B gives the answer as about 100,000 bushels. You read the columns in the same way that you read an ordinary thermometer.

The chart may also be used "backwards" for finding the size of bin that must be built to hold any number of bushels. Thus if you should want to build a bin that will hold 100,000 bushels you will find a limitless number of combinations because any straight line through the 100,000 in column B will give an answer. But of course there is only one "most economical" answer. What the builder usually wants is the most practical size—the size that will hold the most grain per dollar of cost and that will best fulfill all other requirements.

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Write for 58 page catalogue No. 12.

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Robinson Seed Co., The J. C., Rocky Ford
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Woodruff & Sons, Inc., F. H., Rocky Ford
Woodside Seed Growers Co., Rocky Ford

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Associated Seed Growers, Inc., New Haven
Rogers, Maurice, Orange
Woodruff & Sons, Inc., S. D., Orange
Comstock, Ferre & Co., Wethersfield
Hart Seed Co., The Chas. C., Wethersfield

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Thomson, W. H., Lloyd
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Concord Corp., Cairo
Richter & Sons, P. A. (Collard), Cairo
Robinson Co., W. H. (Collard), Cairo

IDAHO

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Duthie Company, Lewiston
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Moscow-Idaho Seed Co. (Peas and Beans), Moscow

Washburn-Wilson Seed Co. (Peas and Beans), Moscow

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Associated Seed Growers, Inc., St. Anthony

Woodruff & Sons, Inc., F. H., St. Anthony
Brown Seed Co., Alfred J., Twin Falls

ILLINOIS

Michael-Leonard Co., Chicago
Rogers Bros. Seed Co. (Peas, Beans and Sweet Corn), Chicago
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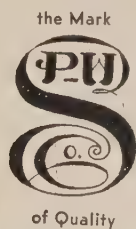
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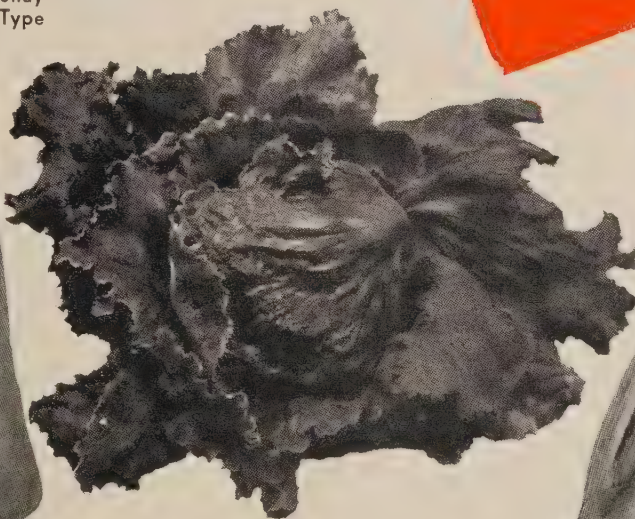
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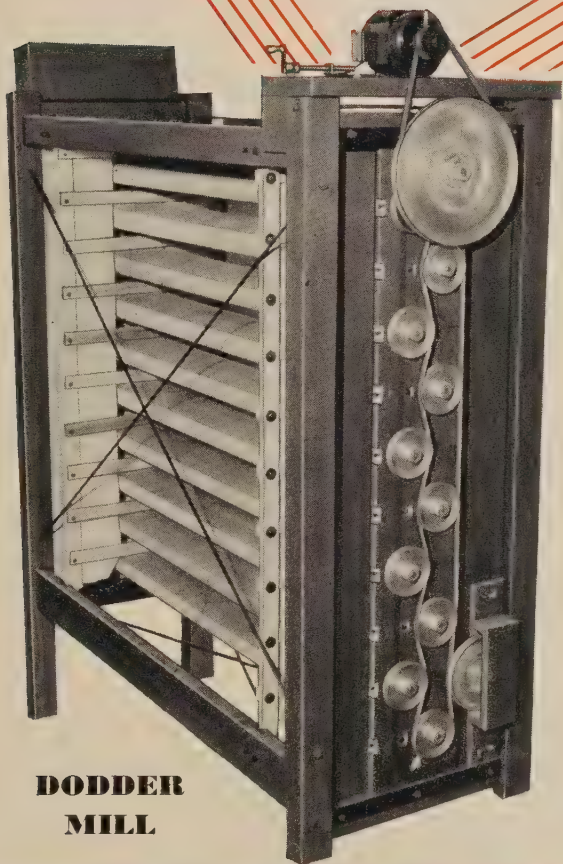
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 Taylor Seed Co., G. M. (Blue Grass),
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 Cayce-Yost Co., Hopkinsville
Brent Seed Co., The C. S., Lexington
Chambers Seed Co., Louisville
 Hall Seed Co., Louisville
 Lewis Seed Co., Louisville
Louisville Seed Co., Louisville
National Seed Co., Louisville
Ross Seed Co., Louisville
Watts, Owen T., Louisville
Young & Conway, Morganfield
 Yopp Seed Co., Paducah
 Brent & Co., Inc., Paris
 Spears & Sons, Woodford, Paris
 Spears-Kiser Co., Paris
Wilson, Jas. S., & Sons, Paris
 Mahan Co., Winchester
 Sphar & Co., Winchester
Sphar & Gay Seed Co. (Bluegrass), Win-
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 Louisiana Certified Seed Growers Assn.,
 Inc., Alexandria
 Guaranty Seed Co., Bunkie
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Nolin, W. T., Hamburg
 Pelican State Seed Co., Hessmer
 Baque Seed Co., Lafayette
Reuter Seed Co., Inc., New Orleans
 Steckler Seed Co., Inc., New Orleans
 Kalmbach-Burckett Co., Inc., Shreveport
 Wilson Seed Co., Lane, Shreveport
 Tyner-Petrus Co., West Monroe

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Scarlett & Co., Wm. G., Baltimore

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Breck & Sons, Jos., Boston
Dickinson Co., The Albert, Boston
 Emerson Co., Thos. W., Beverly
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Cargill, Incorporated (Seed Div.), Minneap-
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Edgerton, Leslie, Minneapolis
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Clover), Minneapolis
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Appel Commission Co., C. H. (Broker), St.
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Corneli Seed Co. St. Louis
Mangelsdorf & Bro., Inc., Ed. F., St. Louis
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Michael-Leonard Co., Billings
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 Barkemeyer Seed Co., Great Falls
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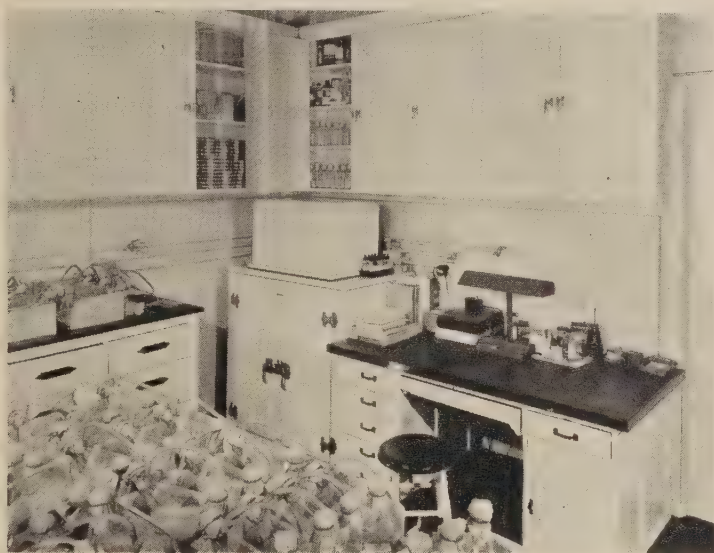
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QUALITY STRAINS OF HIGH VITALITY

An unceasing search for perfection



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Ferry-Morse policy demands an unceasing search for perfection, regardless of the worth of existing strains of vegetable seeds.

That's why Ferry-Morse seed breeders inspect several million Radishes each spring; check thousands of Beets for color, zoning, texture; examine great quantities of Cabbage, Carrots, Tomatoes; inspect vegetables at the produce terminals; visit the fields of growers everywhere. That's why thousands of trials for trueness to type are made at Ferry-Morse Seed Breeding Stations every year.

For Ferry-Morse seed breeders recognize that the greatest contribution they can make to the vegetable growing industry of this country—upon which so much depends—is the maintenance of, and where possible, the improvement in, the quality of Ferry-Morse seeds.

Ferry-Morse

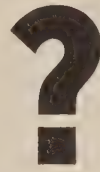
SEED CO.

DETROIT

SAN FRANCISCO

California's BEST Flower Seeds

PROSPECTS FOR 1944 - - -



Will you be growing the usual line of Flower Seeds in 1944? What are the prospects for increased bookings and has the labor situation improved any? These and similar questions are the gist of many letters recently received. Unfortunately we cannot answer these inquiries with an optimistic "yes," as sufficient labor is extremely short and California is going all out on food production.

Flowers are still not officially recognized for their stimulating effect on the morale of millions of Victory Gardeners, so food production is now the key-note of our farming operations.



By considerably reducing our Flower Seed acreage in 1943 we added our small contribution to the Victory Garden program with acreages in Turnip, Radish, Peas, Broccoli, Spinach and Cauliflower for seed production. In California we can "double crop" a great many items, and after harvesting most of the early Vegetables and Flower Seed varieties, we immediately planted this same land to Lettuce, Spinach and Broccoli for the produce market.

We are telling you these things so you will better understand what we are doing now.



Flower Seed production with us will be continued on the same reduced scale in 1944. Although we are continuing to keep up our stock seed on items now out of commercial production, we will list in our new catalog only those Flower varieties of universal popularity which require the least amount of hand labor to produce. All Americans have but one aim today—to do their share in winning the war.

Macdonald's part is growing food for strength and Victory.



The WM. MACDONALD SEED CO.
Exclusive Flower Seed Growers
Santa Maria California

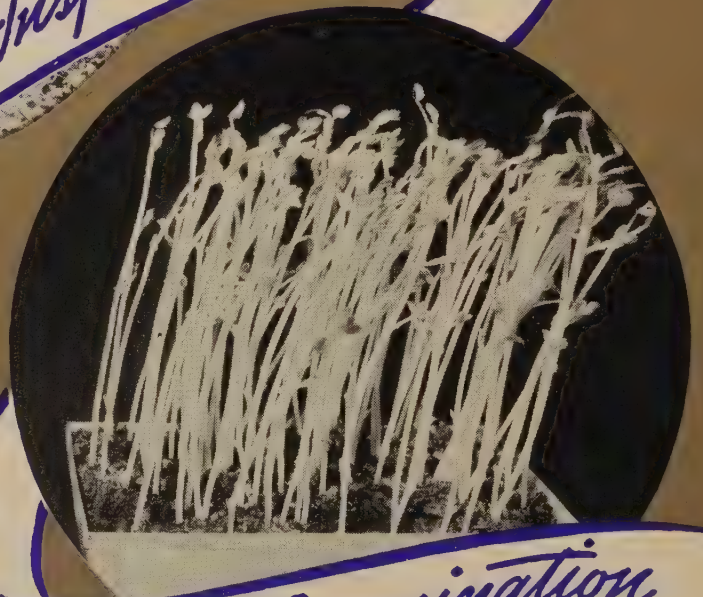
Performance



* *In Trial Grounds*



* *In Field Inspection*



* *In Germination*

KEEP BUYING WAR BONDS

by

WASHBURN'S

"Performance by Washburn's" does not exploit any single phase or operation at the expense of another, but covers, with equal attention and importance, every factor necessary for the production of highest quality seed:—

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| In Breeding | In Insect Control |
| In Growing | In Germination |
| In Trials | In Threshing |
| In Improving Standard Varieties | In Handpicking |
| In Developing New Varieties | In Machinery Equipment |
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Outstanding performance by Washburn's is obtained not by chance but by plan. You are assured of exactly the type and highest quality of seed you want and must have. And at a price which reflects the minimum production costs resulting from large scale operations.

WASHBURN-WILSON SEED CO., Moscow, Idaho

Breeders and Growers of Seed Peas and Beans



* In Insect Control

* In Threshing

This is one of a series of advertisements showing that "Performance by Washburn's" covers every factor necessary for the production of highest quality seed.

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**Exporters of
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CHEWINGS FESCUE
CRESTED DOGSTAIL
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GARDEN AND FIELD PEAS, Etc.
RYEGRASSES
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HORSE BEANS**



**GOVERNMENT CERTIFIED RYE-
GRASS, BROWN TOP, WHITE AND
RED CLOVERS**

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Clements & Marshall, Ltd., Devonport,
Tas.

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Denhams, Pty., Ltd., Brisbane,
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Gill & Searle Pty., Ltd., Melbourne
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Cooper Taber & Co., Ltd., London

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Cundy, Charles & Son, Sudbury, Suffolk

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Engelmann, Ltd., C., Saffron Walden,
Essex

Finney & Co., Ltd., Samuel, Newcastle

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Goldsmith Bros., Ltd., Bury St., Edmunds

Gunson (Seeds), Ltd., R. W., London

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160 Years
1784-1944

In Peace
and in War

There's a Reason for Our Continued Success

160 years ago, we established the "Oldest Seed House in America." From 1784 throughout all the struggles of our Nation, in Peace and in War, the D. Landreth Seed Co. has bred seeds to produce the finest marketable crops. In having weathered the test of time, the D. Landreth Seed Co., Canal Street, Bristol, Pennsylvania, has gained a reputation for quality, reliability, and service.

And today—more than ever before in our history, we are prepared to meet the growing demands of our Nation at War. We shall carry on our 160-year-old tradition that made the D. Landreth Seed Co. name synonymous with Quality throughout the Seed World.

We carry a complete line of Packet and Bulk Seeds, Onion Sets, and Lawn Grass Seeds.

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Oldest Seed House in America
Growing Stations and Branches in the West

JUAN CURCIJA GRAIN SEEDS MILLFEEDS



POP CORN CANARY SEED

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SMALL RED CORN

ALFALFA SEED RAPE

RYE GRASS SUDAN GRASS



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Seedsman since 1850



**GROWERS
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RECLEANED AUSTRALIAN SEEDS

DALLIS GRASS CARPET GRASS

RESCUE GRASS RHODES GRASS

**VICTORIAN PERENNIAL RYEGRASS (both
Certified and Uncertified)**

WIMMERA RYEGRASS

**SUBTERRANEAN CLOVER (Early, mid-season, and
late strains)**

PHALARIS TUBEROSA JAPANESE MILLET

PEAS, BEANS

"PILCA BUTTA" ALFALFA (for low rainfall areas).

SEEDS OF AUSTRALIAN NATIVE SHRUBS AND TREES

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NEW ZEALAND SEEDS

LARGE MODERN SEED
CLEANING PLANTS
ESTABLISHED IN SIX
MAIN SEED DISTRICTS

EXPORTERS OF

**CHEWING FESCUE, BROWN TOP (Agrostis Tenuis),
CRESTED DOGSTAIL, YARROW, WILD WHITE
CLOVER, Certified PERENNIAL RYE GRASS (per-
manent strain), ITALIAN RYE GRASS, MILLET,
BROAD LEAVED COWGRASS, MAPLE PEAS**

GARDEN PEAS

We contract to sow any variety in Marlborough
and Canterbury Provinces (N. Z.) and attend
to roguing and machine dressing.

**We Buy Direct from Growers and Process all Our
Own Seeds**

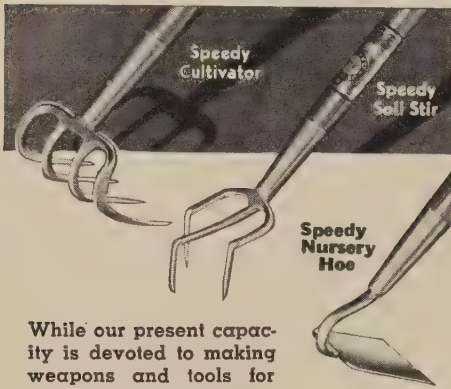
14 branches throughout New Zealand
Cable us for quotations or crop information

WRIGHT, STEPHENSON & CO., LTD.

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WELLINGTON, NEW ZEALAND

• for War Crops Today
• for Millions of NEW
Gardeners Tomorrow



While our present capacity is devoted to making weapons and tools for the armed forces and essential implements for the farm, that capacity is ready to turn overnight, to producing tools for the millions of home gardeners whose interest in gardening has greatly increased since the war began.

THE UNION FORK & HOE CO.
Columbus 15, Ohio

UNION Farm and Garden Tools
— RAZOR-BACK Shovels and

SPEEDLINE
Blue-Handled Garden Tools

**Courteen
Seed Co.**
Established 1892
Milwaukee

**CLOVERS
ALFALFA
TIMOTHY
GRASSES
ETC.**

Hasler & Co., Ltd., Dunmow, Essex
Hurst & Son, London
Johnson & Son, Ltd., W. W., Boston
Kelway & Son, Ltd., Langport, Somerset
King & Co., Ltd., E. W., Coggeshall, Essex
LeMay & Co., C. W., London
McMaster & Frankish, Seething Lane,
London
Nutting & Sons, Ltd., Merstham Surrey
Parnell Lang & Co., Ltd., Exeter
Pope & Chapman, Ltd., Bishop's Stortford
Sadd's Seeds, Ltd., Harold, Ipswich
Sharpe & Co., Ltd., Charles, Sleaford
Sutton & Sons, Ltd., Reading
Toogood & Sons, Ltd., Southampton
Ward & Co., Ltd., Bristol
Watkins & Simpson, Ltd., London
Whalley, Ltd., Thomas, Liverpool
Woods, Sadd, Moore & Co., Ltd., London
Wright Stephenson & Co., Ltd., London

INDIA

American Seed & Nursery Co. (Regd.),
Lahore
Chandra Nursery, Rhenock, Bengal
Cooper & Co., N., Poona
Dijon & Son, Ghatsila, B. N. R. (British
India)
Ghose & Co., G., Darjeeling
Pocha & Sons, Pestonjee P., Poona
Sulabh Nursery & Seed Co., Calcutta
Sutton & Sons, Ltd., Calcutta

IRELAND

Coburn & Sons, Jas., Banbridge
Ekin, Robertson & Peacock, Belfast
Lytle & Sons, Ltd., John, Belfast
McCausland, Samuel, Belfast
McClinton & Co., Belfast
Morton & Co., Ltd., Joseph, Banbridge

NEW ZEALAND

Canterbury Seed Co., Ltd., Christchurch
Cathie, Dempster & Co., Ltd., Wellington
Cooper, F., Ltd., Wellington
Dalgety & Company, Ltd., Christchurch
Montgomery & Co., J., Christchurch
Murray, Roberts & Coy, Ltd., Dunedin
National Mortgage & Agency Co. of New
Zealand, Ltd., Dunedin
Nimmo & Blair, Ltd., Dunedin
Paterson & Co., Ltd., A. S., Dunedin
Reynolds & Co., W. E., Dunedin
Watson & Co., Ltd., J. E., Ivercargill
Winston, Ltd., Frank M., Auckland
**Wright, Stephenson & Coy, Ltd.,
Wellington**
Yates & Co., Ltd., Arthur, Auckland

SCOTLAND

Bell Ltd., David, Leith
Cross Seed Co., Ltd., Alexander, Glasgow
Lawson & Son, Ltd., Peter, Edinburgh

SOUTH AFRICA

Oudtshoorn Tobacco Co., Oudtshoorn
Starke & Co., Ltd., C., Mowbray,
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Allmanna Svenska Utsadesaktiebolaget,
Svalof
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Frosbeck, S., Skanninge
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Getinge
Holmberg Aktiebolaget, Algot & Sons,
Norrkoping
Aktiebolaget K. I. Lihnell, Lenkoping
Aktiebolaget Pratense, Malmo
Ohlsens Enke A/B, J. E., Malmo
Olson Aktiebolag, Otto J. & Son,
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Weibull Aktiebolaget, W., Landskrona

SWITZERLAND

Altdorfer Jons (Seeds), Zurich
Correvon & Son, H., Chene Bourg, Geneva
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Accepted by millions as
standard for over 80 years



Guaranteed

Breaking Strength Standard
Weight Full 16 Ozs. Standard
Size Uniform 20x45 Standard

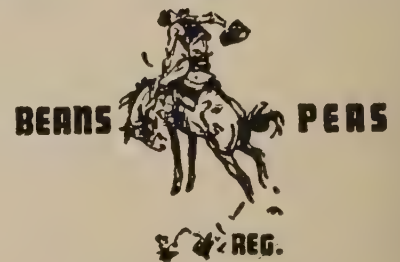


Due to our special bag construction,
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where on the bag—and hole will
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ROYAL RIVER MILLS, Inc.

BUCKAROO
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WESTERN GROWN

UNDER MY PERSONAL
SUPERVISION

Growing Stations
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MAX F. WILHELMI
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Wholesale Seed Grower

804 Massachusetts St.

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SLUIS & GROOT OF AMERICA, INC.

P. O. BOX 799

PALO ALTO, CALIFORNIA

This company was formed in order to remain at the service of our wholesale customers in the Free World during the temporary occupation of The Netherlands



A HEAD OF OUR FAMOUS
SNOWBALL NR 16
THE BEST MIDSEASON
MARKET VARIETY



NOW PRODUCED IN
CALIFORNIA
FROM HOLLAND GROWN
STOCK SEED



We Also Produce in California, Mainly on Holland Grown Stock Seed:

SNOWBALL NR 34
ERFURT SELECTA

DANAMERICA
ALL THE YEAR 'ROUND

VEITCH AUTUMN GIANT



Two Views of our Cabbage Nursery in California, where Plants are grown from the best stock seeds now available.



WE HAVE IMPORTANT CABBAGE SEED PRODUCTION FIELDS ALSO IN THE STATE OF WASHINGTON.



**AUTHENTIC PICTURES OF WAR TIME OPERATIONS OF SLUIS & GROOT OF HOLLAND
THEY KEEP ON WORKING**



R. J. GROOT, N. V. ZANTEN, N. S. GROOT
Preliminary reading of the spinach trials including the crumpled varieties.



A bomb crater 19 feet in diameter, in one of our nurseries. This damage was soon repaired.



Rutger Groot giving the cabbage trials (some 1200 of them that year) a final inspection before they are plowed up.

GEO. H. LEE COMPANY

MANUFACTURERS OF

POULTRY REMEDIES

OVER 49 YEARS OF LEADERSHIP

The Line of Quality

OMAHA, NEBRASKA

The LEE LINE Offers . . .



Every Remedy the
Poultry Raiser Needs

UP TO 41% PROFIT!

Are you getting your share of profits from new thousands who are buying poultry remedies this year? Are you replacing "lost" profits on products that have gone to war?

Then why not find out about the Lee Line of quality poultry remedies right away! And why not install a complete, money-making Lee Poultry Health Department in your store. You make up to 41% profit!

Lee Poultry Remedies, prominently displayed in your store, will move out fast. They'll bring you quick returns—because poultry raisers, going "all out" for peak production, are needing and demanding more poultry remedies than ever before. They'll pile up your profits in a hurry—because years of consistent, extensive national advertising have created demand for Lee Remedies.

Shown on this page is our "Assortment L"—a complete Poultry Health Department for your store. Contains all the essential remedies every poultry raiser needs. Includes only best-sellers in the most popular sizes. This assortment costs \$40.20, less discount. Your profit is 41%. Two other dandy assortments, costing you only \$10.76 or \$15.27, less discount, are available.

All retail prices of Lee Remedies are protected by Fair Trade Agreements in ALL Fair Trade States.

Unless we already have an exclusive Lee Dealer in your community, you can get in on this money-making opportunity by handling the Lee Line. Write today for complete information. Address your inquiry to personal attention of Donald J. Burke, Pres., Geo. H. Lee Co., Omaha, 8, Nebr.



Give Your Customers this 80-Page Illustrated LEEWAY POULTRY BOOK

Just suppose you're a Lee Dealer . . . A customer rushes in . . . He tells you he thinks some deadly disease has just struck his flock . . . He needs your help desperately!

What disease is it? Would it be dreaded Coccidiosis . . . or Pullorum . . . or Paratyphoid? Or maybe it's Simple Diarrhea . . . or a Cold . . . or Worms.

What are the symptoms? How did his birds look? What treatment shall he give? Here's your opportunity to make a real friend . . . and a better customer!

And thanks to the new Leeway Poultry Book, you'll probably be able to give him immediate help. What's more . . . you can give him the book!

Yes, if you're a Lee Dealer you can give all your customers . . . and prospective customers . . . an 80-page, easy-to-read book that deals thoroughly with the common diseases of chicks, growing birds, and adult birds. A valuable business-getter for you; a valuable reference for any poultry raiser. Clearly describes symptoms, preventions, and treatments. Contains more than 50 illustrations to aid in identifying diseases. Includes natural-color cross-section view of laying pullet. This is but a part of the extensive national advertising which has made Lee Poultry Remedies fast-sellers. Find out about becoming a Lee Dealer today.

GEO. H. LEE CO., Omaha, Nebr.

GEO. H. LEE COMPANY

MANUFACTURERS OF

POULTRY REMEDIES

OVER 49 YEARS OF LEADERSHIP

The Line of Quality

OMAHA, NEBRASKA



GERMOZONE

Drinking water antiseptic. For many simple bowel troubles—diarrheas. Used alternately with Acidox for the care of birds with Coccidiosis.

(Sizes)	(Wholesale per dozen)	(Retail each)
4-oz. bottle	\$ 3.00	\$.40
12-oz. bottle	5.50	.75
32-oz. bottle	11.00	1.50
½-gal. bottle	20.00	2.50
1-gal. bottle	3.00 ea.	4.50

VAPO-SPRAY

An inhalant recommended for treating diseases affecting the air passages. Valuable for poultry, hogs and rabbits.

(Sizes)	(Wholesale per dozen)	(Retail each)
1-pint can	\$ 4.00	\$.50
1-qt. can	6.00	.75
½-gal. can	10.00	1.25
1-gal. can	16.00	2.00
5-gal. can	5.75 ea.	8.75



GIZZARD CAPSULES

For Round Worms, Pin Worms, and large Tape Worms. Patented insoluble coating carries drugs direct to worms.

(Sizes)	(Wholesale per dozen)	(Retail each)
Adult: 10-cap. env.	\$ 1.00	\$.15
50-cap. pkg.	5.00	.75
100-cap. pkg.	9.00	1.25
Pullets: 10-cap. env.	.75	.10
50-cap. pkg.	3.60	.50
100-cap. pkg.	7.20	1.00
Chicks: 10-cap. env.	.55	.10
50-cap. pkg.	2.75	.40
100-cap. pkg.	4.50	.75



LEE'S LOUSE POWDER

For lice on poultry. A "time-tried" standard product.

(Sizes)	(Wholesale per dozen)	(Retail each)
1-lb. can	\$ 2.00	\$.25
2½-lb. can	4.00	.50

PERCH PAINT

An economical, efficient, Nicotine sulphate product for the control of poultry lice. Used by painting on top of roosts.

(Sizes)	(Wholesale per dozen)	(Retail each)
½-pint can	\$ 6.75	\$.85
1-pint can	12.00	1.50
1-quart can	20.00	2.50
½-gal. can	2.67 ea.	4.00
1-gal. can	4.67 ea.	7.00



PICKPASTE

A simple, easy application for controlling cannibalism.

(Sizes)	(Wholesale per dozen)	(Retail each)
2-oz. tube	\$ 2.00	\$.25
6-oz. jar	4.80	.60

LEE'S DIP

A standardized disinfectant for poultry houses, barns, and hog buildings.

(Sizes)	(Wholesale per dozen)	(Retail each)
5-gal. pail	\$ 5.50 ea.	
30-gal. bbl.	27.50 ea.	
50-gal. bbl.	40.00 ea.	



Prices on Lee's Dip slightly higher West of Rocky Mountains. Dip Labels for quarts, half gallons and gallons, assorted, as requested.

ACIDOX

A highly efficient "drinking-water medication for the care of birds with Coccidiosis. Used in conjunction with Germozone. Does not affect metal.

(Sizes)	(Wholesale per dozen)	(Retail each)
4-oz. bottle	\$ 4.00	\$.50
12-oz. bottle	7.50	1.00
32-oz. bottle	15.00	2.00
½-gal. bottle	27.00	3.50
1-gal. bottle	4.00 ea.	6.50



LEEMULSION

An excellent treatment for diseases affecting the air passages: Colds, Pneumonia, and Bronchitis. Often used as an adjuvant with Vapo-Spray. Especially valuable for young chicks.

(Sizes)	(Wholesale per dozen)	(Retail each)
4-oz. bottle	\$ 4.00	\$.50
12-oz. bottle	7.50	1.00
32-oz. bottle	15.00	2.00
½-gal. bottle	27.00	3.50
1-gal. bottle	4.00 ea.	6.50



TONAX

A scientifically-balanced formula to be recommended wherever a Round Worm control, a tonic, or enteritis treatment is indicated. 100% medicine. No "filler."

(Sizes)	(Wholesale per dozen)	(Retail each)
12-oz. can	\$ 2.40	\$.30
2-lb. can	6.00	.75
6-lb. can	16.00	2.00
25-lb. pail	5.00 ea.	7.50
50-lb. drum	9.33 ea.	14.00
100-lb. drum	16.67 ea.	25.00



LEE'S LICE KILLER

For Mites, Lice, and Bluebugs. Easily applied by painting or spraying roosts and dropping boards. Has germicidal properties.

(Sizes)	(Wholesale per dozen)	(Retail each)
1-qt. can	\$ 4.50	\$.60
½-gal. can	7.00	.90
1-gal. can	12.00	1.50
5-gal. can	4.50 ea.	6.00

LEE'S DRI-RUB

An inexpensive "dry" product possessing insect repellent qualities. Used in nests, dust-boxes and litter. Very effective for hog lice.

(Sizes)	(Wholesale per dozen)	(Retail each)
3-lb. can	\$ 3.60	\$.45
12-lb. pail	1.00 ea.	1.50
25-lb. pail	1.50 ea.	2.25
50-lb. drum	2.75 ea.	4.15
100-lb. drum	5.00 ea.	7.50
300-lb. drum	13.00 ea.	20.00



PINJECTOL

Used largely for turkeys as a partial means of controlling Blackhead.

(Sizes)	(Wholesale per dozen)	(Retail each)
12-oz. bottle	\$ 6.00	\$.75
32-oz. bottle	12.00	1.50
½-gal. bottle	24.00	3.00
1-gal. bottle	3.75 ea.	5.75

HOG OIL WORMER

For Large Round Worms in hogs. High in efficiency—low in cost.

(Sizes)	(Wholesale per dozen)	(Retail each)
12-oz. bottle	\$ 8.00	\$ 1.00
1-quart bottle	16.00	2.00
½-gal. bottle	28.00	3.50
1-gal. bottle	4.50 ea.	6.75



PRICES SUBJECT TO CHANGE WITHOUT NOTICE

VEGETABLE PLANTING TABLE

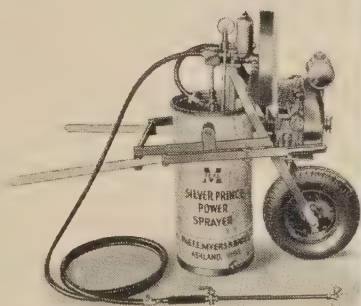
	Rows Apart, Feet	Plants Apart in Row, Inches	Planting Depth, Inches	Seed for 50 Feet	Seed for One Acre, Lb.	Seeds Per Ounce	Federal Germina- tion	Average Life, Years
Asparagus.....	2½	20	6	½ oz. 30 plants	.....	1,500	70	3
Beans, Bush.....	2-2½	3-4	1½	4 oz.	60-75	60-90	80	3
Beans, Pole.....	3-4	9(orhills)	1½	4 oz.	30-35	70-120	80	3
Lima Beans, Bush.....	2-2½	3-4	1½	4 oz.	30-50	20-70	70	3
Lima Beans, Pole.....	3-4	9(orhills)	1½	4 oz.	30-40	20-65	70	3
Garden Soybeans.....	2-2½	3-4	1½	4 oz.	50-75	50-70	..	2
Beet.....	1½-2	3-4	½	½ oz.	4-6	1,500	65	5
Beet, Chard.....	2	15	½	½ oz.	..	1,200	65	5
Broccoli.....	2	18	¼	1 pkt.	¼	9,000	75	4
Brussels Sprouts.....	2	18	¼	1 pkt.	¼	8,000	70	4
Cabbage, Early.....	2	12	¼	1 pkt.	¼	8,500	75	4
Cabbage, Late.....	2	18	¼	1 pkt.	¼	8,500	75	4
Chinese Cabbage.....	2	12	¼	1 pkt.	2	7,000	80	4
Carrot.....	1½	3	¼	1 pkt.	2-3	25,000	55	3
Cauliflower.....	2	18	¼	1 pkt.	¼	10,000	75	4
Celeriac.....	2	4	⅛	1 pkt.	¼	50,000	55	3
Celery.....	2-3	5	⅛	1 pkt.	¼	50,000	55	3
Chicory, Witloof.....	2	10	¼	1 pkt.	3	17,000	65	3
Collard.....	2½	24	¼	1 pkt.	.....	8,000	80	4
Corn, Early.....	2½	9	1	1 oz.	8-10	100-200	75	3
Corn, Main Crop.....	3	12	1	1 oz.	8-10	100-200	75	3
Cucumber.....	4	24	¾	1 pkt.	2	1,000	80	5
Egg Plant.....	3	30	½	1 pkt.	¼	6,000	60	4
Endive.....	1½	9	¼	1 pkt.	4-5	15,000	70	5
Kale.....	2½	24	¼	1 pkt.	4-5	7,500	75	4
Kohl-rabi.....	2	8	¼	1 pkt.	4-5	8,000	75	4
Leek.....	1½	6	..	1 pkt.	3-4	10,000	60	2
Lettuce, Leaf.....	2	12	¼	1 pkt.	3	20,000	80	5
Lettuce, Head.....	2	12	¼	1 pkt.	3	20,000	80	5
Muskmelon.....	5	48	1	1 pkt.	3-4	1,200	75	5
Mustard.....	2	9	¼	1 pkt.	4	15,000	75	4
Okra.....	3	15	1	½ oz.	8	500	50	4
Onion, Seed.....	1½	3-4	½	1 pkt.	3-4	8,000	70	2
Parsley.....	1½	4	¼	1 pkt.	4	15,000	60	1
Parsnip.....	1½	4	½	1 pkt.	4	6,000	60	1
Peas.....	2-3	1-2	1	½ lb.	90-180	90-150	80	3
Pepper.....	2½	24	..	1 pkt.	¼	4,000	55	2
Potato.....	3	12	4	3 lb.	700	.....	..	..
Potato, Sweet.....	4	20	4	3 lb. or 30 plants	6,000 plants	.....	..	..
Pumpkin.....	8	60	1	.....	3-4	100	75	4
Radish.....	1	1-2	½	1 pkt.	10-12	3,500	75	4
Rhubarb.....	4	48	¼	10 plants	2-3 for plants	.....	..	..
Salsify.....	1½	2	¼	1 pkt.	.....	4,000	75	1
Spinach.....	1½	6	¾	1 pkt.	15-25	2,500	60	3
Spinach, N. Z.....	3	20	1	1 pkt.	.....	350	40	3
Squash, Bush.....	4	36	1	1 pkt.	6	300	75	4
Squash, Vining.....	6	60	1	1 pkt.	4	100	75	4
Tomato.....	3-4	36	½	1 pkt.	¼	20,000	75	3
Turnip.....	1½	4-6	¼	1 pkt.	2-3	9,000	80	4
Turnip, Ruta Baga.....	2	6	¼	1 pkt.	1-2	8,000	75	4
Watermelon.....	8	96	¾	.....	3-4	200-300	70	4

MYERS *Portable* SPRAYERS

HAVE A JOB TO DO

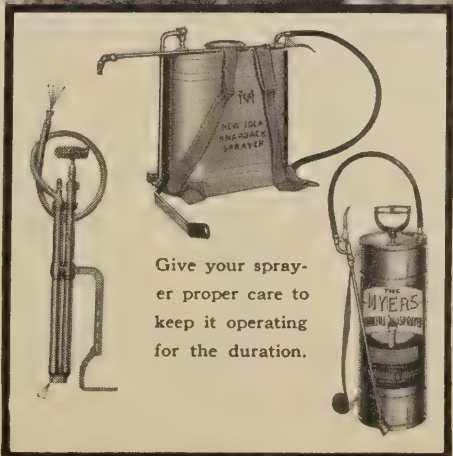
Today and Tomorrow!

Days to Germination	Days to Yield	From Plants or Seeds	PH Preference
1 8-10	2 yrs.	P	6.5-7.5
2 5-8	50-70	S	5.6-6.8
3 5-8	65-80	S	5.6-6.8
4 5-8	65-75	S	5.6-6.8
5 5-8	80-90	S	5.6-6.8
6 5-8	75-100	S	5.5-7.0
7 7-10	60-75	S	6.0-7.2
8 7-10	50 and on	S	5.5-7.0
9 6-9	70-80	P	6.0-7.2
10 6-9	70 and on	P	6.0-7.2
11 6-9	65-75	P	6.0-7.2
12 6-9	80-100	P	6.0-7.2
13 6-9	75-85	S	6.0-7.2
14 12-18	60-75	S	5.6-6.8
15 5-10	55-65	S	6.5-7.5
16 15-20	90-120	S	6.5-7.5
17 15-20	120-150	S	6.5-7.5
18 8-12	For winter	S	6.5-7.5
19 6-9	90 and on	S	6.0-7.2
20 5-8	70-80	S	5.6-6.8
21 5-8	80-95	S	5.6-6.8
22 5-8	60-70	S	6.0-7.2
23 10-12	70-85	S	5.2-6.0
24 8-10	70-80	S	6.0-7.2
25 6-9	70-80	S	6.0-7.2
26 6-9	55-65	S	6.0-7.5
27 7-10	120-150	S	6.5-7.5
28 6-8	45-50	S	6.0-7.2
29 6-8	50-70	P	6.5-7.5
30 7-12	80-100	S	6.0-7.2
31 5-8	60-75	S	6.0-7.5
32 8-12	50-60	S	6.0-7.5
33 7-10	90-110	S	6.5-7.5
34 15-20	85-100	S	5.6-6.8
35 15-20	80-100	S	5.6-6.8
36 7-10	60-80	S	6.0-7.2
37 8-10	65-80	P	5.2-6.0
38 8-12	80-120	P	5.0-5.6
39	120-140	P	5.2-6.0
40 7-12	110-130	S	5.6-6.8
41 4-6	25-60	S	6.0-7.2
42	2-3 yr.	P	6.0-7.5
43 7-12	140-180	S	5.5-7.0
44 9-12	40-50	S	6.5-7.5
45 10-12	70-80	S	6.5-7.5
46 7-10	55-65	S	5.8-7.0
47 7-10	65-120	S	5.6-6.8
48 7-12	75-90	P	5.2-6.0
49 5-10	50-80	S	5.6-6.8
50 5-10	80-90	S	5.6-6.8
51 8-12	75-95	S	5.0-5.6



Silver Prince

Thousands of these Myers sprayers, powered by electric motor and gasoline engine, are in use applying insecticides, disinfectants, water paints, whitewash, etc. The compact Silver Prince provides advantages of high-pressure spraying at low investment cost.



Give your sprayer proper care to keep it operating for the duration.

Myers Portable Sprayers are doing important jobs — protecting plant life, safeguarding investments, saving time for operators by thorough, efficient spraying.

If you own a Myers Sprayer, keep it in good operating condition. If you use or sell Myers Sprayers, remember that repair and replacement parts are always available, regardless of the age or type of unit. And if your plans call for new sprayers — either hand or power operated — look to Myers for the best in performance and quality.

THE F. E. MYERS & BRO. CO.
920 Church St., Ashland, Ohio



**SPRAYERS • PUMPS • WATER SYSTEMS
HAY UNLOADING TOOLS**

Important SPRAYING Information



Manufacturers of insecticides and fungicides have scientifically prepared many sprays and dusts that have proved effective in the control and eradication of the numerous insects and fungus diseases that attack growing crops. These products are sold by the manufacturers under various trade names. In order to make it easier for the users of this Guide to ascertain which insecticides or fungicides to use in combating or controlling a certain pest or disease, the following table is arranged, giving the names of products that have been found effective. Under existing unusual conditions it is possible there may be some delay or difficulty in obtaining deliveries.

American Cyanamid & Chemical Corp., 30 Rockefeller Plaza, New York, N. Y.

"Cyanogas Ant-Killer"
"Cyanogas A-Dust"
"Cyanogas G-Fumigant"

Du Pont-Semesan Company (Inc.), Wilmington, Del.

New Improved "Ceresan"
2% "Ceresan"
"Semesan Jr."
"Semesan Bel"
"Semesan"
"Thiosan"
"Arasan"

Agkem, Inc., Quincy, Ill.

"Kalite"
"Floraspray"

Arrow Products Co., 447 Lincoln St., Carlstadt, N. J.

"Terrafume D"
"Cornfume"

Goulard & Olena, Inc., 140 Liberty St., New York, N. Y.

"G & O Insecticides"

Hammond Paint & Chemical Co., Beacon, N. Y.

"B-B Dust"
"Copper Solution"
"Formacide"

"Grape & Rose Dust"

"Liquid Slug Shot"

"Naptoside"

"Pyrethrum Powder"

"Slug Shot Dust"

"Sodium Oleate"

"Stabilized Rotenone Dust"

"Thrip Juice Spray"

"Triad"

"Whale Oil Soap"

Dow Chemical Co., Midland, Mich.

The Dow Line

Kay-Fries Chemicals, Inc., New York, N. Y.

"Nicotrol"

"Penetrol" — (spreader for arsenicals, Bordeaux and ground Derris)

The McCormick Sales Co., Baltimore, Md.

"Red Arrow Garden Spray"

"Special Red Arrow Garden Spray"

"Black Arrow No. 5000"

"McCormick Rotenone Dust"

"Rotenone Greenhouse Spray"

"Bee Brand Derris Powder"

"Bee Brand Flea Powder"

"Bee Brand Insecticidal Shampoo"

"Bee Brand Disinfectant"

"Bee Brand Household Insect Spray"

"Bee Brand Insect Powder"

"Bee Brand Canary Lice Powder"

Mechling Bros. Chemicals, Div. General Chemical Co., Philadelphia, Pa.

"Filmfast"

"Hydroxide"

"Japtox"

"Sporgo"

"Mechling's Arsenate of Lead"

"Mechling's Arsenate Calcium"

"Mechling's Bordeaux Mixture"

"Mechling's Dritomic Sulphur"

"Mechling's Lime Sulfur Solution"

"Mechling's Paris Green"

"Nicotine Sulphate"

"Pyrote"

"Sulrote"

B. G. Pratt Company, New York, N. Y.

"D-X"

"Scalecide"

"Sulfocide"

Tobacco By-Products & Chemical Corp., Louisville, Ky.

"Black Leaf 40"

"Nico-Fume Liquid"

"Black Leaf 155"

	Disease or Insect	What to Use
Apple and Pear	Codling Moth	Black Leaf 40; Black Leaf 155; D-X combined with arsenate of lead; Mechling's Arsenate of Lead; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead.
	San Jose Scale	Mechling's Scale Oil; Nicotrol; Scalecide; Dow; Semesan.
	Scab	Mechling's Lime Sulfur Solution; Mechling's Dritomic Wetttable Sulfur; Dow; Semesan.
	Wooly Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicotrol; Pyrote; Penetrol; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Rotenone and Sulphur.
Asparagus	Asparagus Beetle	D-X; Liquid Slug Shot; One-Spot; Mechling's Rotenone 400; Pyrote; Slug Shot Dust; Red Arrow Garden Spray; Stabilized Rotenone Dust; Dow; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone; McCormick Rotenone Dust. Calif. Spray Products; Kalite.
	Rust	Copper Solution; Dow; Protex Colloidalized Red Copper Oxide.
Aster	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicoloid; Red Arrow Garden Spray; McCormick Rotenone Dust; Nicotrol; O.K. Plant Spray; One-Spot; Pyrolloid; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone; Kalite.
	Aster Beetle	D-X; Liquid Slug Shot; Mechling's Arsenate of Lead; Mechling's Nicotine Sulfate; One Spot; Red Arrow Garden Spray; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Dow; Protex Colloidalized Sulphur and Rotenone; McCormick Rotenone Dust; Kalite.
	Rust Leafspot	Dritomic Wetttable Sulfur; Sulfocide; Dow; Semesan.
Beans	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Nicotrol; One-Spot; Penetrol; Pyrote; Red Arrow Garden Spray; Sulrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone. Calif. Spray Products; G & O; Kalite.
	Mexican Bean Beetle	B-B Dust; D-X; Liquid Slug Shot; One-Spot; Pyrote; Slug Shot; Sulrote; Dow; Ridz Garden Spray; Protex Colloidalized Sulphur and Rotenone; Red Arrow Garden Spray; McCormick Rotenone Dust. Calif. Spray Products; Kalite.
	Anthraxnose, Powdery Mildew	Sulrote; Mechling's Sporgo; Mechling's Bordeaux Mixture; Sulfocide; Dow; Semesan; Arasan; Calif. Spray Products; G & O.

FOR EFFECTIVE CONTROL

of

INSECT and RODENT PESTS

in your Warehouse . . .

FUMIGATE YOUR STOCK

with

Larvacide

CHLORPICRIN

Penetrates kernels to kill egg life and larvae, as well as adult pests. LARGE OR SMALL LOTS CONVENIENTLY HANDLED in warehouse vault, or in 55 Gallon Metal Drum with tight cover.

NO EFFECT UPON SEED GERMINATION

Used as directed, LARVACIDE has no effect upon the germination of dry seed, after aeration.

KILL RODENTS WITH LIGHT DOSAGE

For rats and mice alone use a generous pint or so for each 1000 sq. ft. of floor area, with overnight exposure. LARVACIDE drives rodents out of retreats, to die on the open floor where most carcasses are easily swept up. LARVACIDE, unlike bait or traps, doesn't wait for rodents to seek it out. It goes actively after them, making wholesale kills.

Small Rodent jobs may be handled without using gas mask. LARVACIDE literature explains exactly how to go about it.

PROFITABLE RESALE TO FARM CUSTOMERS

Farmers buy LARVACIDE in the 1 lb. Dispenser Bottle, to treat grain in their farm bins. Application is made without special equipment. Dosage is only about 4 fl. oz. per 100 bushels of grain. Complete instructions with each 1 lb. bottle. These instructions cover insects and rodent control on the farm, and also many other uses.

SELL TOP DRESSING AND FLATTING SOIL

Essentially Free of Weed Seeds and Damping Off Organisms
Soil is easily treated with LARVACIDE. Full directions in literature. LARVACIDE for Soil Fumigation is nationally advertised to Florists and Growers.

Larvacide

CHLORPICRIN

is a tear gas fumigant (over 99% pure Chlorpicrin) and is shipped in liquid form, in cylinders 25—180 lbs. also handy 1 lb. dispenser bottles, each in sealed can, 6 or 12 to wooden case. Stocked in major cities and easily available.

For interesting literature on EFFECTIVE PEST CONTROL, also on THE NEW WAY IN SOIL FUMIGATION, address

INNIS, SPEIDEN & COMPANY

117 LIBERTY STREET

NEW YORK 6, N. Y.

BOSTON

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	Disease or Insect	What to Use
Beets	Leaf Spot	Sulrote; Dritomic Wettable Sulfur; Sulfocide; Dow; Semesan; Arasan.
	Beet Leaf Hopper	D-X; Liquid Slug Shot; Sulrote; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone; McCormick Rotenone Dust; Black Arrow No. 5000. Calif. Spray Products; G & O; Kalite.
Cabbage, Cauliflower, Brussels Sprouts, Turnip	Cabbage Worm	D-X; One-Spot; Penetrol; Pyrote; Slug Shot Dust; Mechling's Arsenate Calcium; Stabilized Rotenone Dust; Sulrote; Dow; Ridz Garden Spray; Terrafume D; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray. Calif. Spray Products; G & O; Cyanogas A-Dust; Kalite.
Carrot Parsnip	Web Worm	Mechling's Arsenate of Lead; Dow; Protex Colloidalized Arsenate of Lead. Calif. Spray Products.
Carnation	Thrips	Black Leaf 40; D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; Penetrol; Mechling's Nicotine Sulphate; Red Arrow Garden Spray; Black Arrow No. 5000; Pyrote; Sulrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone; Floraspray.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone.
	Caterpillars	D-X and Arsenate of Lead; One-Spot; Mechling's Arsenate of Lead; Pyrote; Dow; Ridz Garden Spray; Protex Colloidalized Arsenate of Lead; Red Arrow Garden Spray. Cyanogas.
Celery	Blight	Copper Solution; Grape & Rose Dust; Hydroxide; Mechling's Sporgo; Triad; Dow; Semesan. Calif. Spray Products.
	Tarnished Plant Bug	D-X; Mechling's Nicotine Sulfate; Pyrote; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Red Arrow Garden Spray. Calif. Spray Products; Kalite; Black Leaf 40.
Cherry	Rot	Dritomic Wettable Sulfur; Sulfocide; Dow; Semesan.
	Curculio	D-X and Arsenate of Lead; Mechling's Arsenate of Lead; Penetrol; Dow; Protex Colloidalized Arsenate of Lead. Calif. Spray Products.
Chrysanthemum	Aphis	Black Leaf 40; D-X; Killogen; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Red Arrow Garden Spray. Cyanogas.
	Red Spider	D-X; One-Spot; Pyrote; Dow; Ridz Garden Spray; Protex Colloidalized Rotenone; Protex Colloidalized Sulphur & Rotenone; Rotenone Greenhouse Spray; Floraspray.
	Leaf Hopper	D-X; Mechling's Nicotine Sulfate; One-Spot; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray; McCormick Rotenone Dust; Floraspray.
	Thrips	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; McCormick Rotenone Dust; Nicotrol; Penetrol; Pyrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur; Protex Colloidalized Sulphur & Rotenone. Cyanogas.
	Wilt Mildew, Leaf Spot	Mechling's Dritomic Wettable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur; Semesan; Floraspray.
Corn—Sweet	Ear Worm	D-X; Mechling's Arsenate of Lead; Slug Shot Dust; Dow; Cornfume; Red Arrow Garden Spray; McCormick Rotenone Dust. Calif. Spray Products; Cyanogas A-Dust; Kalite.
Cucumber	Striped Beetle	D-X; Liquid Slug Shot; Mechling's Arsenate Calcium; One-Spot; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Sulrote; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; McCormick Rotenone Dust; Red Arrow Garden Spray. Calif. Spray Products; Kalite.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Nicotrol; One-Spot; Penetrol; Pyrote; McCormick Rotenone Dust; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray; Kalite.
	Anthracnose, Dewy Mildew, Melon Rust	Mechling's Sporgo; Sulfocide; Dow; Semesan; Arasan; Calif. Spray Products; G & O; Kalite.
Currant	San Jose Scale	Penetrol; Scalecide; Dow; Semesan.
	Worm	Black Leaf 40; D-X; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead; Protex Rotenone; Floraspray.
Dahlia	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Red Arrow Garden Spray; Floraspray.
	Beetles	D-X; Mechling's Arsenate of Lead; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray; Kalite.
	Tarnished Plant Bug	D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Pyrote; Slug Shot Dust; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray; Black Leaf 40.
	Red Spider	D-X; Pyrote; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; McCormick Rotenone Dust; Rotenone Greenhouse Spray; Floraspray.
	Leaf Hopper	Mechling's Nicotine Sulfate; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray; Black Leaf 40.
	Thrips	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicotrol; Penetrol; Pyrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray.
	Mildew	Dritomic Wettable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur; Semesan.
Ferns	Mealy Bug	D-X; Liquid Slug Shot; Nico-fume Liquid; Nicotrol; One-Spot; Pyrote; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray. Cyanogas; Floraspray.
	White Fly	D-X; Pyrote; Thrip Juice Spray; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Protex Colloidalized Sulphur; Red Arrow Garden Spray; Black Arrow No. 5000. Cyanogas; Floraspray.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Cyanogas.
Lettuce	Aphids	D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; McCormick Rotenone Dust; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products; G & O.
	Mildew	Copper Solution; Grape & Rose Dust; Hydroxide; Liquid Slug Shot; Triad; Dow; Semesan. Calif. Spray Products; Sporgo.
	Gray Mould	Sporgo; Dow; Protex Colloidalized Red Copper Oxide; Semesan.

PREDICT U. S. WILL CONTINUE HOME VEGETABLE GROWING AFTER WAR

★ ★ ★

HERE'S KEY TO GROWING SUCCESS!

PROPER FEEDING . . .

of vegetable and ornamental gardens!

Every growing thing, in order to reach the peak of perfection, must have proper nourishment. If the needed plant food elements are not already in the soil, they must be added, or failure is probable. Today, with a high percentage of poor soil being called into use during the present emergency, it is more important than ever that complete plant food be used. Millions of gardeners are learning that the way to insure proper feeding is to give their crops the benefits of these two famous complete plant foods . . . Vigoro, and Vigoro Victory Garden Fertilizer.

FOR LAWNS, FLOWERS, TREES, SHRUBS

Here is the complete plant food that has been bringing new joy and gardening success to millions of gardeners during the past twenty years. Give it "top billing," too. It helps home-owners enjoy the thrill of beautiful, fragrant flowers and lovelier lawns, freer from weeds. It is a fine profit-maker for you.

FOR VICTORY GARDENS

This complete plant food, supplying all the food elements vegetables need from soil, is doing much to help Victory Gardeners reap bigger, better, more nutritious crops. Feature it prominently, and watch the lasting sales results it can bring you.

PRODUCTS OF SWIFT
& COMPANY, U. S. Y.,
CHICAGO



Garden experts say present enthusiasm will carry over to post-war period for successful Victory Gardeners

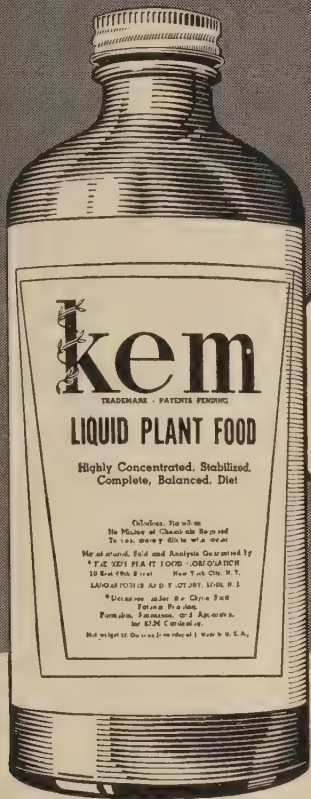
The present nation-wide interest in home vegetable gardening is not destined to disappear when the war is over, according to advices from American garden experts.

It is felt that the public in general has enjoyed enough success in growing and serving fresh vegetables during the past two years to keep up their enthusiasm in peacetime. Those who have reaped a harvest of their favorite vegetables for the past year or two, fresh and tasty and obviously rich in food value, will want to continue. For the better vegetables they can grow . . . for the satisfaction involved . . . and for eating enjoyment.

This postwar growing, however, is likely to be confined to those Victory Gardeners who have attained real success in raising wartime gardens. Seed dealers and dealers in garden supplies are urged to do everything possible to help their customers gain such results now . . . in order to cash in on the profits of a greatly enlarged postwar market.

	Disease or Insect	What to Use
Nasturtium	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; McCormick Rotenone Dust; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Cyanogas. Floraspray.
Onion	Thrips	Black Leaf 40; D-X; Mechling's Nicotine Sulfate; Naptoside; Nico-Fume Liquid; Nicotrol; Penetrol; Pyrote; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Bee Brand Derris Powder. Calif. Spray Products; G & O; Kalite.
Peas	Blight	Copper Solution; Grape & Rose Dust; Mechling's Sporgo; Triad; Dow; Semesan; Arasan. Calif. Spray Products.
	Aphids	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Rotenone 400; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Bee Brand Derris Powder. Calif. Spray Products; G & O.
Plum	Rot	Dritomic Wetttable Sulfur; Sulfocide; Dow; Semesan.
	Curculio	D-X and Arsenate of Lead; Mechling's Arsenate of Lead; Penetrol; Dow; Protex Colloidalized Arsenate of Lead.
Potato	Early Blight	Copper Solution; Grape & Rose Dust; Sporgo; Triad; Dow; Semesan; Bel; Calif. Spray Products; Terrafume D for Wire Worm.
	Late Blight	Copper Solution; Grape & Rose Dust; Sporgo; Dow; Semesan; Bel.
	Potato Bugs	Hydroxide; Insectogen; Mechling's Paris Green; One-Spot; Penetrol; Slug Shot Dust; G & O; Dow; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products; Cyanogas A-Dust; Kalite.
Radish	Cabbage Worm	D-X; Liquid Slug Shot; Mechling's Arsenate Calcium; One-Spot; Penetrol; Pyrote; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray. Calif. Spray Products; Terrafume D.
	Harlequin Bug	D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Dow; Protex Colloidalized Sulphur & Rotenone; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray.
	Aphids	Black Leaf 40; D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products; G & O; Cyanogas A-Dust.
Roses	Red Spider	Dritomic Wetttable Sulfur; D-X; Liquid Slug Shot; One-Spot; Pyrote; Thrip Juice Spray; Red Arrow Garden Spray; Bee Brand Derris Powder; Rotenone Greenhouse Spray; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Floraspray.
	Brown Canker Black Spot Mildew	Mechling's Sporgo; Scalecide; Sulfocide; Dow; Semesan. Calif. Spray Products.
	Leaf Roller	Liquid Slug Shot; Mechling's Rotenone 400; Thrip Juice Spray; Dow; Protex Colloidalized Sulphur & Rotenone; Special Red Arrow. Calif. Spray Products; Floraspray.
	Beetles	D-X and Arsenate of Lead; Liquid Slug Shot; Mechling's Arsenate Lead; One-Spot; Red Arrow Garden Spray; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Dow; Protex Colloidalized Arsenate of Lead; Protex Colloidalized Sulphur & Rotenone; Kalite.
	Slugs	D-X; Pyrote; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Red Arrow Garden Spray; Black Arrow No. 5000. Calif. Spray Products; Kalite.
Spinach	Flea Beetle	D-X; Mechling's Rotenone 400; One-Spot; Slug Shot; Stabilized Rotenone Dust; Dow; Protex Rotenone. Calif. Spray Products; G & O; Kalite.
	Aphids	D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Black Leaf 40.
	Leaf Miner	Liquid Slug Shot; Mechling's Nicotine Sulfate; Dow; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
Squash	Striped Cucumber Beetle	D-X; Liquid Slug Shot; Mechling's Rotenone 400; One-Spot; Slug Shot Dust; Stabilized Rotenone Dust; Red Arrow Garden Spray; McCormick Rotenone Dust; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Protex Colloidalized Sulphur.
	Squash Bug	D-X; Liquid Slug Shot; One-Spot; Pyrote; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Protex Colloidalized Sulphur; Red Arrow Garden Spray; McCormick Rotenone Dust. Calif. Spray Products. Cyanogas. G & O; Kalite.
	Squash Vine Borer	Black Leaf 40; Liquid Slug Shot; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Protex Colloidalized Sulphur; McCormick Rotenone Dust. Calif. Spray Products. phur and Rotenone. Calif. Spray Products; Kalite.
Sweet Pea	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; Red Arrow Garden Spray; Bee Brand Derris Powder; McCormick Rotenone Dust; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Colloidalized Sulphur; Protex Colloidalized Sulphur and Rotenone. Calif. Spray Products; Floraspray.
	Mildew Blight	Mechling's Sporgo; Dow; Semesan. Calif. Spray Products.
Tomato	Anthrocnose	Mechling's Sporgo; Thrip Juice; Dow; Semesan; Arasan.
	Flea Beetle	Mechling's Bordeaux Mixture; Dow; Protex Colloidalized Red Copper Oxide; McCormick Rotenone Dust. Calif. Spray Products; Kalite.
	Horn Worm	D-X and Arsenate of Lead; Mechling's Arsenate Lead; Dow; Protex Colloidalized Arsenate of Lead. Calif. Spray Products; Kalite.
	Leaf Spot	Copper Solution; Mechling's Sporgo; Sulfocide; Dow; Protex Colloidalized Red Copper Oxide. Calif. Spray Products.
	Tomato Worm	D-X and Arsenate of Lead; Liquid Slug Shot; Mechling's Arsenate Calcium; Slug Shot Dust; Red Arrow Garden Spray; McCormick Rotenone Dust; Sulrote; Dow; Protex Colloidalized Arsenate of Lead; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products. G & O; Kalite.
Watermelon and Muskmelon	Aphis	Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicotrol; McCormick Rotenone Dust; Red Arrow Garden Spray; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products.
	Beetles	One-Spot; Pyrote; Slug Shot Dust; Stabilized Rotenone Dust; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; McCormick Rotenone Dust. Calif. Spray Products.
	Anthrocnose	Liquid Slug Shot; Mechling's Sporgo; Thrip Juice; Dow; Semesan; Arasan; Calif. Spray Products.

THIS YEAR-ROUND SELLER IS A PROVEN PRODUCT



KEM

THE READY-TO-USE COMPLETE LIQUID PLANT FOOD

Professionals and amateurs alike
have found it amazingly effective

Take Advantage of its Opportunities for Profit!

CONSUMERS WANT **KEM** BECAUSE:

Outdoors-

Indoors-

Everywhere-

- It does grow bigger, better-tasting FRUITS and VEGETABLES.
- It does grow larger, longer-lasting FLOWERS—healthier SHRUBS and TREES.
- It does grow better, greener LAWNS—helps sprout new ones, reconditions old ones, grows grass in shady places.

- It does keep HOUSE PLANTS and AQUATIC PLANTS strong and healthy.
- It does preserve FRESH CUT FLOWERS—makes them last longer.
- It does grow plants WITHOUT SOIL—gives splendid results in all types of soilless culture.

- It's EASY TO USE—just dilute with water and apply as directed.
- It's INEXPENSIVE to buy—ECONOMICAL to use. For example, 1 gallon of KEM makes 30 gallons of solution.
- It's odorless and harmless—will not corrode or stain.

DEALERS WANT **KEM** BECAUSE:

- It's a year round seller.
- It's a HIGH PROFIT item.
- It's REASONABLY PRICED for FAST TURNOVER.

Size	Packed	Consumer Price
4 oz.	72 to case	\$.10 each
12 oz.	24 to case .....	.25 each
Quart	12 to case .....	.50 each
Gallon	4 to case	1.00 each



It's **AGGRESSIVELY MERCHANDISED—CONTINUOUSLY ADVERTISED**. It's promoted through national magazines, local newspapers, participating radio announcements, and selected trade publications. **ATTRACTIVE FREE DISPLAY MATERIAL** and folders come with every case.

KEM-ICAL CORPORATION, Oradell, New Jersey

*Trademark—Patent Pending

"KEM-FED PLANTS ALWAYS THRIVE"

NAMES OF VEGETABLES IN FOREIGN LANGUAGES

English	French	German	Spanish	Italian	Russian
Anise	Anis Vert	Anis	Anis	Anise	Anis
Artichoke	Artichaut	Artischoke	Alcaucil	Carciofo	Artishok
Asparagus	Asperge	Spargel	Esparrago	Asparago	Sparja
Balm	Citronelle	Citronenmelisse	Toronjil	Melissa	Balsam
Basil	Basilic	Basilikum	Albohaca	Basilico	
Bean	Haricot	Bohne	Poroto	Fagiolo	Ovotchnaya Fasol
Broad Bean	Fèves	Gartenbohnen	Haba	Fava	Konski Bob
Beet	Betterave	Rote rüben	Remolacha	Barbabetole	Stolovaya svekla
Borage	Bourrache	Boretsch	Borraja	Borrano	
Broccoli	Chou-Brocoli	Broccoli	Broculi	Cavolo Broccolo	Brokoli (Sparjevaya Kapusta)
Brussels Sprouts	Choux de Bruxelles	Rosenkohl	Col de Bruselas	Cavolo di Bruxelles	Briusselskaya Kapusta
Cabbage	Choux	Kopfkohl	Repollo	Cavolo	Kotchanaya Kapusta
Cabbage, Chinese	Chou de Chine	Chineser-Kohl	Pe Tsai	Cavolo di China	Kitaiskaya Kapusta
Cabbage, Savoy	Chou de Milan	Wirsing	Repollo Crespo	Cavolo Cappuccio	Savoiskaya Kapusta
Caraway	Cumin des Prés	Kummel	Alcaravea	Carui	Tmin
Cardoon	Cardon	Cardon	Cardo	Cardo	
Carrot	Carotte	Karott	Zanahoria	Carota	Morkov
Cauliflower	Chou-fleur	Blumenkohl	Coliflor	Cavoli Fiore	Tzvetnaya Kapusta
Celery	Céleri	Sellerie	Apio	Sedano	Selderei
Celeriac	Céleri Rave	Knollen-Sellerie	Apio-nabo	Sedano-rapa	
Chervil	Cerfeuil	Kerbel	Perifolio	Cerfoglio	
Chicory	Chicorée	Cichorienwurzel	Achicoria	Cicoria	Tzikoria
Chicory, Large Rooted	Chicorée a café	Kaffee cichorienwurzel	Achicoria de raiz	Cicoria a café	Tzikoria
Chive	Ciboulette	Schnittlauch	Cebollino	Cipollina	Schnittluk
Collard	Chou	Junge-Kohl	Repollo sin Cabeza	Cavolo senza Testa	
Coriander	Coriandre	Koriander	Cilantro	Coriandro	
Corn Salad	Mâche	Feldsalat	Canonigo	Valeriana	Madnitza
Corn	Mais	Mais	Maiz	Mais	Kukuruza
Corn, Pop					Lopaustchaya Kukuruza
Corn, Sweet	Mais sueve	Zucker mais	Maiz dulce	Mais dulce	Sladkaya (Stolovaya) Kukuruza
Cress	Cresson	Kresse	Lepidio	Crescione	Kres salat
Cress, Water	Cresson de fontaine	Brunnenkresse	Bero	Crescione delle fontane	Bruniress, jerukha
Cucumber	Cucombre	Gurke	Pepino	Cetruolo	Ogurtzy
Dandelion	Pissenlit	Lowenzahn	Amargon	Dente di Leone	Oduvantehik
Dill	Aneth	Dill	Eneldo	Aneto	Ukrop
Eggplant	Aubergine	Eierfruchte	Berenjena	Melanzana	Baklajany
Endive, Curled	Chicorée Frisée	Endivien	Endivia	Indivia riccia	Indiv (salat)
Endive, Broadleaf	Chicorée-Scarole	Eskariol	Escarola	Indivia scarola	
Fennel	Fenouil	Fenchel	Hinojo	Finocchio	Fenchel
Garlic	Ail	Knoblauch	Ajo	Aglio	Tchesnok
Gourd	Courge a Manger	Speise-Kurbisse	Calabaza		Tykva
Horehound	Marrube Blanc	Andorn	Marrubio	Marrubio	Schandra
Horse Radish	Raifort	Meerrettich	Taramayo	Rafano	Khren
Hysop	Hyssope	Isop	Hisopo	Issopo	
Kale	Chou Frisée d'hiver	Blatterkohl	Col cresa	Cavolo riccio	Kudravaya Kapusta
Kohlrabi	Chou Rave	Kohlrabi	Col Rabano	Cavola Rapa	Kohlrabee
Lavender	Lavande	Lavendel	Espliego	Lavanda	Lavanda
Leek	Poireau	Lauch	Puerro	Porro	Porey
Lentil	Lentille	Linse	Lenteja	Lenticchia	Tchetchevitza
Lettuce	Laitues	Kopfsalat	Lechuga	Lechuga	Salat
Mangel Wurzel	Betterave fourragère	Runkeln	Remolacha forrajera	Barbabetola di forragio	Kormovaya Svekla
Marjoram	Marjolaine	Marjoran	Majorana	Maggiorana	Marjoran
Mint	Menthe	Münze	Menta	Menta	Miata peretchnaya
Musk Melon	Melon brode	Melon	Melon	Meleone di Muschio	Dynia (kantalouspka)
Mushroom	Champignon	Schwamm	Hongo	Fungo Prataiolo	Shampioni (griby)
Mustard	Moutarde	Senf	Mostaza	Senapa	Gortchitza
Okra	Gombo	Ocher	Quimbombo	Ibisco	
Onion	Oignon	Zwiebeln	Cebolla	Cipolla	Luk Reptchatii
Orache	Arroche	Gartenmelde	Armuelle	Atreplica	
Parsley	Persil	Petersilie	Perejil	Prezzemolo	Petrushka
Parship	Panais	Pastinake	Chirivia	Pastinaca	Pasternak
Pea	Pois	Erbse	Arveja	Pisello	Ovotchnoi sakharnii Gorokh
Peanut	Arachide	Erdnuss	Cacahue	Ceci de terra	Arachis (Zemlianoi Orekh Kitaiskii)
Pepper	Poivre	Pfeffer	Pimiento	Peperone	Peretz
Potato	Pomme de terre	Kartoffel	Papa	Patata	Kartofel
Pumpkin	Potiron	Melone Kurbiss	Calabaza	Zucca	Tykva
Radish	Radis	Radies	Rabano	Ravanello	Rediska
Rhubarb	Rhubarbe	Rhabarber	Ruibarbo	Rabarbaro	Revien
Rocket	Roquette	Rauke	Oruga, Jaramago	Ruca	Dikayagortchitza
Rosemary	Rosmarin	Rosmarin	Romero	Rosemarino	
Rue	Rue	Weinraute	Ruda	Ruta	Ruta
Rutabaga	Chou-navet	Kohlrübe	Colinabo	Rapa svidese	Shvedskaya Repa (Briukva)
Saffron	Safran	Safran	Azafran	Zafferano	Schafran
Sage	Sauge	Salbei	Salvia	Salvia	Shalfey
Salsify	Salsifis	Salsifis	Salsifi	Scorzabianca	Kozeletz
Sorrel	Oseille	Sauerampfer	Acedera	Acetosa	Tschavel
Spinach	Epinard	Spinat	Espinaca	Spinace	Schpinat
Spinach, New Zealand	Tetragone	Neuseeländischer Spinat	Espinaca de Nueva Zealandia	Tetragona	
Squash	Courge	Kurbiss	Zapallo	Zucca	Kabatchki
Sweet Potato	Patate	Batata	Batata	Batata	Batata (Sladkii Kartoffel)
Swiss Chard	Poirée ou Bette	Beete (Mangold)	Acelga	Bista	Listvenaya svekla
Thyme	Thym	Thymian	Tomillo	Timo	Tchabretz
Tomato	Tomates	Tomate	Tomate	Tomata	Tomat (Pomidor)
Turnip, Garden	Navets Potagere	Speise-Rüben	Nabo	Rapa di cucina	Repa stolovaya
Turnip, Field	Nave Fourragere	Futerrüben	Nabo Forrajero	Rapa di forragio	Toornips
Watermelon	Melon d'eau	Wasser-Melone	Sandia	Cocomero	Arbuz



WHY NO ARMY-NAVY "E" FOR THESE WAR WORKERS?

When it comes to awarding honors for a War Job well done, let's not overlook the American Seedsmen, Farmers and Gardeners. Their names belong high on the list, if not at the very top. It hasn't been any picnic, these past few years, meeting stepped-up food quotas with less help, shortages of equipment, and the other handicaps they have faced. But they have come through with flying colors, and have established records of accomplishment which certainly are deserving of official recognition such as the Army-Navy "E" awarded to efficient

war plants and their workers.

The men and women on the production line in our war factories see daily results of their labors . . . the tanks, guns, planes, or ammunition moving to the

fighting fronts in a never-ending stream. The farmer must wait for harvest time. And always with the possibility that storms, floods, drought, insects, or early frost may destroy his year's crops. Nature can sometimes be a bitter enemy of the farmer.

In the Nation-wide battle on the food front, the H. D. Hudson Manufacturing Company takes pride in the part it is playing . . . with HUDSON factories, branches, and distributors backing the attack with *Food Production and Protection Equipment* for gardens and farms.

**YOU CAN'T LIVE FAR FROM
A HUDSON SOURCE OF SUPPLY**



Nation-wide Parts Service

H. D. HUDSON *Manufacturing Company*

589 EAST ILLINOIS STREET • CHICAGO 11, ILLINOIS

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EYE APPEAL

is still the

BIG FACTOR

in the
question

**"WHO
GETS
the
ORDER"**

**A • B • MORSE
COMPANY**

ST. JOSEPH • MICHIGAN

WHY MORE FARMERS BUY

NITRAGIN
INOCULATION

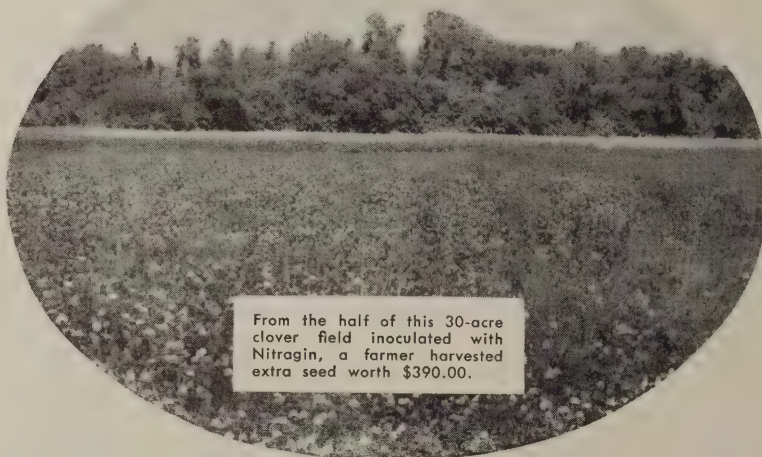
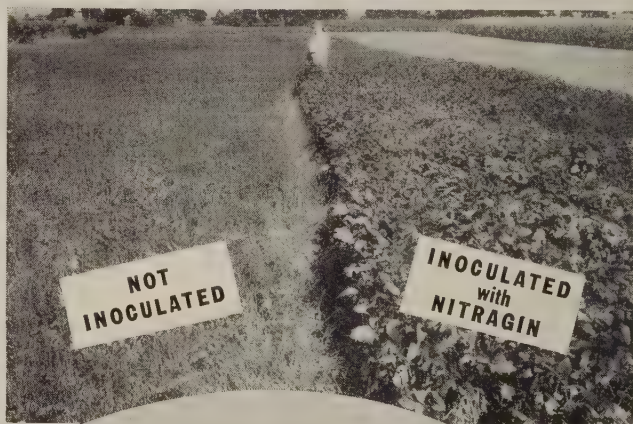
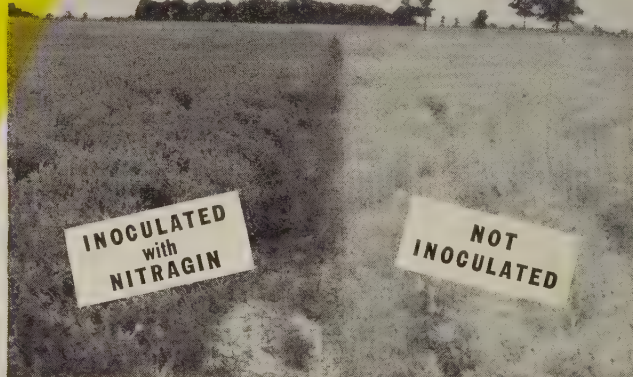
THAN ALL OTHER INOCULANTS COMBINED*

*Returns from a recent survey in eleven legume-growing states show more farmers have used Nitragin inoculation than all other brands combined. Four times as many farmers say they ask for Nitragin when they buy.

Farmers must buy inoculation on faith, for there is no quick way to judge inoculants. They buy on faith in you, the dealer, and faith in the name of the product. For over 45 years, farmers have used Nitragin to get bigger yields of ALFALFA, CLOVERS, SOY-BEANS and other LEGUMES. Nitragin is constantly being improved by scientific selection of strains and by testing both in the laboratory and in the field. It is produced in the most modern laboratory of its kind.

Nitragin is packed in a special, scientifically-designed container proved through years of experience to be best for maintaining the quality of the inoculant. In fact, tests show that bacterial growth continues and the number of bacteria actually increases after packing. Order your 1944 supply of Nitragin now. We are taking every care to guard and maintain the quality of Nitragin in both production and packaging, and we expect to fill all orders promptly in 1944. Call your jobber today, or write us.

THE NITRAGIN CO., INC., 3829 N. Booth St.
MILWAUKEE 12, WISCONSIN



From the half of this 30-acre clover field inoculated with Nitragin, a farmer harvested extra seed worth \$390.00.



YOUR PROTECTION

The registered tradename NITRAGIN identifies the oldest, most widely used brand of inoculation for all legumes. When customers ask for NITRAGIN, be sure to sell them NITRAGIN in the familiar yellow can.

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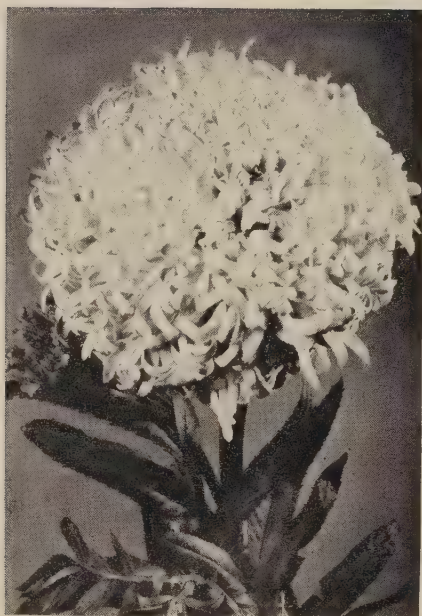
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1933

All-America

G—Gold Medal, S—Silver Medal



MARIGOLD MAMMOTH MUM—1944
Honorable Mention. Introduced by W. Atlee Burpee Co., Philadelphia, Pa.

Ageratum

Name	Award	Year	Introducer
Midget Blue	S	1940	Waller-Franklin Seed Co.

Anchusa

Blue Bird	B	1935	Watkins & Simpson, Ltd.
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Antirrhinum

Celestial	S	1938	Sluis en Groot
Guinea Gold	B	1939	Hurst & Son
Psyche	M	1938	L. Daehnfeldt, Ltd.
Rosalie	B	1940	Waller-Franklin Seed Co.
Royal Rose	B	1936	Hurst & Son
Rustproof	Special Award	1935	Univ. of California
St. George	B	1936	Hurst & Son
White Spire	B	1937	Sluis en Groot

Aster

Early Giant, Light Blue	S	1939	Bodger Seeds, Ltd.
El Monte	B	1936	Bodger Seeds, Ltd.
Enchantress	M	1938	Bodger Seeds, Ltd.
Extra Early Giant			
Crego, Navy Blue	M	1943	W. Atlee Burpee Co.
Illusion	M	1938	Bodger Seeds, Ltd.
Los Angeles	S	1934	Bodger Seeds, Ltd.
Rose Marie	M	1940	Bodger Seeds, Ltd.
Silver Rose	B	1934	Bodger Seeds, Ltd.
Victory Giants Mixed	M	1943	Sluis en Groot of America, Inc.
Wilt-Resistant	Special Award	1933	Bodger Seeds, Ltd.

Calendula

Orange Fantasy	S	1938	W. Atlee Burpee Co.
Orange Shaggy	G	1935	Waller-Franklin Seed Co. } Vaughan's Seed Store
Sunshine	G	1934	Bodger Seeds, Ltd. } W. Atlee Burpee Co.

Calliopsis

Golden Crown	S	1938	Hurst & Son
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Canterbury Bell

Angelus Bell	B	1934	Waller-Franklin Seed Co.
Annual Mixed	G	1933	Waller-Franklin Seed Co.
Liberty Bell	S	1934	Waller-Franklin Seed Co.

Celosia

Flame of Fire	B	1935	T. Sakata & Co.
Royal Velvet	M	1939	Livingston Seed Co.

Chrysanthemum

Eldorado	B	1934	Bodger Seeds, Ltd.
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Cleome

Pink Queen	S	1942	Ferry-Morse Seed Co.
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Cornflower

Jubilee Gem	S	1937	Hurst & Son
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Cosmos

Giant Sensation, Dazzler	M	1943	Bodger Seeds, Ltd.
Orange Flame	G	1935	Bodger Seeds, Ltd.
Sensation	S	1936	J. V. Edlund
Yellow Flame	S	1942	W. Atlee Burpee Co.

Cynoglossum

Firmament	B	1939	Ernst Benary
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Delphinium

Cambridge Blue	S	1933	Waller-Franklin Seed Co.
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Dianthus

Laciniatus Splendens	B	1935	Bodger Seeds, Ltd.
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Hollyhock

Indian Spring	S	1939	Sluis en Groot
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Hunnemania

Sunlite	B	1934	Bodger Seeds, Ltd.
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Larkspur

Blue Bell	B	1934	Bodger Seeds, Ltd.
Rosamund	G	1934	Bodger Seeds, Ltd.
White King	B	1937	Bodger Seeds, Ltd.

Linaria

Fairy Bouquet	G	1934	Watkins & Simpson, Ltd.
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Lupine

Giant King, Mixed	S	1933	Waller-Franklin Seed Co.
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Marigold

Butterball	B	1942	Bodger Seeds, Ltd.
Chry'sm Flowered	M	1938	Waller-Franklin Seed Co.
Crown of Gold	G	1937	W. Atlee Burpee Co.
Dixie Sunshine	S	1936	H. G. Hastings Co. } W. Atlee Burpee Co.
Dwarf Royal Scot	B	1937	Waller-Franklin Seed Co.
Early Sunshine	B	1939	W. Atlee Burpee Co.
Golden Beauty	B	1935	Hurst & Son
Golden Bedder	B	1942	W. Atlee Burpee Co.
Golden Glow	M	1939	W. Atlee Burpee Co.
Golden West	M	1938	W. Atlee Burpee Co.
Goldsmith	B	1941	Waller-Franklin Seed Co.
Guinea Gold	G	1933	Watkins & Simpson, Ltd.
Limelight	B	1940	W. Atlee Burpee Co.
Mammoth Mum	M	1944	W. Atlee Burpee Co.
Melody	B	1942	Ferry-Morse Seed Co.
Monarch Mixed	S	1934	Hurst & Son } Bodger Seeds, Ltd.
Primrose Queen	B	1935	Hurst & Son
Scarlet Glow	M	1941	W. Atlee Burpee Co.
Spry	S	1941	W. Atlee Burpee Co.
Sunkist	S	1943	Bodger Seeds, Ltd.
Yellow Beauty	B	1935	Hurst & Son
Yellow Pygmy	M	1940	W. Atlee Burpee Co.
Yellow Supreme	G	1935	Livingston Seed Co.
Yellowstone	M	1942	Waller-Franklin Seed Co.

Morning Glory

Lavender Rosette	M	1940	Sluis en Groot
Pearly Gates	S	1942	Ferry-Morse Seed Co.
Scarlett O'Hara	G	1939	Waller-Franklin Seed Co. } Dallas Seed Producing Co.

Myositis

Ingrid	M	1938	L. Daehnfeldt, Ltd.
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Nasturtium

Glorius Gleam Hybrids	S	1935	Bodger Seeds, Ltd.
Golden Gleam	G	1933	Bodger Seeds, Ltd.
Golden Globe	S	1936	Vis Brothers, Ltd. } Bodger Seeds, Ltd.
Scarlet Gleam	G	1935	Bodger Seeds, Ltd.

Nierembergia

Purple Robe	B	1942	Bodger Seeds, Ltd.
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Pansy

Coronation Gold	S	1938	Sluis en Groot
Dwarf Swiss Giants	S	1933	Vaughan's Seed Store

Petunia

Alldouble America	S	1943	W. Atlee Burpee Co.
Blue Brocade	S	1941	T. Sakata & Co.
Blue Gem	M	1938	T. Sakata & Co.
Burgundy	B	1937	W. Atlee Burpee Co.
Cheerful	B	1944	W. Atlee Burpee Co.
Cream Star	S	1940	W. Atlee Burpee Co.
Painty Lady	S	1936	Bodger Seeds, Ltd.
English Violet	M	1943	Joseph Harris Co.
First Lady	S	1941	T. Sakata & Co.
Flaming Velvet	G	1936	Sluis en Groot
Glamour	M	1942	Bodger Seeds, Ltd.
Glow	S	1940	T. Sakata & Co.
Hollywood Star	B	1939	Waller-Franklin Seed Co.
Igloo	B	1943	Joseph Harris Co.
Imp'd. Rose King	B	1936	Ferry-Morse Seed Co.
Ladybird	B	1939	Ernst Benary
Martha Washington	S	1935	Waller-Franklin Seed Co.
Pink Gem	G	1934	Waller-Franklin Seed Co.
Radiance	S	1941	Waller-Franklin Seed Co.
Rose Gem	S	1936	Waller-Franklin Seed Co.
Salmon Supreme	S	1938	W. Atlee Burpee Co.
Topaz Rose	B	1938	Waller-Franklin Seed Co.
Velvet Ball	B	1939	Vis Brothers, Ltd. } Bodger Seeds, Ltd.
Victorious Apple Blossom	M	1939	T. Sakata & Co.
Victorious Galety	E	1938	T. Sakata & Co.
Victorious, Mixed	S	1934	T. Sakata & Co. } Ferry-Morse Seed Co.
Victorious Orchid Beauty	S	1938	T. Sakata & Co.
Violet Gem	M	1941	Waller-Franklin Seed Co.

Phlox

Gigantea Art Shades	S	1935	Waller-Franklin Seed Co.
Red Glory	M	1942	Waller-Franklin Seed Co.
Rosy Morn	B	1941	Waller-Franklin Seed Co.
Salmon Glory	S	1939	Waller-Franklin Seed Co.

Poppy, Iceland

Yellow Wonder	B	1937	W. Atlee Burpee Co.
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Rudbeckia

Starlight	M	1942	Buckman, Denholm and Holden Seed Co.
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PETUNIA CHEERFUL, highest flower award in 1944 All-America competition. Introduced by W. Atlee Burpee Co., Philadelphia.

Selections

1944

B—Bronze Medal, M—Honorable Mention

Salvia

Royal Blue M 1940 Hurst & Son

Scabiosa

Blue Moon M 1939 Bodger Seeds, Ltd.
Giant Hybrids B 1934 W. Atlee Burpee Co.
Heavenly Blue B 1940 W. Atlee Burpee Co.
Peace M 1941 W. Atlee Burpee Co.

Stock

Giant Excelsior, Rose Pink B 1937 Waller-Franklin Seed Co.

Sweet Pea

Spring, Blue B 1940 Ferry-Morse Seed Co.
Spring, Lavender M 1940 Ferry-Morse Seed Co.
Spring, Rose Pink S 1940 Ferry-Morse Seed Co.

Venidium

Fastuosum S 1933 Bodger Seeds, Ltd.

Verbena

Beauty of Oxford Hybs. S 1933 Waller-Franklin Seed Co.
Blue Sentinel B 1939 W. Atlee Burpee Co.
Cerise Queen B 1934 Waller-Franklin Seed Co.
Dannebrog S 1934 { L. Paehnfeldt, Ltd.
Theodore Jensen
Floradale Beauty S 1937 W. Atlee Burpee Co.
Lavender Glory S 1933 Waller-Franklin Seed Co.
Spectrum Red B 1934 Waller-Franklin Seed Co.
Violet Bouquet B 1935 Waller-Franklin Seed Co.

Zinnia

Black Ruby B 1941 W. Atlee Burpee Co.
Fantasy, Mixture S 1935 Bodger Seeds, Ltd.
Fantasy, Star Dust S 1937 Bodger Seeds, Ltd.
Fantasy, White Light M 1939 Bodger Seeds, Ltd.
Navajo, Mixed M 1938 W. Atlee Burpee Co.
Royal Purple M 1942 Ferry-Morse Seed Co.



CUCUMBER CUBITS—1944 Bronze Medal winner. Introduced by Associated Seed Growers, Inc., New Haven, Conn.

VEGETABLES

Bean

Name	Award	Year	Introducer
Asgrow Stringless Green Pod	G	1933	Associated Seed Growers, Inc.
Bush Snap, Long Island Longpod	M	1942	William Kroemer
Bush Snap, Medal Refugee	B	1942	Associated Seed Growers, Inc.
Bush Snap, Tender Pod	R	1941	W. Atlee Burpee Co.
Granda	S	1939	Rudolph Schreiber & Sohne
Keystoneian	M	1944	Corneli Seed Co.
Plentiful	B	1939	Ferry-Morse Seed Co.
(Asgrow) Stringless Black Valentine	S	1933	Associated Seed Growers, Inc.
Pole Snap, Decatur	S	1942	Associated Seed Growers, Inc.
Pole Snap, Potomac	B	1943	Associated Seed Growers, Inc.
The Commodore	S	1938	Zwaan & Van der Molen

Bean, Lima

Baby Potato	S	1940	Associated Seed Growers, Inc.
Cangreen Bush	M	1943	F. H. Woodruff & Sons, Inc.

Beet

Asgrow Canner	S	1936	Associated Seed Growers, Inc.
Asgrow Wonder	G	1934	Associated Seed Growers, Inc.
Good for All	B	1934	Ferry-Morse Seed Co.
Little Marvel	B	1934	Zwaan & Van der Molen
Ohio Canner	S	1933	{ Ohio Experiment Station J. M. Lupton & Son
Perfected Detroit	S	1934	J. M. Lupton & Son
Perfect Model	B	1938	Abraham Sluis, Ltd.

Cabbage

Chieftan	S	1938	Ferry-Morse Seed Co.
Just Right	B	1935	Sluis Bros., Ltd.
Moskow Market Pride	M	1937	Abraham Sluis, Ltd.
Penn State Ballhead	S	1934	{ Penn State College J. M. Lupton & Son
(Red) Earliest of All	M	1937	Abraham Sluis, Ltd.
Sauerkraut King	M	1938	Abraham Sluis, Ltd.

Cantaloupe

Honey Gold	M	1941	Edward Lowden
Honey Rock	G	1933	J. C. Robinson Seed Co.
Imperial	S	1935	J. C. Robinson Seed Co.
Improved Perfecto	S	1933	Garwood & Woodside



KEYSTONIAN GREENPOD BUSH SNAP BEAN—1944 Honorable Mention. Introduced by Corneli Seed Co., St. Louis, Mo.

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GREAT LAKES LETTUCE—1944 Bronze Medal winner by Keith C. Barrons of Michigan State College, East Lansing, Mich.

Queen of Colorado M 1939 J. C. Robinson Seed Co.
Wayside Market M 1939 D. V. Burrell Co.

Carrot
Claudia B 1937 L. Clause, Inc.
Imperator S 1933 Associated Seed Growers, Inc.
Morse's Bunching G 1934 Ferry-Morse Seed Co.
Supreme Half-Long B 1937 Ferry-Morse Seed Co.

Corn, Sweet
Allegheny, Hybrid B 1941 Associated Seed Growers,
Aristogold Bantam 1939 Michael-Leonard Co.
No. 1 M
Ear Pack Bantam M 1939 Northrup, King & Co.
12-Row M Inc.
Golden Colonel S 1936 Associated Seed Growers, Inc.
Hybrid Bantam S 1935 Sioux City Seed Co.
Ioana B 1940 { Iowa State College
Associated Seed Growers, Inc.
Kingscrot Bantam B 1934 Northrup, King & Co.
Lincoln Hybrid Sweet B 1942 { Conn. Experiment Station
Sleeping Giant Seed Farms
Spancross, Hybrid M 1941 W. Ralph Singleton
Stowell's Evg. Hybrid B 1934 Associated Seed Growers, Inc.
Topflight Bantam Hybrid Sweet M 1942 Michael-Leonard Co.

Cucumber
Barteldes S 1934 Barteldes Seed Co.
Clark's Special S 1933 Associated Seed Growers, Inc.
Colorado S 1935 J. C. Robinson Seed Co.
Cubit B 1944 Associated Seed Growers, Inc.
Marketer B 1943 Associated Seed Growers, Inc.
Straight-8 G 1935 Ferry-Morse Seed Co.

Eggplant
New Hamps. Hybrid S 1939 N. H. Experiment Station

Endive
Ratavian Full Heart S 1934 Vilmorin-Andrieux & Co.
Cos-type Batavian M 1941 Ferry-Morse Seed Co.
Deep Heart Fringed S 1940 Ferry-Morse Seed Co.
Prizewinner B 1937 Sluis Brothers, Ltd.

Kohlrabi
Triumph of Prague S 1937 Sluis Brothers, Ltd.

Lettuce
Atlantic B 1937 Sluis en Groot
Cosberg 600 M 1942 { U.S. Dept. of Agriculture
Northrup, King & Co.
Great Lakes B 1944 Mich. Agri. Exp. Sta.
L. S. White Boston S 1935 Francis C. Stokes & Co.
New York PW55 M 1942 Pieters-Wheeler Seed Co.
Spearhead M 1938 W. Atlee Burpee Co.

Mustard
Giant So. Curled, L. S. G 1935 Abraham Sluis, Ltd.

Okra
Clemson Spineless S 1939 S. C. Experiment Station
La. Green Velvet M 1941 La. Fruit & Truck Exp. Sta.
White Lightning B 1939 H. G. Hastings Co.

Onion
Yellow Valencia S 1937 D. V. Burrell Co.

Parsley
Evergreen M 1940 Ferry-Morse Seed Co.
Paramount S 1936 Ferry-Morse Seed Co.
Peerless S 1934 Zwaan & Van der Molen

Pea
Canner King B 1937 Associated Seed Growers, Inc.
Confidence S 1936 Zwaan & de Wiljes, Inc.
Teton S 1937 Associated Seed Growers, Inc.
Top Notch M 1939 W. Atlee Burpee Co.

Pepper
Asgrow King B 1935 Associated Seed Growers, Inc.
Early Pimiento M 1943 W. Atlee Burpee Co.
Fordhook B 1940 W. Atlee Burpee Co.
Rocky Ford H 1938 D. V. Burrell Co.
Sweet Banana B 1941 Cornell Seed Co.
Windsor A S 1937 Conn. Experiment Station

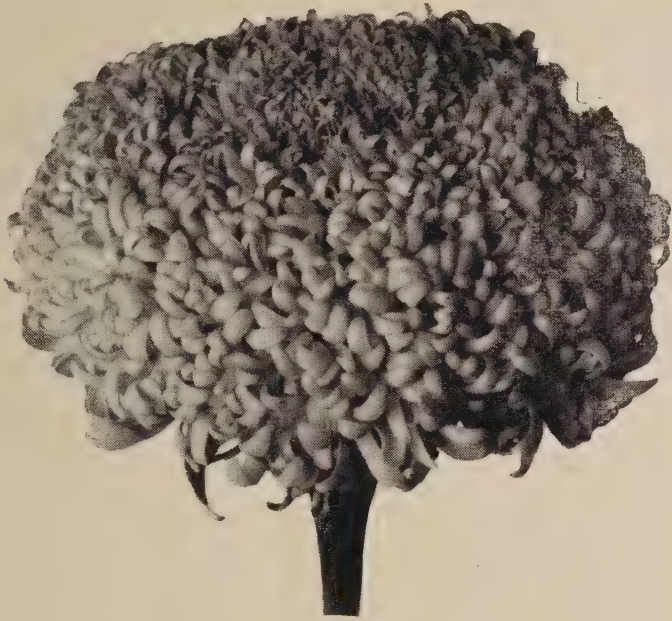
Radish
Billiard Ball M 1938 Sluis en Groot
Comet S 1936 Zwaan & Van der Molen
Glowing Ball G 1934 Zwaan & Van der Molen
Jewel B 1936 Zwaan & de Wiljes, Inc.
White Pearl B 1935 Sluis Brothers, Ltd.

Spinach
Bloomsdale No. 5 B 1937 Sluis Brothers, Ltd.
Darkie B 1937 Zwaan & Van der Molen
Del Monte M 1938 Zwaan & Van der Molen
Giant Nobel S 1933 Zwaan & Van der Molen
Resisto M 1937 Zwaan & de Wiljes, Inc.
Summer Savoy B 1937 Zwaan & Van der Molen
Viking S 1935 Sluis en Groot
Winter King B 1937 Zwaan & Van der Molen

Squash
Conn. Straightneck M 1939 Conn. Experiment Station
Ey. Prolife St'neck S 1938 Ferry-Morse Seed Co.
Fordhook Zucchini M 1942 W. Atlee Burpee Co.
Golden Table Queen H 1939 J. C. Robinson Seed Co.
Yankee Hybrid B 1941 Lawrence C. Curtis

Tomato
Burpee Globe B 1936 W. Atlee Burpee Co.
Cardinal M 1938 Associated Seed Growers, Inc.
Harkness M 1938 McFayden Seed Co.
Jubilee B 1943 W. Atlee Burpee Co.
Mingold S 1940 Minn. Experiment Station
Penn State B 1936 Walter S. Schell, Inc.
Pritchard G 1933 U. S. Dept. of Agriculture
Scarlet Dawn G 1935 Associated Seed Growers, Inc.
Victor B 1941 Keith Barrons

Watermelon
Graystone S 1933 H. G. Hastings Co.



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BRONZE MEDAL
1941

Also
Mission Giant
Marigolds
Yellowstone
(H.M. 1942)
and
Mixed Colors

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Annual Canterbury Bells, Mixed Colors.....1933
Petunia Nana Compacta, Pink Gem.....1934
Calendula, Orange Shaggy.....1935
Morning Glory, Scarlett O'Hara.....1938

SILVER MEDAL WINNERS

Petunia Hybrida, Howards Star.....1939
Phlox Gigantea, Salmon Glory.....1939
Petunia Hybrida, Radiance.....1941
Ageratum, Midget Blue.....1939

BRONZE MEDAL WINNERS

Rust-Proof Large Flowered Antirrhinum, Rosalie.....1940
Mission Giant Marigold, Goldsmith.....1941
Phlox Gigantea, Rosy Morn.....1941

CERTIFICATE OF HONOR—1935

Rust-Proof Antirrhinum, University of California Mixture

AWARD OF MERIT WINNERS

Petunia Miniature, Rose Gem.....1936
Phlox Gigantea, Art Shades.....1935
Marigold Dixie Sunshine.....1936
Petunia Ruffled Nana Compacta, Martha Washington.....1935
Lupinus Hartwegii Giants, Mixed Colors.....1933

HONORABLE MENTION WINNERS

Phlox Gigantea, Red Glory.....1942
Mission Giant Marigold Yellowstone.....1942
Petunia Miniature, Violet Gem.....1941

WINNERS OF SPECIAL MENTION

Petunia Hybrida, Topaz Rose.....1938
Stock Double Giant Excelsior, Rose Pink.....1937
Marigold Dwarf All-Double Royal Scot.....1933

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Bromus Inermis
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Meadow Fescue
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Poa Ampla
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Fairway Crested Wheat
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Rye Grass

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COMMON WEEDS

Descriptions and Drawings of Use in the Identification of Weeds
That Are Commonly Found Around the Buildings
and in the Plantings of the Farmstead.



INTRODUCTION

WEEED PLANTS illustrated and briefly discussed in previous editions of the Seed Trade Buyers Guide have been grouped for some common quality or character. This present group is rather nondescript but nevertheless, the individuals are common and widespread, and perhaps assume more importance in some areas than in others, due to types of farming, crops grown, soil and weather conditions as well as the human element.

When one learns that 90% or more of our common weed plants are not native to North America and that they have adapted themselves to their new homes and taken possession of the fields, meadows, pastures and waste places, he must realize that a knowledge of their structures and habits of life are necessary to successfully compete with them. Weeds are the cause of considerable loss to the farmers in extra labor, reduced yields and lower quality of produce. In hunting and fishing, to get the most satisfaction, one must know the habits of the game he seeks. Just so, is it necessary to know the intimate life habits of weed plants to be able to contend most successfully with them. With this in mind the following brief discussion of a few weed plants is presented.

By

A. H. LARSON, LAMBERT ERICKSON
and R. B. HARVEY

Minnesota Agricultural Experiment Station.



Assistance in the preparation of this material was furnished by the personnel of the Work Projects Administration, Official Project No. 65-1-71-140. Sponsor: University of Minnesota. Percentages thruout are taken from a Weed-Seed Survey covering the period 1933-1938 inclusive. References to commercial seed are exclusive of seed corn, beans, and other large seeds.

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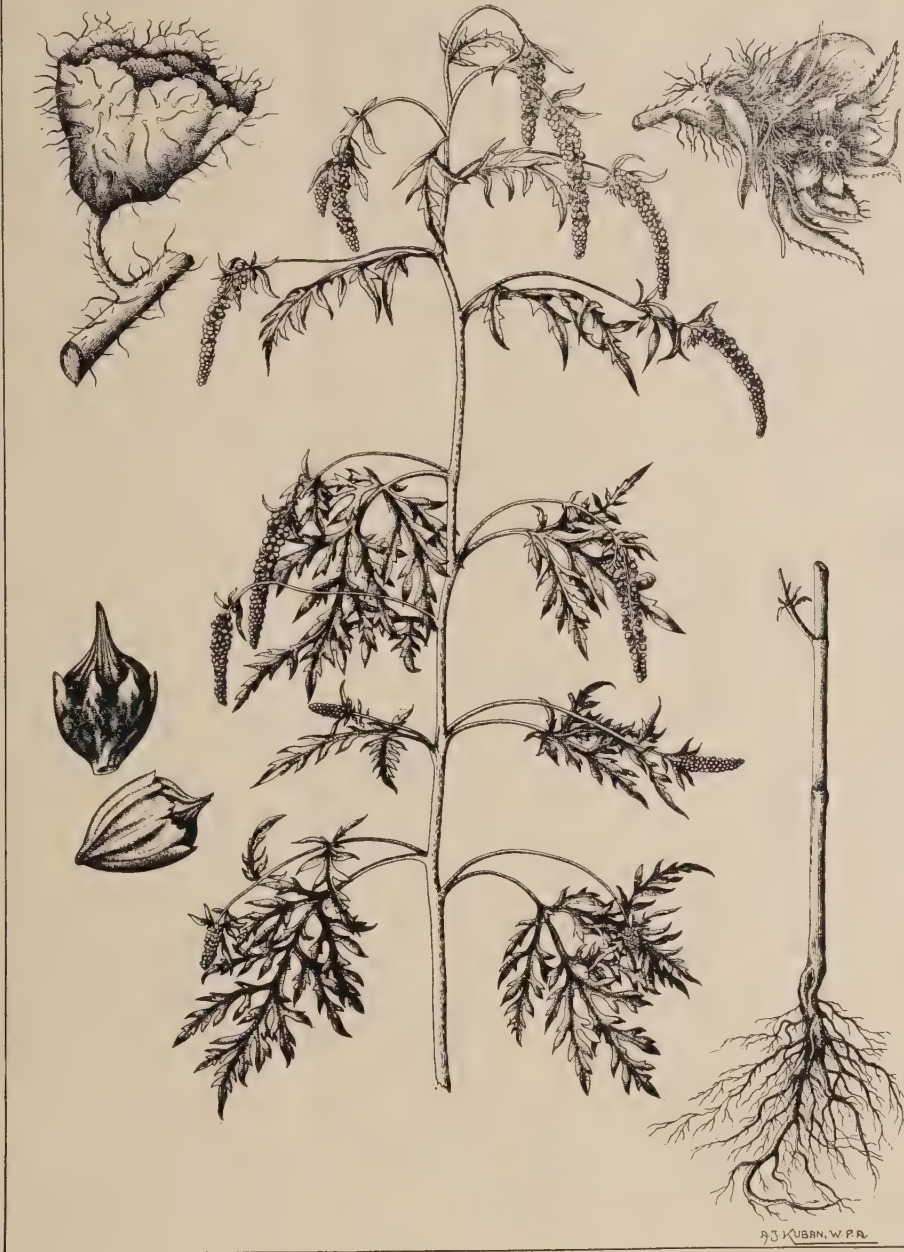
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POLYGONUM PERSICARIA SMARTWEED



LADY'S THUMB SMARTWEED (*Polygonum persicaria*) is sometimes called simply Lady's Thumb. It is an introduced annual that thrives where red clover grows best, although it will grow in most any kind of fertile soil. The plants grow to a height of about 2 feet and branch more or less depending on competition. The leaves somewhat resemble those of a willow without teeth along the edges. The flowers are borne in pink spikes at the ends of the branches and the resulting seeds or fruits are nearly black and more or less heart shaped. This latter character sometimes gives rise to the name Heart's-ease. This weed rarely crowds out accompanying crop plants, but its seeds are among the most common in forage crop seeds, especially red and alsike clover. The prevention of seed production is the basis for its control and eradication. Good soil preparation to give crop plants an advantage and the growing of intertilled crops in a crop rotation will control it. In grass crops sulfate sprays will set it back without much injury to the crop.

AMBROSIA ARTEMISIIFOLIA
COMMON RAGWEED



COMMON RAGWEED (*Ambrosia artemisiifolia*) is a very common weed in the eastern half of the U.S. and Canada. It is a native plant and an annual, whose oily seeds can live in the soil for many years. The plant blooms during August and September and ripens seeds about 1 month later. It is most commonly found growing in pastures, grain fields, along roadsides and in waste places. The pollen from this plant is a very common cause of late summer hay fever. Its seeds are quite commonly found in clover and alfalfa seeds and sometimes in small grain and millet. It rarely causes much crop damage except during dry seasons or in pastures where, during July, August, and September it seriously crowds out the pasture plants and is apt to taint the milk. The long tapering spikes of male flowers and the much cut leaves are very characteristic. It grows to a height of about 3 feet. Its control is largely a matter of preventing seeds from maturing for many years or until the seed supply in the soil is exhausted. Plowing grain stubble in August and mowing pastures and meadows before the middle of August will prevent seeds from ripening, as usually after that time frosts will prevent seed production. The leaves and stems are very easily killed by sulfate sprays, but the process is rather expensive.

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**BROMUS TECTORUM
DOWNY BROME-GRASS**



DOWNY BROME GRASS (*Bromus tectorum*) is a winter annual plant of rather recent introduction into the U. S. During the dry years, which favored it, it spread rapidly so that now it infests dry or well drained areas thruout central and western U. S. and the plains areas of Canada. It is most commonly found in clover and alfalfa fields and waste places where it competes seriously. The seeds germinate in the early fall. The seedlings live over winter and then resume growth as soon as the snow is gone or the soil is thawed out in the spring. It grows rapidly and matures seeds about the middle of June, thus insuring a supply for starting the next crop. The stems and leaves are hairy and soon become woody. Livestock will not eat it, if anything more palatable is available; and its food value is low. The long barbed awns cause sore mouths. To control it, thoroughly preparing the land for planting in the spring is the best method, as it cannot compete with summer annual plants such as oats, barley, etc. In pastures and waste places cut and burn the plants before they ripen seeds. The seed is chiefly wind borne due to several long bearded awns associated with the fertile seeds. Its seed has been spread in crop seeds and in commercial hay.

MEDICAGO LUPULINA

YELLOW TREFOIL



YELLOW TREFOIL (*Medicago lupulina*).—Both a summer and winter annual is also known as Black Medick, because the single seeded ripe pod is black. It is an introduced plant with a dual personality, being closely related to alfalfa it has much the same feed value, but since it is an annual and not able to stand up by itself, it becomes a weed in most cases. In the south where the growing season is long it can reach sufficient size in one season to be of value as an emergency pasture crop and with a grass companion which holds it upright, can be of value as hay. It is also used as a green manure crop in the middle Atlantic states and north tier of the Gulf States. In the north central states it is more or less a weed. In a good stand of cereal crops it may cause the grain to lodge. After this the Trefoil grows over the lodged grain, keeping it moist so that the grain rots on the ground and fails to fill out its kernels. Also it becomes a pest in lawns. Its seeds will live in the soil for several years. The flowers are small and yellow and the leaves resemble those of white clover. Alone it grows flat on the ground. In fields it is best controlled by growing alfalfa and intertilled crops; and in lawns by fertilizing heavily with ammonium sulfate and by close cutting.

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RUMEX CRISPUS

CURLED DOCK



CURLED DOCK (*Rumex crispus*) or Yellow Dock as it is sometimes called is another introduced perennial weed that may grow in most any soil and any crop although it is most persistent in moist locations. It is a common weed of moist pastures. The long curly leaves and brown top when ripe are familiar to most people. The yellow spindle shaped tap root may penetrate 2 or 3 feet into the soil and is difficult to remove except in spring when the soil is soft and wet. Its only means of spread is its seeds. These three-sided brown parts about the size of a millet seed are common in most clover, alfalfa and millet crop seed and are difficult to remove. The first step in trying to control this weed is to drain the soil if necessary, so that a good job of tillage can be performed. Intertilled crops which permit a long season of thorough cultivations and hoeing offer the best means of eradication. In wet seasons many of the roots can be easily pulled. Seeds of this plant are very long lived and will germinate for 50 or more years after being produced if buried in the soil.

HYPERICUM PERFORATUM
ST. JOHNS WORT



ST. JOHN'S-WORT (*Hypericum perforatum*).—This is an introduced perennial noxious weed that spreads both by seeds and lateral branching from the base of the stem. It grows to a height of two to three feet, and grows chiefly in meadows, pastures, waste places, and fields, that are not well cultivated. The young plants have a juice which is very sour and blistering so that no animals will eat it. The flowers are yellow about $\frac{3}{4}$ inches across, the many stamens are in 3 groups. The leaves, when closely examined, are seen to be filled with numerous small clear spots. The stem is much branched and somewhat woody when mature. The plant is quite widely distributed in North America except in the far north and south. St. John's-wort is best controlled in large quantities by clean cultivation of intertilled crops. Isolated plants should be pulled or grubbed out following a heavy rain or wet season.

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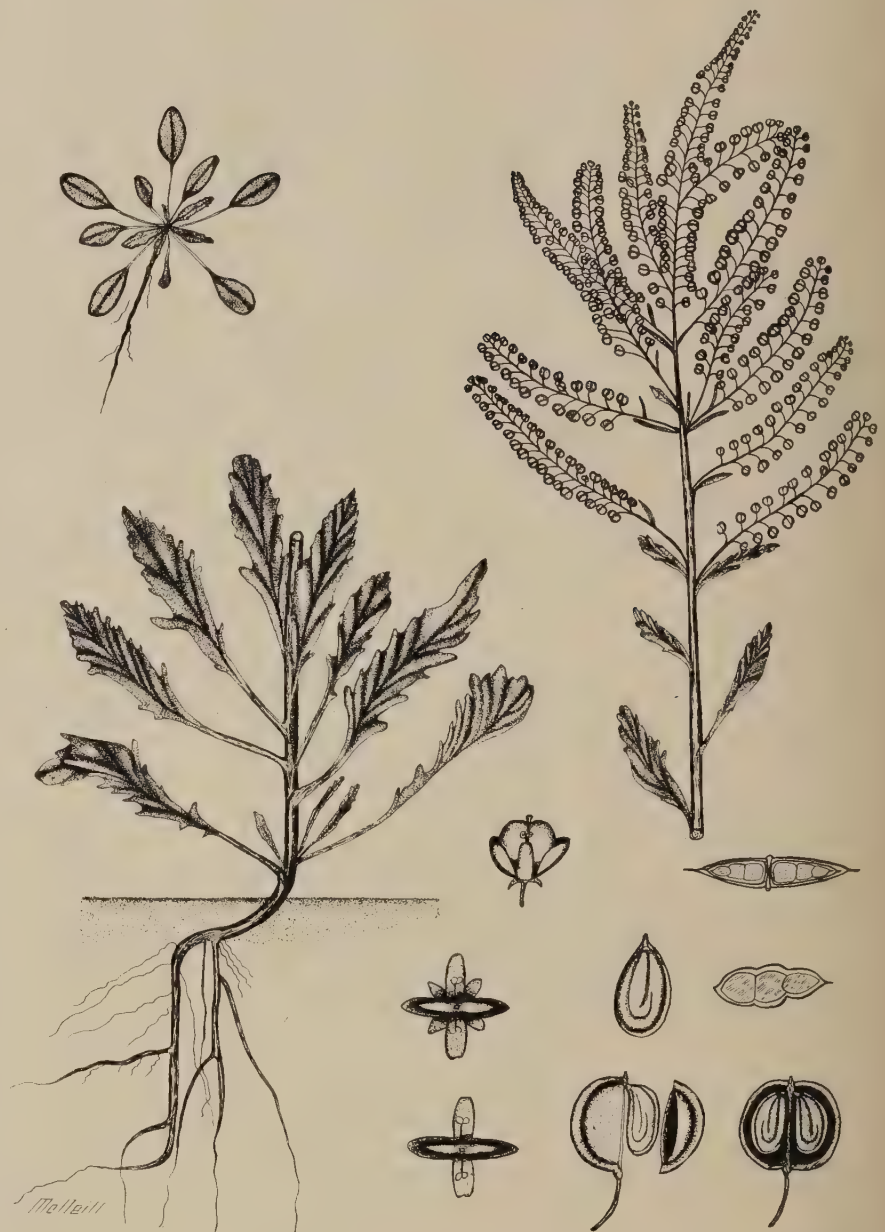
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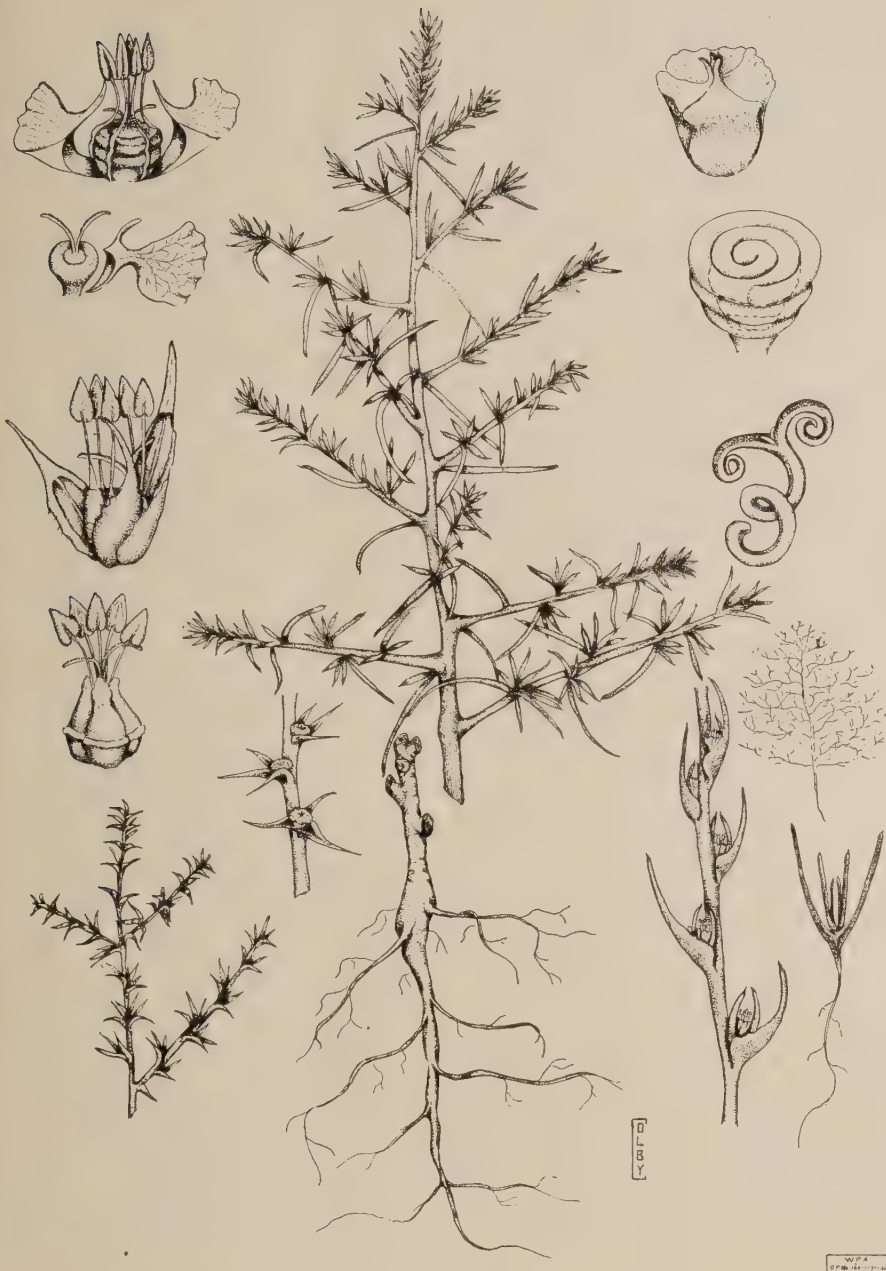
MEMPHIS, TENNESSEE

LEPIDIUM APETALUM PEPPER-GRASS



COMMON PEPPER GRASS (*Lepidium apetalum*).—This rather common summer annual and winter annual is a foreigner that has become widely spread throughout the United States in light, sandy, or dry soils, where it sometimes grows to the almost complete lack of other plants. It grows in fields, meadows, pastures, and waste places. Where the soil is fertile and sufficient moisture is present, it rarely competes seriously with crops other than in pastures and perennial meadows. Most of the seeds germinate in the fall and the resulting plants live over winter to resume growth, bloom and ripen seeds before other plants can compete and before the hot dry weather of summer arrives. The flowers are rather inconspicuous as they have no corolla and are small. The flat circular pod has two seeds. These may live in the soil many years. The seed is sometimes put into birdseed mixtures. The control of this weed, where possible, is by irrigation, improving the physical condition and fertility of the soil and by growing intertilled and small grain crops rather than hay and pasture plants.

SALSOLA KALI
RUSSIAN THISTLE



RUSSIAN THISTLE (*Salsola Kali*).—Russian cactus and R. Tumbleweed are other names for this annual weed that has, since its introduction into America in perhaps the '90s, spread over the Canadian Prairie provinces and much of the central plains states west of the Mississippi river. It grows better than most crop plants in dry soil. Good growing conditions favor crop plants which then crowd the Russian Thistle. Return of dry seasons encourages the weed. The plant is unique in that it can grow in somewhat alkali soil and thrive in soils too dry for crop plants. There is a vast difference in the appearance of the plants up to the time of blooming and when they are mature. The early leaves are long, slender and succulent while the later leaves are short, sharp tipped and hard. When mature, the stem becomes brittle and breaks off near the surface of the soil. Then because of the ball shape of the plant, it is readily blown about by the winds spreading its seeds as it rolls. Its seeds are spread far and wide in alfalfa, sweet clover and red clover seed. During dry years it has furnished feed for livestock that otherwise would have starved if not shipped away. Clean crop seed is the first requirement in control, followed by improvement of the soil by fertilizing and increasing its water holding capacity. Cut off the young plants, handle stubble fields to prevent ripening of seeds. Plow late in the spring and sow to emergency hay such as millet, or sudan grass.

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SETARIA VERTICILLATA

BRISTLY FOXTAIL



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R.J. XUDAN, No. 30

BRISTLY FOXTAIL (*Setaria verticillata*).—Another introduced weed, Bristly Foxtail, is apt to outstrip its sister species in being a farm pest. It has much the same characteristics as the other two Foxtails with the added one that its heads will cling to wool, hair, and clothing, that come in contact with them and be carried away in that manner, thus spreading it. The bristles in the heads have barbs which make it cling. This makes it very troublesome where sheep graze as these barbed bristles mat the wool and are difficult to card out thus seriously lowering the value of the fleece. It also is rather disagreeable for man to work where it is headed out. The weed is spreading rapidly in Minnesota and very likely in other states. The head characters are very distinctive. Also the stems are weak, making a more or less tangled mass when nearly mature. In this case, to control it must be a matter of preventing seeds from ripening in much the same manner as for Yellow Foxtail.

SETARIA GLAUCA
YELLOW FOXTAIL



YELLOW FOXTAIL (*Setaria glauca*).—Wild Millet and Pigeon grass are other common names for this almost universally introduced weed that is present in almost every field in the small grain area that has been under cultivation for more than 10 or 15 years. This and its sister species green foxtail, perhaps cause more loss in grain fields on the average farm than any other weeds. They are almost always present and exact their share of plant foods and sunshine. Incidentally, its seeds are long lived in the soil so that there is always a good stand of it to compete with crops. It is recognized by the frequently bluish color of its leaves and the stiff upright, millet-like head with yellowish bristles among the seeds. Because it can almost always ripen seeds in from 6 to 8 weeks, it is sure to reseed itself when growing with most any crop. Its control depends upon preventing it from ripening seeds over a period of years in any one field. The means of doing this may vary. Late cultivation of corn is one. Late spring plowing followed by some tillage, seeding to millet for hay and then plowing the field to prevent further growth is another. Close pasturing of stubble fields after grain harvest is still another. If seeds ripen in the stubble the field should be burned over.

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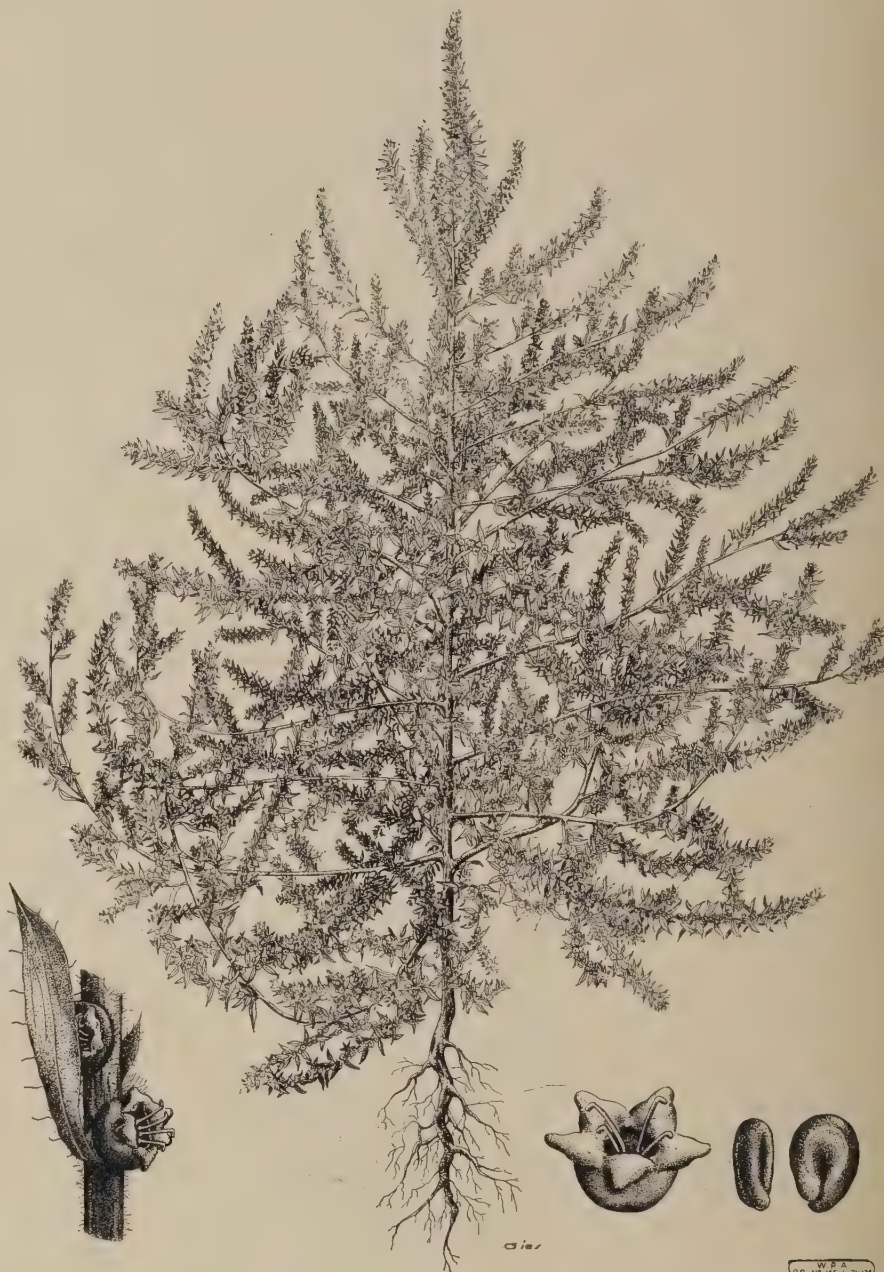


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KOCHIA SCOPARIA
MEXICAN FIREBALL



MEXICAN FIREBALL (*Kochia scoparia*).—This is an introduced annual weed evidently brought in as a decorative plant, which is not long removed from its wild or free state. By selection its growth has been developed into a dense pyramidal form which becomes intensely crimson colored upon nearing maturity. When not selected for type each year, it soon reverts to its wild form and becomes a coarse, unsightly weed that is now widespread along roads, around farmsteads and in waste places and fields. It produces much seed and will even roll like a tumbleweed. This is another case of poor judgment in introducing a plant into this country before its habits are sufficiently known. It grows in dense masses, smothering out all the smaller and less vigorous plants. The length of life of its seeds is not definitely known. Eradication consists in hand pulling, hoeing and planting infested lands to intertilled crops. Maturing plants should be cut and burned.

RAPHANUS RAPHANISTRUM

WILD RADISH



WILD RADISH (*Raphanus raphanistrum*).—Jointed Charlock is another familiar name of a most persistent, introduced mustard, which is now widely distributed throughout eastern Canada and northeastern and north central United States. In most respects its habits and appearances are quite similar to those of Wild Mustard, except that it seems to compete more seriously with cereal crops and may be either an annual or biennial. It is not a serious problem in intertilled crops, perennial meadows or pastures, although it can maintain itself in these crops, perhaps due largely to the long length of life of the seed when buried in the soil. The seed is spread largely in cereal crop seeds and by water. The cylindrical pods instead of splitting, to release the seed, break crosswise. Hence, each seed is surrounded by a pulpy covering that gives it buoyancy in water and makes it almost impossible to separate from small grain seeds. The difficult place to contend with it is in cereal crops. If present in small amounts, it should be pulled by hand. Heavy infestations may be controlled by a selective weed spray of sodium dinitro-ortho-cresol when in the 3 to 5 leaf stage. Thorough soil preparation in the spring will eliminate the plants from the year before.

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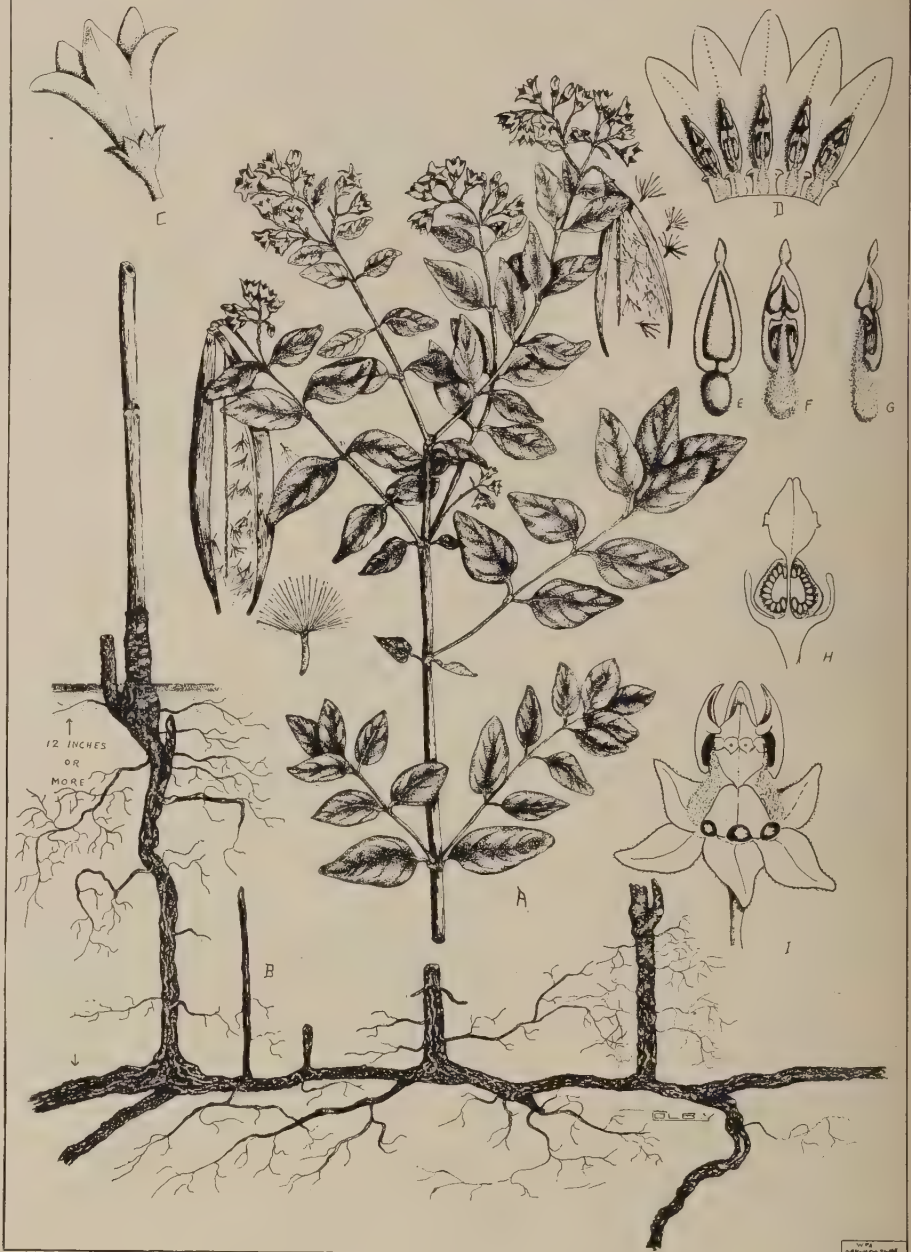
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SPREADING DOGBANE



SPREADING DOGBANE (*Apocynum androsaemifolium*).—This native perennial weed is quite common in dry or sandy soils. It has a deep horizontal stem which lives over winter, spreads laterally and gives rise to new upright stems. It sometimes grows thickly together to the height of 3 to 4 feet, but usually does not take complete possession of the space. When broken or cut off all parts exude a thick white sap. The flowers are small, pinkish and somewhat bell shaped. The pods are about 4 inches long and slender, usually two from each flower. These split lengthwise like milkweed pods and the small seeds with attached down are liberated to be spread by the wind. Livestock do not care to eat it. Its bast fiber has possibilities of producing cordage, especially if the plant could be produced in sufficient quantities and grew thickly enough to prevent much branching. It is difficult to eradicate by other than frequent cultivation throughout one growing season. In intertilled crops some hand work would be necessary, until freezing time. None of the ordinary crops can successfully crowd it out without some extra labor.

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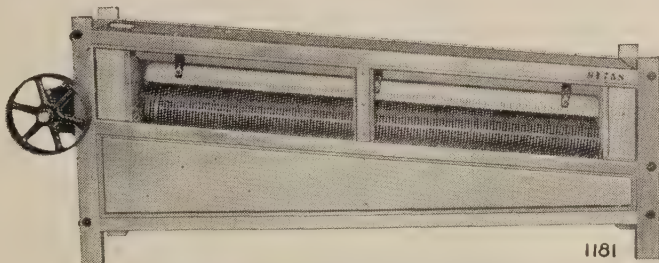
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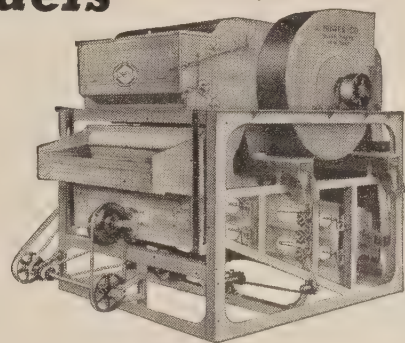


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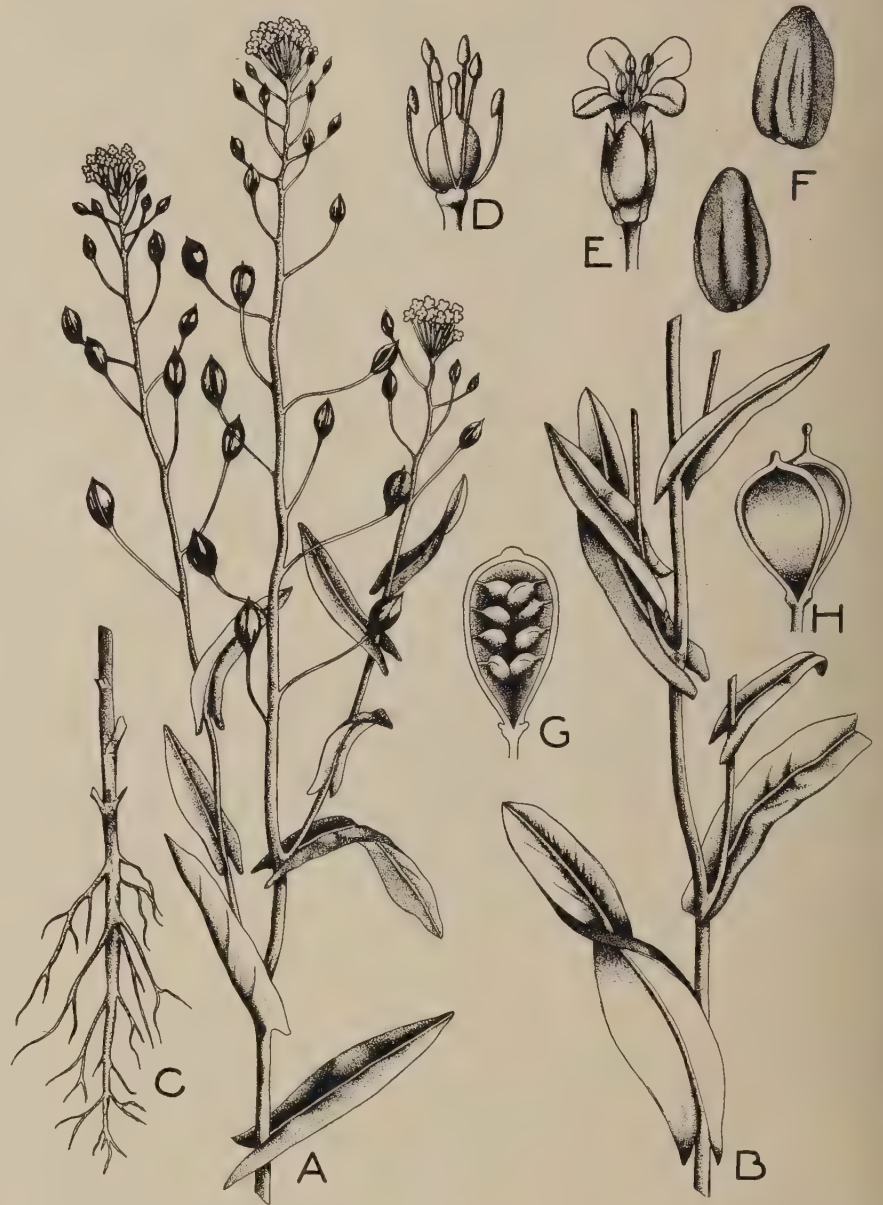
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CAMELINA SATIVA FALSE FLAX



FALSE FLAX (*Camelina sativa*).—This is a mustard and not a flax. However, its pods somewhat resemble those of flax and the plant is most commonly associated with flax although it also grows among the cereals. The flowers are a creamy yellow and the seeds frequently are somewhat flat, thus making it almost impossible to completely remove its seeds from infested flax seed. The slightly hairy leaves are about 3 to 4 inches long and 1 inch wide. The leaf has no petiole or stem and the base extends partly around the stem of the plant. This annual weed is spreading rapidly in small grain and flax growing areas. Its seeds are long lived in the soil and hence many years of thorough control are needed to eradicate it. It is a problem in small grain and flax. Any farm operation that prevents it from ripening seeds slowly eliminates its growing. Alfalfa will prevent it from ripening seeds if the alfalfa is cut for hay and not for seed. Where only a few plants are present they should be pulled and destroyed. On a large area a sodium salt of dinitro-ortho-cresol (Sincox) applied as a spray when the weed is in the 3 to 5 true leaf stage will destroy the weed without much injury to the cereals or flax.

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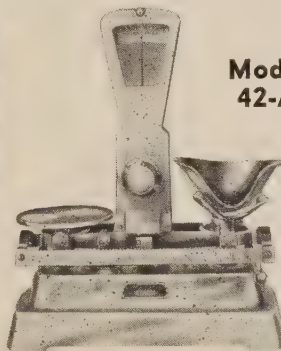


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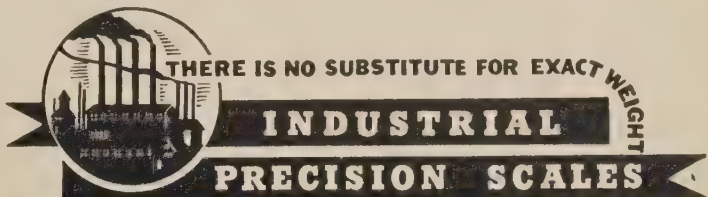


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WOUNDWORT (*Stachys palustris*).—Hedge nettle is another common name for this native perennial weed that likes to persist in damp soils and along valleys. Its horizontal underground stem makes it difficult to do a good job of tillage where it grows. It grows 2 to 4 feet tall, has a square stem and rather stiff hairs attached at the corners, that point downward. The spotted pale purple flowers are typical of the Mints and are loosely bunched at the top. The leaves are attached opposite and in four rows along the stem. The plant is coarse and because of its hairiness and unpleasant flavor cattle will not eat it. Its range is almost throughout the United States and Canada where the soil is moist. It can be controlled in meadows by early cutting of the grass. In wet places, that can be drained and planted to intertilled crops one season of thorough work will eliminate it.

TRAGOPOGON PRATENSIS
YELLOW GOATS-BEARD



YELLOW GOAT'S BEARD (*Tragopogon pratensis*).—Meadow salsify is another name for this weed immigrant which is now quite widely and firmly established throughout most of the northeastern quarter of the United States and eastern Canada, in meadows, along roadsides, in pastures and waste places. The plant may be either a biennial or a short-lived perennial. Its grasslike leaves and oversized flower head and seed globe, resembling dandelions, are very characteristic. All parts of the plant when cut exude a white sap. It is a pest in wild upland meadows and in cultivated perennial meadows. Its full characteristics of being a weed are not fully known. Spread is chiefly by wind, the large hairy parachute of each seed being able to carry it long distances. Since it grows mainly in grass-lands, control is not a matter of tillage, but one of roguing the meadows, when the plants first begin to bloom. Badly infested land should be broken up and put under cultivation.

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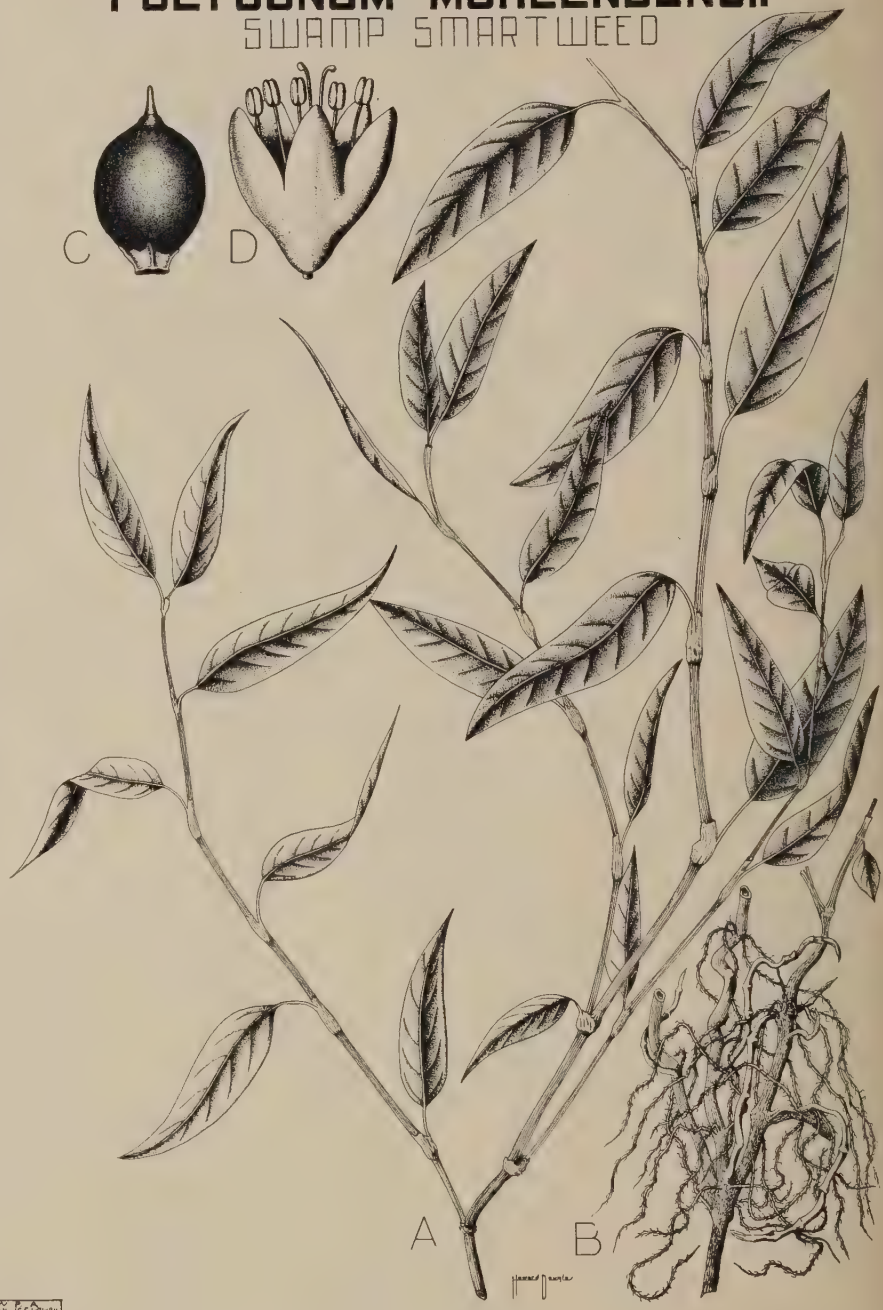
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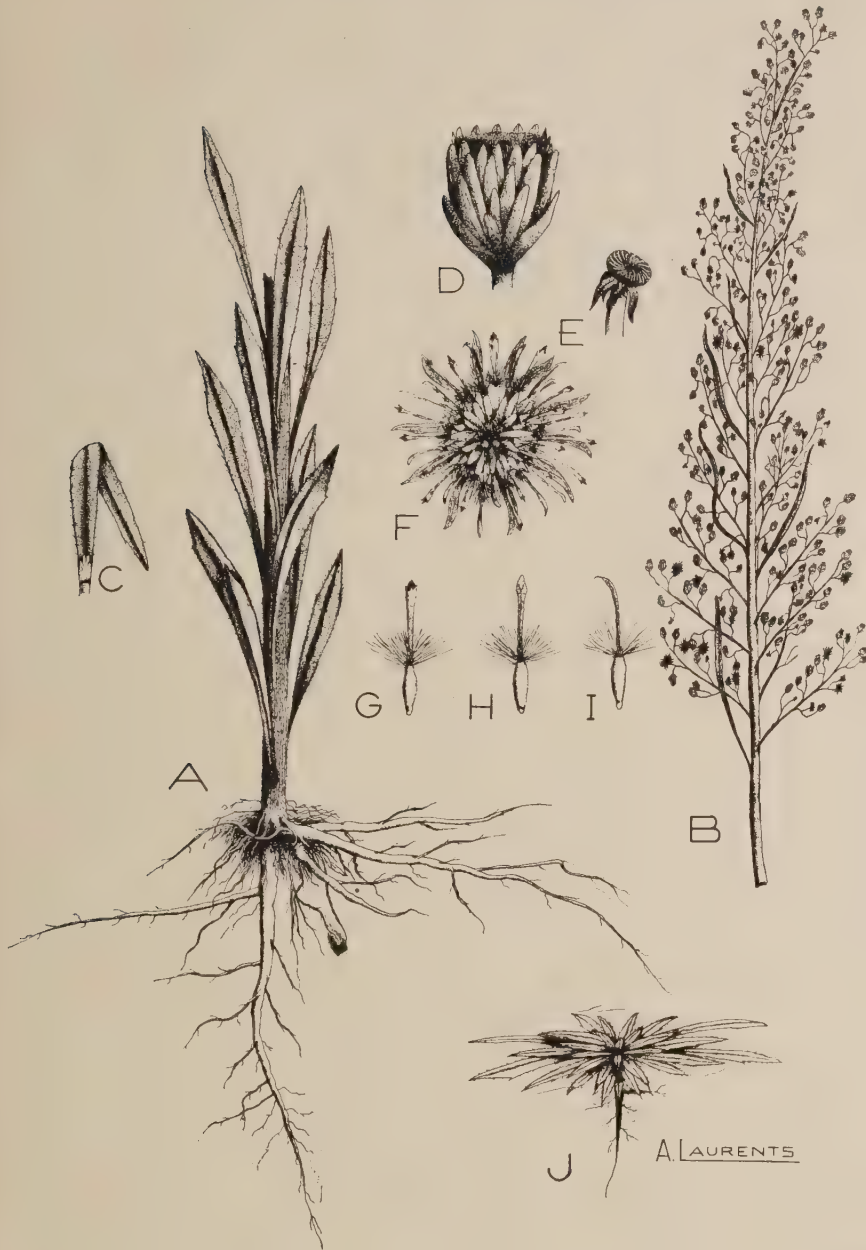
Oregon

POLYGONUM MUHLENBERGII SWAMP SMARTWEED



SWAMP SMARTWEED (*Polygonum Muhlenbergii*).—In wet or heavy moist soils this weed is apt to be a persistent pest. It has heavy tough underground stems that may extend laterally five or more feet in one season. Usually the soil is so moist that cultivation does not loosen the wet soil from the nodal roots so that a tillage operation only sets it back a few days. Because it is so difficult to eradicate it is also called Devils's Shoestring. It is apt to be found in fields reclaimed from swamps and in gumbo type of soil, where it may grow so thickly as to crowd out worthwhile plants. On the higher land it rarely blooms, but in water or mud it does. The flowers are pink and grow in spikes at the ends of the branches. The leaves are covered with closely lying hairs. In wet soil it can be crowded out by Reed Canary Grass in about three years if a good stand of the grass is secured. Where the soil can be tilled, the horizontal stems should be gathered up and removed at plowing time and an intertilled crop planted in. Cultivation and hoeing can complete the job if well done.

ERIGERON CANADENSIS
CANADA FLEABANE



CANADA FLEABANE—(*Erigeron canadense*).—This is a common native summer annual and winter annual weed, that is very apt to be found in abundance over a large range especially in abandoned fields of low fertility. It is also known as “Mares-tail, Horseweed, and Bitterweed.” Livestock usually do not eat it because of its bitter flavor which is due to an irritating oil, and the hairy covering of the leaves and stems. In poor soil it generally reaches a height of 3 feet but in good soil it may grow to 8 or 10 feet. In good soil cultivated crops generally compete successfully with it. Hence its control is a matter of good farm practice, increasing fertility to increase the competition of crops and enough cultivation to prevent seeds from maturing. The small seeds are spread almost entirely by the wind as they have a bunch of fine hairs attached to one end.

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SIKESTON, MISSOURI

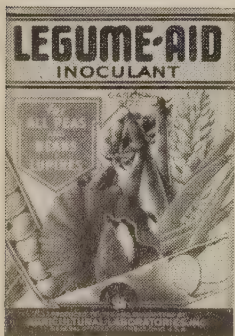
VEGETABLE SEED GERMINATION STANDARDS—MINIMUM PERCENTAGE

	Fed. Seed —Act Interstate Regulation	Ala. 1943	Ariz. 1941	Cal. 1943	Colo. 1943	Del. 1943	Fla. 1943	Geo. ■ 1942	Ill. 1942	Mass. 1942	Mich. 1943	Mo. 1941	New Hamp. 1943
Artichoke	60	60	60	60	60	60	60	60	60	60	60	60	60
Asparagus	*70	*70	*70	*70	*70	*70	*70	*70	*70	*70	70	*70	*70
Bean	80	80	80	80	80	80	80	80	80	80	80	80	80
Bean, Large Lima	70	70	70	70	70	70	70	70	70	70	70	70	70
Bean, Small Lima	70	70	70	70	70	70	70	70	70	..	75	70	70
Bean, Fordhook	..	..	..	..	..	..	..	..	..	..	65	..	..
Beet	65	65	65	65	65	65	65	65	65	65	65	65	65
Broccoli	75	75	75	75	75	75	75	75	75	75	75	75	75
Brussels Sprouts	70	70	70	70	70	70	70	70	70	70	70	70	70
Cabbage	75	75	75	75	75	75	75	75	75	75	70	75	75
Cabbage, Chinese	75	..	..	75	..	..	75	..	..	75	..	75	..
Carrot	55	55	75	55	55	55	55	55	55	55	55	55	55
Cauliflower	75	75	75	75	75	75	75	75	75	75	70	75	75
Celery	55	55	55	55	55	55	55	55	55	55	55	55	55
Celery	55	55	55	55	55	55	55	55	55	55	55	55	55
Chard, Swiss	65	65	65	..	65	65	65	65	65	65	65	65	..
Chicory	65	65	65	65	65	65	65	65	65	65	60	65	65
Citron	65	65	65	65	65	65	65	65	65	65	65	65	65
Collard	80	80	80	80	80	80	80	80	80	80	80	80	80
Corn, Sweet	75	75	75	75	75	75	75	75	75	75	75	75	75
Cress, Curled	..	..	40	..	..	..	..	40	..	40	60	..	..
Cress, Upland	40	40	..	40	40	40	40	..	40	..	..	40	40
Cress, Water	25	25	25	25	25	25	25	25	25	25	35	25	25
Cucumber	80	80	80	80	80	80	80	80	80	80	80	80	80
Dandelion	45	45	45	45	45	..	45	45	45	45	..	45	45
Dill	..	..	..	..	..	..	..	60	..	..	60	..	..
Eggplant	60	60	60	60	60	60	60	60	60	60	60	60	60
Endive	70	70	70	70	70	70	70	70	70	70	70	70	70
Fetticus (Corn Salad)	70	70	70	70	70	70	70	70	70	70	..	70	70
Kale	75	75	75	75	75	75	75	75	75	75	70	75	75
Kohl Rabi	75	75	75	75	75	75	75	75	75	75	75	75	75
Leek	60	60	60	60	60	60	60	60	60	60	60	60	60
Lettuce	80	80	80	80	80	80	80	80	80	80	80	80	80
Melon Musk	75	75	75	75	75	75	75	75	75	75	75	75	75
Melon, Honey Dew	..	..	75	..	..	..	..	..	..	..	70	..	..
Melon, Water	70	70	70	70	70	70	70	70	70	70	70	70	70
Mustard	75	75	75	75	75	75	75	75	75	75	75	75	75
Okra	*50	*50	50	*50	50	50	*50	50	*50	*50	*70	*50	50
Onion	70	70	70	70	70	70	70	70	70	70	70	70	70
Pak-choi	75	..	..	75	..	..	75	..	..	..	..	75	..
Parsley	60	60	60	60	60	60	60	60	60	60	60	60	60
Parsnip	60	60	60	60	60	60	60	60	60	60	60	60	60
Pea	80	80	80	80	80	80	80	80	80	80	80	80	80
Pepper	55	55	55	55	55	55	55	55	55	55	55	55	55
Pumpkin	75	75	75	75	75	75	75	75	75	75	75	75	75
Radish	75	75	75	75	75	75	75	75	75	75	75	75	75
Rhubarb	60	60	60	60	60	60	60	60	60	60	60	60	60
Rutabaga	75	75	75	75	75	75	75	75	75	75	75	75	75
Sage	..	..	..	..	..	..	..	60	..	..	..	..	..
Salsify	75	75	75	75	75	75	75	75	75	75	75	75	75
Savory	..	..	..	..	..	..	..	..	..	..	..	..	..
Sorrel	60	60	60	60	60	60	60	60	60	60	..	60	60
Spinach	60	60	60	60	60	60	60	60	60	60	60	60	60
Spinach, New Zealand	40	40	40	40	40	40	40	40	40	40	..	40	40
Squash	75	75	75	75	75	75	75	75	75	75	75	75	75
Tomato	75	75	75	75	75	75	75	75	75	75	75	75	75
Tomato, Husk	50	50	50	50	50	..	50	50	50	50	..	50	50
Turnip	80	80	80	80	80	80	80	80	80	80	80	80	80

†Canada—Chervil 75%, Chives 75%, Mangel 65%, Sugar Beet 65%, Vegetable Marrow 75%.

■Georgia—Cardoon 60%.

*Including Hard Seeds.



Famous **LEGUME-AID** INOCULANT in an attractive Garden Packet

Samples

Whether the object is over-counter sales or mail orders, this fast moving little item is ideal for seedsmen. Colorful, attention getting, with high display value, it is yet convenient in size and shape. Compact, self-contained and self-protecting, it requires no special wrapping. Just hand it to the customer or slip it in shipping package with other items and you've made a clean profit. Quality guaranteed, of course, by the LEGUME-AID trademark, which always stands for high potency inoculants.

Produced, Tested
Agricultural
General Offices,

VEGETABLE SEED GERMINATION STANDARDS—MINIMUM PERCENTAGE

N. C. 1941	Ohio 1940	Okla. 1943	Ore. 1939	S. C. 1940	S. D. 1941	Texas [®] 1941	Va. 1943	Wash. 1941	W. Va.♦ 1941	Wis. 1941	Can.‡ 1938	
..	60	60	..	60	60	60	..	60	60	60	75	Artichoke
*70	*70	*70	70	*70	*70	70	..	*70	70	70	75	Asparagus
80	80	80	80	80	80	85	80	80	80	80	80	Bean
70	70	70	70	75	70	70	70	70	70	70	..	Bean, Large Lima
70	70	70	80	75	..	80	80	70	70	70	..	Bean, Small Lima
..	..	..	..	..	..	..	..	..	..	..	..	Bean, Fordhook
65	65	65	70	65	65	65	65	65	65	65	65	Beet
75	75	75	75	75	75	75	75	75	75	75	75	Broccoli
70	70	70	75	70	70	70	70	70	70	70	80	Brussels Sprouts
75	75	75	80	75	75	75	75	75	75	75	80	Cabbage
..	..	75	75	..	..	..	..	..	..	..	..	Cabbage, Chinese
55	55	55	65	55	55	55	55	55	55	55	55	Carrot
75	75	75	75	75	75	75	75	75	75	75	75	Cauliflower
55	55	55	60	55	55	55	55	55	55	55	55	Celeriac
55	55	55	60	55	55	55	55	55	55	55	55	Celery
65	65	65	70	65	65	65	65	65	65	65	65	Chard, Swiss
65	65	65	75	65	65	60	..	65	65	75	75	Chicory
65	65	65	75	65	..	65	..	65	..	65	75	Citron
80	80	80	80	80	80	80	80	80	80	80	..	Collard
75	75	75	80	75	75	75	75	75	75	75	80	Corn, Sweet
40	..	..	..	..	40	70	..	..	..	..	75	Cress, Curled
..	40	40	..	40	..	..	..	40	..	40	..	Cress, Upland
25	25	25	..	25	25	40	..	25	..	25	..	Cress, Water
80	80	80	80	80	80	80	80	80	80	80	75	Cucumber
45	45	45	..	45	..	..	..	45	45	..	..	Dandelion
..	..	..	60	..	..	60	..	..	60	60	..	Dill
60	60	60	65	60	60	60	60	60	60	60	65	Eggplant
70	70	70	75	70	70	70	70	70	70	70	75	Endive
70	70	70	..	70	70	..	..	70	70	..	..	Fetticus (Corn Salad)
75	75	75	80	75	75	75	75	75	75	75	80	Kale
75	75	75	75	75	75	75	75	75	75	75	80	Kohl Rabi
60	60	60	75	60	60	60	60	60	60	60	75	Leek
80	80	80	75	80	80	75	80	80	80	80	80	Lettuce
75	75	75	80	75	75	75	75	75	75	75	75	Melon, Musk
..	..	..	..	..	..	..	..	..	..	..	..	Melon, Honey Dew
70	70	70	75	70	70	70	70	70	70	70	75	Melon, Water
75	75	75	75	75	..	75	75	75	75	75	75	Mustard
50	50	*50	60	50	50	50	50	50	50	50	..	Okra
70	70	70	75	70	70	70	70	70	70	70	75	Onion
..	..	75	..	..	..	..	..	..	..	..	..	Pak-choi
60	60	60	65	60	60	60	60	60	60	60	65	Parsley
60	60	60	65	60	60	60	60	60	60	60	55	Parsnip
80	80	80	85	80	80	80	80	80	80	80	80	Pea
55	55	55	60	55	55	55	55	55	55	55	65	Pepper
75	75	75	75	75	75	75	75	75	75	75	75	Pumpkin
75	75	75	85	75	75	75	75	75	75	75	80	Radish
60	60	60	..	60	60	60	..	60	60	60	..	Rhubarb
75	75	75	80	75	75	75	75	75	75	75	80	Rutabaga
..	..	..	..	..	..	..	..	..	60	..	60	Sage
75	75	75	70	75	75	75	75	75	75	75	75	Salsify
..	..	..	..	..	..	..	..	..	60	..	60	Savory
60	60	60	..	60	..	..	..	60	60	..	..	Sorrel
60	60	60	70	60	60	60	60	60	60	60	65	Spinach
40	40	40	..	40	40	..	..	40	40	40	..	Spinach, New Zealand
75	75	75	75	75	75	75	75	75	75	75	75	Squash
75	75	75	75	75	75	75	75	75	75	75	75	Tomato
50	50	50	..	50	50	..	..	50	50	..	..	Tomato, Husk
80	80	80	80	80	80	80	80	80	80	80	80	Turnip

®Texas—Sweet Fennel 60%, Caraway 65%.

♦W. Virginia—Bean, Pole 80%, Cardoon 60%, Sweet Basil 50%, Sweet Fennel 60%, Sweet Marjoram 65%, Thyme 60%.

*Including Hard Seeds.

Cut Worms meet their match in popular GO-WEST INSECT BAIT

An efficient killer for Cut Worms, Earwigs, Sowbugs, Snails, Slugs, and many kinds of Weevils, bugs and insects. Favored for years by nurserymen, this superior product is now receiving a rush of popularity from Victory Gardeners. Made from sun ripened apples, GO-WEST is extremely attractive to victims. Moisture does not destroy its effectiveness. Retains killing properties for many days after application. Easy to use. Experiment Stations, Truck Gardeners, Tree Experts, etc., recommend it.



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Columbus, Ohio, U. S. A.

Seed Germination Table

Prepared by Food Distribution Administration, U. S. Department of Agriculture, Washington, D. C.

Name of seed	Substrata ¹	Temperature	First count	Final count	Remarks	Name of seed	Substrata ¹	Temperature	First count	Final count	Remarks
		° C.	Days	Days				° C.	Days	Days	
Alfalfa— <i>Medicago sativa</i>	B, S	20	3	7		Millet:					
Bahia grass— <i>Paspalum notatum</i> ...	P	30-35	3	21	Light at 30° C. Remove all glumes with aid of sharp scalpel. Fresh seed lightly, scratch surface of carvopsis and use potassium nitrate.	Browntop— <i>Panicum fasciculatum</i>	B	20-30	4	14	
Barley— <i>Hordeum vulgare</i>	T, S	20	3	7	Fresh seed prechill 5 days at 5° or 10° C.	Foxtail, German, Hungarian, or Golden— <i>Setaria italica</i>	B	20-30	4	10	
Bean, Adzuki— <i>Phaseolus angularis</i>	R, S	20-30	4	10		Japanese— <i>Echinochloa crusgalli frumentacea</i>	B	20-30	4	10	
Bean, field— <i>Phaseolus vulgaris</i>	R, S	20-30	5	8		Pearl— <i>Pennisetum glaucum</i>	B	20-30	3	7	
Bean, velvet— <i>Stizolobium utile</i>	S	20-30	3	14		Proso— <i>Panicum miliaceum</i>	B	20-30	3	7	
Bean, Mung— <i>Phaseolus aureus</i>	R, S	20-30	3	7		Molasses grass— <i>Melinis minutiflora</i>	P	20-30	7	21	Light.
Beet, field (not sugar)— <i>Beta vulgaris</i>	B	20-30	3	14	Soak in water 2 hours before testing. Wash in running water after soaking.	Napier grass— <i>Pennisetum purpureum</i>	B	20-30	3	10	
Bentgrass:						Oats— <i>Avena sativa</i>	T, S	20	4	10	Fresh seed prechill for 5 days at 5° or 10° C
Creeping (seaside):						Oatgrass, tall— <i>Arrhenatherum elatius</i>	P	20-30	6	14	Light.
<i>Agrostis palustris</i>	P	20-30	7	28	Light; potassium nitrate.	Orchard grass— <i>Dactyloctenium aegyptium</i>	S, P	20-30	7	18	Germination more rapid in soil; light on Petri dish tests.
Highland:						Peas, field— <i>Pisum sativum arvense</i>	R, S	20	3	8	
<i>Agrostis tenuis</i> var.....	P	20-30	7	28	Do.	Rape:					
<i>Agrostis spp.</i>	P	20-30	7	21	Do.	Annual— <i>Brassica napus</i> var.....	B	20-30	3	7	
Bermuda grass— <i>Cynodon dactylon</i>	P	20-35	7	21	Do.	Bird— <i>Brassica campestris</i>	P	20-30	3	10	Light, fresh seed potassium nitrate.
Bluegrass:						Turnip— <i>Brassica rapa</i> var.....	B	20-30	3	7	
Annual— <i>Poa annua</i>	P	20-30	7	21	Light.	Winter— <i>Brassica napus</i>	B	20-30	3	7	
Canada— <i>Poa compressa</i>	P	20-30	7	28	Light; potassium nitrate.	Redtop— <i>Agrostis alba</i>	T, B	20-30	5	10	Light.
Kentucky— <i>Poa pratensis</i>	P	20-30	7	28	Fresh seed 15°-30° C. daylight.	Reed Canary grass— <i>Phalaris arundinacea</i>	P	20-30	5	21	Light; fresh seed potassium nitrate.
Rough— <i>Poa trivialis</i>	P	20-30	7	21	Do.	Rescue grass— <i>Bromus catharticus</i>	P	20-30	7	35	Light; fresh seed potassium nitrate and 15-25° C.
Wood— <i>Poa nemoralis</i>	P	20-30	7	28	Do.	Rhodes grass— <i>Chloris gayana</i>	P	20-30	6	14	Light.
Bluestem— <i>Agropyron smithii</i>	P	20-30	7	35	Light; fresh seed potassium nitrate and 15° C.	Rice— <i>Oryza sativa</i>	B, T	20-30	3	10	
Brome, smooth— <i>Bromus inermis</i>	P, TB	20-30	6	14	Light.	Rye— <i>Secale Cereale</i>	T, S	20	3	7	
Broomcorn— <i>Sorghum vulgare technicum</i>	B, S	20-30	3	10		Ryegrass:					
Buckwheat— <i>Fagopyrum vulgare</i>	B, T	20-30	3	6		Italian— <i>Lolium multiflorum</i>	P, TB	20-30	5	14	Light; fresh seed potassium nitrate.
Carpet grass— <i>Axonopus compressus</i>	P	20-35	10	21	Light.	Perennial— <i>Lolium perenne</i>	P, TB	20-30	5	14	Light.
Chickpea— <i>Cicer arietinum</i>	R, S	20-30	3	7		Sainfoin— <i>Onobrychis viciifolia</i>	B	20-30	4	10	
Clovers:						Sorghum:					
Alsike— <i>Trifolium hybridum</i>	B, S	20	3	7		Grain— <i>Sorghum vulgare</i>	B, S	20-30	3	10	
Alyce— <i>Alysicarpus vaginalis</i>	P	30	4	21		Sweet (sorgo)— <i>Sorghum vulgare</i>	B, S	20-30	3	10	Fresh seed prechill at 5° or 10° C. for 5 days.
Berseem— <i>Trifolium alexandrinum</i>	B, S	20	3	7		Soybean— <i>Soja max</i>	RT, S	20-30	5	8	
Bur— <i>Medicago arabica</i> and <i>Medicago hispida</i>	B, T	20	4	14		Sudan grass— <i>Sorghum vulgare sudanense</i>	B, S	20-30	3	10	
Cluster— <i>Trifolium glomeratum</i>	B	20	4	10		Sunflower— <i>Helianthus annuus</i> (cultivated).....	T, B	20-30	3	7	
Crimson— <i>Trifolium incarnatum</i>	B, S	20	3	7		Sweet vernalgrass— <i>Anthoxanthum odoratum</i>	P	20-30	6	14	Light.
Ladino— <i>Trifolium repens</i>	B, S	20	3	10		Timothy— <i>Phleum pratense</i>	P, TB	20-30	5	10	Light; fresh seed potassium nitrate.
Persian— <i>Trifolium resupinatum</i>	B	20	3	7		Velvetgrass— <i>Holcus lanatus</i>	P	20-30	6	14	Light.
Red— <i>Trifolium pratense</i>	B, S	20	3	7		Vetch:					
Sour— <i>Melilotus indica</i>	B	20	3	14		Common— <i>Vicia sativa</i>	T	20	3	10	
Strawberry— <i>Trifolium fragiferum</i>	B	20	3	7		Hairy— <i>Vicia villosa</i>	T	20	3	14	
Subterranean— <i>Trifolium subterraneum</i>	B	20	4	14	Fresh seed 15° C.	Hungarian— <i>Vicia pannonica</i>	T	20	3	10	
Suckling— <i>Trifolium dubium</i>	B	20	4	14		Monantha— <i>Vicia monantha</i>	T	20	3	10	
Sweet— <i>Melilotus alba</i> and <i>Melilotus officinalis</i>	S, B	20	3	7		Narrowleaf— <i>Vicia angustifolia</i>	T	20	4	14	
White— <i>Trifolium repens</i>	B, S	20	3	10		Purple— <i>Vicia atropurpurea</i>	T	20	3	10	
Cotton— <i>Gossypium hirsutum</i>	T, S	20-30	4	12	"Prewet" seed on retest. ²	Woolypod— <i>Vicia dasycarpa</i>	T	20	4	14	
Cowpeas— <i>Vigna sinensis</i>	R, S	20-30	5	8	Watch for weevil injury to plumule.	Wheat:					
Corn, field— <i>Zea mays</i>	R, S	20-30	4	7		Common—spelt and emmer <i>Triticum aestivum</i>	T, S	20	3	7	Fresh seed prechill at 5° or 10° C. for 5 days.
Corn, pop— <i>Zea mays everta</i>	R, S	20-30	4	7		Durum— <i>Triticum aestivum</i>	T, S	20	3	10	Fresh seed prechill at 5° or 10° C. for 5 days.
Crested dogtail— <i>Cynosurus cristatus</i>	P	20-30	10	21	Light; fresh seed prechill for 3 days at 5° or 10° C.	Wheatgrass:					
Crotalaria— <i>Crotalaria intermedia</i> and <i>C. spectabilis</i>	B, S	20-30	3	10		Crested— <i>Agropyron cristatum</i>	P, TB	20-30	5	14	Light; fresh seed 15° C.
Dallis grass— <i>Paspalum dilatatum</i>	P	20-35	7	21	Light; fresh seed potassium nitrate.	Slender— <i>Agropyron pauciflorum</i>	P, TB	20-30	5	14	Light.
Fescue:						VEGETABLES					
Hair— <i>Festuca capillata</i>	P	10-25	10	28	Potassium nitrate.	Artichoke— <i>Cynara scolymus</i>	T	20-30	7	21	
Meadow— <i>Festuca elatior</i>	P	20-30	5	14		Asparagus— <i>Asparagus officinalis</i>	T	20-30	7	21	
Other fescues.....	P	15-25	7	21		Beans:					
Flax— <i>Linum usitatissimum</i>	TB	20-30	3	7		Garden— <i>Phaseolus vulgaris</i>	R, S	20-30	5	8	Watch for "baldhead" and other injuries.
Guinea grass— <i>Panicum maximum</i>	P	20-30	10	28		Horse or broad— <i>Vicia faba</i>	S	20	4	10	
Hemp— <i>Cannabis sativa</i>	B	20-30	3	7		Lima— <i>Phaseolus lunatus</i>	R, S	20-30	5	9	Watch for "baldhead" and other injuries.
Kudzu— <i>Pueraria thunbergiana</i>	T	20-30	5	14		Beet, Swiss chard and mangel— <i>Beta vulgaris</i>	B	20-30	3	14	Soak in water 2 hours before testing. Wash in running water after soaking.
Lespedeza:						Brassica oleracea varieties: Cabbage, collards, kale, brussels sprouts, cauliflower, broccoli, and kohlrabi.	B	20-30	3	10	
Chinese— <i>Lespedeza sericea</i>	B, S	20-35	7	28		Carrot— <i>Daucus carota</i>	B	20-30	6	28	
Common— <i>Lespedeza striata</i>	B	20-35	7	14		Celery— <i>Apium graveolens</i> , var. <i>rapaceum</i>	P, TB	20-30	10	21	Light.
Korean— <i>Lespedeza stipulacea</i>	B	20-35	5	14		Celery— <i>Celeri graveolens</i> var. <i>dulce</i>	B, TB	20-30	10	21	Light
Lupine— <i>Lupinus alba</i>	B, T	20	3	7		Chicory— <i>Cichorium intybus</i>	P, TS	20-30	5	14	Light; potassium nitrate or soil.
Lupine— <i>Lupinus luteus</i>	B, T	20	7	21		Citron— <i>Citrullus vulgaris</i>	T	20-30	7	14	
Meadow foxtail— <i>Alopecurus pratensis</i>	P	20-30	7	14	Light.	Corn, sweet— <i>Zea mays</i>	R, S	20-30	4	7	
Medick, black— <i>Medicago lupulina</i>	B, S	20	3	7		Cornsalad— <i>Fetticus—Valerianella locusta</i> var. <i>olitoria</i>	B	20	7	28	Fresh seed 10° or 15° C.
						Cress:					
						Garden— <i>Lepidium sativum</i>	B	20	4	10	
						Water— <i>Roripa nasturtium-aquaticum</i>	P	20-30	4	14	Light.
						Cucumber— <i>Cucumis sativus</i>	T, S, B	20-30	3	7	
						Dandelion— <i>Leontodon taraxacum</i>	TB	20	7	21	
						Eggplant— <i>Solanum melongena</i> var. <i>esculentum</i>	TB	20-30	7	14	

¹ Substrata: B = between blotters; TB = top of blotters; T = paper toweling; R = rolled towel test; S = soil or sand; TS = top of soil; P = petri dishes with 2 thicknesses of blotters or 1 thickness of absorbent cotton or 5 thicknesses of paper toweling.

² "Prewet" method on cotton; shake seed in a closed container, thoroughly wetting the "fuzz" of the seed. Blot off all excess moisture and put in to germinate. If the prewet test is higher report both it and the standard germination.

Name of seed	Substrata	Temperature	First count	Final count	Remarks
Endive— <i>Cichorium endivia</i>	P, TS	°C. 20-30	Days 5	Days 14	Light; potassium nitrat or soil.
Leek— <i>Allium porrum</i>	B	20	6	14	Light for ½ hour; fresh seed prechill at 10° or 15° C. for 3 days.
Lettuce— <i>Lactuca sativa</i>	P	20	3	7	
Muskmelon— <i>Cucumis melo</i>	B, T, S	20-30	4	10	Light; fresh seed potassium nitrate and prechill at 10° C. for 3 days.
Mustard: Black— <i>Brassica nigra</i>	P	20-30	3	7	
India— <i>Brassica Juncea</i>	P	20-30	3	7	Light; fresh seed potassium nitrate and prechill at 10° C. for 3 days.
Spinach— <i>Brassica rapa perviridis</i>	B	20-30	3	7	Light
White— <i>Brassica hirta (alba)</i>	P	20-30	3	5	
Okra— <i>Hibiscus esculentum</i>	R	20-30	4	21	Light.
Onion— <i>Allium cepa</i>	B, S	20	5	14	
Pak-choi— <i>Brassica chinensis</i>	B	20-30	3	7	Light.
Parsley— <i>Petroselinum hortense</i>	B	20-30	11	28	
Parsnip— <i>Pastinaca saliva</i>	B	20-30	6	28	Light.
Peas, garden— <i>Pisum sativum</i>	R, S	20	5	8	
Pepper— <i>Capsicum spp.</i>	TB	20-30	6	14	Light.
Pe-tsai (Chinese cabbage)— <i>Brassica pekinensis</i>	B	20-30	3	7	
Pumpkin— <i>Cucurbita pepo</i>	T, S	20-30	4	7	Light.
Radish— <i>Raphanus sativus</i>	B	20	3	6	
Rhubarb— <i>Rheum rhabonticum</i>	TS	20-30	7	21	Light.
Rutabaga— <i>Brassica napobrassica</i>	B	20-30	3	14	
Salsify— <i>Tragopogon porrifolius</i>	T	20	5	10	Fresh seed prechill at 10° C. for 3 days.
Sorrel— <i>Rumex acetosa</i>	TS	20-30	3	14	Light.
Spinach: Common— <i>Spinacea oleracea</i>	TB	10	7	21	
New Zealand— <i>Tetragonia expansa</i>	TS	20-30	5	28	Not too wet.
Squash— <i>Cucurbita sp.</i>	T, S	20-30	4	7	
Tomato: Common— <i>Lycopersicon esculentum</i>	B	20-30	5	14	Light.
Husk— <i>Physalis pubescens</i>	P, TB	20-30	7	28	
Turnip— <i>Brassica rapa</i>	TB	20-30	3	7	
Watermelon— <i>Citrullus vulgaris</i>	T, S	20-30	4	14	

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State Seed Laws

Compiled by L. J. La Pine
Seed Analyst

January, 1944

Grouping of Agricultural Seeds for Noxious Weed Labelling

GROUP A

a. In excess of one seed in each 5 grams of timothy, redbud, tall meadow oat grass, orchard grass, crested dogstail, Canada bluegrass, Kentucky bluegrass, fescues, brome grasses, perennial and Italian rye grass, western rye grass, crimson clover, red clover, white clover, alsike clover, sweet clover, alfalfa, and all other grasses and clovers not otherwise classified.

b. In excess of one seed in each 25 grams of millets, rape, flax, Sudan grass and other seeds not specified in (a) or (c) of this section.

c. In excess of one seed in each 100 grams of wheat, oats, rye, barley, buckwheat, vetches, and other seeds as large or larger than wheat.

GROUP B

a. In excess of one seed or bulblet in each 5 grams of Agrostis spp., Poa spp., Rhodes grass, Bermuda grass, timothy, orchard grass, fescues (except meadow fescue), alsike and white clover, reed canary grass, Dallis grass, and other agricultural seeds of similar size and weight, or mixtures within this group;

b. In excess of one seed or bulblet in 10 grams of rye grass, meadow fescue, foxtail millet, alfalfa, red clover, sweet clovers, lespedezas, smooth brome grass, crimson clover, Brassica spp., flax, Agropyron spp., and other agricultural seeds of similar size and weight or mixtures within this group, or of this group with (a);

c. In excess of one seed or bulblet in each 25 grams of proso, Sudan grass

and other agricultural seeds of similar size and weight, or mixtures not specified in (a), (b), or (d);

d. In excess of one seed or bulblet in each 100 grams of wheat, oats, rye, barley, buckwheat, sorghums (except Sudan grass), vetches, and other agricultural seeds of a size and weight similar to, or greater than, those within this group, or any mixtures within this group.

Note—Where there is a clause concerning HYBRID SEED CORN in the law, the labeling requirements are given a special heading coordinate with other groups of seeds. Where it comes under a regulation which may be changed any time by the enforcement officer, the requirements will be found under ENFORCEMENT.

ALABAMA

Seed Law 1943—Rules and Regulations 1943

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Each Container of 2 pounds or more.

1. Common name of kind and variety.
2. Lot number or other lot identification.
3. Percentage of pure seed.
4. Percentage of inert matter.
5. Percentage of weed seeds. Prohibit 2½ percent, Dallis grass, carpet grass and common lespedeza 5 percent.
6. Percentage of other agricultural seeds.
7. Percentage of:
 - a. Germination, exclusive of hard seeds.
 - b. Hard seeds.Germination must not be below established minimum standards.
8. Month and year test was completed. Test for germination shall have been completed within a 5 month period.
9. Origin of seed.
10. Name and address of person who labels seed or who sells, offers or exposes seed for sale.
11. Name and number per pound of noxious weed seeds.
12. Net weight.

(B) Mixtures of Agricultural Seed. Every container of 2 pounds or more.

1. Same as for unmixed agricultural seeds except it must be called "MIXED" or "MIXTURE," and the information required under items (A) 1, 3, and 7 shall be given for each component present in excess of 5 percent, in the order of its predominance.

(C) Vegetable Seeds. In containers 1 pound or less. Beans, peas, edible soybeans, cowpeas and corn in containers of less than 2 pounds.

1. Name of kind and variety.
2. For seed which germinates less than the standard last established by the Alabama Board of Agriculture and Industry. (See page 102 for standards)
 - a. Percentage of germination exclusive of hard seeds.
 - b. Percentage of hard seeds.
 - c. Month and year test was completed. Test for germination shall have been completed within a 5 month period.
 - d. Year for which seed was packed.

- e. Name and address of person responsible for the information given.

Vegetable seeds in container in excess of amounts given above.

1. Name of kind and variety.
2. Lot identification.
3. Percentage of germination and hard seeds.
4. Date of germination. Test for germination shall have been completed within a 5 month period.
5. Name and address of person responsible for the information.
6. Net weight.
If such seed contains weed seeds in excess of ½ of 1 percent; or inert matter in excess of 1 percent; or other crop seed in excess of 1 percent; or any noxious weed seeds, a complete analysis, as required for agricultural seeds, must be given.

(D) Hybrid Seed Corn. Each container of 2 pounds or more.

- Same as under agricultural seed, also:
1. Name and address of person who grew seed or is responsible for its distribution.
 2. Name or designation under which each lot of seed will be sold.

(E) Flower and Herb Seeds. Each package.

1. Name of kind and variety.
2. Year for which seed was packed for sale.
3. Name and address of person responsible for the information given.

NOXIOUS WEEDS.

Primary.

Bermuda grass—Cynodon dactylon.
Bindweed—Convolvulus arvensis.
Dodder—Cuscuta spp.
Horse nettle—Solanum carolinense.
Johnson grass—Sorghum halpense.
Nut grass or Coco grass—Cyperus rotundus.
Wild garlic—Allium vineale.
Wild onion—Allium canadense.

Secondary.

Bracted plantain—Plantago aristata.
Buckhorn—Plantago lanceolata.
Cheat or chess—Bromus secalinus.

Corn cockle—Agrostemma githago
Curled dock—Rumex crispus.
Darnel—Lolium temulentum.
Sheep sorrel—Rumex acetosella.

PROHIBITS THE SALE OR OFFERING FOR SALE OF:

1. Agricultural and vegetable seed unless the test for germination shall have been completed within a 5 month period exclusive of the month in which the test was completed.
2. Agricultural and vegetable seed containing in excess of 200 primary or 500 secondary noxious weed seeds per pound or 600 primary and secondary noxious weed seeds per pound.
3. Agricultural and vegetable seed containing weed seeds in excess of 2½ percent, Dallis grass, carpet grass and common lespedeza 5 percent.
4. Agricultural seed having a total percentage of germination and hard seed of less than 60 percent, except Dallis grass, Johnson grass and seed released by the United States customs.
5. Oats and sorghum seed not complying with the regulations controlling the sale and distribution of the same.

SEED LABORATORY

Federal—State seed laboratory.
L. N. Allen, Associate Seed Technologist, U. S. Department of Agriculture.
O. L. Justice, Chief seed analyst State of Alabama.

Alabama farmers may submit to the state seed laboratory seed samples to be analyzed free of charge, provided that not more than \$5.00 worth of free service will be done for any one individual within a period of one month. Services for farmers in excess of \$5.00 and for seed dealers will be charged at the following rates:

For purity and germination:

- Group 1. Corn, barley, wheat, blue lupine, velvet beans, soybeans, cowpeas (except mixed), Austrian peas and shelled peanuts\$1.00
- Group 2. Crotalaria, cotton, mixed cowpeas, soybeans, oats, rye, sorghum, vetches, turnips and unshelled peanuts\$1.50
- Group 3. Crimson clover, lespedeza, ryegrass, millet and sudan grass.\$2.00
- Group 4. Bermuda grass, alsike, white, Persian and hop clovers.\$2.50

Group 5. Dallis, carpet, Kentucky blue, red top, and orchard grasses....	\$3.00
For Germination tests only:	
Vegetable seed—small seeded kinds....	\$0.50
Vegetable seed—large seeded kinds....	.75
Groups 1, 2, 3 or 4.....	.75
Unhulled peanuts.....	1.00
Group 5.....	1.25
Noxious weed seed examination, per sample	1.00
Varietal determination only, per sample..	.50

ENFORCEMENT

Department of Agriculture and Industries, 515 Dexter Ave., Montgomery. Notice of shipment of seed within or into the state of Alabama shall be sent by the person transporting seed or responsible for its transportation to the Commissioner of Agriculture and Industries within 24 hours of shipping date, giving:

1. Name of each kind of seed.
2. Amount of each kind of seed.
3. Name and address of the consignor and consignee.

"STOP SALE" order may be issued to the owner or custodian of any lot of agricultural, flower, herb or vegetable seed which is found to be in violation of any of the provisions of this Act, which shall prohibit further sale or use of such seed until the Commissioner of Agriculture or his agent has evidence that the law has been complied with. The owner or custodian of any lot of seed which has been denied sale, shall have the right to appeal from such order to a Court of competent jurisdiction where the seeds are found, praying for a judgment as to the justification of said order, and for the discharge of such seed from the order prohibiting its sale.

SPECIAL FEATURES

All information required on analysis tag shall be placed on one side of the label without intervening matter.

A complete analysis totaling 100% must be given. Blank spaces on a form tag or incomplete analysis are not permissible.

Abbreviation of names of the variety and kind of seed is not permissible.

Place of origin shall not be used as part of varietal name and kind of seed.

Modifying words or phrases shall not be used in connection with the variety, as "type," "for forage purposes," etc.

Brand names, designs, grades or pictures indicating a contradiction to any part of the analysis shall not be permitted.

Standard Weights—Seed when packed for sale shall be in bags of standard weights and sizes as follows:

- Ryegrass, Vetches, mixtures of Vetches or Peas, Austrian Peas, Cotton Seed and Crotalaria—100 lbs. net.
- Barley 96 and 120 pounds net.
- Lespedeza—100 and 125 pounds net.
- Crimson Clover, Cane and Sudan Grass—100 and 150 lbs. net.
- Soybeans and Wheat—120 to 150 pounds net.
- Rye—112 and 140 pounds net.
- Oats shall be 4 bushels of not less than 128 pounds.
- Seeds of crops not listed above shall be packed in bags of 100 pounds or multiples of one-half bushel weights, net.

(This regulation is abrogated for the duration)

Records of receipt, sale and delivery of all seed by any dealer shall be accessible for examination by authorized agent of the Department of Agriculture for a period of 3 years. Said records must be available to inspectors within 10 days after delivery of seeds.

Trucks or other motor conveyors transporting seed over the highways shall have available for examination a bill of lading, waybill, or delivery receipt showing (1) the name of the shipper or party from whom purchased; (2) the name and address of the party to whom seeds are to be delivered; (3) the kind and amount of each separate kind of seed, except that all vegetable seed can be grouped as "Garden Seed" and (4) the name of the truck driver and truck line making the delivery.

Seeds treated with fungicides, shall show on the label the words "Poison Treated" in not less than 3/4 inch face red type, and shall not be sold for human or animal consumption.

Oats consisting of mixed varieties, and oats containing a total of 5% or more of other oat varieties shall not be sold or offered for sale as seed oats.

Minimum germination. Any agricultural seed having a total percentage of germination and hard seed of less than 60%, except Dallis grass, Johnson grass, and seed released by the United States Customs, cannot be sold or offered for sale.

Mixed Sorghums. Sorghums sold, offered or exposed, for sale in Alabama shall show a varietal purity of not less than 95% of the variety claimed. The label or analysis tag shall also show whether the seed is an early, medium or late maturing variety.

Tags. Only the analysis tag, a certification tag and a tag showing the seed had been treated with a poison, will be permitted on a seed container. All tags must be attached at the same point and if practical, by the same fastener.

"Certified," "Pedigreed," "Registered" Seed. Before seed can be sold as such, the person responsible for the information on the analysis tag must register with the Alabama Department of Agriculture giving:

1. Lot number.
2. Variety.
3. Kind of seed.
4. Copy of the certification report, showing trueness of variety.

"Hybrid seed corn." The first generation seed of a cross produced by controlling the pollination, and by combining two, three or four inbred lines, or by combining one inbred line or a single cross with an open-pollinated variety. Non-warranty clause. The usual non-warranty clause on analysis tags will be permitted until May 31, 1944. After this date, seed found bearing a non-warranty clause will be suspended from sale.

ARIZONA

Seed Law 1941—Rules and Regulations Nov. 26th 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINERS

(A) Agricultural Seeds (Unmixed). Every lot.

1. Name of—
 - (a) Kind or,
 - (b) Kind and variety, if unknown so state.
2. Lot number or other lot identification.
3. Percentage of purity.
4. Percentage of inert matter.
5. Percentage of weed seeds.
6. Percentage of other agricultural seed.
7. Percentage of—
 - (a) Germination, exclusive of hard seed.
 - (b) Hard seed.
 - (c) Month and year test was completed. The test shall have been completed within a nine month period exclusive of the month in which the test was completed.

Following (a) and (b) statement of "Total Germination and Hard Seed" may be given if desired.

8. Origin of alfalfa, red clover and field corn (except hybrid). If origin is unknown it must be so stated.
9. Name and address of dealer who labeled the seed, or who sells, offers or exposes said seed for sale.
10. Name and number of secondary noxious weed seeds per ounce in groups B1 and B2 and per pound in B3 and B4 when present singly or collectively in excess of
 - (a) a 1 seed in 5 grams (see page 106, group B).
 - b. 1 seed in 10 grams.
 - c. 1 seed in 25 grams.
 - d. 1 seed in 100 grams.
- (b) Name and number per ounce of Bermuda grass (*Cynodon dactylon*) and Sour clover (*Melilotus indica*) when present in seeds of grassed or small seeded legumes.
11. Statement that no primary noxious weed seeds are present in the lot, subject to tolerances.
12. Year in which seed was grown.

(B) Mixed Agricultural Seeds. Every lot.

Same as unmixed agricultural seed except it shall be called "Mixed" or a "Mixture" and the information required under (A) 1, 3 and 7 shall be given for each kind of agricultural seed present in excess of 5% in the order of its predominance.

(C) Vegetable Seeds. Every lot of less than one pound.

1. Name of kind and variety.
2. Seed which germinates less than the standard last established by the state entomologist. (See page 102 for standards.)
 - (a) Percentage of germination exclusive of hard seed.
 - (b) Percentage of hard seed.
 - (c) Month and year test was completed. The test shall have been completed within a nine month period exclusive of the month in which the test was completed.
 - (d) The words "BELOW STANDARD" in not less than 8 point type.
3. Name and address of dealer who labeled seed, or who sells, offers or exposes said seed for sale.

PROHIBITS FROM SALE

1. Unless the test for germination shall have been completed within a nine month period exclusive of the month in which the test was made.
2. If containing primary noxious weed seeds, subject to tolerances.

NOXIOUS WEEDS

PRIMARY NOXIOUS WEEDS, prohibited if present subject to tolerances.

Nut grass—*Cyperus rotundus*, *C. esculentus*; Bindweed—*Convolvulus arvensis*; Russian knapweed—*Centaurea repens*; Canada thistle—*Cirsium arvense*; Leafy spurge—*Euphorbia esula*; Hoary cress—*Lepidium draba*, *L. repens*, *Hymenophyllum pubescens*; Horsenettle—*Solanum elaeagnifolium*, *S. carolinense*; Perennial sow thistle—*Sonchus arvensis*; Camels thorn—*Alhagi camelorum*; Johnson grass—*Sorghum halepense* (when it occurs in sudan grass and small seeded legumes).

SECONDARY NOXIOUS WEEDS

Wild oats—*Avena fatua*; Wild mustard—*Brassica arvensis*, *B. nigrum*, *B. juncea*; Tansy mustards—*Sisymbrium irio*, *S. sophia*, *S. altissimum*; Dadders—*Cuscuta* spp.; Ragweeds—*Franseria tenuifolia*, *F. discolor*, *Ambrosia psilostachya*; Poverty weed—*Iva axillaris*; Alkali mallow—*Sida hederacea*; Blue sunflower—*Helianthus ciliaris*; Squirrel tail grass—*Hordeum jubatum*; Wild barley—*Hordeum murinum*; Buckhorn plantain—*Plantago lanceolata*; Russian thistle—*Salsola kali* var. *tenuifolia*; Bur grass—*Cenchrus pauciflorus*; Puncture vine—*Tribulus terrestris*; Whorled milkweed—*Asclepias galioides*; Johnson grass—*Sorghum halepense* (except as specified under Primary noxious weeds).

"STOP SALE" ORDER. The state entomologist shall have the power to issue and enforce a stop sale order to the owner or custodian of any agricultural or vegetable seed which is in violation of any provisions of this act, which order shall prohibit the further sale of the seed until proof is furnished that the law has been complied with. Before such order is issued or attached the owner or custodian shall be given an opportunity to comply with the law or to withdraw the seed from sale. The owner or custodian of seed that has been denied sale under a stop sale order shall have the right to appeal from the order to the Superior court of the county in which the seed is found.

SEIZURE. Any lot of agricultural or vegetable seed not in compliance with the provisions of this act shall be subject to seizure upon the complaint of the state entomologist to the Superior court of the county in which the seed is located. If the court finds that the seed does not comply with the law it shall order the condemnation thereof, and the seed shall be denatured, processed, destroyed, relabeled, or otherwise disposed of as ordered by the court. Upon application of the owner or custodian of the seed, the court shall have power to permit the applicant to process or relabel the seed to bring it into conformity with the act.

Sugar beet seed exempt from the various provisions requiring the percentage of germination.

LICENSE. Any dealer who sells, distributes, processes or mixes for the use of another, any agricultural or vegetable seed shall obtain a license, at a cost of fifty cents (50c) from the state entomologist. A dealer shall not be entitled to a license unless he has an established plant, warehouse or place of business. The license shall be renewed annually not later than July 1st, and the application for renewal shall be accompanied by a fee of fifty cents (50c). This provision shall not apply to a farmer growing or marketing his own seed, or to any individual who harvests the producer's crop and receives part of the crop as payment for services rendered in harvesting.

SEED LABORATORY

Agronomy Dept., University of Arizona, Tucson, Ian A. Briggs, Associate Agronomist.

FEEES FOR TESTING

Not more than 5 samples shall be tested free of charge in any calendar year, nor more than 1 in any calendar month for an individual. Samples in excess of this number shall be tested upon payment of a minimum fee of seventy-five cents (75c) for either purity or germination and \$1.50 for both. Fees shall be proportionately higher when more than the usual amount of time is required.

ARKANSAS

Act of 1921 As Amended 1939 - Rules 67 and 68 - Regulations Form 101 and 102

Revised 1943

INFORMATION REQUIRED FOR:

(A) Agricultural Seed. Each Bag.

Use Arkansas permit tags.

- Kind of seed.
- Lot number.
- Percentage of pure seed.
- Percentage of inert matter.
- Percentage of weed seeds.
- Percentage of other agricultural seeds.
- Percentage of:
 - Germination exclusive of hard seed.
 - Hard seed.
- Month and year of test. Test shall have been completed within a six-month period.
- Origin of seed, if unknown, so state.
- Name and address of seedsman or vendor.
- Name and number of noxious weed seeds per pound—if none are present, a statement to that effect must be given.

(B) Mixtures of Agricultural Seeds. Each Bag.

Use Arkansas permit tags.

Mixtures of 2 or more kinds—percentage of purity of the predominant kind may be given and the other kinds be considered as impurities, or the percentage of the various kinds present may be shown with the germination of each (exclusive of hard seeds) and the percentage of hard seeds, if present, or if the germination (including hard seeds) of none of said seeds is below 85%, then only the germination of the mixture taken as a whole need be shown.

(C) Vegetable Seeds.

The State Plant Board is authorized to sample and test vegetable seeds and to publish the results should the seed be found adulterated, misbranded or of poor quality.

(D) Hybrid Seed Corn. Each Container.

Use Arkansas permit tags.

Same as for (A) Agricultural seed in addition:

- Breeder must be officially recognized as such, in his respective state.
- Strain shall have been tested at the Arkansas Experiment Station or some other acceptable tests in the state and found adapted to Arkansas conditions, except on special request of the grower (purchaser) permission will be granted on strains regardless of adaptation.
- Breeder's permit tag shall be attached to each bag.

Hybrid corn defined as:

- FOUNDATION CROSS—first generation of a cross between two INBRED LINES.

- TOP CROSS—first generation of a cross between an INBRED LINE and an OPEN POLLINATED variety.
- MULTIPLE CROSS—first generation of a cross between a SINGLE CROSS and an OPEN POLLINATED variety.
- SINGLE CROSS—first generation of a cross between two INBRED LINES.
- THREE-WAY CROSS—first generation of a cross between a FOUNDATION HYBRID and an INBRED LINE.
- DOUBLE CROSS—first generation between two FOUNDATION HYBRIDS.

No tests will ordinarily be made for non-residents.
Uncleaned samples will not be tested, except for germination.

ENFORCEMENT

Enforcement under State Plant Board, War Memorial Building, Little Rock, Arkansas.
Paul H. Millar, Chief Inspector.

Permit tags required on each bag of field seeds may be secured from the State Plant Board, War Memorial Building, Little Rock, Arkansas; tags 2 cents each; good until July 1 of following year; expired tags exchanged at ¼ cent each.

Special Permit Tags bearing the words "Excessive Noxious Weeds" in large type, secured from the Plant Board and shall be used in lieu of the permit tag where required.
Annual application of \$1.00 required except from those who use less than 20 permit tags and growers of Arkansas certified seed. Permit tags may be cancelled for failure to comply with the regulations.

ADDITIONAL FEATURES

Cotton seed. To sell cotton seed in Arkansas must file with the application for permit, a satisfactory certificate of freedom from communicable diseases signed by state quarantine officer of state in which seed was grown.

Vetch seed must have attached to each bag, in addition to analysis and permit tag, a state or federal certificate, attached by official seal, to seal the mouth of the bag, showing that the bag has been satisfactorily fumigated or that the seed was grown in a state or county free from vetch weevil.

Hybrid Corn. Permits to sell hybrid corn will be granted:

- To breeder who has been officially recognized in his respective state.
- On strains which have been found adapted to Arkansas. Breeder's permit tag must be attached to each container.

Sorghum seed for syrup purposes and **Abruzzi rye** is prohibited unless permission has been obtained from the Plant Board based on proof of trueness to name.

Use of words "Certified" or "Registered" limited to seed certified or registered by the duly authorized officer of the state of origin.

If Soybeans and small grains are sold for other than planting purposes this must be indicated on the bag or tag.

Sorghum seed for syrup, cotton seed under a varietal name and **Abruzzi rye** cannot be sold unless permission has been obtained by the permit holder from the Plant Board.

NOXIOUS WEEDS

Primary Noxious Weeds:

Johnson grass—*Sorghum halpense*.
Bermuda grass—*Cynodon dactylon*.
Nut grass—*Cyperus rotundus*.
Wild onion or garlic—*Allium vineale* and *canadense*.
Sheep sorrel—*Rumex acetosella*.
Dodder—*Cuscuta* spp.
Field bindweed—*Convolvulus arvensis*.
Hedge bindweed—*Convolvulus sepium*.

Secondary Noxious Weeds:

Corn Cockle—*Agrostemma githago*.
Cheat or chess—*Bromus secalinus*.
Darnel—*Lolium temulentum*.
Curled dock—*Rumex crispus*.
Broad-leaf dock—*Rumex obtusifolius*.
Buckhorn—*Plantago lanceolata*.
Bracted plantain—*Plantago aristata*.
Morning glory—*Ipomoea* spp.
Red rice—*Oryza sativa* var.

PROHIBITS THE SALE OF AGRICULTURAL SEED:

- Containing:
 - Field bindweed, nut grass and wild onion or garlic.
 - 1 Johnson grass per pound.
 - 100 Dodder per pound.
 - 250 Cheat or chess or darnel per pound.
 - 2000 Noxious weeds per pound.
- Unless special permit tag is used, if seed contains:
 - 100 to 500 dodder per pound.
 - 2 to 25 Johnson grass per pound.

SEED LABORATORY

Agricultural Building, Fayetteville, Arkansas.
John E. Casey, Analyst.
Tests.—No charge for tests on samples submitted by residents.

CALIFORNIA

Agricultural Code 1943

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Each Container.

- Commonly accepted name of:
 - Kind or,
 - Kind and variety or,
 - Kind and type.
- Lot number or other lot identification.
- Percentage of pure seed.
- Percentage of inert matter.
- Percentage of weeds seeds.
- Percentage of other agricultural seeds.
- Percentage of:
 - Germination, exclusive of hard seeds.
 - Hard seeds.

Following (a) and (b) "Total germination and hard seed may be given."
- Date germination test was completed. Test for germination cannot be over 9 months old, seed in packages of one pound or less, 15 months.
- Name and address of person who labels or sells seed.
- Name of secondary noxious weed seeds and number per ounce of seeds in groups B a and b and per pound in groups B c and d when present singly or collectively in excess of:
 - 1 seed in each 5 grams (see page 102 group B).
 - 1 seed in each 10 grams.
 - 1 seed in each 25 grams.
 - 1 seed in each 100 grams.

(B) Mixtures of Agricultural Seeds. Each container.

- Same as for unmixed agricultural seed except it must be called "Mixed" or a "Mixture" and the information required under items A, 1, 3 and 7 shall be given for each component present in excess of 5%, in the order of its predominance.

(C) Vegetable Seeds. Each Container.

- Name of kind and variety.
- For seed which germinates less than the standard last established by the director.
 - Percentage of germination exclusive of hard seeds.
 - Percentage of hard seeds.
 - Date germination test was completed.
 - The words "Below Standard" in not less than 8 point type.
- Name and address of person who labeled seed, or who sells said seed.

NOXIOUS WEEDS

Primary Noxious Weeds. Prohibited.

Blueweed, Texas—*Helianthus ciliaris*.
Camel's thorn—*Alhagi camelorum*.
Canada thistle—*Cirsium arvense*.
Cress, Austrian field—*Roripa austriaca*.
Cress, hoary—*Cardaria draba*.
Cress, Perennial pepper—*Lepidium latifolium*.
Gaura, perennial—*Gaura villosa*.
Gaura, scarlet—*Gaura coccinea*.
Gaura, scented—*Gaura odorata*.
Gaura, Wavy leaved—*Gaura sinuata*.
Horsenettle, Carolina—*Solanum carolinense*.
Horsenettle, White—*Solanum elaeagnifolium*.
Knapweed, Russian—*Centaurea repens*.
Klamath weed—*Hypericum perforatum*.
Quackgrass—*Agropyron repens*.
Sowthistle, Creeping or Perennial—*Sonchus arvensis*.
Surge, Leafy—*Euphorbia esula*.
Whitetop, hairy—*Cardaria pubescens*.

Secondary Noxious Weeds.

(Each county has regulations on noxious weed seeds which should be checked before shipping seed.)

Bermuda grass—*Cynodon dactylon*.
Bindweed or Wild morning glory—*Convolvulus arvensis*.
Dodder, Clover—*Cuscuta epithymum*.
Dodder, Field—*Cuscuta pentagona*.

Dodder, Flax—*Cuscuta epilinum*.
Dodder, Large-seeded—*Cuscuta indecora*.
Dodder, Small-seeded—*Cuscuta planiflora*.
Johnson Grass—*Holcus halepensis*.
Mallow, White or Alkali—*Sida hederacea*.
Nutgrass, chufa—*Cyperus esculentus*.
Nutgrass, yellow—*Cyperus rotundus*.
Poverty weed—*Iva axillaris*.
Puncture vine—*Tribulus terrestris*.
Sandbur grass—*Cenchrus pauciflorus*.
Thistle, Russian—*Salsola kali*.
Thistle, Yellow star—*Centaurea solstitialis*.

PROHIBITS THE SALE OF AGRICULTURAL OR VEGETABLE SEEDS:

- Unless the germination test shall have been completed within a 9-month period exclusive of the month in which the test was completed. Seed in packages of one pound or less unless the germination test shall have been completed within a 15-month period.
- Containing primary noxious weed seeds.

LABORATORY AND TESTS.

Federal—State Seed Laboratory. State Office Building, Sacramento.
Mrs. Leatha B. Howard, Analyst, U. S. Dept. of Agriculture.

Free tests—Four free tests or one special mixture will be made during the calendar year for any firm or individual.

Charges:

(a) For purity tests.

- Alfalfa, cereals, clovers, cotton, cowpeas, fescues, field peas, flax, flower, lolium, millets, mixtures of only 2 kinds of seeds, mustards, phalaris, rape, rice, sorghum, soy beans, sugar beets, timothy, vegetable and vetches\$1.50
- Agropyrons, Bermuda grass, brome grass, crested dogs tail, meadow foxtail, sudan grass, sweet vernal, and tall meadow oat grass\$2.00

3. Bent grasses, Dallis grass, Ky. bluegrass, and other Poa spp., orchard grass redtop, and Rhodes grass\$3.00
 4. Special mixtures\$5.00
- (b) For Germination Tests.
1. All seeds listed under (1) above (except sugar beet) and (2) also Orchard grass, red top, and Rhodes grass.....\$.75
 2. Bent grasses, Dallis grass, Ky. bluegrass, and other Poa spp...\$1.50
 3. Sugar beet sprout test.....\$2.50
 4. Lawn and pasture mixtures of several types of seed made in conjunction with purity test...3.00
Official sampling by request. A charge of \$1.00, plus traveling expenses of inspector and regular charges for test or tests requested.
Any seed not listed will be charged fee in appropriate class above.

ENFORCEMENT

State Dept. of Agriculture, Bureau of Rodent and Weed Control and Seed Inspection, Walter S. Ball, Assistant Chief.

The enforcement is vested with the director, and with the commissioner of each county, acting under the supervision and direction of the director.

COUNTY REGULATIONS. Each county commissioner has issued regulations limiting the weed seeds permitted in seed entering or being transported within the county. Check these regulations before shipping seed.

"STOP SALE." The director or the commissioner may issue and enforce a written or printed "stop sale" order to the owner or custodian of any lot of agricultural or vegetable seed which he finds in violation of any provisions of the law, which prohibit further sale of such seed until such officer has evidence that the law has been complied with. The owner or custodian of such seed upon demand shall have the right to a hearing before the director or commissioner as to the justification of any such order, and may appeal to the director from any order of the commissioner made under the provisions of this act. Any decision of the director in accordance with this section is subject to review by any court of competent jurisdiction.

SEIZURE. Any lot of agricultural or vegetable seed not in compliance with the provisions of this article shall be subject to seizure on complaint of the director or the commissioner to a court of competent jurisdiction in the area

in which the seed is located. In the event the court finds the seed in violation of the act it may order the seed to be condemned and denatured, processed, destroyed, relabeled or released upon conditions as the court in its discretion may impose, to insure that the seed will be disposed of in compliance with the laws of this state. Anything brought into any county or locality

of the State found to be infested with the seed of any pest not of common occurrence in the county or locality, shall be returned within 48 hours after the owner or bailee has been notified by the director or commissioner, if such seeds can be destroyed by treatment the director or commissioner may order it done under his direction.

COLORADO Law 1943

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Each Container.

1. Commonly accepted name of:
 - a. Kind, or
 - b. Kind and variety, or
 - c. Kind and type.
2. Lot number or other lot identification.
3. Percentage of pure seed.
4. Percentage of inert matter.
5. Percentage of weed seeds. Prohibit if 3 percent.
6. Percentage of other agricultural seeds.
7. Percentage of:
 - a. Germination, exclusive of hard seeds.
 - b. Hard seeds.
 Following a. and b. Total Germination and Hard Seed may be given if desired.
8. Month and year of test. Test for germination shall have been completed within a 12-month period exclusive of the month in which the test was completed.
9. Origin of alfalfa, red clover, reed canary grass, sorghums, sudan grass and field corn (except hybrid). If origin is unknown, that fact shall be stated.
10. Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.
11. Name and approximate number per pound of each secondary noxious weed seed present, singly or collectively, in excess of:
 - a. 1 seed in each 10 grams. (See page 106 group A)
 - b. 1 seed in each 25 grams.
 - c. 1 seed in each 100 grams.

(B) Mixtures of Agricultural Seeds. Each Container.

Lawn seed mixture in 3 pound package or less, exempt from labeling requirements.

1. Same as for unmixed agricultural seeds except it must be called "MIXED" or a "MIXTURE," and the information required

(C) Vegetable Seeds. Each Container.

1. Name of kind and variety.
2. For seed which germinates less than the standard last established by the Colorado Agricultural Experiment Station. (See page 102 for standards)
 - a. Percentage of germination, exclusive of hard seed.
 - b. Percentage of hard seed.
 - c. Date germination test was completed. Test for germination shall have been completed within a 12-month period exclusive of the month in which test was completed.
 - d. The words "BELOW STANDARD" in 8 point type.
3. Name and address of person who labeled seed or who sells, offers or exposes for sale, barbers or distributes said seed.
4. All cantaloupe seed saved from "Cast-overs," from cull piles, or melons left in the field after shipping, shall be plainly marked "Cull Seed."

(D) Hybrid Seed Corn. Each Container.

Same as for agricultural seed.
"Hybrid Seed Corn" shall mean the first generation seed of a cross produced by controlling the pollination and by combining two, three or four inbred lines. Hybrid designations shall be treated as variety names.

NOXIOUS WEEDS.

Primary noxious weeds prohibited.

Bindweed (*Convolvulus arvensis*).
Canada thistle (*Cardus arvensis*).
Leafy spurge (*Euphorbia esula*).
White horse nettle (*Solanum elaeagnifolium*).
Russian knapweed (*Centaurea picris*).

"What's on the Tag ... Is in the Bag"



Since 1854 the name DICKINSON has stood for the highest purity . . . highest germination and yielding power in farm seeds . . . and it does today.

THE ALBERT DICKINSON COMPANY

Chicago 90, Ill.

Est. 1854

Dickinson's For Quality

Perennial sow thistle (*Sonchus arvensis*).
Poverty weed, silver leaf (*Franseria discolor*).
Whiteweed (*Lepidium draba*, *L. repens*, *Hymenophyllum pubescens*).

Secondary noxious weed seeds.

Austrian peaweed (*Swainsona salsula*).
Blue lettuce (*Lactuca pulchella*).
Buckhorn (*Plantago lanceolata*).
Dock, curled (*Rumex crispus*).
Dodders (*Cuscuta* spp.).
Fanweed (*Thlaspi arvense*).
Mustards (*Brassica* spp.).
Mouse-ear poverty weed (*Iva axillaris*).
Puncture vine (*Tribulus terrestris*).
Purple-flowered ground-cherry (*Quincula lobata*).
Quack grass (*Agropyron repens*).
Wild oats (*Avena fatua*).

PROHIBITS THE SALE, OFFERING OR EXPOSING FOR SALE OF:

Agricultural or Vegetable Seed.

- Unless the test for germination shall have been completed within a 12-month period.
- Unless seed which has been treated with a material poisonous to man or live stock is plainly marked.
- Containing primary noxious weed seeds. Vegetable seeds not subject to this provision.

- Containing more than 3 percent weed seeds.
- Screenings, unless it is stated on the label and invoice "Not Intended For Seeding Purposes."

SEED LABORATORY.

At Colorado Agricultural Experiment Station,
Fort Collins, Colorado.
Bruce J. Thornton, Assoc. Bot. in Charge.
Helen Kroeger, Analyst.

ENFORCEMENT.

Colorado Experiment Station,
Fort Collins, Colorado.

"STOP SALE" orders may be issued to the owner or custodian of any lot of Agricultural seed found in violation of the act, shall prohibit the further sale or movement of such seed until evidence has been submitted that the law has been complied with, provided that the owner or custodian of the seed shall have 15 days to bring the seed into compliance with the law or otherwise dispose of it to the satisfaction of the Experiment Station or agent, provided further, that in respect to seed which has been denied sale the owner or custodian of such seed shall have the right to appeal from such order to a

court of competent jurisdiction where the seeds are found, praying for a judgment as to the justification of said order and for the discharge of such seed from the order prohibiting its sale. SEIZURE. Any lot of seed sold, offered or exposed for sale, bartered or distributed in violation of the provisions of this act shall be subject to seizure on complaint of the Colorado Agricultural Experiment Station, or its agents, to a court of competent jurisdiction in the area in which the seed is located. If the court finds the seed to be in violation of the act and orders the condemnation of said seed, it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in a manner consistent with the quality of the seed, as ordered by the court; provided that such disposition of said seed cannot be ordered by the court without first having given the claimant an opportunity to apply to the court for the release of said seed, or permission to process or relabel it to bring it into compliance with the law.

SPECIAL FEATURES.

Sugar beet seed is exempt from the requirements of paragraphs 3, 4, 5, 6, 7, 8 and 9 of section (A), however this does not exempt the seed from the other requirements and provisions of the act.

CONNECTICUT

Act of 1937

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agricultural Seeds—Each lot.

- Name of seed.
- Percentage of purity.
- Percentage of weed seeds.
- Name and number per ounce of noxious weeds present singly or collectively in excess of:
 - 1 seed in each 5 grams.
(See page 106, group A.)
 - 1 seed in each 25 grams.
 - 1 seed in each 100 grams.
- Percentage of germination together with month and year of test.
- Full name and address of vendor.

(B) Mixtures of Agricultural seeds of not more than 2 kinds of seeds.

- That such seed is a mixture.
- Name and approximate percentage by weight of each kind of Agricultural seed present in excess of 5% of the total mixture.
- Percentage of weed seeds.
- Name and number per ounce of each nox-

ious weed present singly or collectively in excess of one seed in each 15 grams.

- Percentage of germination of each Agricultural seed present in excess of 5% of the total mixture, together with month and year tested.
- Full name and address of vendor.

(C) Special Mixtures.

- That such seed is a mixture.
- Name and percentage by weight of each kind of seed present in the mixture.
- Percentage by weight of weed seeds.
- Percentage by weight of inert matter.
- Name and number per ounce of each noxious weed, singly or collectively in excess of one seed in 15 grams.
- Full name and address of vendor.

(D) Vegetable seeds. Each separate container.

- The kind and variety of seed.
- Percentage of germination together with year tested.
- Name and address of packer or vendor.

NOXIOUS WEEDS

Quack grass—*Agropyron repens*; dodder—*Cuscuta* spp.; Canada thistle—*Cirsium arvense*; plantain—*Plantago* spp. (includes buckhorn); hawkweed—*Hieracium* spp.; curled dock—*Rumex crispus*; wild mustard—*Brassica arvensis* and other *Brassica* species.

SEED LABORATORY

Conn. Agricultural Experiment Station, New Haven.

E. M. Stoddard, Analyst in Charge.

Tests—Any citizen of Conn. may send for test a maximum of 5 germination tests or 1 purity test within a given calendar month. Samples for labeling purposes not accepted.

ENFORCEMENT

is under the Commissioner of Agriculture, Olcott F. King, State Office Building, Hartford. Francis H. Adams—Chief Inspector. Conn. Dept. of Agriculture has established 3 voluntary grades for lawn grass. The use of these grades is limited to Connecticut dealers, but is not obligatory on them.

DELAWARE

Law as Amended 1943

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Each container.

- Commonly accepted name of:
 - Kind, or
 - Kind and variety, or
 - Kind and type.
- Lot number or other lot identification.
- Percentage of purity.
- Percentage of inert matter.
- Percentage of weed seed. Prohibited if in excess of 3%.
- Percentage of other agricultural seed.
- Percentage of:
 - Germination, exclusive of hard seed.
 - Hard seed.
 Following a. and b. Total Germination and hard seed may be given if desired.
- Month and year of test. Test for germination shall have been completed within a 9-month period exclusive of the month in which test was completed.
- Origin of alfalfa, red clover and corn (except hybrid). If unknown, must be stated.
- Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.
- Name and number of secondary noxious weed seeds per ounce in groups Ba and b and per pound in Bc and d when present singly or collectively in excess of:
 - 1 in each 5 grams. (See page 106 group B)
 - 1 in each 10 grams.
 - 1 in each 25 grams.
 - 1 in each 100 grams.

(B) Mixtures of Agricultural Seeds. Each Container.

- Same as for unmixed agricultural seed except it must be called "Mixed" or a "Mix-

ture," and the information required under items (A)1, 3 and 7, shall be given for each component present in excess of 3% in the order of its predominance.

(C) Vegetable Seeds. Each Container.

- Name of kind and variety.
- For seed which germinates less than the standard last established by the State Board of Agriculture (see page 102 for standards) give:
 - Percentage of germination, exclusive of hard seed.
 - Percentage of hard seed.
 - Month and year of test. Test for germination shall have been completed within a 9-month period exclusive of the month in which the test was completed.
 - The words "BELOW STANDARD" in not less than 8 point type.
- Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.

NOXIOUS WEEDS.

Primary. Prohibited if in excess of 1 in 100 grams.

Quackgrass—*Agropyron repens*.
Thistle, Canada—*Cirsium arvense*.

Secondary.

Buckhorn—*Plantago lanceolata*.
Cockle—*Agrostemma githago*.
Dodder—*Cuscuta* spp.
Mustard, wild—*Brassica* spp.
Onion, wild—*Allium* spp.

PROHIBITS THE SALE, OFFERING OR EXPOSING FOR SALE OF:

(A) Agricultural or vegetable seed unless the test for germination shall have been completed within a 9-month period exclusive of the month in which the test was completed.

(B) Agricultural and vegetable seed containing more than 3% weed seeds.

(C) Agricultural seed containing Primary Noxious weed seeds singly or collectively in excess of 1 seed in 100 grams.

(D) Agricultural seed containing more than 500 dodder per pound, unless labeled with a red tag bearing the statement "Low Grade Seed."

SEED LABORATORY.

State Board of Agriculture, Dover.

John L. Clough, Analyst.

Tests. Seed tested free of charge for residents of Delaware.

ENFORCEMENT.

State Board of Agriculture, Dover.

"STOP SALE." "Stop Sale" order may be issued and enforced by the State Board of Agriculture or its agents on any lot of agricultural or vegetable seed found in violation of the seed act prohibiting further sale of such seed until said board has evidence that the law has been complied with: Provided, that no "Stop Sale" order shall be issued or attached to a lot of seed without first having given the owner or custodian an opportunity to comply with the law or remove said seed from sale: Provided further that the owner or custodian of such seed shall have the right to appeal from such order to a court of competent jurisdiction, praying for a judgment as to the justification of said order and the discharge of the seed from the order.

"SEIZURE." Any lot of agricultural or vegetable seed not in compliance with the law shall be

HEADQUARTERS

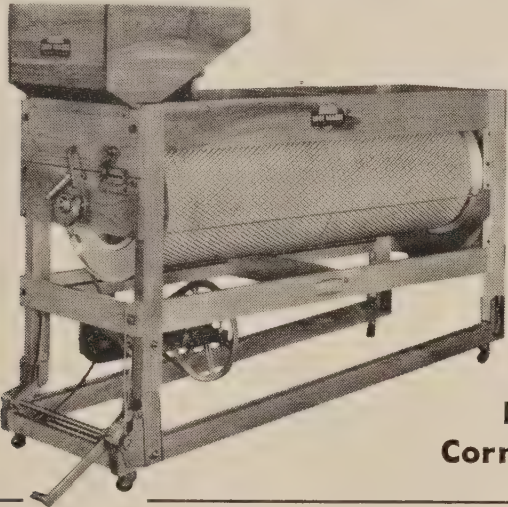
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Accurate Length Separations for Alsike,
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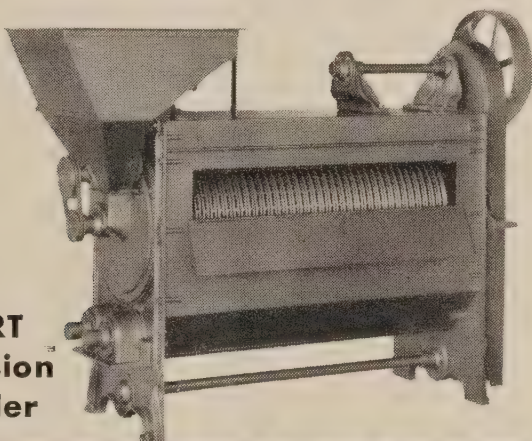
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Disc Separator**

Length Grading for Hybrid Seed Corn



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Corn Grader**

Thickness Grading for Hybrid Seed Corn



**HART
Precision
Grader**

* New equipment is limited. Use present equipment to the limit of its ability. If new equipment is a "must," investigate chances of a preference rating.

HART-CARTER COMPANY

684 19th Avenue N. E. Minneapolis, Minnesota



Registered—Certified

ALFALFA SEED

Stocks Available for Immediate Shipment—
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All of Our Seed Tested and Graded

BERMUDA GRASS SEED

High Purity and Germination

We are equipped with the latest type machines to hull Bermuda.
By using hulled seed, germination occurs within ten days.

Your inquiries and orders cordially invited.

The Yuma Co. Farmers Marketing Ass'n

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HEADQUARTERS

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WHITE DUTCH AND PERSIAN CLOVER SEED

Write for prices and samples



**Send Your Name and Address
To Receive Every Issue of Our**

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BELT SEED COMPANY
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BALTIMORE**

**Better Lawn Grasses
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*By Royal Command
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All Seed Tested and A-1 Quality

We Will Appreciate Your
Inquiries for Sample and Prices

Wholesale Only

Riemers' Farms
ELBERTA ALABAMA

subject to seizure on complaint of the State Board of Agriculture or its agents to a court of competent jurisdiction in the county in which the seed is located. If the court finds the seed to be in violation of the act and orders the condemnation of said seed, it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the law; Provided, that in no instance shall such disposition of said seed be ordered by the court without first having given the claimant an opportunity to apply to the court for the release of said seed or per-

mission to process or relabel it to bring it into compliance with the act.

SPECIAL FEATURES.

All seed sold at auction sales, sales stables, etc., must be labeled and comply with the law, regardless of its source.
Mr. E. K. C'hafee, seed analyst.
Fees—Purity tests, 50 cents; germination tests, 50 cents.

FLORIDA

Law of 1943 - Rules and Regulations of 1943

INFORMATION REQUIRED FOR:

(A) Agricultural Seed. Each container.

1. Commonly accepted name of kind and variety.
2. Lot number or other lot identification.
3. Percentage of purity.
4. Percentage of inert matter.
5. Percentage of weed seeds. Prohibit if in excess of 2½%. Carpet grass 5%.
6. Percentage of other agricultural seed.
7. Percentage of:
 - (a) Germination exclusive of hard seed.
 - (b) Hard seed.
8. Month and year of test. Test for germination shall have been completed within a 5 month period exclusive of the month in which test was completed.
9. Origin, if unknown, so state.
10. Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.
11. Name and number per pound of each kind of noxious weed seed.
12. Net weight of unbroken packages.

(B) Mixtures of Agricultural Seeds. Each container.

Same as for unmixed seed except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed component present in excess of 5%, in the order of its predominance.

(C) Vegetable Seeds. Each container of less than 100 pounds.

1. Name of kind and variety.
2. For seed which germinates less than the standard last established by the Commissioner of Agriculture. (See page 102 for standards)
 - (a) Percentage of germination, exclusive of hard seed.
 - (b) Percentage of hard seed.
 - (c) Month and year of test. The test shall have been completed within a 5 month period. (Packages of 8 ounces or less, 12 months.)
 - (d) The words "BELOW STANDARD" in not less than 8-point type. (Provided no seed shall be sold which falls more than 20% below the established standard.)
3. Name and address of the person who labeled seed, or who sells, offers, or exposes said seed for sale.
4. Net weight of unbroken packages, packages of 8 ounces or less exempt.

(D) Vegetable Seeds. Each container of 100 pounds or more.

1. Name of kind and variety.
2. Lot number or other lot identification.
3. Percentage of germination. Seed which falls more than 20% below the standard established by the Commissioner cannot be sold.
4. Month and year of test. Test for germination shall have been completed within a 5 month period exclusive of the month in which test was completed.
5. Net weight of unbroken packages.
6. Seed which germinates less than the standard last established by the Commissioner shall be marked with the words "BELOW STANDARD" in not less than 8 point type across the face of the analysis tag. If 20% below established standard seed cannot be sold.
7. Name and address of the person who labeled seed, or who sells, offers or exposes seed for sale.
8. Net weight of unbroken packages.

NOXIOUS WEEDS

Primary.

Bermuda grass—Cynodon dactylon.
Bindweed—Convolvulus arvensis.
Dodders—Cuscuta spp.
Johnson grass—Sorghum halpense.
Nut grass—Cyperus Rotundus.
Sheep sorrel—Rumex acetosella.
Wild garlic—Allium vineale.
Wild onion—Allium canadense.

Secondary.

Buckhorn—Plantago lanceolata.
Cheat or chess—Bromus secalinus.
Corn cockle—Agrostemma githago.
Darnel—Lodium temulentum.
Dock, broad leaf—Rumex obtusifolius.

PROHIBITS THE SALE, OFFERING OR EXPOSING FOR SALE OF:

1. Agricultural or vegetable seeds unless the test for germination shall have been completed within a 5 month period (vegetable seed in packets of 8 ounces or less, 12 months) exclusive of the month in which test was completed.
2. Agricultural and vegetable seed containing in excess of 200 PRIMARY or 500 SECONDARY noxious weed seeds per pound or a total of 500 noxious weed seeds per pound.
3. Agricultural and vegetable seed containing 2½% weed seeds. Carpet grass 5%.
4. Agricultural seed except grasses, unscarified legumes such as clovers, alfalfa, Alyce clover, crotalaria, chickpea, and kudzu, garden seed listed in The Standards for Germination, and seed released by the United States Customs, if the germination percentage is below 60%.
5. Vegetable seed which falls more than 20% below the standard last established by the Commissioner for such seed.
6. Oats consisting of mixed varieties.

SEED LABORATORY

State Seed Laboratory at Tallahassee.
Miss Mildred V. Henry, seed analyst.
Fees for tests for persons residing in Florida.

Purity on:

Clovers, lespedeza, beggarweed, and seed of similar size	\$0.50
Grasses similar to carpet, Dallis, red top and Bahia	\$1.00
Mixtures, such as lawn grass mixtures	\$2.00
Germination of any sample	\$0.25

Fees for tests for persons not residing in Florida:
The fees shall be the same as those charged by Commercial analysts. For example:

Oats	\$1.50
Rye, wheat, and similar grains	\$1.00
Grasses	\$3.00
Mixtures	\$3.00

ENFORCEMENT

Commissioner of Agriculture, Nathan Mayo.
Department of Agriculture, Tallahassee.
Supervising Inspector, Phil S. Taylor.

"STOP SALE."

"Stop Sale" notice or order may be issued and enforced by the Commissioner of Agriculture or his authorized agents to the owner or custodian of any lot of agricultural or vegetable seed which he finds or has good reason to believe is in violation of any of the provisions of this act which will prohibit further sale, barter or exchange of such seed until the Commissioner is satisfied the law has been complied with. After receiving confirmation that the seed does not comply with the act the owner or custodian shall have 15 days in which to comply with the law or withdraw the seed from sale.

SEIZURE.

Any seed on which a "Stop Sale" has been issued and on which the owner or custodian has failed to comply with the provisions of this act, shall be seized and held and shall be destroyed within 30 days or disposed of by the Commissioner as he shall by regulation prescribe.

REGISTRATION AND LICENSE FEES.

(A) Every person, before selling, offering or exposing for sale any agricultural or vegetable seeds, or mixtures thereof shall:

1. Register with the Commissioner as a seed dealer.
2. Give number and location of each place of business at which such seed is sold, offered or exposed for sale.
3. Pay the Commissioner
 - (a) \$1.00 if retailer, for each place of business.
 - (b) \$25.00 if wholesaler, for each place of business.
4. Such registrations shall be renewed July 1st of each year at the same fee. If the dealer does not register by August 31st he shall be assessed a penalty equal to the fee or fees required.

(B) When vegetable seeds are sold or consigned to or placed with any person for sale in packets or packages of 8 ounces or less, each box or container of not exceeding 72 dozen such packets or packages of vegetable seeds, or vegetable and flower seeds, shall have attached thereto an inspection fee stamp furnished and secured from the Commissioner, for which a fee of 50 cents shall be paid.

INSPECTION FEE.

Every dealer of agricultural or vegetable seed shall make a report every 3 months to the Commissioner on forms provided by the Commissioner, of all seed handled, and shall pay an inspection fee at the rate of 15 cents per each \$100.00 worth of seed purchased or handled for sale in Florida. He shall be exempt from the above fee to the extent of the amount of \$1,000 worth of agricultural or vegetable seed per year.

NOTICE OF SHIPMENT.

Notice of shipment shall be sent to the Department of Agriculture, of all seed shipments into Florida. Such notices shall be mailed within 24 hours of shipping date and shall bear:

1. Name and address of the shipper.
2. Name and address of party to whom shipped.
3. Amount.
4. Kind and variety of seed.
5. Lot number of shipper.

ADDITIONAL FEATURES

- (a) Uniform tag. The information required shall be placed on a No. 6 standard shipping tag, arranged as given in the rules and regulations.
- (b) All information required on the analysis tag shall be placed on one side of the tag without intervening matter, and no other information shall be placed on this side with the analysis. The analysis shall be complete and total 100%.
- (c) Abbreviation of the name of the variety and the kind of seed on the analysis tag is prohibited.
- (d) Modifying words or phrases shall not be used in connection with the variety (as for example "type," "for forage purposes," etc.), nor shall group names be used as variety names.
- (e) Seed dealers carrying a stock of feed grain and seed shall keep the same distinctly separated from the seed stocks.
- (f) Persons selling package vegetable and flower seeds shall keep all stamped boxes and containers in which seeds were received until an inspector has checked same against the invoice.
- (g) Records of receipt, sale and delivery of all seed by any dealer shall be kept readily accessible for examination by an authorized agent of the Department of Agriculture, and such records shall be on hand not later than 10 days after receipt of such seed, and be kept for a period of three years.
- (h) Trucks and other motor conveyances transporting seed for sale, or to be sold to con-

sumers on the public highways of Florida, shall have available for examination at any time a bill of lading, waybill, or a delivery receipt showing

1. Name of shipper or party from whom purchased.
 2. The name and address of the party to whom the seeds are to be delivered.
 3. The kind and amount of each kind and variety of seed.
 4. Name of the truck driver and truck line making delivery.
- (i) Seed treated with fungicides, or any substance likely to be poisonous to human beings or animals, shall show on the label the words "Poison Treated" in not less than 1/4 inch face red type, and it shall be unlawful to sell such seed for use or for processing either for human or animal consumption.
 - (j) New analysis tags or labels giving the new percentage of germination and date of test, shall be attached to each container, after the original test becomes 5 months old, vegetable seed in 8 ounce packages or less, 12 months.
 - (k) Worthless seed (seed which falls below the limits fixed by the Florida Seed Law and the regulations governing it) may not be given away or sold for planting purposes.
 - (l) Oats consisting of mixed varieties shall not be sold for planting purposes.
 - (m) Different varieties of the same kind of seed, when in quantities of less than 5%, will be considered as other crop seed.
 - (n) Brand names, designs, grades, or pictures indicating a condition or quality, other than that required on the analysis tag, or indicating contradictions to any part of the analysis, shall not be permitted.
 - (o) No agricultural seed, except grasses, unscarified legumes such as clovers, alfalfa, Alyce clover, crotalaria, chickpea, and kudzu, garden seed listed in The Standards for Germination, and seed released by the United States Customs shall be offered for sale if the germination percentage is below sixty.
 - (p) Tolerances shall be recognized between the percentages or rate of occurrence found by analysis, test, or examination, in the administration of the act as referred to in Section 201.59 of the Federal Seed Act.
 - (q) The use of the disclaimer or non-warranty clause in any invoice advertising, labeling written, printed or graphic matter pertaining to any seed shall not relieve or exempt any person from any liability, duty or responsibility imposed by the Florida seed law.

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SEED DISINFECTANTS

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Here's a line of products that can be a source of new business for you! There's a Du Pont SEMESAN seed disinfectant for every major crop—including NEW, SAFER, fast-selling non-metallic ARASAN. All are available now—and their fair margin assures you welcome profits. Push Du Pont SEMESAN seed treatment!

You'll help the farmer, the Nation and yourself! Remember, Food Fights for Victory!

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Ask for quotations, stating quantities wanted

Abruzzi Rye	Corn, field	Oats
Austrian Winter Peas	Cotton	Peanuts
Bahia Grass	Cowpeas	Popcorn
Beardless Barley	Crotalaria	Rape (Dwarf Essex)
Beggarweed	Crowder Peas	Redtop
Bene	Dallis Grass	Rice
Bermuda Grass	Egyptian Wheat	Ryegrass
Buckwheat	Hegari	Sesbania
Carpet Grass	Kudzu	Sorghums
Clover	Lespedeza	Soybeans
Alyce	Lupine	Sudan Grass
Crimson	Millet	Sunflower
White	(Cattail and Brown Top)	Velvet Beans
Chufas	Mung Beans	Vetch
		Wheat

Wholesale Field and Grass Seed

GEORGIA

Law 1941—Regulations 1943

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER.

(A) Agricultural seeds. Every lot of 5 pounds or more.

- (1) Commonly accepted name of:
 - a. Kind and variety, or
 - b. Kind and type.
- (2) Lot number or other lot identification.
- (3) Percentage of pure seed.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds. Prohibited if in excess of 2½%. Dallis grass and carpet grass 5%.
- (6) Percentage of other agricultural seeds.
- (7) Origin, if unknown it must be so stated.
- (8) Name and address of person who labeled the seed, or who sells, offers or exposes said seed for sale.
- (10) Name and number per pound of primary and secondary noxious weed seeds present singly or collectively in excess of:
 - (a) One in 5 grams (see p. 106, Group B)
 - (b) One in 10 grams.
 - (c) One in 25 grams.
 - (d) One in 100 grams.
- (11) Percentage of: (Regulation)
 - a. Germination
 - b. Hard seeds
 - c. Date of test. Test shall have been completed within a nine month period exclusive of the month in which the test was completed.

(B) Mixed Agricultural Seeds. Every lot of 5 pounds or more.

Same as for unmixed seeds, except it must be called "Mixed" or a "Mixture" and the information required under items (A) 1 and 3 shall be given for each agricultural seed present in excess of 5%, in the order of its predominance.

(C) Hybrid seed corn. Every lot of 5 pounds or more.

In addition to the information required under section (A) the following additional information shall be given:

- (1) Name and address of the party who grew the seed, or is responsible for the distribution.
- (2) Variety and kind of foundation seed stock used in its production.
- (3) Name or designation under which each lot will be sold.
- (4) Length of growing season in days, from germination to maturity.

(D) Vegetable seeds. Every lot of 5 pounds or more.

- (1) Name of kind and variety.
- (2) For seed which germinates less than the standard last established by the Commissioner of Agriculture. (See page 102 for standards.)
 - a. Percentage of germination, exclusive of hard seeds.
 - b. Percentage of hard seeds.
 - c. Month and year of test. Test shall have been completed within a nine month period exclusive of the month in which the test was completed.
 - d. Marked "BELOW STANDARD" in not less than 8-point type.
- (3) State where grown.
- (4) Name and address of person who labeled the seed, or who sells, offers or exposes said seed for sale.
- (5) Seed which falls more than 20% below standard cannot be sold.

(E) Certain Tree seeds. Every lot of 5 pounds or more.

(Long leaf pine—*Pinus palustris*; slash pine *P. caribaea*; loblolly pine—*P. taeda*; short leaf pine—*P. echinata*).

- (1) Technical generic and specific names in official use by the United States Department of Agriculture.
- (2) State and county of origin.
- (3) Date of collection—month and year.
- (4) Name of collector.
- (5) Percentage of purity of whole, normal seeds, with or without wings, of the species concerned, if based on seeds with wings attached it shall be so stated.
- (6) Percentage of other species if present.
- (7) Percentage of germination. Test shall have been completed within a nine month period, exclusive of the month in which it was completed.

NOXIOUS WEEDS.

Primary noxious weeds.

PROHIBITED SUBJECT TO TOLERANCES

Bindweed—*Convolvulus* spp.; Johnson grass—*Sorghum halepensis*; Wild onion or garlic—*Allium vineale*; nut grass—*Cyperus rotundus*; quack grass—*Agropyron repens*; Bermuda grass—*Cynodon dactylon*; Canada thistle—*Cirsium arvense*; dodder—*Cuscuta* spp.

Secondary noxious weeds.

Corn cockle—*Agrostemma*; githago; coffee weed—*Cassia tora*; darnel—*Lolium temulentum*; cheat or chess—*Bromus* spp.; sand spur—*Cenchrus pauciflorus*; rough pig weed—*Amaranthus retroflexus*; plantains—*Plantago* spp.; wild mustard—*Brassica* spp.; bitter weed—*Helenium tenuifolium*.

PROHIBITS THE SALE, OFFERING OR EXPOSING FOR SALE OF SEED:

- (1) Unless the test for germination shall have been completed within a nine month period, exclusive of the month in which it was completed.
- (2) Containing primary noxious weed seeds. Subject to tolerances.
- (3) That have been treated with poisonous materials unless the labels are marked with ¼ inch red letters "POISON TREATED."
- (4) Containing over 100 primary noxious weed seeds per pound.
- (5) Containing over 200 secondary noxious weed seeds per pound.

SEED LABORATORY

Department of Agriculture, Atlanta.
Ercelle Fuller, analyst in charge.

ENFORCEMENT

Department of Agriculture, Atlanta, Georgia.
Tom Linder, Commissioner of Agriculture.
C. Reynolds Clark, State Chemist.

"STOP SALE" orders shall be issued and enforced by the Commissioner of Agriculture to the owner or custodian of any lot of agricultural, vegetable or certain tree seeds which are in violation of any provisions of this act which shall prohibit the further sale of such seeds until that officer has evidence the law has been complied with. Any lot of seed, the sale of which has been prohibited as provided in this paragraph, the owner or custodian shall have the right to appeal from such order to a court of competent jurisdiction, where such seed are found, praying for a judgment as to the justification of said order, and for the discharge of such seed from the order in accordance with the findings of the court.

SEIZURE. Any lot of agricultural, vegetable or certain tree seeds not in compliance with the provisions of this act shall be subject to seizure on complaint of the Commissioner of Agriculture to a court of competent jurisdiction in the area in which the seed is located. If the court finds the seed to be in such violation of the act and orders its condemnation it shall be, denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state; Provided, in no instance shall such disposition be ordered by the court without first having given the claimant an opportunity to apply to the court for the release of said seed or permission to process or relabel it to bring it into compliance with the act.

ADDITIONAL FEATURES

FARMERS are exempt from complying with the provisions of this act unless they are selling their seed outside the county where grown, then each container must be tagged, giving:

- (1) Name of grower.
- (2) Name of kind and variety.
- (3) Calendar year harvested.
- (4) If containing undesirable or noxious weeds it must be so stated. If a dealer purchases seed from a farmer in his trade territory he may sell it, complying with the same provisions as required of the farmer.

SHIPMENTS

Every lot of seed covered by this act being shipped shall be accompanied by a bill of lading or other evidence giving:

- (1) Name and address of consignor and consignee.
- (2) Class and amount of each being transported.

HYBRID SEED CORN—the term means the first generation seed of a cross produced by controlling the pollination, and by combining two, three, or four inbred lines, or

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UNDER IRRIGATION IN
HIGH MOUNTAIN VALLEYS



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SHIPPERS AND GROWERS

- ALFALFA
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- SWEET CORN
- FIELD CORN
- ONION SEED
- LETTUCE SEED
- LADINO WHITE CLOVER

EDGAR L. OAKES
& CO.

CALDWELL IDAHO

by combining one inbred line or a single cross with an open pollinated variety. Hybrid designations shall be treated as variety names.

STANDARDS OF LESPEDEZA. All tags and invoices marked to show the quality.

- FIRST QUALITY.** Purity minimum 98%, germination not less than 85% including hard seeds, containing not more

than 100 PRIMARY or 200 SECONDARY noxious weed seeds per pound.

- SECOND QUALITY.** Purity minimum 95%, germination not less than 75% including hard seeds, containing not more than 200 PRIMARY or 400 SECONDARY NOXIOUS weed seeds per pound. Mark "LOW QUALITY" in 12 point type.

IDAHO

Law of 1931, Amended 1943

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER.

A) Agricultural Seeds. Every Lot.

- Name of seed.
- Percentage of pure seed.
- Name of noxious weeds present.
- Germination of non-leguminous plants, together with the date of test.
- Year grown.
- Where grown.
- Name and address of vendor.

B) Mixtures. Every Lot.

- That such seed is a mixture.
- Name of each kind present in proportions of 5% or more.
- Name and number of noxious weeds.
- Percentage of inert matter.
- Percentage of germination of non-leguminous plants together with date of test.

(C) Vegetable Seed.

Classed as agricultural seeds; label as under (A) above.

(D) Flower Seeds.

Classed as agricultural seeds; label as under (A) above.

NOXIOUS WEEDS

Prohibit any: Quack grass—*Agropyron repens*; Canada thistle—*Carduus arvensis*; buckhorn plantain—*Plantago lanceolata*; per-

ennial sow thistle—*Sonchus arvensis*; hoary cress—*Lepidium draba*, *Lepidium repens*, *Hymenophyllum pubescens*; wild morning-glory—*Convolvulus arvensis* and *Convolvulus sepium*; spurge—*Euphorbia corollata*, *Euphorbia esula*, *Euphorbia cyparissias*; yellow toad flax—*Linaria vulgaris*; perennial ground cherry—*Physalis subglabrata*; Russian knapweed—*Centaurea picris*.

Prohibited in greater proportion than one seed of any or all to 10,000 seeds of the agricultural seed being offered for sale.

Wild mustard—*Brassica spp.*; wild oats—*Avena fatua*; dodder—*Cuscuta spp.*; corn cockle—*Agrostemma githago*; puncture vine—*Tribulus terrestris*; frenchweed—*Thlaspi arvense*.

SEED LABORATORY AND TESTS

Seed Laboratory, College of Agriculture, Boise, Idaho.

Mr. E. K. Chaffee, Seed Analyst.

Fees—Purity tests, 50 cents; Germination tests, 50 cents.

ENFORCEMENT

H. L. Spence, Jr., State Seed Commissioner
Agronomy Extension Service, University of Idaho,
Boise, Idaho.

SCREENINGS

All screenings, removed during the process of cleaning field, flower or garden seed containing any seeds of noxious weeds shall be destroyed or devitalized before leaving the place where cleaning occurred.

GOODING

IDAHO

All Varieties

Idaho

Clovers

and

Alfalfas

Inquiries Solicited

The Gooding Seed Co.

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Blue Grass Clovers
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Fancy Grasses
Lawn Mixtures

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K Brand Seeds

Wholesale
Dealers

- Red Clover
- Mammoth Clover
- Timothy
- Alsike
- Alfalfa
- Sweet Clover
- Lespedeza

Regulations (November 1, 1942)

Regulation I

Seed in storage, in bins or other containers in salesroom, storeroom or warehouse, unless otherwise labeled, shall be considered offered or exposed for sale for seeding purposes in Illinois and shall be subject to the provisions of the seed law.

Regulation II

Agricultural seeds for seeding purposes stored in bulk or bins or tanks shall be labeled by attaching a tag or label to the bin at the entrance. Each portion of seeds sold from this bulk for seeding purposes shall be accompanied by an exact copy of the label attached to the container of the bulk lot.

Regulation V

When the number of mottled seed in sweet clover seed is in excess of 1.3%, the seed shall not be considered white blossom sweet clover and shall be labeled as sweet clover or a mixture of White Blossom and Yellow Blossom Sweet Clover and the percentage of each given.

Regulation VI

Hybrid Corn. Definition: "Hybrid Seed Corn is the seed of corn resulting from the first cross fertilization involving inbred lines of corn and/or their combinations, the inbred lines having been self-fertilized until they are reasonably pure."

To sell seed of corn labeled "Hybrid Corn" without giving proper and indisputable evidence that it complies with the above definition shall constitute a violation of the Illinois Seed Law.

Regulation VII

Certified and Registered Seed. Such seed must have been produced and labeled in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed-certifying agency. The Illinois Crop Improvement Association is recognized as the certifying agency in Illinois.

Regulation VIII

Recleaned Seed. Agricultural seed shall be considered recleaned if the total inert matter and weed seeds shall not exceed 20% of the sample in the case of Bluegrasses; 15% in case of Red Top, Bent Grasses, Orchard Grass and Brome Grass; and 3% in all other agricultural seeds.

Regulation XI

Inasmuch as the sale of agricultural seeds (vegetable seeds exempt) containing any of the primary noxious weed seeds in greater number than 1 to 50 grams in the seeds of groups Ba and Bb, 1 to 150 grams in the seeds of group Bc, and 1 to the pound in the seeds of group Bd (page 106), is prohibited, the presence of any of these weed seeds, if present in smaller amounts than specified above, shall be shown on the tag or label.

Section 40 of the Criminal Code of the Illinois statutes prohibits the bringing into this state, seeds of Canada Thistle, Perennial Sow Thistle, European Bindweed, Russian Knapweed and Leafy Spurge.

INDIANA

Law 1941 and Amendments and
Rulings to January 1, 1939

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) Agricultural Seeds. Use Indiana Tags A or B. Every lot of one pound or more.

1. Commonly accepted name of kind and variety. When not known so state by using word "unknown."
2. Percentage of pure seed.
3. Percentage of inert matter.
4. Percentage of weed seeds. Prohibit if in excess of 3%.
5. Percentage of other agricultural seeds.
6. Percentage of:
 - a. Germination.
 - b. Hard seed.
 - c. Month and year of test.
7. Locality where grown. If unknown it must be so stated by using the word "unknown."
8. Name and address of person or firm who labeled seed, or who sells, offers or exposes seed for sale.

Purcell Seed Co. Inc.

EVANSVILLE, IND.

SPECIALTIES:

FANCY RED TOP

UNHULLED RED TOP

SOY BEANS

COW PEAS

and a General Field Seed Line

CARLOTS OR LESS

FIELD SEEDS



A QUALITY
that deserves your
Consideration

★ **FAIR PRICE
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SEED COMPANY
CRAWFORDSVILLE, IND.**

FARM SEEDS

Wholesale Only



We specialize in Open Pollinated Seed Corn for Ensilage, furnishing growers declaration as to variety, no admixture of Hybrid and origin. Iowa, Nebraska and Missouri grown.

Also, some of the best Numbers Hybrid Field Corn.

Harvesters of

Western Kentucky Blue Grass.

Our prices and quality are always right.

Write, Wire or Phone for samples and Prices



NISHNA VALLEY SEED CO.
SHENANDOAH—IOWA

HIGH QUALITY

Field Seeds



**BIG
CHIEF
BRAND**



*In the Heart
of the Belt*
**GROWING
TIMOTHY, CLOVERS**

**NORTHWESTERN
SEED CO.
INC.**

KEOKUK,

IOWA

9. Name and number of secondary noxious weeds per pound. If present in excess of 1/2 of 1 percent seed is prohibited from sale.

(B) **Mixtures. Use Indiana Tag C. Every lot of one pound or more.**

Same as for unmixed agricultural seeds except that it must be called a "Mixture" and the information required under items (A) 1, 2 and 6 shall be given for each agricultural seed present in excess of 5%. The locality where grown is not required.

(C) **Vegetable Seed. Use Indiana Tag B. Every lot of one pound or more.**

All garden and truck crops included under agricultural seeds. See (A) above. Label as above under (A).

NOXIOUS WEEDS

Primary Noxious Weeds

PROHIBITS SEED CONTAINING ANY SUBJECT TO TOLERANCES.

Canada thistle (*Cirsium arvense*).
Field bindweed (*Convolvulus arvensis*).
Johnson grass (*Sorghum halepense*).
Perennial sow thistle (*Sonchus arvensis*).
Quack grass (*Agropyron repens*).
Wild garlic (*Allium vineale*).

Secondary Noxious Weeds

PROHIBITED IF PRESENT IN EXCESS OF 1/2 OF ONE PERCENT.

Bitter wintercress (*Campe barbarea*).
Bracted plantain (*Plantago aristata*).
Buckhorn (*Plantago lanceolata*).
Common plantain (*Plantago major* and *rugelii*).
Corn cockle (*Agrostemma githago*).
Curled dock (*Rumex crispus*).
Dodder (*Cuscuta* spp.).
Field peppergrass (*Lepidium campestre*).
Horsenettle (*Solanum carolinense*).
Mustard (*Brassica arvensis*).
Oxeye daisy (*Chrysanthemum leucanthemum*).
Red sorrel (*Rumex acetosella*).
Wild carrot (*Daucus carota*).

Prohibits the Sale, Offering or exposing for Sale of:

- (1) Agricultural or vegetable seed containing Primary Noxious Weeds subject to tolerances.
- (2) Agricultural or vegetable seed containing more than 1/2 of one percent of Secondary Noxious Weeds.
- (3) Agricultural or vegetable seeds containing more than 3% of weeds.

LABORATORY AND TESTS

Seed Laboratory at Lafayette is under the State Chemist and Seed Commissioner, cooperating with the U. S. Department of Agriculture. E. R. Clark, Associate Seed Technologist, U. S. Department of Agriculture. Miss Regina Schulte, Analyst, U. S. Department of Agriculture.

Number of free tests for any one firm or person limited to two samples during any one month. Out of state seedsmen who merchandise seed through Indiana dealers may have samples tested during the months of July, August, September and October.

ENFORCEMENT AND REGULATIONS

Dr. Forrest W. Quackenbush, State Chemist and Seed Commissioner.

All agricultural seed shipped or delivered in the State of Indiana, must have attached to each bag of one pound or more an Indiana State Label properly filled out.

Tags are purchased from the Seed Commissioner as follows:

Style "A"—The orange colored tag, for unmixed alfalfas, clovers or grasses.

Style "C"—The green colored tag, for mixed alfalfas, clovers or grasses

Tags for 100 pounds—8 cents each
Tags for 75 pounds—6 cents each
Tags for 50 pounds—4 cents each
Tags for 25 pounds—2 cents each

Style "B"—The uncolored manila tag for cereals, garden and truck crop seeds.

Tags for 200 pounds—8 cents each
Tags for 175 pounds—7 cents each
Tags for 150 pounds—6 cents each
Tags for 125 pounds—5 cents each
Tags for 100 pounds—4 cents each
Tags for 75 pounds—3 cents each
Tags for 50 pounds—2 cents each
Tags for 25 pounds—1 cent each

CONDEMNATION OF SEED.

Any lot of agricultural seed not in compliance with the provisions of this act shall be subject to seizure on complaint of the state seed commissioner to a court of competent jurisdiction in the area in which the seed is located. In the event that the court finds the seed to be in violation of the act and orders the condemnation of said seed, it shall be denatured, processed, destroyed, re-labeled or otherwise disposed of in compliance with the laws of the state: Provided,

53 Years of Service

1891-1944

Quality
FIELD
SEEDS

STRAIGHT CARS
MIXED CARS
BAG LOTS



GEO. P. SEXAUER & SON
BROOKINGS, S. DAK. DES MOINES, IA.

Headquarters

WESTERN GROWN

Kentucky

BLUE GRASS

We Buy and Sell

Dwarf Essex Rape, Red, White and Alsike Clover, White and Yellow Blossom Sweet Clover, Alfalfa, Blue Grass, Red Top, Millet, Cane, Kaffir, Hybrid Seed Corn and all seed grains.

Correspondence Solicited

Ouren Seed Company

Council Bluffs, Iowa

that in no instance shall such disposition of said seed be ordered by the court without first having given the claimant an opportunity to apply to the court for release of said seed on promise to process or relabel to bring it into compliance with the act.

ADDITIONAL FEATURES

ANY GROWER of seed can sell his seed for sowing purposes, without labeling, if he has not advertised it other than by word of mouth or notice placed before his farm, provided he makes the sale and delivers the seed on his premises to the purchaser himself, provided the seed contains no Primary Noxious weeds, not more than 1/2 of one percent Secondary Noxious weeds, and not more than 3 percent of all weeds.

Ruling No. 1. In the case of leguminous seeds containing hard seeds, the actual percentage of

germination should be given and may be followed by the percentage of hard seeds, but hard seeds cannot be included in the germination percentage.

Ruling No. 2. Wholesale seedsman is required to attach at least one Indiana State tag, properly filled out to each bag shipped to retailer. The retailer is then required to attach sufficient tags to cover the net weight before offering seed for sale.

Ruling No. 3. Hybrid Corn may be so labeled only when such seed represents the first generation of a cross between strains of different parentage and involving inbred lines of corn and/or their combinations.

Ruling No. 5. Effective January 1, 1939. White blossom sweet clover seed containing more than 5% of mottled seeds must not be labeled *white blossom sweet clover*. Such seed may be labeled *sweet clover*.

- (1) Percentage of germination.
- (2) Month and year of test.
- (3) Kind and number per ounce or pound of all secondary noxious weeds present.
- (4) A guarantee that no primary noxious weeds are present.

(E) Information Required on labels of inoculants for leguminous plants.

- (1) Kind of plants for which inoculant is to be used.
- (2) Amount of seed content will inoculate.
- (3) Expiry date of inoculant.
- (4) Name and address of manufacturer or laboratory of origin or of vendor if he accepts responsibility for accuracy of the information.

(F) Seed Potatoes bearing blue certification label shall be

- (1) Certified and bear label with the word CERTIFIED thereon.
- (2) Certified by a constituted state authority or state organization recognized by the Iowa secretary of agriculture.

(G) Prohibits the sale, offering or exposing for sale of seed if,

- (1) Contains primary noxious weed seeds, subject to tolerances.
- (2) Contains in excess of 3% of weed seeds.
- (3) Screenings of agricultural seed containing less than 25% viable seed not marked "NOT FOR PLANTING PURPOSES," provided the claimant of said seed having been given the opportunity to apply to said court for the release of said seed.

IOWA

Code of 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agricultural Seeds (Unmixed) Every lot.

- (1) Name of:
 - (a) Kind, or
 - (b) Kind and variety, or
 - (c) Kind and type.
- (2) Lot number or other lot identification.
- (3) Percentage of pure seed.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds. Prohibited if in excess of 3%.
- (6) Percentage of other agricultural seeds.
- (7) Percentage of:
 - (a) Germination, exclusive of hard seed.
 - (b) Hard seed.
 - (c) Month and year tested. Test shall have been completed within a 9 month period, exclusive of month in which test was made.

Following (a) and (b) Total Germination and Hard Seed may be given, if desired.

- (8) Origin of alfalfa and red clover, if unknown it must be so stated.
- (9) Warning as to danger if seed has been

treated with a compound poisonous to man or farm animal.

- (10) Name and address of person who labeled, sells, offers or exposes seed for sale.
- (11) Name and number per ounce of each secondary noxious weed in groups (Ba), (Bb) and (Bc) and per pound in group (Bd) singly or collectively in excess of:
 - (a) 5 per ounce. (See page 106, group B.)
 - (b) 3 per ounce.
 - (c) One per ounce.
 - (d) 5 per pound.

(B) Mixed Agricultural Seed. Every lot.

Same as unmixed seed, except that the information required under items 1, 3 and 7 shall be given, for each agricultural seed component present in excess of 5%, in order of its preponderance.

(C) Vegetable Seeds Not Included Under Law.

- ##### (D) Seed sold by the grower on his farm are exempt from detailed labeling provisions if a placard is displayed or a written or printed statement supplied purchaser giving

NOXIOUS WEEDS

PRIMARY NOXIOUS WEEDS prohibited subject to tolerances given in the rules and regulations.

- Quackgrass—Agropyron repens.
- Canada thistle—Cirsium arvense.
- Perennial sow thistle—sonchus arvensis.
- European morning glory—Convolvulus arvensis.
- Horse Nettle—Solanum carolinense.
- Leafy spurge—Euphorbia esula.
- Perennial peppergrass—Lepidium draba.
- Russian Knapweed—Centaurea repens.

SECONDARY NOXIOUS WEEDS

- Wild carrot—Dacus carota.
- Sour dock—Rumex crispus.
- Smooth dock—Rumex altissimus.

FOR SEEDS OF ANY KIND

THE MICHAEL-LEONARD CO.
 SIOUX CITY, IOWA - CHICAGO, ILL.
 PRODUCERS AND DISTRIBUTORS

GILT EDGE SEEDS

Wholesalers and Jobbers
of FIELD SEEDS

Specializing in
**CLOVERS
GRASSES**

**KOREAN
LESPEDEZA**

51 years in same location

NATIONAL SEED CO.

INCORPORATED

LOUISVILLE 2, KY.

101 W. Main St.

MEMBERS

AMERICAN SEED TRADE ASS'N.
SOUTHERN SEEDSMEN'S ASS'N.

OWEN T. WATTS

AN INTERMEDIATE
SERVICE ON

Wholesale FIELD SEEDS

INSTANT ACTION ON
YOUR OFFERS OR
REQUIREMENTS

KOREAN LESPEDEZA

SOY BEANS RED TOP

ORCHARD GRASS

SERICEA BLUE GRASS

TIMOTHY SEED

ALL CLOVERS, ETC.

Phone Taylor 7622

P. O. Box 955

LOUISVILLE

KENTUCKY

Sheep sorrel—*Rumex acetosella*.
Butterprint—*Abutilon theophrasti*.
Mustards—*Brassica* spp.
Cocklebur—*Xanthium commune*.
Buckhorn—*Plantago lanceolata*.
Dodders—*Cuscuta* spp.

SCREENINGS, from agricultural seed subject to act, shall be prohibited from sale unless labeled, if in containers, or marked on invoice if in bulk. "NOT FOR SEEDING PURPOSES." Screenings shall include chaff, empty florets, immature seed, weed seed, inert matter and other material removed in any way, by cleaning or processing and containing less than 25% of viable agricultural seed.

"STOP SALE" orders may be issued by the secretary of agriculture or his agent if he believes any provision of the seed act has been violated and further sale prohibited until the officer has evidence the law has been complied with, or the seed has been removed from sales room open to the public, or an appeal from such order taken to a court of competent jurisdiction and the seed discharged from said order if in accordance with the finding of the court, the owner or custodian praying for a judgment of the justification of said order.

SEIZURE OF SEED. Upon the recommendation of the state secretary of agriculture or his duly authorized agents, the court of competent jurisdiction in the area in which the seed is located shall cause the seizure and subsequent denaturing, processing, or destruction to prevent the use for sowing purposes of any agricultural seed, the sale of which is prohibited due to (1) the presence of primary noxious weeds, (2) containing in excess of 3% of weeds.

SEED LABORATORY AND TESTS

Service Laboratory—Extension Department, Iowa State College of Agriculture, Ames, Iowa.
Dr. R. H. Porter, Analyst.
Test fees—To Iowa residents, 30 cents per sample and up depending on kind.

ENFORCEMENT AND REGULATIONS

Department of Agriculture
Inspection Laboratory—Des Moines, Iowa
E. L. Redfern—Chief Chemist.
Frank E. Wells—Seed Analyst.

KANSAS

Law 1943.

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Each Container or lot.

- (1) Commonly accepted name.
- (2) Lot number or other lot identification.
- (3) Percentage of pure seed.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds.
- (6) Percentage of other agricultural seeds.
- (7) Percentage of:
 - a. Germination, exclusive of hard seed.
 - b. Hard seed.
 Following a. and b. "Total Germination and Hard Seed" may be given if desired.
- (8) Date of germination test. Date cannot be over one year old.
- (9) Origin of seed, if unknown, must so state.
- (10) Name and address of person, persons or corporation responsible for the statement.
- (11) Name and number per pound of noxious weed seeds.

(B) Mixtures of Agricultural Seeds. Each container or lot.

Same as for unmixed agricultural seeds except it must be called "MIXED" or a "MIXTURE," and the information required under items (A) 1, 3, and 7 shall be given for each component present in excess of 5%.

(C) Vegetable seeds are not included in the law.

D) Hybrid Seed Corn

"Hybrid Seed Corn" is defined as seed of the first generation of a cross involving one or more unrelated inbred lines or their combinations. An "inbred line" is a line of corn that has been developed as a result of not less than five generations of controlled self-fertilization or its equivalent.

Any corn offered as hybrid seed corn shall be registered by filing with the Secretary of the State Board of Agriculture a verified statement giving:

- (1) Name or number by which the hybrid is designated.
- (2) The complete pedigree of each hybrid
- (3) The name of the breeder who developed each inbred line in the combination.

In addition to the label requirements under (A) every lot shall be labeled with the name or number by which the hybrid is designated.

NOXIOUS WEEDS

PROHIBIT ANY

Field bindweed—*Convolvulus arvensis*.

BUYERS

&

SELLERS

QUALITY FIELD SEED

YOUNG & CONWAY

MORGANFIELD, KY.

Western Grown Seeds

Alfalfa—Red Clover

Alsike—White Dutch

from

IDAHO—UTAH

OREGON—NEVADA

Globe Seed & Feed Co.

Twin Falls, Idaho

SELLERS—JOBBERS

and

COMMISSION BUYERS

We Will Trade Your Way

Hoary cress—*Lepidium draba*.
 Russian knapweed—*Centaurea picris*.
 Leafy spurge—*Euphorbia esula*.
PROHIBIT IF MORE THAN 1 SEED IN

10 GRAMS:
 dodder—*Cuscuta* species; Johnson grass—*Sorghum halepense*.
GIVE NAME AND NUMBER PER POUND:

Canada thistle—*Cirsium arvense*; buckhorn plantain—*Plantago lanceolata*; wild mustards—*Brassica* species; French weed—*Thlaspi arvense*; quack grass—*Agropyron repens*; wild onion—*Allium* species; docks—*Rumex* species; bull nettle—*Solanum carolinense*; wild carrot—*Daucus carota*; chess or cheat—*Bromus* species; morning glory—*Ipomoea* species; ox-eye daisy—*Chrysanthemum leucanthemum*; hedge bindweed—*Convolvulus sepium*; Johnson grass—*Sorghum halepense*; dodder—*Cuscuta* species.

LABORATORY AND TESTS

Seed Laboratory at Manhattan, is maintained by the Kansas State Board of Agriculture, cooperating with the Kansas State College of Agriculture:

Paul Ijams, Director of Control Division.
 J. W. Zahnley, Director of Laboratory.

Tests free to Kansas residents, but limited:
 Wholesalers not more than 10 per month
 Retailers not more than 10 per month
 Planters not more than 5 per month

Not more than 1/3 of these allowances per any one month, may consist of redtop, bluegrass, lawn or pasture mixtures and others of similar nature.

Fee for out of state samples to be set by State Board of Agriculture.

ENFORCEMENT

Enforcement is under State Board of Agriculture, J. C. Mohler, Secretary, Topeka.

"STOP SALE." The secretary of the State Board of Agriculture or his authorized agent may stop further sale or movement of any lot or lots of agricultural seed found to be in violation of any of the provisions of this act, until the law has been complied with or said violations otherwise disposed of.

ADDITIONAL FEATURES

"The so-called "Disclaimer Clause," as now commonly printed is not permitted on a seed label in Kansas."

In the case of open-pollinated corn, the county where grown must be given.

Seed held for more than one year must be retested.

KENTUCKY

Law of 1932

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) **Agricultural seeds. Use Kentucky official manila tag "A," except on cereals use yellow tag "B."** Every lot of one pound or more.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Name and number of each kind of noxious weed seeds and bulbs present per ounce of agricultural seeds.
5. Percentage of—
 (a) Germination, exclusive of hard seeds.
 (b) Hard seeds. (Regulation.)
 (c) Month and year of test.
6. Where grown; if unknown give statement to that effect.
7. Name and address of vendor.

(B) **Mixtures. Every lot of 1 pound or more. Use Kentucky official blue tag "C."**

1. That seed is a mixture.
2. Name and percentage of each kind of agricultural seed in excess of 5% by weight of total mixture.
3. Percentage of weed seed.
4. Name and number per ounce of each kind of noxious weed seeds and bulbs present.
5. For each agricultural seed present in excess of 5% give—
 (a) Percentage of germination, exclusive of hard seeds.
 (b) Percentage of hard seeds. (Regulation.)
 (c) Month and year tested.
6. Where grown; if unknown, give statement to that effect.
7. Name and address of vendor.

(C) **Special Mixtures. Every lot of 1 pound or more. Use Kentucky official blue tag "C."**

1. That seed is a mixture.
2. Name of each agricultural seed, which is present in proportion of 5% of total mixture.

3. Percentage of weed seeds.
4. Percentage of inert matter.
5. Name and number per ounce of each kind of noxious weed seeds and bulbs present.
6. Name and address of vendor.

(D) **Vegetable Seeds. Use Kentucky official yellow tag "B".** Lettuce, peas, tomatoes, beans, onions, cabbages, carrots, melons and other truck crops listed as agricultural seeds. Label as under (A) above.

NOXIOUS WEEDS

Quack grass—*Agropyron repens*; dodder—*Cuscuta* sp.; sorrel—*Rumex acetosella*; buckhorn—*Plantago lanceolata*; corn cockle—*Agrostemma githago*; wild onion—*Allium vineale*; Canada thistle—*Cirsium arvense*.

Added 1936-37

Ox-eye daisy—*Chrysanthemum leucanthemum*;
 Johnson grass—*Sorghum halepense*.

LABORATORY AND TESTS

State Seed Laboratory at the Experiment Station, Lexington.

A resident of Kentucky may submit not more than 8 samples for free analysis during the calendar year and not more than 2 samples in any calendar month. Samples in excess of such numbers will be charged at the rate of:

50 cents to \$2.00 for purity tests; mixtures \$3.00

25 cents to 50 cents for germination

Non-residents' rates—purity \$3.00, germination \$1.00.

W. A. Price, Head of Entomology and Botany Department, in charge of laboratory.

ENFORCEMENT

Thomas Cooper, Director of Agricultural Experiment Station.

W. A. Price, enforcement agent.

Purchase Kentucky Official Tags from Director of Agricultural Experiment Station, Lexington, at following prices:

Manila tag "A" for unmixed alfalfas, clovers, and grass; blue tag "C" for mixed seeds.



Tell your Farmer Customers that there are 70 million pounds of free nitrogen over every acre which they can draw upon if they inoculate; if they do not inoculate they rob their soil and fail to utilize this free source of nitrogen.

Encourage your Farmer Customers
 to Inoculate All Legume Seeds
 and Use as much of this
 Free Nitrogen of the Air as Possible

Write for Dealer Prices

THE URBANA LABORATORIES
 URBANA, ILLINOIS

SEED DEALERS! SELL



INOCULATION

TO YOUR TRADE

A Quality Product Containing Only
 Field Tested Proven Superior Strains



- Tag for 100 pounds—8 cents each
 Tag for 75 pounds—6 cents each
 Tag for 50 pounds—4 cents each
 Tag for 25 pounds—2 cents each
 Yellow tag "B" for cereals, garden and truck crops.
- Tag for 100 pounds—4 cents each
 Tag for 75 pounds—3 cents each
 Tag for 50 pounds—2 cents each
 Tag for 25 pounds—1 cent each

REGULATION

1. The percentage of hard seed should be shown on the tag, but must not be included in the percentage of germination.
2. Hybrid Seed Corn must bear on the label the name of the hybrid. If the hybrid is not well known, the name of the inbreds composing it, together with the number of days required for maturity shall be reported to the enforcement officer in charge of the Pure Seed Law.

LOUISIANA

Act of 1926 and Regulations 1934

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural seed. Every lot of 10 pounds or more.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Name and number per ounce of each kind of noxious weed seed present singly or collectively in excess of:
 - (a) one seed in 5 grams. (See page 106, group A.)
 - (b) one seed in 25 grams
 - (c) one seed in 100 grams
5. Percentage of germination with the month and year tested.
6. Year in which seed was grown.
7. Where grown if brought into the state.
8. Name and address of vendor.

(B) Mixtures of agricultural seeds of only 2 kinds. Every lot of 10 pounds or more.

1. That seed is a mixture.
2. Name and percentage of each kind of agricultural seed present in excess of 5% of total mixture.
3. Percentage of weed seeds.
4. Name and number per ounce of each kind of noxious weed seed present singly or

- collectively in excess of one seed in each 15 grams.
5. Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested, and year grown.
 6. Where grown if brought into the state.
 7. Name and address of vendor.

(C) Special Mixtures. Every lot of 8 ounces or more.

1. That such seed is a mixture.
2. Name of each kind of agricultural seed present in proportion of 5% or more.
3. Percentage of weed seed.
4. Percentage of inert matter.
5. Name and number per ounce of each kind of noxious weed present singly or collectively in 15 grams.
6. Where grown if brought into the state.
7. Name and address of vendor.

(D) Vegetable seeds. Every lot of 10 pounds or more. Included under agricultural seeds. Label as under (A) above.

NOXIOUS WEEDS

Primary

- Bindweed, perennial.
 Cocoa grass (Cyperus rotundus).
 Docks (species growing in the south).

Dog fennel.
 Johnson grass.
 Onion, wild.
 Plantains (P. rugelii, lanceolata, aristata, virginica, elongata).
 Sorrel.

Secondary

Black-eye Susan.
 Cheat.
 Darnel.
 March elder.
 Morning glory, annual (Ipomoea purpurea).

LABORATORY AND TESTS

Seed Laboratory, Department of Agriculture, Baton Rouge, in charge of A. P. Kerr, State chemist.
 Commissioner of Agriculture may fix number of free samples to be tested in a period of time and may fix charges for tests of samples submitted in excess of those free of charge.

ENFORCEMENT

Enforcement under Commissioner of Agriculture, Harry D. Wilson, A. P. Kerr, enforcement agent, Baton Rouge.

MAINE

Revised In 1919

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural Seeds. Every lot.

1. Name of seed.
2. Percentage of pure seed.
3. Name and amount (number per pound) of each kind of noxious weed.
4. Percentage of germination together with the month and year tested.

(B) Mixtures not included.

(C) Vegetable seed not included.

NOXIOUS WEEDS

Ball mustard—Neslia paniculata; bearded darnel—Lolium temulentum; bitter dock—Rumex obtusifolius; black mustard—Brassica nigra; (Please turn to page 127)

MARYLAND

Law of 1941

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(A) Agricultural Seeds (Unmixed). Every lot.

1. Commonly accepted name of
 - (a) Kind or
 - (b) Kind and variety or
 - (c) Kind and type.
2. Lot number or other identification.
3. Percentage of pure seed.
4. Percentage of inert matter.
5. Percentage of weed seeds.
6. Percentage of other agricultural seed.
7. Percentage of
 - (a) Germination, exclusive of hard seed.
 - (b) Hard seed.
 - (c) Month and year tested. Test shall have been completed within a nine month period exclusive of the month in which the test was made.
Following (a) and (b) "Total Germination and Hard Seed" may be given if desired.
8. Origin of Alfalfa, Red Clover and Field corn (except hybrid) if unknown must be so stated.
9. Name and address of person who labeled, or sells, offers or exposes seed for sale.
10. Name and number of each kind of noxious weed seed, per ounce in group B1 and B2 and per pound in groups B3 and B4 if present singly or collectively in excess of
 - (a) one seed in five grams (see page 106, group B).
 - (b) one seed in ten grams.
 - (c) one seed in twenty-five grams.
 - (d) one seed in one hundred grams.

(B) Mixed Agricultural Seed. Every lot

Same as for unmixed seed except that the information required under Items (A) 1, 3 and 7 shall be given, in the order of its predominance, for each agricultural seed component present in excess of 5%. When more than one component is named the word "mixture" or "mixed" shall be used.

(C) Vegetable Seeds.

1. For containers of 8 ounces or more.
 - (a) Lot number or other identification.
 - (b) Name of kind and variety.
 - (c) Percentage of
 1. Germination, exclusive of hard seed.
 2. Hard seed.
 3. Month and year tested. Test shall have been completed within a nine month period exclusive of the month in which it was completed.
 4. Name and address of person who labeled, or offers, sells or exposes said seed for sale.
2. For containers of less than 8 ounces.
 - (a) Name of kind and variety.
 - (b) For seed which germinates less than the standard last established by the State Board of Agriculture.
 1. Percentage of germination, exclusive of hard seed.
 2. Percentage of hard seed.
 3. Month and year tested. Test shall have been completed within a nine month period exclusive of the month in which it was completed.
 4. Words "BELOW STANDARD" in not less than 8 point type.
 - (c) Name and address of person who labeled, or offers, sells or exposes said seed for sale.

(D) Prohibits the sale, offering or exposing for sale of any agricultural or vegetable seed if,

1. The test for germination has not been completed within a nine months period, exclusive of the month in which test was completed.

NOXIOUS WEEDS

Dodder—Cuscuta Spp.; Canada Thistle—Cirsium arvense; Quackgrass—Agropyron repens; Bindweed—Convolvulus arvensis; Johnson grass—Sorghum halepense; Wild garlic—Allium vineale; Bermuda grass—Cynodon dactylon.

"STOP SALE" orders may be issued by the authorized agent of the State Board of Agriculture

when he finds any agricultural or vegetable seed in violation of the provisions of this act which shall prohibit further sale of said seed until the agent has proof the law has been complied with. No "stop sale" order shall be issued or attached to any lot of seed without first giving the owner or custodian an opportunity to comply with the law or to remove seed from sale. An appeal from such an order may be made to a court of competent jurisdiction where the seeds are found, praying for a judgment as to the justification of said order and for the discharge of such seeds from the order prohibiting the sale in accordance with the findings of the court.

SEIZURE OF SEED

Any lot of agricultural or vegetable seed not in compliance with the provisions of this act shall be subject to seizure on complaint of the authorized agent of the State Board of Agriculture to a court of competent jurisdiction in the area in which the seed is located. In the event the court finds the seed to be in violation of the law and orders the condemnation of said seed it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state, but in no instance without first having given the claimant an opportunity to apply to the court for a release of said seed or permission to process or relabel it to bring it into compliance with this act.

SEED LABORATORY AND TESTS

Seed Laboratory at Agricultural Experiment Station, College Park, Maryland. Number of free tests to Maryland citizens determined by the person in charge.

F. S. Holmes, in Charge of Laboratory.

ENFORCEMENT AND REGULATIONS

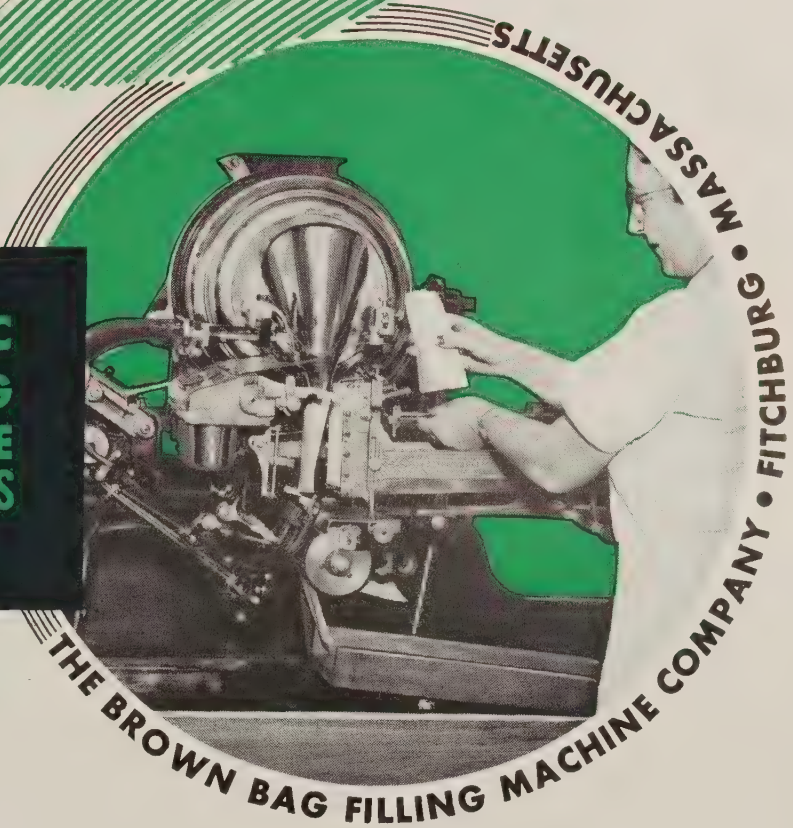
Enforcement under State Board of Agriculture. Bermuda grass—while a "noxious weed" when present in any other kind of seed, may be sold as Bermuda grass.

(Not under law of 1941.)

EQUITABLE SEED DISTRIBUTION
 AT HOME AND ABROAD • A FORM OF
 INTERNATIONAL RATIONING • TO HELP
 PREVENT SPREAD OF FAMINE

Brown AUTOMATIC
 SEED PACKET FILLING
 and SEALING MACHINE
 and BROWN-made PACKETS

RELIEVE THE MANPOWER SHORTAGE
 WRITE FOR FAVORABLE LEASING TERMS
 AND LOW PACKET PRICES



MASSACHUSETTS
 FITCHBURG
 THE BROWN BAG FILLING MACHINE COMPANY

So much depends on today's decisions

care for diligently—and then, God granting, we may avoid a threatened food shortage such as we Americans have never known.

For over 30 years, thousands of careful buyers have accepted no substitute for O & M Northern Grown Seed Corn and Seed Oats. They know them to be dependable, to yield uniformly excellent crops, to be much more economical. We suggest that you too, learn more about these highly respected lines. Write for details on your requirements and prices on car lots or less.

Now, more than ever, since we have less with which to do, it is vitally important that we make the most of everything we have.

It is not pleasant to contemplate how much depends on every tiny seed in 1944.

That's why sincere growers have been so concerned about the outcome of crops—why we've prayed for bountiful supplies to pass on to you seedsmen who must supply America's farmers. They must this time select wisely, plant efficiently,



85 Varieties
FIELD • ENSILAGE
SWEET • HYBRID
SEED CORN

In Hy-Cross T-13, we offer one of the best ensilage corns ever produced. A cross between one of the leading red cob varieties and one of the leading white cob varieties, it stands up well and has

- An excellent root system.
- More vigorous growth.
- Large ears (10 to 12 inches long) with 12 to 14 rows of deep white grains and a red cob.
- Broad leaves which assure an abundance of ensilage.



U. S.-13



O & M SEED OATS



HY-CROSS T-13

**So much
counts
on today's
action**

It really shouldn't be necessary to ask anyone to buy War Bonds. It's a privilege to help hasten the return of peace . . . a duty to save the lives of thousands of our fighting men . . . a real opportunity to have a stake in the world's greatest nation. But it's not a thing to put off doing until tomorrow—action TODAY is what counts. Minutes today can be measured in human lives. If we don't wait to be asked we won't see the time we are **told**.

The O & M SEED Company
GROWERS . . . GREEN SPRINGS, OHIO

Famous FOOTPRINT



Mark of Quality!

BLACKFOOT

— BRAND —

GRIMM ALFALFA

LADAK ALFALFA

Midland Clover

Cumberland Clover

Grown by

IDAHO GRIMM

Alfalfa Seed Growers Ass'n

Blackfoot, Idaho

BLACKFOOT'S famous mark of quality is making many new GRIMM tracks toward Victory! As in prewar days, this hardy, productive Alfalfa and Clover Seed from the Upland Fields of Idaho is still cultivating friendly dealer-customer relationships through its excellent production record.

With the overwhelming Victory Crop demands for BLACKFOOT Brand, we cannot encourage you to expect adequate supplies. But we want the "BLACKFOOT" Brand to remind you that it's good business to sell "Quality" seed.



bladder campion—*Silene latifolia*; blue bur or stickseed—*Lappula echinata*; bluwweed—*Echium vulgare*; Canada thistle—*Cirsium arvense*; charlock—*Brassica arvensis*; chicory—*Cichorium intybus*; clover dodder—*Cuscuta* species; clustered dock—*Rumex conglomeratus*; common ragweed—*Ambrosia artemisiifolia*; common (annual) sow thistle—*Sonchus oleraceus*; corn cockle—*Agrostemma githago*; cow-herb—*Saponaria vaccaria*; daisy fleabane—*Erigeron ramosus*; false flax—*Camelina sativa*; field bindweed—*Convolvulus arvensis*; field penny cress—*Thlaspi arvense*; field (perennial) sow thistle—*Sonchus arvensis*; great ragweed—*Ambrosia tritica*; indian mustard—*Brassica juncea*; hare's-ear mustard—*Conringia orientalis*; king devil weed—*Hieracium pratense*; night-flowering catchfly—*Silene noctiflora*; orange hawk weed—*Hieracium aurantiacum*; ox-eye daisy—*Chrysanthemum leucanthemum*; perennial ragweed—*Ambrosia*

psilostachya; ribgrass—*Plantago lanceolata*; rutabaga—*Brassica campestris*; small seeded false flax—*Camelina microcarpa*; spiny-leaved or prickly sow thistle—*Sonchus asper*; sweet scabious—*Erigeron annuus*; tumbie mustard—*Sisymbrium altissimum*; white campion—*Lychnis alba*; wild carrot—*Daucus carota*; wild oats—*Avena fatua*; wild radish—*Raphanus raphanistrum*; witch grass—*Agropyron repens*; yellow dock—*Rumex crispus*.

SEED LABORATORY

Maine Agricultural Experiment Station, Orono.
George P. Steinbauer, Analyst.

ENFORCEMENT

Department of Agriculture, Augusta.
A. M. G. Soule, Chief of Division of Inspection.

MASSACHUSETTS

Law of 1938

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural seed, every lot.

1. Name and variety.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Name and number per ounce of each kind of noxious weed seeds present singly or collectively in excess of
 - (a) one seed in each 5 grams
(See page 106, group A.)
 - (b) one seed in each 25 grams
 - (c) one seed in each 100 grams
5. Germination together with month and year of test.
6. Name and address of vendor.

(B) Mixtures of Agricultural seeds of not more than two kinds. Every lot.

1. That such seed is a mixture.
2. Name, variety and percentage by weight of each kind of agricultural seed in excess of 5% by weight of the total mixture.
3. Percentage of weed seeds.
4. Name and number per ounce of noxious weed seeds present singly or collectively in excess of one seed in each 15 grams.
5. Percentage of germination of each kind of agricultural seeds present in such mixture in excess of 5% by weight, together with the month and year tested.
6. Name and address of the vendor.

(C) Mixtures of Agricultural Seeds not included in the above. Every lot.

1. That the seed is a mixture.
2. The name, variety and percent by weight of each kind present in excess of 5% by weight of the total mixture.
3. Percentage of weeds.
4. Percentage of inert matter.
5. Name and number per ounce of each kind of noxious weed seed present singly or

collectively in excess of one seed in each 15 grams of such mixture.

6. Percentage of germination of each kind of agricultural seed present in excess of 5% of the entire mixture together with the month and year tested.
7. Name and address of the vendor.

(D) Vegetable seeds. Each separate container.

1. Kind of seed and variety.
2. Percentage of germination, together with the month and year tested provided such seed germination is less than the standard for such seed for the current year as established in Massachusetts. (See page 102 for standards.)
3. Name and address of vendor, packer or processor.

(E) Flower Seed. Each container.

1. Kind of seed and variety.
2. Name and address of vendor, packer or processor.

NOXIOUS WEEDS

Quack grass—*Agropyron repens*; Canada thistle—*Cirsium arvense*; dodder—*Cuscuta* species; wild mustard—*Brassica* species; English plantain—*Plantago lanceolata*.

SEED LABORATORY

Massachusetts Agricultural Experiment Station, Amherst, F. A. McLaughlin, analyst in charge. Tests—Any person residing or doing business in this commonwealth shall have the privilege of submitting samples of seed for test subject to rules and regulations, including a reasonable fee for such test.

ENFORCEMENT

State Department of Agriculture, Commissioner of Agriculture, State House, Boston.

MICHIGAN

Act as Amended - 1943 - Rules and Regulations 1943

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. One pound or more.

- (1) Commonly accepted name.
- (2) Lot number or other identification.
- (3) Percentage of pure seed.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds.
- (6) Percentage of other agricultural seeds.
- (7) Percentage of:
 - a. Germination, exclusive of hard seed.
 - b. Hard seed.
- (8) Month and year of test. Test shall have been completed within a 9 month period exclusive of the month in which the test was completed.
- (9) Origin of red clover, alfalfa, soybeans and field corn. If originating in more than one state give percentage from each state in the order of its predominance.
- (10) Name and address of person who labels seed or who sells, offers or exposes seed for sale.
- (11) Name of each noxious weed seed present singly or collectively in excess of:
 - a. 90 or more per pound (group B page 106).
 - b. 25 or more per pound.
 - c. 10 or more per pound (brome grass included in this group).
 - d. 2 or more per pound.

(B) Mixtures of Agricultural Seeds. Eight ounces or more.

- (1) Same as for unmixed agricultural seeds except it must be called "MIXED" or a "MIXTURE," and the information required under items (A) 1, 3, and 7 shall be given for each component present in excess of 5%, in the order of its predominance.
- (2) Name and number of each noxious weed seed present.

(C) Lawn Grass Mixtures. In any size container.

In lieu of the label specified in (B) a special label showing:

- (1) That the seed is a mixture.
- (2) Michigan grade.
- (3) Name and percentage of each ingredient seed present in excess of 5%.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds.
- (6) Percentage of other agricultural seeds.
- (7) Percentage of germination of each kind of agricultural seed named on the label.
- (8) Month and year seed was tested. Test shall have been completed within a 9 month period exclusive of the month in which the test was completed.
- (9) Name and address of person who labels seed or who sells, offers or exposes seed for sale.

KING

headquarters

for

MICHIGAN

GROWN

SEEDS

RED CLOVER

ROSEN RYE

VETCH

H. C. KING & SONS, INC.

BATTLE CREEK MICHIGAN

Good SEED

Louisiana Grown

WHITE DUTCH CLOVER

(more plants per pound)

Other Grass Seeds
Soy Beans

3401 acres chiefly seed crops

One of the best equipped cleaning plants in Louisiana

W. T. NOLIN
HAMBURG, LOUISIANA

Roscoe J. Carl and Son

Lansing, Michigan

Buyers and Sellers

Alsike

Alfalfa

Red Clover

Hybrid Corn

Sweet Clover

Hardy Canadian Seeds

★ ★ ★ ★

BROME

ALFALFA

CLOVERS

Crested Wheat Grass

OATS

BARLEY

FLAX

Registered—Certified

★ ★ ★ ★

**NORTHERN CANADIAN
SEED SALES**

WINNIPEG

CANADA

The Commissioner of agriculture shall establish grades for lawn seed mixtures.

(D) Vegetable Seeds. Each separate container.

- (1) Kind and variety of seed.
- (2) For seed which germinates less than the standard established by the Commissioner of Agriculture give (see page 102 for standards). If germination falls more than 25% below the germination standard seed cannot be sold or offered for sale.
 - a. Percentage of Germination.
 - b. Month and year test was completed. Test shall have been completed with a 9 month period exclusive of the month in which the test was completed.
- (3) Name and address of person who labels seed, or who sells, offers or exposes seed for sale.

(E) Hybrid Seed Corn. Each container.

- Label same as under (A) also:
1. Name or number by which hybrid is designated.
 2. There shall be on file with the Commissioner of Agriculture a statement giving:
 - a. The pedigree of the hybrid.
 - b. Name of the breeder who developed each inbred line involved in the cross.

NOXIOUS WEEDS—Prohibited 1 to 2000 crop seeds.

Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; dodder—Cuscuta species; mustards (charlock, black mustard and Indian mustard)—Brassica or sinapsis species; wild carrot—Daucus carota; bindweed—Convolvulus arvensis; perennial sow thistle—Sonchus arvensis; Hoary alyssum—Berteroa incana.

PROHIBITS THE SALE, OFFERING OR EXPOSING FOR SALE OF:

1. Agricultural seeds containing noxious weed seeds in excess of one weed seed to 2,000 agricultural seeds.
2. Agricultural or vegetable seed unless the germination test shall have been completed within a 9 month period exclusive of the month in which the test was completed.
3. Vegetable seed if the germination falls more than 25% below the standard established for that variety. (See page 102 for standards.)

SEED LABORATORY

Department of Agriculture, Lansing.
Chas. A. Stahl, seed analyst.

Fees—Field seeds, 50 cents; chaffy grasses, \$1.00; mixtures, 50 cents for each crop seed in excess of 5% (including germination). Germination only, 50 cents per test.

ENFORCEMENT

Charles Figy, Commissioner of Agriculture, Department of Agriculture, Lansing.

SEIZURE OF SEED. The Commissioner, his deputy or duly appointed agent may seize any lot of agricultural or vegetable seed which in his opinion is being sold, offered or exposed for sale contrary to the provisions of this act. If after analysis said seed were found to be in violation to this act the commissioner, his deputy or duly authorized agent shall make complaint before a justice of the peace in the township or city where such seed were seized. If said seed shall be found upon trial to be possessed for the purpose of being sold, offered or exposed for sale contrary to this act, the justice shall render judgment as in his discretion seems proper.

- a. Seized seed to be forfeited to the state to be disposed of.
- b. Defendant clean seed under reasonable restrictions imposed by the commissioner.
- c. Defendant properly mark or label seed according to the requirements of this act.

In any judgment so rendered, the defendant shall pay the court costs and the actual necessary expenses in the seizure of such seed before the seed is returned to him.

ADDITIONAL FEATURES

1. Mixtures—Any two or more kinds of agricultural seeds in quantities of 5% or more in the same lot shall constitute a "mixture." Agricultural seeds in mixtures must be present in quantities of 5%

Requirements for Grades

Grasses from	Group I		Shade Grasses	Group IV		Rye-Grass	Maximum Inert	Maximum Weeds	Germination
	Min.	Max.		Min.	Max.				
Grade A	48%	45%	....	....	15%	6.60	.40	Not less than standard
Grade A for shade	....	45%	48%	....	15%	6.60	.40	Not less than standard
Grade B	32%	55%	....	....	25%	10.40	.60	Not more than 5% below std.
Grade B for shade	....	55%	20%	....	25%	10.40	.60	Not more than 5% below std.
Grade D	....	....	....	15%	35%	14.20	1.00	Not more than 15% below std.
Grade D for shade	....	....	20%	15%	35%	14.20	1.00	Not more than 15% below std.

or more to be considered as a part of the pure seed.

2. Hard seeds—Germination guarantee must not include the so-called "hard seed" as seed germinated. Additional information such as hard seeds is permissible on the tag. Permit hard seeds to be added to actual germination as "Probable live seed."
3. Michigan lawn grass grades (August, 1941)—Along with the regular analysis required under (D) in a conspicuous place, each package, bag, carton or bulk of mixed lawn seed meeting the requirements of grade A shall be labeled "Lawn Seed Michigan Grade A" and all meeting the requirements of Grade B shall be labeled "Lawn Seed Michigan Grade B." All mixed grass seed not meeting the requirements of Grade A or B must be designated as "Grass Seed Grade D" and must meet the requirements of Grade D.
4. When making up mixtures, if the inert matter in Grades A & B is less than the maximum allowed, additional Red Top may be added to make up the difference. Similarly in Grass Seed Grade D, as much as 5% Rye grass may be added. In all cases the excess of these components must be compensated by at least an equal amount of inert matter.
5. Where only one analysis label is used on a carton, it must not be placed on the bottom.
6. If seed on which the origin is required originates in more than one state the name and percentage of seed from each state shall be given in the order of its predominance.
7. Hybrid seed corn shall be the first generation stock of a cross, the parentage of which involves one or more inbreds.

Classification of Grasses

Group I (Turf Grasses)	Minimum Purity	Minimum Germ.
Kind of Seed		
Ky. Blue Grass (Poa pratensis).	82%	80%
*Rough Blue Grass (Poa trivialis)	90%	70%
European Red Fescue (Festuca rubra-genuina)	97%	80%
New Zealand Chewing Fescue (Festuca rubra-fallax)	97%	70%
†Bent Grasses	97%	85%
White Clover	95%	†92%
Group II (Nurse Grasses)		
Red Top (Agrostis palustris, A. Alba)	92%	90%
Rye Grass (Lolium perenne and italicum)	97%	90%
Group III (Special Purpose Grasses)		
Seaside Bent (Agrostis palustris maritima)	97%	85%
Canada Blue Grass (Poa compressa)	82%	85%
Annual Blue Grass (Poa annua)	82%	85%
Rough Blue Grass (Poa trivialis)	90%	70%
Hard Fescue (Festuca ovina duriuscula)	97%	80%
Fine Leaved Fescue (Festuca ovina, tenuifolia)	97%	80%
European Red Fescue (Festuca rubra-genuina)	97%	80%
Sheeps Fescue (Festuca ovina)	97%	80%
Creeping Bent Stolons		
Group IV (Filler Grasses) (Not recommended for lawn)		
Crested Dogtail (Cynosurus cristatus)	97%	80%
Wood Meadow Grass (Poa nemoralis)	80%	80%
Orchard Grass (Daactylis glomerata)	80%	80%
Meadow Fescue (Festuca elatior)	95%	90%
Timothy (Phleum pratense)	98%	90%

Note: Valuable in shady places are: Rough Blue Grass, Chewings Fescue, Velvet Bent (agrostis canina), Fine Leaved Fescue.

*Also a good Nurse Grass.

†Minimum Purity for South German Mixed Bent 80%.

‡Total germ. and Hd. Seeds.

MINNESOTA

Law as Amended 1943.

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Each container of 1 pound or more.

Attach Minnesota Sales Tags. (Information in not less than 8 point Gothic caps.)

1. Commonly accepted name of kind.
2. Percentage of pure seed.
3. Percentage of weed seeds. (Prohibit 2%.)
4. Percentage of germination.
5. Date of germination test. Date of test must not be over 9 months old exclusive of the month in which the test was made.
6. Where grown (in case of corn, the county).
7. Name and address of the person who labeled seed, or who sells, offers or exposes seed for sale.
8. Name and number per pound of the following noxious weed seeds whenever the total number of any or all exceeds ten per pound; if less the word "trace" together with the name of each kind shall be given.
Quack grass, Canada thistle, perennial sow thistle, dodder, Ox-eye daisy, buckhorn, Frenchweed and hoary alyssum.

(B) Mixtures of Agricultural seeds. Each Container of 1 pound or more.

Attach Minnesota Sales Tags. (Information in not less than 8 point Gothic caps.)
Same as for unmixed agricultural seeds except it must be called "MIXED" or a "MIXTURE," and the information required under items (A) 1, 2, and 5 shall be given for each component present in excess of 5%.

(C) Special Mixtures. Each container of 8 ounces or more.

Attach Minnesota Sales Tags. (Information in not less than 8 point Gothic caps.)
Same as for (B) Mixtures of Agricultural seed except the percentage of inert matter must be given. Lawn seed mixtures require only the name of the noxious weed seeds present.

(D) Vegetable Seeds.

Not included under the law, however mangels and sugar beets are included under Agricultural seed.

(E) Hybrid Seed Corn. Each container.

Use Minnesota Sales Tags. (Information in not less than 8 point Gothic caps.)

Definition—"Hybrid Seed Corn" shall be seed of the first generation of a cross involving two, three or four different inbred lines of corn or their combinations and shall be restricted to seed of single crosses, three-way crosses and double crosses, these in turn being defined as follows:

- (1) Single cross—The first generation of a hybrid between two inbred lines.
- (2) Three-way cross—The first generation of a hybrid between a single cross and an inbred line.
- (3) Double cross—The first generation of a hybrid between two single crosses.

Maturity Zones—The Director of the Agricultural Experiment station of the University of Minnesota shall determine, establish and number or otherwise identify corn growing sections of the state and determine and publish for each section so established, the approximate number of days growing season required for corn from emergence of the corn plants above ground after planting to maturity.

Label—In addition to label requirements under (A) the label must state:

- (1) Whether said hybrid corn is a single cross, three-way cross or double cross.
- (2) The year and state where grown and the variety.
- (3) The approximate number of days for maturity in the section in Minnesota where said corn is intended to be grown. A record of each hybrid seed corn variety including zone for which adapted shall be filed by February 1st of each year by the originator or owner with the Commissioner of Agriculture. Filing fee \$2.00, annual renewal \$1.00.

NOXIOUS WEEDS

PROHIBIT IF PRESENT.

Creeping Jennie—*Convolvulus arvensis*. No tolerance allowed.
Leafy spurge—*Euphorbia esula*. No tolerance allowed.

Perennial peppergrass—*Lepidium draba*.
Horse nettle—*Solanum carolinense*.
Austrian fieldcress—*Ropia austriaca*.

PROHIBIT IF IN EXCESS OF 10 PER POUND SINGLY OR COLLECTIVELY.

Quack grass—*Agropyron repens*.
Canada thistle—*Carduus arvensis*.
Perennial sow thistle—*Sonchus arvensis*.

PROHIBIT IF PRESENT IN EXCESS OF 25 PER POUND SINGLY OR COLLECTIVELY.

Dodders—*Cuscuta* spp.
Ox-eye daisy—*Chrysanthemum leucanthemum*.
Buckhorn—*Plantago lanceolata*.
Frenchweed—*Thlaspi arvense*.
Hoary alyssum—*Berteroa incana*.

PROHIBIT THE SALE, OFFERING OR EXPOSING FOR SALE OF;

Agricultural seeds or mixtures of the same containing:

1. Any seeds of creeping Jennie and leafy spurge, no tolerance allowed.
2. Any seeds of perennial peppergrass, horse nettle, Austrian field cress.
3. In excess of 2% of weed seeds.
4. Other noxious weed seeds in excess of the number given under the heading Noxious Weeds singly or collectively.

SEED LABORATORY AND TESTS

State Seed Testing Laboratory—University Farm, St. Paul. J. L. Larson, Chief Analyst. Fees for tests (5 free samples allowed during a year.)

Germination—

25 cents—corn, peas, flax, beans, cereals, vetch and such larger seeds.

30 cents—alfalfa, clovers, timothy and similar seeds.

40 cents—blue grass, fescue and similar or smaller grass seeds.

Purity—

25 cents—cereals, buckwheat, flax, vetch and other seeds of similar size.

50 cents—millets, Sudan grass, alfalfa, alsike clover, red clover, sweet clover, rape, timothy, rye grass, slender wheat grass and all similar seeds and mixtures of seeds hereinbefore named.
\$1.00—White clover, all mixtures of clover, orchard grass, and wheat grass, and all uncleaned seed.

\$2.00—Kentucky blue grass, red top, and bent grasses, and all lawn grass mixtures.

ENFORCEMENT

State Dept. of Agriculture, 537 State Office Bldg., St. Paul. Division of weed and seed con-

SELL and USE CYANOGENAS The Universal Pest Destroyer

"It's the gas that kills 'em"

CYANOGENAS* is calcium cyanide, a material which liberates hydrocyanic acid gas (HCN) on exposure to the natural moisture in the air. A fine powder, CYANOGENAS A-DUST is adapted to use with a duster for rodent control and for various other purposes in the field of insect and rodent control. CYANOGENAS ANT-KILLER is specially packed for treating ant nests in lawns and gardens. CYANOGENAS G-FUMIGANT is comparable to sea-sand in the size of the particles, flows and sifts freely and is dustless in application; it is used for fumigation.

FARMERS, RANCHERS,



CYANOGENAS ANT-KILLER DISPLAY CARTON featuring 4 oz. spout cans for ants only—a hit for Victory Garden counters.

CYANOGENAS A-DUST DISPLAY CARTON—a fast-moving, profitable counter item.

POULTRYMEN require CYANOGENAS to kill destructive rodents such as RATS, MICE, WOODCHUCKS (GROUND HOGS), MOLES, GROUND SQUIRRELS, GOPHERS and PRAIRIE DOGS.

GARDENERS, HOME OWNERS use CYANOGENAS ANT-KILLER to rid lawns and gardens of ants.
GREENHOUSES use CYANO-

GENAS G-FUMIGANT throughout the year for the control of many kinds of insect pests.

FLOUR MILLS, GRAIN ELEVATORS, WAREHOUSES, PEST CONTROL OPERATORS and PUBLIC HEALTH OFFICERS are buyers and users of CYANOGENAS to control insects, rats, mice and other pests.

For Further Information Write

American Cyanamid & Chemical Corporation

A Unit of American Cyanamid Company

30 Rockefeller Plaza
Kansas City 6, Mo.

Insecticide Department

New York 20, N. Y.
Azusa, Cal.

* Reg. U. S. Patent Office



Pride of the North FARM SEEDS

Alfalfa Clovers Timothy SEED GRAINS

Improved and adapted varieties for
Northwest Farmers.

SOY BEANS

Pridesoy (Extra Early), Minsoy,
Mandarin, Habaro, Richland, Wis.
Improved No. 3 Manchu.

PRIDE and Tru-Krost Hybrid Seed Corn

Dependable hybrids for each local-
ity and maturity zones.

TWIN CITY SEED COMPANY

Breeders Growers

Processors Distributors

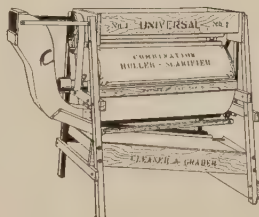
OFFICES

Minneapolis, Minnesota

UNIVERSAL

COMBINATION

HULLER - SCARIFIER CLEANER



A machine
built espe-
cially for
Seed Grow-
ers, Seed
Houses. This
machine will
Hull, Scarify
and Clean,
Alfalfa, Sweet

Clover, Crotalaria, Lespedeza, Bermuda Seed,
etc. Save your present losses which can now
be avoided by owning one of these machines
which will pay for itself many times each
season.

WRITE FOR DESCRIPTIVE
LITERATURE AND PRICES

American Grain Separator
Company

MINNEAPOLIS

MINNESOTA

trol, C. H. Schrader, Agronomist and Deputy
Director.

SEED TAG SALE ACT

The following tags shall be used for pure
and unmixed seeds other than cereals and
shall be obtained from the Commissioner of
Agriculture at the given prices.

YELLOW TAGS for alfalfa, sweet
clover, red clover, alsike clover, white
clover, lespedeza, and other legume seeds
of similar size, timothy, bromus, rye
grass, orchard grass, reed canary grass,
blue grass, fescues, red top, rape, bent
grass and wheat grass.

GREEN TAGS for flax, millets, proso,
sorghum or cane, kafir corn, milo maize,
mangold, hemp, sudan grass, rutabagas
and vetches.

BROWN TAGS for field and canning
peas, navy and/or white beans, sun-
flowers, field and sweet corn and soybeans.

WHITE TAGS for any and all mix-
tures of seeds of the foregoing groups
when two or more kinds, and/or varie-
ties are intermingled in proportions of
five percent or more by weight.

PRICES OF TAGS:

100 to 150 pound containers	5c each.
60 to 99 pound containers	4c each.
30 to 59 pound containers	3c each.
15 to 29 pound containers	2c each.
1 to 14 pound containers	1c each.

"STOP SALE"

The commissioner is authorized to seize and
hold any lot, parcel, package or bulk of
agricultural seeds or mixtures of the same
found in violation of any provisions of the
seed law or rules and regulations thereof
until same have been complied with or said
violation otherwise disposed of.

DISPOSITION OF SEIZED SEED

The commissioner upon seizing any agri-
cultural seeds shall notify the person who
was in possession of such seeds, or the owner
thereof, or his agent, of such seizure, and
return said seed to the consignor upon re-
ceipt of the expenses for transportation and
also the expenses in handling, storing or
caring for said seed, before same is billed
for return shipment. If after 10 days said
costs are not paid, the commissioner may
confiscate said seed and destroy or otherwise
dispose of it to prevent its use for seeding
purposes and the net proceeds from the sale
of such seed by the commissioner shall be
transmitted to the State Treasurer.

ADDITIONAL FEATURES

LAWN GRASS LABELS must be placed on a con-
spicuous place of the carton, back and bottom
not so considered.

CEREALS—shall mean and include the seeds of
wheat, rye, oats, barley, speltz or emmer and
buckwheat.

NOXIOUS WEEDS—Any person engaged in the
purchase or sale of agricultural seeds who
comes into possession of seed or samples of
seed containing any of the Prohibited Nox-
ious weed seeds shall report to the Depart-
ment of Agriculture Dairy and Food the
name and address of the person from whom
such seed or seed samples were received.

DISCLAIMER OR NON WARRANTY CLAUSE:
Not permitted on the label.

SCREENINGS

It shall be unlawful for any person to sell to
the consumer, offer or expose for sale any
screenings of any name or nature that have not
been devitalized by grinding sufficiently fine to
destroy all weed seeds, or otherwise devitalize
them.

IMPORTED SEEDS. It shall be unlawful to
import or bring into the state or transport
within the state any agricultural seeds unless
each container shall bear a label giving—

1. Kind and variety of seed.
2. Percentage of purity.
3. Percentage of germination and date of
test.
4. The state from which seed was shipped,
if corn, the county in which it was grown.
5. Name and address of person shipping
seed.

In all other respects the seed shall conform
to the act and the rules and regulations of
the commissioner.

GRIMM ALFALFA—After Sept. 1st, 1930, no
alfalfa seed shall be sold in Minn. as
"Grimm" alfalfa in amounts of 30 pounds
or more, except in sealed sacks bearing labels
of the seed certification agency of the state
in which the seed was grown.

The name "GRIMM" when used to desig-
nate the variety of alfalfa and referring to
the seed of alfalfa shall mean and refer
only to alfalfa seed, which may be traced
through definite lineage to known Grimm
alfalfa fields in Carver county, Minnesota.
The size of the label shall not be less than
two inches by four inches. Type not less
than 8 point Gothic caps.

SUGAR BEETS and mangels shall be regarded
as agricultural seeds and labeled as such.

MISSISSIPPI

Law of 1941, Regulations Effective 1943.

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Every lot of 5 pounds or more

1. Common name and variety.
2. Net weight.
3. Lot number. (Regulation.)
4. Percentage of pure seed.
5. Percentage of weed seeds. Prohibit if in
excess of 2½%. Dallas grass seed, car-
pet grass seed and common lespedeza, 5%.
6. Percentage of other crop seed. (Regula-
tion.)
7. Percentage of inert matter. (Regulation.)
8. Name and number per pound of each
noxious weed present singly or collectively
in excess of:
 - (a) One in each 5 grams.
(See page 106, group A.)
 - (b) One in 25 grams.
 - (c) One in 100 grams.
9. Percentage of:
 - (a) Germination, exclusive of hard seeds.
 - (b) Hard seeds. (Regulation.)
 - (c) Month and year of test, provided not
over 180 days prior to date of sale.
10. Where grown.
11. Full name and address of person responsible
for the label.

(B) Mixtures of agricultural seeds (by regulation every lot)

1. That such seed is a mixture.
2. Net weight.
3. Lot number. (Regulation.)
4. Name and percentage of each agricultural
seed present in excess of 5% of total
mixture.

5. Percentage of weed seeds. Prohibit if in
excess of 2½%. Dallas grass seed, carpet
grass seed and common lespedeza 5%.
6. Percentage of other crop. (Regulation.)
7. Percentage of inert matter. (Regulation.)
8. Name and number per pound of each
noxious weed seed present singly or col-
lectively in excess of one seed in each 15
grams of the mixture.
9. For each agricultural seed present in excess
of 5% give:
 - (a) Percentage of germination, exclusive of
hard seeds.
 - (b) Hard seeds. (Regulation.)
 - (c) Month and year of test, provided not
over 180 days prior to the date of sale.
10. Where grown.
11. Full name and address of person responsible
for the label.

(C) Vegetable seed. Each separate con- tainer

1. Name of kind and variety.
2. (a) Year during which seeds were grown or
(b) Percentage of germination, hard
seed if present and calendar month and year
of test. (Regulation.)
3. For seeds germinating less than the stand-
ard last set by the Association of Official
Seed Analysts in addition to (b) shall
show the words "Below Standard." (Reg-
ulation.)
4. Name and address of party responsible for
the information given.

Melons, Peas and Beans included under
agricultural seeds

NOXIOUS WEEDS

Wild onion; Bermuda grass; Johnson grass; dodder; hawkweed; bindweed; nut grass or cocoa grass; dock and plantain.

SEED LABORATORY AND TESTS

State Seed Laboratory, State College.
A. D. Suttle, Analyst, State College, Mississippi.

Any citizen of Mississippi has the privilege of submitting not more than 10 samples of agricultural and vegetable seeds for free test and analysis in any one year. Charges to non-residents to be fixed by the Commissioner of Agriculture.

ENFORCEMENT

State Department of Agriculture, Jackson.
Si Corley, Commissioner of Agriculture.
J. M. Dean, Chief Inspector.

Seedsmen must secure permit of Commissioner of Agriculture annually, \$1.00 for each seedsman registered and 25 cents for each agent.

WITHDRAW FROM SALE.

Seeds not having a reasonable viability, or that are extremely impure, notwithstanding that they may be properly labeled, shall be withdrawn from sale when, in the opinion of the Commissioner such withdrawal is in the interest of normal crop production.

SEIZURE OF SEED.

The Commissioner of Agriculture may seize and hold any lot of agricultural or vegetable seeds found to violate any of the provisions of the seed act until the law has been complied with and said violation otherwise legally disposed of.

ADDITIONAL FEATURES

Notice of Shipment:

- (a) Notice of shipment of agricultural or vegetable seeds shall be mailed within 24 hours from shipping date and shall bear:
- (1) Name and address of shipper.
 - (2) Name and address of person to whom shipped.
 - (3) The amount.

- (4) The kind and variety of seed.
- (5) The lot numbers of seed.

- (b) Notice of the location of so-called commission boxes of packet seed shall state:
- (1) Number of boxes.
 - (2) Number and size of packages in each.
 - (3) Their classification as to kinds of seed contained therein.
 - (4) Name and address of shipper and party to whom delivered.

Size of analysis tag shall be $4\frac{3}{4} \times 2\frac{3}{8}$ inches, or equivalent in square inches.
All information required an analysis tag shall be placed on one side of the label without intervening matter.

The date on the analysis tags should be the date the germination test was completed.

A complete analysis totaling 100% must be given. Blank spaces on a form tag or incomplete analysis are not permissible.

Abbreviation of names of the variety and kind of seed is not permissible.

Place of origin shall not be used as part of varietal name and kind of seed, as Miss. oats. Modifying words or phrases shall not be used in connection with the variety, as "type," "for forage purposes," etc.

Brand names, designs, grades or pictures indicating a contradiction to any part of the analysis shall not be permitted.

Different varieties of the same kind of seed, when in quantities less than 5%, will be considered other crop seed.

Invoices and records of purchase or sale of all seed by the dealer or seedsman shall be accessible for examination by authorized agent of the Department of Agriculture for a period of 3 years.

Trucks or other motor conveyors transporting seed for sale on the public highways shall have available for examination a bill of lading, waybill, or delivery receipt showing (1) the name of the shipper or party from whom purchased; (2) the name and address of the party to whom seeds are to be delivered; (3) the kind and amount of each separate kind of seed and (4) the name of the truck driver and truck line making the delivery.

Farmer seed sold off the premises to be used for planting purposes must be tagged. Seeds

gathered in elevator or other establishments to be sold by farmers or others are subject to the act.

Express, mail and freight, including truck deliveries to consumers of seed shall also be subject to provisions and rules and regulations pertaining to the enforcement of the Seed Law.

New analysis tag bearing the name of the vendor or other party responsible shall be placed on seed after the original test date becomes 180 days old.

Worthless seed may not be sold or given away for planting purposes. Seed will be considered worthless if it contains in excess of 2½% total weeds or 300 noxious weeds per pound, or is of excessively low germination or mislabeled seed, whose variety is unadapted and unsuited for seeding purposes in Mississippi.

Seeds treated with fungicides shall show on the label the words "Poison Treated" in not less than ¼-inch face red type.

Minimum germination. No agricultural seed except grasses, unscarified legumes, garden seed listed in the Standards for Germination and seed released by the U. S. customs shall be offered for sale if the germination is below 60%.

Excessive Noxious Weeds. Seeds containing more than 200 noxious weeds per pound shall be labeled in red ink in not less than 12 point type "Excessive Noxious Weeds." Such excess shall not exceed 300 per pound.

Seed labeled or sold as "Certified," "Registered" or "Pedigreed" must have been certified or registered and inspected by an officially authorized agency and cannot be sold in Mississippi unless the party selling shall have registered with the Mississippi Department of Agriculture Seed Laboratory the lot number, variety and kind, name and address of the grower, and the history of the seed.

False wild oats will be considered weeds.

Permits. All seed permits expire December 31 of each year. Failure to secure permit by March 1 will incur a penalty equivalent to the cost of the license; anybody selling seed required to be tested and tagged is required to have a permit.

HOPSON PLANTING COMPANY

(ESTABLISHED SINCE 1852)

"In the Heart of the Mississippi Delta"

We Specialize in the Production of

White CLOVER SEED Dutch
Certified COTTON SEED Stoneville 2-B

Our extremely fertile alluvial soils and favorable climate are
productive of the highest quality cotton and clover seeds

CLARKSDALE, MISSISSIPPI

NOTE: Our supply of all seeds is exhausted. However, we hope to be able to
fill your requirements next season



FOR
**POP CORN
 BIRD SEED
 FARM SEED
 GRASS SEED**

see
PRUNTY SEED & GRAIN CO.

620 N. Second
 St. Louis, Mo.

In Our 69th Year of Seed Service

**Noxious Weed Free
 High Germination
 NEW CROP FANCY
 KENTUCKY
 BLUE GRASS**

Harvested, cured, and processed under our personal supervision to insure maximum germination.

Specially Cleaned to eliminate noxious weeds.

Your critical trade will appreciate our product.

▼
**KELLOGG-KELLY
 SEED CO.
 ST. JOSEPH, MISSOURI**

NEW MEXICO

Law of 1919

INFORMATION REQUIRED ON ANALYSIS TAGS

(Not less than 8 point Gothic caps)

(A) Agricultural seeds. One pound or more.

1. Commonly accepted name of kind and variety.
2. Percentage of all foreign seeds combined in such agricultural seeds.
3. Percentage of inert matter.
4. Percentage of each noxious weed present.
5. Percentage of germination of such agricultural seed together with the month and year tested.
6. County where grown if in this state.
7. Name and address of vendor.

(B) Mixture not mentioned.

(C) Vegetable seed not included under law.

NOXIOUS WEEDS

Quack grass; fanweed or French weed; mustard; wild oats; dodder.

SEED LABORATORY AND TESTS

Seed Laboratory, New Mexico State College of Agriculture and Mechanical Arts, Department of Agronomy, at State College, New Mexico.

J. C. Overpeck, Professor Agronomy.

Tests—Residents of the state may send samples for tests to the New Mexico College of Agriculture which shall be reported upon free of charge not to exceed 6 tests in any calendar month.

ENFORCEMENT

Board of Regents of the New Mexico College of Agriculture and Mechanic Arts.

MISSOURI

Law 1938, Rules and Regulations
 1942

INFORMATION REQUIRED FOR:

(A) Agricultural seeds. Each lot one pound or more.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Name of each noxious weed seed and number per ounce of the seeds in groups Ba and b and per pound in groups Bc and d (page 106-B) present singly or collectively in excess of:
 - (a) One in 5 grams.
 - (b) One in 25 grams.
 - (c) One in 100 grams.

(See page 106, group A.)

5. Percentage of germination (including hard seeds) together with month and year tested. Test cannot be over 9 months old.
6. Percentage of hard seeds.
7. Name of state and county (if field corn) where grown. If unknown, a statement to that effect.
8. Full name and address of vendor together with the vendor's "Missouri Permit No. ...".

(B) Seed Mixtures.

1. That such seed is a mixture.
2. Name and percentage of each kind present in excess of 5% by weight of the total.
3. Percentage of weed seeds.
4. Percentage of inert matter.
5. Name and number of each noxious weed present.
6. Percentage of germination of each kind present in excess of 5% by weight. Test cannot be over 9 months old.
7. Full name and address of vendor together with vendor's "Missouri Permit No. ...".

(C) Vegetable Seeds. Each separate container.

1. The kind of seed and variety.
2. Percentage of germination together with the month and year tested, if the germination is below the Missouri Standard. (See page 102 for standards.) Statement "Below Standard." Test cannot be over 9 months old.
3. Full name and address of the packeter.
4. No label required on vegetable seed sold and delivered directly to purchaser from a container which is labeled.
5. If the container holding the small packets of vegetable seeds is labeled with the Missouri Permit Number, each individual packet need not be so labeled.

(D) Hybrid Seed Corn. Each lot or package.

1. Hybrid seed corn shall be the seed of the first generation or a control cross involv-

ing one, two, three or four different inbred lines of corn or their combinations and shall be restricted to seed of top crosses, single crosses, three-way crosses and double crosses.

2. Label the same as Agricultural Seeds.
3. The following information besides that required under (A) shall be given:
 - a. Name and number by which the hybrid is designated.
 - b. The words "top cross hybrid," "single cross hybrid," "three-way cross hybrid" or "double cross hybrid," as the case may be.

NOXIOUS WEEDS

PROHIBITED—Canada thistle; Johnson grass; Field bindweed—*Convolvulus arvensis*.

NAME AND NUMBER—Quack grass; dodder; Russian thistle; wild carrot; buckhorn and other varieties of plantain; wild onion; red sorrel; ox-eye daisy; garlic; docks (*Rumex* spp.).

LABORATORY

State Seed Testing Laboratory, Jefferson City, Mo. J. W. Kuhler, State Seed Administrator, in charge.

Tests. Only 2 samples, presented by any citizen of this state, will be tested free during any one calendar month. Relabeling seed. Any person, firm or corporation possessing a seedsmen's permit shall have the right to relabel seed having a germination date of more than 9 months old, after it has been retested.

ENFORCEMENT

John W. Ellis, Commissioner of Agriculture. Permit to be secured annually at a cost of \$1.00. Application for permit to the Department of Agriculture. Permits expire December 31st of each year. Permit number must be on each container.

ADDITIONAL FEATURES

"Each container" means each and every packet containing seeds.

Hard Seeds—Law includes hard seed in per cent of germination and requires separate statement. Any lot of seed of more than 10 pounds sold from bulk direct to the purchaser shall be accompanied by a copy of the label attached to the container of the bulk lot of seed.

Hemp (*Cannabis sativa*) shall always be considered a weed when found as an incidental seed.

Any seed treated with a substance poisonous to human beings or animals shall show on the label or a separate tag the word "poison" or "treated" or "poison treated."

Read **SEED WORLD** for
 News of Crops and Markets

MONTANA

Law of 1913 and Amendments to 1939

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural seeds. One pound or more.

1. Lot number or other distinguishing mark.
2. Commonly accepted name.
3. Variety; if unknown, state "Unknown."
4. Percentage of pure seed.
5. Percentage of weed seed.
6. Percentage of inert matter.
7. Percentage of other crop seed.
8. Name and number per pound of noxious weeds present in excess of:
 - (a) One in 5 grams.
 - (b) One in 25 grams.
 - (c) One in 100 grams.
 (See page 106, group A.)
9. Percentage of germination, together with date of test. In cases where there are hard seed, these shall be stated separately with the provision that any portion or all the per cent of such hard seed may be added to the per cent of germination and stated as "total live seed".
10. Name of state where grown.
11. Name and address of vendor.

(B) Mixtures. One pound.

1. Name of mixture.
2. Lot number or other distinguishing mark.
3. Name and percentage of each kind of agricultural seed present in excess of 5% of total mixture.
4. Percentage of weed seeds.
5. Percentage of inert matter.
6. Percentage of other crop seeds.
7. Name and number per pound of noxious weeds present singly or collectively in excess of one seed in each 15 grams.
8. Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested. In cases where there are hard seed, these shall be stated separately with the provision that any proportion or all the per cent of such hard seeds may be added to the per cent of germination and stated as "total live seed".
9. Name and address of vendor.

(C) Vegetable seed are not included in the law.

NOXIOUS WEEDS

Quack grass; fanweed or French weed; wild oats; dodder; Canada thistle; wild mustard; wild morning glory; white top; leafy spurge; perennial sow thistle; Russian knapweed; blue lettuce.

SEED LABORATORY AND TESTS

Montana Grain Inspection Laboratory, Agricultural Experiment Station, Bozeman, Montana.
W. O. Whitcomb, Analyst.
Fees—Residents of Montana receive 5 free samples each year. A charge of 50 cents each will be made upon additional samples. Purity analysis of special mixtures will be made at the rate of 75 cents per hour of actual time required.

ENFORCEMENT AND REGULATIONS

Enforcement under Department of Agriculture Helena, Montana
J. T. Kelly, Commissioner.
When blank spaces on the label are unfilled, it shall be deemed to imply the word "none". (part of the law)
Classification of seeds.

1. *Agricultural seeds* shall be seeds which, before the removal of weed seed and inert matter, shall be 75% pure seed, except in grass seed which contain a high per cent of empty glumes and is otherwise of good quality.
2. *Mixed agricultural seed* shall be seeds which, before the removal of weed seed and inert matter, consists of 75% or more of agricultural seeds of two or more kinds in excess of 5% each. Grains for which Federal Standards have been fixed shall be classed as to mixtures of the individual grains but not as mixed grain, and shall be designated as provided for in the Federal Standards.
3. *Screenings* shall be seeds which, before the removal of weed seeds and inert matter, consist of less than 75% agricultural seeds.

SPECIALIZING

IN

KOREAN LESPEDeza

CARLOTS OR LESS



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KANSAS CITY 6, MO.

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Carlots—Bag Lots—Truck Loads

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*Alfalfa	Meadow Fescue	Reed Canary
*Red Clover	Ky. Blue Grass	Sunflower
Sweet Clover	Orchard Grass	Other Grains
Lespedeza	Blue Grama	Ensilage Corn
White Clover	Wheat Grass	Seed Corn
Other Clovers	Other Grasses	Hybrid Corn
Bermuda Grass	Soybeans	Rape
Lawn Grass	Cowpeas	Canary
Red Top	Sudan Grass	Popcorn
Timothy	Cane	Bird Seed
Brome Grass	Millets	

* U. S. Verified Origin

ED. F. MANGELSDORF & BRO., INC.

Wholesale Field and Grass Seeds

Write for
SAMPLES & PRICES

ST. LOUIS 4

MISSOURI

CABLE ADDRESS: EMBRO, ST. LOUIS

Such screenings shall be designated according to the kind or kinds of seed present. Local dealer may use the wholesaler's label for only ninety days provided it complies with the Montana labeling requirements. Seed labels complying with the Montana Seed Law may be purchased from the Montana Grain Inspection Laboratory at \$1.00 per 100 or 2 cents each in lesser amounts.

4. **Hybrid Seed Corn** shall be seed of the first generation of a cross involving two, three or four different inbred lines of corn or their combinations, and shall be restricted to seed of single crosses, these in turn being defined as follows: 1. Single cross—The first generation of a hybrid between two inbred lines. 2. Three-way cross—The first generation of a hybrid between a single cross

and an inbred line. 3. Double cross—The first generation of hybrid between two single crosses.

The name or number by which the hybrid seed corn is designated shall be plainly written or printed on the label of every lot, parcel or bag of seed corn sold as hybrid seed, in addition to the labeling requirements specified in Section 3594. The pedigree of hybrid corn and the name of breeder who developed each inbred line involved in the cross shall be filed with the Montana Grain Inspection Laboratory of the Montana Agricultural Experiment Station at Bozeman by the wholesaler or vendor of every lot of hybrid seed corn before such is offered for sale in Montana for seeding purposes.

- (a) one seed in each 5 grams (see page 106 group A).
- (b) one seed in each 25 grams.
- (c) one seed in each 100 grams.

6. Commonly accepted name of each discernible disease and the percentage of seeds infected by such disease and percentage of spores, sporeballs or other propagating organs of fungi responsible for disease present.
7. Percentage of germination, together with the month and year tested.
8. No noxious weeds present.
9. Name and address of vendor.

(B) Mixtures of Alsike and Timothy, Alsike and White Clover, Red Top and Timothy, or Alsike and Red Clover. One pound or more.

1. That such seed is a mixture.
2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
3. Total number and kind of secondary noxious and common weed seeds present in each pound.
4. Percentage of inert matter.
5. Name of each secondary noxious weed present either singly or collectively in excess of one seed in each 15 grams of such mixture.
6. Commonly accepted name of each discernible disease and the percentage of seeds infected by such disease and percentage of spores, sporeballs or other propagating organs of fungi responsible for disease present.
7. Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested.
8. No noxious weeds present.
9. Name and address of vendor.

(C) Special Mixtures. One pound or more.

1. That such seed is a special mixture.
2. Name and percentage of each kind of agricultural seed present in the proportion of 5% or more of the total mixture.
3. Total number and kind of secondary noxious and common weed seeds present in each pound.
4. Percentage of inert matter.
5. Name of each secondary noxious weed present either singly or collectively in excess of one seed in each 15 grams.
6. Commonly accepted name of each discernible disease present and the percentage of seeds infected by such disease and percentage of spores, sporeballs or other propagating organs of fungi responsible for disease present.
7. Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested.
8. No noxious weeds present.
9. Name and address of vendor.

(D) Vegetable included as agricultural seed. Label as under (A) above.

(E) White or Irish potatoes sold, offered or exposed for sale as Certified Seed. One pound or more.

1. Variety.
2. Percentage of inert matter.
3. That the potatoes have passed field and bin inspections necessary to qualify as BLUE TAG, BLUE TAG single drop or RED TAG field inspected seed.

PROHIBITS FROM SALE

Seed containing noxious weed seeds. No tolerance allowed.

NOXIOUS WEEDS. NO TOLERANCE ALLOWED

Camel thorn—*Alhagi camelorum*; White top or Hoary cruss—*Lepidium draba*, *L. repens*, *Hyemenophya pubescens*; Klamath weed—*Hypericum perforatum*; Russian knapweed—*Centaurea repens*; Leafy spurge—*Euphorbia esula*; Sow thistle—*Sonchus arvensis*; Canada thistle—*Cirsium arvense*; Iberian star thistle—*Centaurea iberica*; Purple star thistle—*Centaurea calcitrapa*; Yellow star thistle—*Centaurea solstitialis*; Morning-glory—*Convolvulus arvensis*; Austrian field cross—*Roripa austriaca*; Buffalo-bur—*Solanum rostratum*.

SECONDARY NOXIOUS WEEDS

Five-hooked bassia—*Bassia hyssopifolia*; Crabgrass—*Digitaria sanguinalis*, *D. ischaenium*; Charlock—*Brassica arvensis*; Fanweed—*Thlaspi arvense*; Sandbur—*Cenchrus pauciflorus*; Horse-nettle—*Solanum carolinense*, *S. elaeagnifolium*; Puncture vine—*Tribulus terrestris*; Daddies—All species.

SEIZURE OF SEED. Whenever the state quarantine officer or his deputies receive information that agricultural seeds, or mixtures of the same, are being sold, offered or exposed for sale in the state in violation of any of the provisions of this

NEBRASKA

Act As Revised to 1940, Rules and Regulations to 1940

INFORMATION REQUIRED ON ANALYSIS TAG

(All tags to be approved by Department of Agriculture and bear printed words, "State of Nebraska approved Official Label.")

(A) Agricultural Seeds. Ten pounds or more.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Percentage of other crop seed (regulation not in the law.)
5. Percentage of inert matter (regulation not in the law.)
6. Name and number per ounce of noxious weed seeds present singly or collectively in excess of:
 - (a) One seed in each 5 grams. (See page 106, group A.)
 - (b) One seed in each 25 grams.
 - (c) One seed in each 100 grams.
7. Percentage of:
 - (a) Germination.
 - (b) Hard seeds. (Regulation.)
 - (c) Month and year of test.
 Following (a) and (b) "Total Germination and Hard Seed" may be given if desired.
8. Where grown.
9. Name and address of vendor.

"hybrid" unless it answers to the following description:

Hybrid seed corn shall be seed of the first generation of a cross involving two, three or four different inbred lines of corn or their combinations and shall be restricted to seed of single crosses, three way crosses and double crosses.

1. Single cross—The first generation hybrid between two inbred lines.
2. Three way cross—The first generation hybrid between a single cross and an inbred line.
3. Double cross—The first generation hybrid between two single crosses. The cross mentioned above shall be produced by cross fertilization, controlled either by hand or by detasseling under isolation at the proper time.

The cross mentioned above shall be produced by cross fertilization, controlled either by hand or by detasseling under isolation at the proper time.

NOXIOUS WEEDS

PROHIBITS SEED, GRAINS, OR FEED CONTAINING:

Bind weed—*Convolvulus arvensis*; Canada thistle—*Carduus arvensis*; leafy spurge—*Euphorbia esula*; puncture vine—*Tribulus terrestris*; perennial peppergrass—*Lepidium draba*; Russian knapweed—*Centaurea picris*.

GIVE NAME AND NUMBER PER OUNCE OF THE FOLLOWING WEEDS WHEN PRESENT SINGLY OR COLLECTIVELY IN EXCESS OF THE ALLOWANCE UNDER (A) 6; (B) 6; (C) 5.

Quack grass—*Agropyron repens*; Dodder—*Cuscuta* spp.; Wild oats—*Avena fatua* and charlock or wild mustard—*Brassica arvensis*.

SEED LABORATORY AND TESTS

Seed Laboratory—In Department of Agriculture, State Capitol Building, Lincoln, Nebraska. R. C. Kinch—Analyst.

Tests—Not more than 5 samples for purity (including only one special mixture, bluegrass, red top, or orchard grass) and 5 samples for germination are free in any one month.

For additional tests, the charges are as follows:
 All germination tests.....\$.25
 Purity tests—special mixtures..... 2.00
 bluegrass, redtop or orchard grass. 1.00
 cereals, sorghums, grasses and crops not otherwise listed..... .50
 Examination for noxious weeds..... .25

ENFORCEMENT

Enforcement under Department of Agriculture & Inspection, Capitol Building, Lincoln, Nebraska. Allen G. Burke, director.

ADDITIONAL FEATURES

Hard Seed. In labeling legumes, the germination must be kept separate from the hard seeds and can only include the percentage of seeds that actually sprout and produce normal seedlings. Hard seeds are to be shown under a separate heading. A total of the germination and hard seeds may be shown but this total must be designated as "total of germination and hard seeds" and never as "total" or "total live seed."

(B) Mixtures of agricultural seeds of not more than 2 kinds. Ten pounds or more.

1. That such seed is a mixture.
2. Name and percentage of each agricultural seed present in excess of 5% of total mixture.
3. Percentage of weed seed.
4. Percentage of other crop seed (regulation not in the law.)
5. Percentage of inert matter (regulation not in the law.)
6. Name and number per ounce of each noxious weed present singly or collectively in excess of one seed in each 15 grams.
7. For each kind of agricultural seed present in excess of 5% give:
 - (a) Percentage of germination.
 - (b) Percentage of hard seeds. (Regulation.)
 - (c) Month and year of test.
8. Where grown.
9. Name and address of vendor.

(C) Special Mixtures. Four ounces or more.

1. That such seed is a mixture.
2. Name of each kind of agricultural seed present in proportion of 5% or more of the total mixture.
3. Percentage of weed seed.
4. Percentage of inert matter.
5. Name and number per ounce of each noxious weed present singly or collectively in excess of one seed in each 15 grams.
6. Where grown.
7. Name and address of vendor.

(D) Vegetable seeds not included in law.

(E) Hybrid Seed Corn.

It shall be unlawful to sell any seed corn as

NEVADA

Law 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINERS

(A) Agricultural Seeds. One pound or more.

1. Commonly accepted name and bushel weight.

2. Percentage of other crop seeds.
3. Total number and kind of secondary noxious and common weed seeds present in each pound.
4. Percentage of inert matter.
5. Name and number per pound of each secondary noxious weed either singly or collectively present in excess of,

"Wholesale Field Seeds"



ALFALFA

SWEET CLOVER

SUDAN

MILLETS

ATLAS-SORGO

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Brome Grass, Crested Wheat & Western Wheat

N. BONAHOOM SEED CO.

102-104 South Kansas Avenue

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E. J. BERIDON, JR.

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FIELD PEAS

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SEED CORN

COTTON SEED

DALLIS GRASS

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EDIBLE SOYBEANS

- One of America's largest contract growers of this outstanding new vegetable crop. Bansei, Kanro, Sac, Giant Green varieties.

SOYBEANS

- Iowa's oldest commercial producers for the seed and edible trade. Wholesale lots of all adapted varieties—a bag or carload.

HYBRID SEED CORN

- Contract growers of all adapted hybrids: Iowa 939, 306, 4316, 4249 and many others. Produced under certification if desired. Let us produce and process for you.

SEED GRAINS

- Boone, Marion, Tama oats.

SMALL SEEDS

- Country buyers of timothy seed, red clover, brome grass, other cornbelt crops.

○ ○ ○ ○

Let us utilize the rich, fertile soils of the Cornbelt, the "know-how" of college trained agronomists and our most modern production and processing equipment to produce seed of the above crops for you.

STRAYER SEED FARMS

HUDSON, IOWA

IN THE PEACE GARDEN

There will be a splendid array of the
newer PERENNIALS grown from

McLAUGHLIN'S FINE SEEDS

Why not realize the extra profits to
be made from selling these seeds
available for 1944 in beautiful, eye
appealing color packets. Write now
for samples and terms.

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Always BUYERS and SELLERS
of

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BLUEGRASS
RAPE SEED
CHEWINGS FESCUE
BENTGRASS
MUSTARD SEED
GREEN PEAS
SPLIT PEAS
SUDAN GRASS
CARROT SEED
etc.

act, and are of the opinion that such seed endangers the agriculture of the state, they shall condemn and seize same. Any seed so condemned and seized shall be promptly recleaned, processed into feed or fertilizer, or completely devitalized, as ordered by the state quarantine officer and under his supervision.

SCREENINGS OR CLEANINGS from any commercial grain or agricultural seed as defined in this act, which is offered for sale or sold, or returned to the owner, shall be ground, heated or otherwise processed, so as to completely devitalize same in a manner approved by the state quarantine officer, before leaving the cleaning establishment.

SEED LABORATORY AND TESTS

College of Agriculture, Reno, Nevada.

P. A. Lehenbauer—Analyst.

No charge will be made for tests for Nevada growers and seed dealers unless the privilege is being abused.

Charges for tests for out of state dealers and individuals.

- (a) Corn, peas, beans, cereals and seed of similar type or mixtures of the same, 25c; retests, 25c.
- (b) Alfalfa, clover, timothy, blue grass, red top and seeds of similar type, 50c; retests, 50c.
- (c) For mixtures of seeds in (b), 75c; retests, 75c.

ENFORCEMENT

Under State Department of Agriculture, P.O. Box 1027, Reno, Nevada.
Division of Plant Industry, L. M. Burge.
Supervising Inspector.

NEW HAMPSHIRE

Law of 1943

INFORMATION REQUIRED FOR:

(A) Agricultural Seed. Each Container.

1. Commonly accepted name of:
 - a. Kind, or,
 - b. Kind and variety.
2. Lot number or other lot identification.
3. Percentage of pure seed.
4. Percentage of inert matter.
5. Percentage of weed seeds.
6. Percentage of other agricultural seed.
7. Percentage of:
 - a. Germination exclusive of hard seed.
 - b. Hard seed.
8. Month and year of test. Tests for germination shall have been completed within a 9-month period exclusive of the month in which test was completed.
9. Origin of alfalfa, red clover and field corn (except Hybrid). If unknown, so state.
10. Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.
11. Name and number of secondary noxious weed seeds per ounce in groups B a and b and per pound in groups B c and d when present singly or collectively in excess of:
 - a. 1 in each 5 grams. (See page 106, group B)
 - b. 1 in each 10 grams.
 - c. 1 in each 25 grams.
 - d. 1 in each 100 grams.

(B) Mixtures of Agricultural Seeds. Each Container.

1. Same as for unmixed agricultural seeds except it must be called "Mixed" or a "Mixture," and the information required under items (A)1, 3 and 7 shall be given for each component present in excess of 5% in the order of its predominance.

(C) Vegetable Seed. Each Container.

1. Name of kind and variety.
2. For seed which germinates less than the standards last established by the Commissioner of Agriculture, (see page 102 for standards) give in 10 point type:
 - a. Percentage of germination exclusive of hard seed.
 - b. Percentage of hard seed.
 - c. The words "BELOW STANDARDS."
3. Month and year when last tested for germination. Test for germination shall have been completed within a 9-month period exclusive of the month in which test was completed.
4. Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.

NOXIOUS WEEDS.

Primary. Prohibits seed containing any, subject to tolerances.

Bindweed, field—*Convolvulus arvensis*.
Quackgrass—*Agropyron repens*.
Thistle, Canada—*Cirsium arvense*.

INTERNATIONAL SEED, INC.

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MEMBERS [ASSOCIATE] SOUTHERN SEEDSMEN'S ASSOCIATION
MEMBERS ASSOCIATION OF COMMERCIAL ANALYSTS
MEMBERS (ASSOCIATE) PACIFIC SEEDSMEN'S ASSOCIATION

SEEDS

ALFALFA

BARLEY

BERMUDA GRASS

BUR CLOVER

HEGARI-CERTIFIED

HUBAM CLOVER

LADINO CLOVER

MELILOTUS INDICA

MILO MAIZE

RANGE GRASSES

SUDAN GRASS

AND MANY OTHER
WEST COAST SEEDS

ADVANCE SEED CO.

PHOENIX, ARIZ.

Secondary.

- Crab grass—Digitaria sanguinalis.
- Dodder—Cuscuta spp.

PROHIBITS THE SALE, OFFERING OR EXPOSING FOR SALE:

- (A) Seed unless the test for germination shall have been completed within a 9-month period exclusive of the month in which it was completed.
- (B) Agricultural seed containing primary noxious weeds, subject to tolerances.

SEED LABORATORY.

Agricultural Experiment Station.
 Department of Agronomy.
 Durham, New Hampshire.
 Mrs. Bessie G. Sanborn, Analyst.
 Tests. Each resident, company or person, may have 6 purity or germination tests, or 3 purity and germination tests free a year, mixtures not included. A company cannot have 6 tests for each place of business. For samples in excess of these amounts the following charges shall be made:
 Germination
 1. All seeds except grasses (including timothy)25c
 2. All grasses50c
 3. Mixtures, for each ingredient present..25c
 Purity
 1. Cereals50c

- 2. Timothy and other crop seeds (except grasses)75c
- 3. Smaller grasses and mixtures of 2 kinds of agricultural seeds.....\$1.00
- 4. Special mixtures, a charge to cover actual costs minimum.....\$1.25

ENFORCEMENT.

State Department of Agriculture.
 Concord, New Hampshire.
 Commissioner of Agriculture.
 "STOP SALE." Whenever the commissioner shall find a lot of agricultural or vegetable seed which he has reason to believe is in violation of any of the provisions of the law a "Stop Sale" order shall be issued which shall prohibit the further sale of said lot until the law has been complied with or violation otherwise disposed of; however no such order shall be issued or attached without first having given the owner or custodian of such seed an opportunity to comply with the law or to withdraw the seed from sale.
 SEIZURE. Upon recommendation of the commissioner or his duly authorized agents, the court of competent jurisdiction in the area in which the seed is located shall cause the seizure and subsequent denaturing, processing, or destruction to prevent the use for sowing purposes of any lot of agricultural or vegetable seed found unfit for seeding purposes; provided that in no instance shall such disposition be made without first giving the claimant of said seed an opportunity to apply to said court for the release of said seed.

NEW JERSEY

Law 1931

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural seeds. Ten pounds or more.

- 1. Commonly accepted name.
- 2. Percentage of pure seed.
- 3. Number per pound of each noxious weed seed present in excess of one seed in each 5 grams or 90 seeds per pound.
- 4. Percentage of germination together with the month and year tested.
- 5. Name and address of vendor.

(B) Mixtures. Every lot.

- 1. That such seed is a mixture.
- 2. Name of each kind of agricultural seed present in excess of 5% of the total mixture.
- 3. Percentage of foreign seeds (weed seeds and agricultural seeds not present in excess of 5%).
- 4. Percentage of inert matter.
- 5. Number of noxious weed seeds present in excess of one seed in each 5 grams or 90 seeds per pound.
- 6. Name and address of vendor.

(C) Vegetable seeds. One pound or more.

- 1. Name of seed.
- 2. Percentage of germination together with the month and year tested.
- 3. Percentage of inert matter if in excess of 5%.
- 4. Name and address of vendor.

NOXIOUS WEEDS

Quack grass—Agropyron repens; horse nettle—Solanum carolinense; dodder—Cuscuta species; Canada thistle — Carduus arvensis; Russian knapweed—Centaurea picris.

SEED LABORATORY AND TESTS

Seed Laboratory, Agricultural Experiment Station, New Brunswick, New Jersey.
 Jessie G. Fiske, State Seed Analyst.
 Tests—Any citizen of the state may receive a limited number of tests without charge.

ENFORCEMENT

Board of Managers of the New Jersey Agricultural Experiment Station.
 Seizure:
 The State Seed Analyst, or his deputies, may seize and hold any lot, parcel or package of agricultural or vegetable seed found in violation of any provisions of this act or rules and regulations hereunder, until the law or such rules and regulations have been complied with, or said violation otherwise disposed of as herein provided:
 Worthless seed:
 (a) Worthless seed forfeited to the state, to be disposed of. Worthless seed shall be:
 1. Seed of no seeding or feeding value.
 2. Seed containing in excess of 1 noxious weed in every five grams of such seed or 90 per pound.
 (b) Seed not properly labeled shall be withheld until the proper analysis and tags have been provided.
 (c) Seed found to be misrepresented as to kind shall be condemned and its sale prohibited.

NEW YORK

Law of 1922 As Amended 1940

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(A) Agricultural seeds. Every lot.

- 1. The commonly accepted name.
- 2. Percentage of pure seed.
- 3. Percentage of weed seeds. Prohibited if in excess of 1.5%.
- 4. Name and number per pound of each noxious weed present singly or collectively in excess of:
 (a) one seed in each 5 grams.
 (See page 106, group A.)
 (b) one seed in each 25 grams.
 (c) one seed in each 100 grams.
- 5. Percentage of:
 (a) Germination, exclusive of hard seeds.
 (b) Hard seeds. (Regulation.)
 (c) Month and year of test.
- 6. Name and address of vendor.

(B) Mixtures. Every lot.

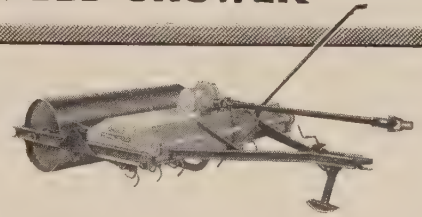
- 1. That such seed is a mixture.

- 2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
- 3. Percentage of weed seeds. Prohibited if in excess of 1.5%.
- 4. Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams.
- 5. For each kind of agricultural seed present in excess of 5% give:
 (a) Percentage of germination, exclusive of hard seed.
 (b) Percentage of hard seeds. (Regulation.)
 (c) Month and year of test.
- 6. Name and address of vendor.

(C) Special mixtures. Every lot.

- 1. That such seed is a mixture.
- 2. Name and percentage of each kind of agricultural seed present in proportion of 5% of the total mixture.
- 3. Percentage of weed seeds. Prohibited if in excess of 1.5%.
- 4. Percentage of inert matter. Prohibited if in excess of 20%.

**THE ONLY COMPLETE
Line of Rotary Tillage
 EQUIPMENT FOR THE
 SEED GROWER -**



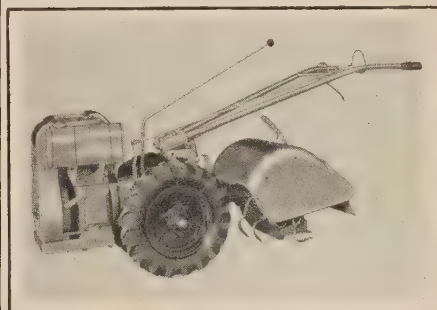
Standard in 2 sizes
 -4 ft. and
 5 ft.



Motor Driven or power take-off from suitable tractor

Ariens Tractortiller is decidedly an implement for the seed grower. It harrows, discs, levels and packs the soil in ONE operation. It does a complete job of fitting the soil after plowing without leaving wheel tracks on the field. Depth of operation up to 12 inches. The revolving tines thoroughly mix and aerate the soil evenly and uniformly.

ARIENS TILLERS



3 models to meet your requirements. Ariens Tiller harrows, as it discs, as it plows—the perfect all-purpose tilling and cultivating combine for seed growers. It saves hours of labor, operates easily in small spaces, producing a completely pulverized level seed bed in ONE operation. Catalog and name of nearest distributor upon request.

**ARIENS CO.
 BRILLION, WISCONSIN**

5. Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams.
6. For each kind of agricultural seed present in excess of 5% give:
 - (a) Percentage of germination, exclusive of hard seeds.
 - (b) Percentage of hard seeds. (Regulation.)
 - (c) Month and year of test.
7. Name and address of vendor.

(D) Vegetable seeds. Each separate container.

1. Kind of seed and the variety.
2. Percentage of germination together with the year seed was tested (using type not smaller than 10 point).
3. Name and address of person or firm that packeted the seed and labeled the same.

(E) Flower seeds. Each separate container.

1. Kind of seed and variety.
2. Name and address of person or firm that packeted the seed and labeled the same.

(F) Tree and Shrub Seeds. Each separate container.

1. The kind of seed, and the variety.
2. The approximate percentage by weight of pure seed.
3. The approximate percentage of germination.
4. The year of collection of such seed.
5. The specific locality (state and county in the United States, or nearest equivalent political unit in the case of foreign countries) in which the seed was collected.
6. The name and address of the vendor of such seeds.

(G) Potatoes. Each separate container.

1. The variety or varietal type.
2. U.S. grade of the contents.
3. Name and address of grower or vendor.

NOXIOUS WEEDS

Quack grass—*Agropyron repens*; wild mustard—*Brassica arvensis* and other *Brassica* species; Canada thistle—*Cirsium arvense*; dodder—*Cuscuta* species; crabgrass—*Digitaria* species; docks—*Rumex* species.

SEED LABORATORY AND TESTS

Seed Laboratory.

New York State Agricultural Experiment Station, Geneva, New York.
M. T. Munn, State Seed Analyst.

ENFORCEMENT

Enforcement—Department of Agriculture, Albany, New York. C. Chester Du Mond, Commissioner of Agriculture.

"STOP SALE."

The commissioner or his authorized agents may remove from further sale or prohibit from sale, any unlabeled seed or any seed which is found to be grossly unclean as to be unfit for seeding purposes until it has been properly cleaned, and may prohibit further sale or destroy after due process of law, seeds which are found to be so weak or low in germination as to be useless for seeding purposes.

ADDITIONAL FEATURES

"Commonly accepted name" shall mean the complete botanical designation commonly accepted by the public and seed trade as Leaming corn, Ithacan oats, Grimm alfalfa, not simply corn, oats and alfalfa.

Germination shall mean the percentage of seeds which are capable of sprouting promptly into normal seedlings. *Hard seeds* as found in legumes may be stated separately and shall not be added to the percentage of germination or used in such a way as to be misleading.

"Seed unfit for seeding purposes" shall be understood to mean those lots which contain noxious weeds in excess of the average commercial grades for that particular season or mixtures containing in excess of 1.5% of troublesome weeds or special lawn seed mixtures containing in excess of 20% of inert matter. These are subject to removal from sale.

Seed stocks showing less than one-half the so-called standard germination as accepted in seed control and seed trade practices shall be considered *too low in germination and unfit for sale*.

The term "hybrid" must not be used in connection with any kind of seed corn unless such stock is the seed of the first generation of a controlled cross between strains of different parentage and involving one or more inbred lines of corn or their combinations.

"Certified Seed." Use of word "certified" limited to seed which has been certified by an official of a State or Federal agency (part of the law).

poses, shall register with the Department of Agriculture the name of such dealer, and shall on the first of January annually obtain a license paying:

- (1) \$25.00 if a wholesaler or a wholesaler and retailer.
- (2) \$10.00 if a retailer with sales in excess of \$100.00 for the calendar year. Each branch of any wholesaler or retailer shall obtain a retail license.
- (3) \$1.00 if a retailer at a permanent location with sales not in excess of \$100.00. (Owners or operators of harvesting or threshing machines operating on a share basis and selling only seed obtained in this manner shall be exempt from obtaining a license.)

Stamps.

Inspection stamps of \$1.00 shall be purchased from the Department of Agriculture for each 72 dozen packets or packages of vegetable or flower seeds or portion thereof.

- (1) Stamps shall be secured by the producer, grower, jobber or other person, firm or corporation shipping such seed into the state before shipment to agent or retailer, and furnished to said agent or retailer for attachment.
- (2) Producer, grower or jobber or other person, firm or corporation, residing within this state shall secure said stamps and attach to the display case before said seed is offered for sale.
- (3) When package seed of one kind or variety are offered or exposed for sale in boxes or display cases not in excess of three dozen packages, a ten cent stamp shall be purchased and attached to said box.

Tags.

- (1) A North Carolina seed analysis tag purchased from the Department of Agriculture for 1 cent each shall be attached to each container of 10 pounds or more. If shipped into the state, said tag shall be secured by person shipping such seed.
- (2) Seed containing more than 500 dodder seed per pound shall be designated as "Low Grade Seed" and shall be labeled with a red tag.

"STOP SALE." The Commissioner of Agriculture or his authorized agents shall issue "Stop Sale" orders which shall prohibit further sale of any lot of seed which he has reason to believe is being offered or exposed for sale in violation of any provisions of this act, until the law has been complied with, or said violation otherwise legally disposed of.

WITHDRAWAL FROM SALE. The Commissioner of Agriculture may withdraw from sale seed not having a reasonable viability or that are extremely impure, or that are of distinct low quality otherwise, notwithstanding they may be properly labeled, when such withdrawal is in the interest of normal crop production.

NORTH CAROLINA

Law 1941, Regulations of 1941-43

INFORMATION REQUIRED ON ANALYSIS TAGS

Use North Carolina state tags.

(A) Agricultural seeds. Ten pounds or more.

1. Commonly accepted name of:
 - (a) Kind or
 - (b) Kind and variety.
2. Lot number or other identification number.
3. Percentage of purity.
4. Percentage of inert matter.
5. Percentage of weed seeds. Prohibit if in excess of 3%. Dallis grass and carpet grass 5%.
6. Percentage of other agricultural seeds.
7. Percentage of:
 - (a) Germination, exclusive of hard seed.
 - (b) Hard seed.
 - (c) Month and year of test. The test for germination shall have been completed within nine months prior to sale or exposure for sale.
8. Origin, if unknown it must be so stated.
9. Name and address of person labeling seed, or who sells, offers or exposes seed for sale.
10. Name and number per pound of secondary noxious weed seeds. (Regulation.) Requirements under 3, 4, 5, 6 and 10 shall not apply to cotton, corn and tobacco.

(B) Mixed agricultural seeds. Ten pounds or more.

Same as for unmixed seed, except that it must be called "Mixed" or a "mixture" and the information required under 1, 3, and 7 shall be given for each agricultural seed present in excess of 5%.

(C) Vegetable seeds. Ten pounds or more.

1. Name of kind and variety.
2. Seed which germinates equal to or above the standard last established, the words "NORTH CAROLINA STANDARD" may be used in lieu of the actual germination. For standards see page 102.
3. For seed which germinates less than the standard last adopted give:
 - (a) Percentage of germination, exclusive of hard seeds.
 - (b) Percentage of hard seeds.
 - (c) Month and year of test. The test for germination shall have been completed

within nine months prior to sale or exposure for sale.

(d) The words "BELOW STANDARD."

4. Name and address of person labeling seed, or who sells, offers or exposes seed for sale.

(D) Vegetable seeds.

In containers of less than ten pounds which germinate less than the standard last adopted, shall show the actual germination.

NOXIOUS WEEDS

PRIMARY NOXIOUS WEEDS. PROHIBITED.
Johnson grass—*Sorghum halepense*; bindweed—*Convolvulus arvensis*.

SECONDARY NOXIOUS WEEDS.

Wild onion—*Allium vineale*; corncockle—*Agrostemma githago*; cheat—*Bromus secalinus*; dodder—*Cuscuta* spp.

PROHIBITS THE SALE OF—

1. Seed, unless the germination test shall have been completed within a nine month period.
2. Seed containing Primary noxious weeds subject to the tolerances prescribed in the rules and regulations.
3. Small grains (wheat, oats, rye and barley) containing more than 100 Secondary noxious weed seeds per pound.
4. Seed containing more than 1,000 dodder per pound.
5. Seed containing in excess of 3% of weed seeds except carpet grass and Dallis grass which shall not exceed 5%.

SEED LABORATORY AND TESTS

Seed Laboratory, Department of Agriculture, Raleigh.

J. W. Woodside, Botanist.

Tests—Free to citizens of the state. To non-residents the fee for purity 25 cents and for germination 25 cents.

ENFORCEMENT

Enforcement—Department of Agriculture, Raleigh, North Carolina.
D. S. Coltrane, Assistant to Commissioner.

Licensing.

Each seed dealer selling, offering or exposing for sale in, or for export from this state, of any agricultural, vegetable or flower seed, other than packet or package seeds, for seeding pur-

NORTH DAKOTA

Act of 1931 Regulations of 1939, Amended 1941

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural seeds. Every lot.

1. Commonly accepted name.
2. Lot number or other lot identification.
3. Percentage of purity.
4. Percentage of inert matter.
5. Percentage of weed seeds.
6. Percentage of other agricultural seeds.
7. Percentage of germination, together with the month and year of test.
8. Where grown—state and county in case of corn, and state in case of alfalfa and clovers.
9. Name and address of vendor.
10. Seed containing noxious weed seeds shall be labeled to show their presence if present, singly or collectively, in excess of: "Prohibited Noxious Weed Seeds"—1 seed in 90 grams. "Primary Noxious Weed Seeds"—1 seed in 20 grams.

(B) Mixtures of two kinds. Every lot.

1. That such seed is a mixture.
2. Name and percentage of each kind present in excess of 5% of total mixture.
3. Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams.
4. Percentage of germination of each kind present in excess of 5% together with the month and year tested.
5. Where grown, state and county in case of corn, and state in case of alfalfa and clover.
6. Name and address of vendor.

(C) Special Mixtures. Every lot.

1. That such seed is a mixture.
2. Name of each seed which is present in proportion of 5% or more of the total mixture.

FOR EXTRA '44 PROFITS

Feature these Fast Moving Nationally Advertised **GERMACO PRODUCTS**

HOTKAPS

Save Crops from Frost

Completely protect plants from destructive frosts, storms, insects—maintain perfect mulch. Increase yield 18% to 51%, ripen plants 3 weeks earlier. Millions used by successful market growers. We predict Hotkaps will be the leading side-line of the seed trade in '44. Backed by national magazine and newspaper advertising.



HARCO SPRAYER

Has revolutionized hand spraying and is again the outstanding hand sprayer for '44. Has many new features. Only professional-type Sprayer priced so low. Now on a real production basis, and backed by national advertising.



HAYES SPRAYER

The Hayes Jr., the Hayes-Ette, and the Hayes Proportioner Hose Sprayers are available. There never has been a self-mixing garden hose sprayer equal to this outstanding line. They're great time savers, effortless to use—and that's why they practically sell themselves on a single demonstration. Backed by national advertising.



FREE

Write for copy of Proof Catalog giving complete details of these fast selling items. Free display material, pamphlets, cuts available. Write today.

GERMAIN'S

Germaco Products Div. 747 Terminal St.
Los Angeles 21, Calif.

HOW ABOUT SOME VITAMIN PREPARATION?

HAVE YOU ANY HORMONES?



WHAT IS A GOOD FOOD FOR MY FLATS?



SOMETHING THAT WILL GET RESULTS BUT ISN'T MUSSY.

SOMETHING TO STIMULATE MY HOUSE PLANTS.

IS THERE A PLANT FOOD I CAN USE THROUGHOUT THE SEASON?

YOU CAN MEET ALL THESE REQUIREMENTS WITH ONE PRODUCT

RORER'S PLANT DINNER

Plant Dinner is an exceptionally good item to have on your counter. Its amazing and quick results have built a healthy, steady demand. You can also use it to meet requests for vitamins, hormones, plant food for garden and house plants all year round. Its quick action, obvious benefits and economy offer you three big talking points.

Order through your wholesaler, or direct to

WILLIAM H. RORER, INC.

Horticultural Division

254 S. Fourth Street Philadelphia 6

Available in

6-oz. cans (cases of 6)

1-lb. cans (cases of 6)

5-lb. cans (singles)

10-lb. cans (singles)

Dealer discount on request. Arresting counter card on direct request.



Field Seeds

ALFALFA

SWEET CLOVER

BROMUS

CRESTED WHEAT
GRASS

Seed Grains

Ask for Quotations

INTERSTATE SEED
& GRAIN CO.

FARGO, NORTH DAKOTA

3. Percentage of weed seed.
 4. Percentage of inert matter.
 5. Name and number per pound of each kind of noxious weed present singly or collectively in excess of one seed in each 15 grams.
 6. Name of county and state where each variety of seed corn in mixture was grown.
 7. Name and address of vendor.
- (D) Vegetable and Flower Seed in lots five pounds or less are excluded from label requirements.

NOXIOUS WEEDS

PROHIBITED NOXIOUS WEEDS

Leafy spurge (*Euphorbia esula*).
Field bindweed (*Convolvulus arvensis*).
Perennial peppergrass or White top (*Lepidium draba*, *L. repens*, *Hymenophyllum pulegioides*).

Russian knapweed (*Centurea pennisylvanica*).

PRIMARY NOXIOUS WEEDS

Quack grass (*Agropyron repens*).
Canada thistle (*Cirsium arvense*).
Perennial sow thistle (*Sonchus arvensis*).
Dodder (*Cuscuta* spp. except *coryli*).

SEED LABORATORY AND TESTS

Seed laboratory, State College Station, Fargo.
Miss Edith Higgins, Analyst.

Any resident of North Dakota may have three free tests per year, additional test fees are:

Purity Tests

Clovers, alfalfa, cereals, flax, corn, beans, peas, etc\$0.50
Grass seeds, or mixtures of grass and/or clover seeds\$1.00

Germination Tests

Each test\$0.50

Fees for non-residents

Purity\$1.50
Germination 1.00

ENFORCEMENT AND REGULATIONS

Enforcement is under
State Seed Dept., State College Station,
Fargo.

R. C. Hastings, Seed Commissioner.

REGULATION (March 11, 1940.)

Sweet clover shall be considered properly labeled:

1. As "White Blossom Sweet Clover" provided the mottled seed content is less than 2%. Such mottled seed may be included in the percentage of purity but must be shown on the tag.
2. As "White Blossom TYPE Sweet Clover"

provided the mottled seed content is less than 5%. Such mottled seed will be included in the percentage of purity.

3. As "Sweet Clover" or "Mixed Sweet Clover" provided the mottled seed content is 5% or more. Such mottled seed will be included in the percentage of purity.
4. As "Yellow Blossom Sweet Clover" provided the mottled seed content is 11% or more. Such mottled seed will be included in the percentage of purity.
5. As "Yellow Blossom TYPE Sweet Clover" provided the mottled seed content is in excess of 7%. Such mottled seed will be included in the percentage of purity.

Any other sweet clover labelled as a specific variety, such as Artic, Alpha, or Madrid, shall conform to the characteristics of that variety.

HYBRID CORN

Regulatory Announcement No. 17

- a. The use of the term "hybrid", in connection with seed corn offered or exposed for sale shall be restricted to first generation stock of a cross, the parentage of which involves one or more inbreds.
- b. An *Inbred Line* shall consist of a line of corn that has been developed as a result of about five generations of controlled self-fertilization and selection, and/or when the inbred line is relatively uniform and homozygous.
- c. A *Foundation Hybrid* (single cross) shall consist of the first generation of a hybrid between two inbred lines to be used in the production of hybrids containing more than two inbred lines, and/or an advance generation single cross (hybrid) which has been grown under controlled conditions, certified and designated to be used as a foundation hybrid.
- d. A *Commercial Hybrid* is the first generation cross to be planted for the production of feed or for any other commercial or farm use except for seed. It may be any one of the following:
 - (1) A *Double Cross*—the first generation of a cross between two foundation hybrids (single crosses).
 - (2) A *Three-Way Cross*—the first generation of a cross between a foundation hybrid (single cross) and an inbred line.
 - (3) A *Single Cross*—when the single cross is to be used for commercial production

HENRY HIRSCH & SONS

INCORPORATED

Wholesale

FIELD SEEDS

Buyers—Sellers

CLOVER, ALFALFA, ALSIKE & TIMOTHY

HENRY HIRSCH & SONS, INC. TOLEDO, O.

and not for the production of double or three-way crosses.

- (4) A *Top Cross*—the first generation of a cross between an inbred line and an open-pollinated variety.

The State Seed Commissioner is authorized to be guided by such rules as have been adopted by the Corn Certification Committee of the International Crop Improvement Association and by suggestions received from the North Dakota Agricultural Experiment Station.

The Seed Commissioner is authorized to conduct all work in connection with the registration and certification of hybrid corn on a cost basis.

- FEES**
 a. Field inspection fee for each field: First acre, \$3.00; each additional acre up to 25 acres, 75 cents per acre; and each additional acre OVER 25 acres, 50 cents per acre.
 b. Certification tags will be supplied at the

rate of one and one-half cents per bushel.

- c. The entire acreage of inbred lines and foundation hybrids (including pollen parent) will be considered as one combination for the purpose of determining charges on these. However, the charge for these will equal one and one-half times the amount indicated in the above table.

The vendor of hybrid seed corn shall be responsible for there being on file with the State Seed Commissioner an affidavit giving the name or number by which it is to be sold, and further that the inbreds involved in the hybrid are the same each time the hybrid is so designated.

In addition to labeling requirements ((A) above), every lot, package, parcel or bag of seed corn sold as "Hybrid" corn shall have on the tag the name and/or number by which the hybrid is designated.

OHIO

As Amended 1937

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural seeds. Every lot.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Name and number per ounce of each kind of noxious weed present singly or collectively in excess of (Prohibit 3% or over)
 - (a) one seed in each 5 grams.
 - (See page 106, group A.)
 - (b) one seed in each 25 grams.
 - (c) one seed in each 100 grams.
5. Percentage of:
 - (a) Germination, exclusive of hard seeds.
 - (b) Hard seeds.
 - (c) Month and year of test. Test date shall not be over 300 days old. Tolerance of not over 10% allowed.
6. Where grown on red clover and alfalfa.
7. Name and address of vendor.

(B) Mixtures. Every lot.

1. That such seed is a mixture.
2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture. (If any agricultural seed named on the label is present in amount less

than 5%, the percentage of such seed shall be given.)

3. Percentage of weed seeds. (Prohibit 3%.) (If inert matter exceeds 15% sale is prohibited.)
4. Name and number per ounce of each kind of noxious weed seed present singly or collectively in each 15 grams.
5. For each kind of agricultural seed named on the label give:
 - (a) Percentage of germination, exclusive of hard seed.
 - (b) Percentage of hard seed.
 - (c) Month and year of test. Test date shall not be over 300 days old. Tolerance of not over 10% allowed.

(C) Vegetable seeds.

1. In containers of less than one pound, if germination is equal to or above germination standards. (See page 102.)
 - (a) Kind and variety.
 - (b) Name and address of person, firm or corporation responsible for labeling on the container.
2. In containers of one pound or more and container of less than one pound when the seed germinates less than the Ohio germination standard. (See page 102.)
 - (a) Kind and variety.

SEEDS

originating in

MONTANA—DAKOTA

Northern Minnesota and Western Canada move in transit through this natural gateway.

We specialize in Straight and Assorted Cars of these origins.

Phone—Wire or Write for Prices

NEWDAY SEEDS, INC.

FARGO, N. D.

McCULLOUGH'S SEEDS

FROM THE HEART OF THE PRODUCING SECTIONS

REFINERS

**FARM-GRASS
SEEDS**



WHOLESALE

GROWERS

**VEGETABLE
SEEDS**

SINCE 1838

THE J. CHAS. McCULLOUGH SEED CO.
CINCINNATI, OHIO

Johnson grass—Sorghum halpense.
 Nut grass—Cyperus rotundus.
 Onion, wild or garlic—Allium spp.
 Sorrel, red or sheep—Rumex acetosella.
 Thistle, Canada—Cirsium arvense.

Secondary

Buckhorn—Plantago lanceolata.
 Buckwheat, wild or cornbine—Polygonum convolvulus.
 Carrot, wild—Daucus carota.
 Cockle, corn—Agrostemma githago.
 Darnel—Lolium temulentum.
 Morning glory—Iponoea spp.
 Mustards, wild—Brassica spp.
 Nightshades, wild—Solanum spp.
 Oats, wild—Avena fatua.
 Plantain, bracted—Plantago aristata.
 Quack grass—Agropyron repens.
 Sowthistle, perennial—Sonchus arvensis.
 Thistle, Russian—Salsola pestifer.

PROHIBITS THE SALE, OFFERING OR EXPOSING FOR SALE OF:

1. Agricultural and vegetable seed unless the test for germination shall have been completed within a 9 month period.
2. Agricultural and vegetable seed and vegetable plants unless a license has been obtained.
3. Agricultural seed containing:
 - a. Bindweed.
 - b. 25 Johnson grass per pound. (If between 25 to 90 per pound mark in 20 point red letters "EXCESSIVE NOXIOUS WEEDS.")
 - c. 200 dodder per pound. (If between 200 to 500 per pound mark in 20 point red letters "EXCESSIVE NOXIOUS WEEDS.")
 - d. Each of the other Primary and Secondary Noxious Weeds limited to 400 per pound. (If between 400 to 600 per pound mark in 20 point red letters "EXCESSIVE NOXIOUS WEEDS.")
 - e. Combined noxious weed seeds are limited to 1000 per pound. (If total is from 1000 to 2000 per pound mark in 20 point red letters "EXCESSIVE NOXIOUS WEEDS.")
- *4. Agricultural seed if germination, including hard seed, is below 70%.
- *5. Agricultural seed if percentage of inert matter is more than 10%.
- *6. Agricultural seed if percentage of weed seeds is more than 2%.
- *7. Agricultural seed if percentage of purity is below 90%, except mixtures.

* Pasture grasses excepted.

SEED LABORATORY AND TESTS

State Seed Laboratory, State Board of Agriculture, Oklahoma City, Oklahoma.
 Parks A. Yeats, State Seed Analyst and Plant Quarantine Officer.
Tests. Four samples per year will be analyzed free for each person or firm in the state. Beyond four samples the following charges will be made:
 Germination tests50c
 Purity test on:
 Sorghum, vetches, cereals, beans, peas and seed of similar size.....50c
 Sudan grass, proso, flax, alfalfa, millet, sweet clover, lespedeza and seeds of similar size...75c

ENFORCEMENT

Joe C. Scott, President State Board of Agriculture, Oklahoma City, Oklahoma.
License. A license shall be obtained by each person, vendor, partnership, firm, corporation, trust, company, society or association selling agricultural or vegetable seed or vegetable plants.
 Each place of business or vehicle from which seed or plants are sold or offered or exposed for sale:
 For retailers\$ 1.00
 For wholesalers 10.00
 Out of state seed dealers reciprocal charge of not less than..... 1.00
State Tags. Any agricultural seed sold, offered or exposed for sale shall have attached a state inspection tag the cost not to exceed .02 for each bagged unit of seed. If in barrels, bulk or other container the fee shall not exceed .02 for each 100 pounds or portion thereof.
"Stop Sale" order or seizure notice will be issued to the merchant, seed dealer, or person in possession of any agricultural or vegetable seed or vegetable plants found by the enforcing officer to be mislabeled or that do not have the Oklahoma State Tag attached or that is otherwise in violation of the law and its rules and regulations, requiring that said seed be held. Said seed shall not be moved without a written notice from the enforcing officer or his authorized representative.
"Seizure." Agricultural or vegetable seed or vegetable plants offered or exposed for sale in violation of the act or rules and regulations shall be subject to seizure by an authorized agent and such seed or plants shall be held at a place designated by him for a period of 60 days, at the end of which time, if no action has been instituted in a court of competent jurisdiction to recover same, said seed or plants shall be destroyed.
 State Permit Tag is required to be attached to each crate, container or flat of vegetable plants sold in Oklahoma. (Plants sold direct at the beds to persons planting them, exempt.)

CRESTED WHEAT GRASS

Standard and Fairway Strain

BROME

Slender Wheat Grass

Western Wheat Grass

Sweet Clover Seed

Northern Alfalfa

▼

VALKER-CHRISTENSEN CO.

Minot, North Dakota

Radway's

SINCE 1875

TESTED SEEDS NOW AVAILABLE...

BEET	LETTUCE
BROCCOLI	ONION
CABBAGE	PARSLEY
CARROT	RADISH
CELERY	SPINACH
CAULIFLOWER	TURNIP

Seeds of known origin, also

FIELD AND GRASS SEED

Cleaners and Packers

Send us your surplus list and new quotations—
 Ask for our price list. Correspondence invited.

I. L. RADWANER SEED CO., Inc.
 NANUET, N. Y. (Rockland Co.—19 miles from George Washington Bridge)
 Trial Grounds and Main Office

Oliger's Seeds

Buyers . . . Sellers

ALL FARM AND GRASS SEEDS

Specializing in

RED CLOVER
ALSIKE CLOVER
TIMOTHY
ALFALFA
BLUE GRASS
RED TOP
WHITE CLOVER
FESCUE'S
BENT GRASSES
LAWN GRASSES

If It's Quality You Want Buy

CHAMPION BRAND

Samples and Prices Upon Request

J. C. OLIGER SEED CO.
 Wholesale Field and Grass Seeds
 36 Cherry St. AKRON 8, OHIO

ADDITIONAL FEATURES

"Notice of Shipment." Any person or firm shipping or transporting or delivering agricultural and vegetable seed for planting purposes or vegetable plants into the state shall notify the State Seed Analyst on date of such shipment or transportation, giving:

1. The name and address of consignee.
2. The kind of seed or plants.
3. The date of shipment.
4. The quantity of shipment.

"Treated Seed." Seed treated with fungicides or any substance poisonous to human beings or animals shall show on a separate tag, the words "POISON" in not less than 1/4 inch red type. Such seed shall not be sold or processed for human or animal consumption.

Cotton seed shipped into Oklahoma:

1. Must have cotton seed permit attached to waybill, bill of lading, or truck receipt.
 - a. Permit obtained by:
 - Conforming to the Cotton Seed Quarantine passed October 7, 1942.
 - Furnishing a certificate of field inspection by an authorized inspector in the state of

origin that field is free from wilt and anthracnose.

2. No cotton seed permitted from any area infested with Pink Boll Worm (*Pectinophora gossypiella*) unless fumigated under the direction of the Federal Government and accompanied by a fumigation certificate.

Sweet Potatoes shipped into Oklahoma must bear a statement signed by a state plant quarantine officer or Federal inspector certifying that the potatoes were grown in a county free from sweet potato weevil or that stock had been carefully inspected.

OREGON

Law 1937

INFORMATION REQUIRED ON ANALYSIS TAGS

(A) Agricultural or turf seed. Tag each lot. Not less than 8 point type.

1. Commonly accepted name.
2. Percentage by weight of pure seed.
3. Percentage by weight of weed seed.
4. Percentage by weight of other crop seeds.
5. Percentage by weight of inert matter.
6. Name and number per pound of noxious weed seeds present.
7. Percentage of germination together with year tested.
8. Percentage of hard seed when present.
9. Country or state where grown.
10. The name and address of the vendor of such seeds.

(B) Mixtures. Tag each lot.

1. That such seed is a mixture.
2. The name and per cent of each kind present in excess of 5% by weight of the total.
3. Percentage of weed seeds.
4. Percentage of inert matter.
5. Name and number per pound of each noxious weed seeds present.
6. Percentage of germination of each kind present in excess of 5% by weight of the total, together with the year tested.
7. The name and address of vendor.

(C) Vegetable seeds.* Each separate container.**

1. Kind and variety of seed.
2. Percentage of germination together with year tested, or in lieu of this requirement the words "Oregon standard germination" may be used, when the percentage of germination is equal to or greater than the established Oregon standards. (See page 102 for standards.)
3. Name and number per pound of each noxious weed seed present.
4. Name and address of person or firm who put up or packeted the seeds and labeled same.

*Beets, Mangels, Turnips, and Rutabagas are classed as agricultural seeds; hence, lots over 1/2 pound should be tagged as such.

**Exceptions which do not need to be tagged:

- (a) Certified or registered seed.
- (b) Vegetable varieties of Peas, Beans, Corn and seed of similar size in packages weighing less than 5 pounds.
- (c) Other vegetable seeds in packets weighing not more than 1/2 pound each.

NOXIOUS WEEDS—Give Name and Number Per Pound

Group I—Prohibited.

White tops—*Lepidium draba*, *Lepidium repens*, *Hymenophyllum pubescens*; Russian knapweed—*Centaurea picris*; leafy spurge—*Euphorbia esula*.

Group II

Prohibited when in excess of one in 50 grams of Alfalfa, Rye Grass and other seeds approximately the same number per pound, or when in excess of one in 25 grams of Alsike, Orchard Grass or other seed of approximately the same number per pound. Dooders—*Cuscuta* spp.; Canada Thistle—*Cirsium arvense*; Johnson grass—*Sorghum halepense*; Quack grass—*Agropyron repens*.

Group III

Prohibited when in excess of four seeds in 5 grams of Red Clover, Sweet Clover or Alfalfa. Buckhorn plantain—*Plantago lanceolata*.

Group IV

Wild morning glory or bindweed—*Convolvulus arvensis*; blue lettuce—*Lactuca pulchella*; death weed or sumpweed—*Iva axillaris*; Australian field cross—*Radicula austriaca*; perennial sow thistle—*Sonchus arvensis*; puncture vine—*Tribulus terrestris*; toad flax—*Linaria vulgaris*; alkali mallow—*Sida hederacea*; corn cockle — *Agrostemma githago*; Australian burnweed or fire weed—*Erechtites prenanthoides*; star thistle—*Centaurea melitensis*, *Centaurea solstitialis*, *Centaurea iberica*; St. Johnswort or goat weed—*Hypericum perforatum*; wild garlic — *Allium vineale*; ox-eye daisy—*Chrysanthemum leucanthemum*; cow cockle—*Vaccaria pyramidata*.

Group V—Weeds noxious only in turf seeds and lawn and turf mixtures.

Field madder—*Sherardia arvensis*, spotted catsear—*Hypochaeris radicata*; dandelions—*Leontodon* spp.; chickweed or big mouse ear—*Cerastium vulgatum*; yarrow — *Achillea millefolium*; rippleseed plantain — *Plantago major*.

"STOP SALE." The Director of Agriculture shall seize any lot or parcel of agricultural, turf or vegetable seeds possessed, sold, offered or exposed for sale for planting purposes that appear to be in violation of any provisions of this act and to hold same until it is determined that the provisions of this act are being complied with. When any seed is found in violation of this act the Director or his assistants shall give written notice of such violation to the owner or person in possession of such seed and may set a time and method by which it may be relabeled, reconditioned or disposed of. If after receiving such notice, the seeds are not relabeled, reconditioned or disposed of within the given specified time, in accordance with the provisions of this act, the enforcing officer shall file a complaint in any justice court or court of competent jurisdiction. The seed may be condemned and destroyed or disposed of, or released upon such condition as the court may impose to insure that such seeds will not be sold, offered, or exposed for sale, in violation of this act.

SCREENINGS AND OTHER MATERIAL, removed in the cleaning or processing of agricultural, turf and vegetable seeds containing any noxious weed seeds shall be destroyed or ground, or treated in a manner

Growers of

Astoria Bent

Seaside Bent

and

Chewings Fescue



ENGBRETSON SEED COMPANY

ASTORIA, OREGON

OREGON GROWN SEEDS

RYE GRASSES—VETCHES—CLOVERS

FESCUES—BENT GRASSES

ALBANY SEED COMPANY

ALBANY

OREGON

or by a method, established and approved by the director, that will destroy the viability of all noxious weed seeds therein. Screenings or other material containing noxious weed seeds may be moved under permit issued by the director or his duly designated deputies, to another place or conditioning plant for further cleaning or processing.

LABORATORY AND TESTS

Seed Laboratory at Corvallis is under the Dean of Oregon State College of Agriculture, cooperating with the U. S. Department of Agriculture.

Dr. D. D. Hill, Acting Head of Division of Plant Industry.

Mrs. Louisa Kanipe, Analyst, U. S. Department of Agriculture.

Free Tests to farmers—1 Purity and 1 Germination Test per year. (Between Dec. 1 and June 30 of succeeding year.)

Charges:

(a) *Purity Tests:*

- 1. Lawn or pasture mixtures and special mixtures\$5.00
- 2. Alfalfa, clovers (including sweet and bur clover), black medic, crested wheatgrass, winter bluegrass, ryegrass, meadow and tall fescues, millet, rape, timothy, phalaris, velvet grass, and and vetches (except mixtures).. 1.05
- 3. Peas, cereals, beets, and flax.. .85
- 4. Mixtures of vetches..... 1.50
- 5. Bermuda, bromes, crested dog-tail, fine fescues, Johnson grass, vernal, and Sudan grass..... 1.55
- 6. Bentgrasses, red top, and alkali grasses 2.00
- 7. Bluegrass (except winter bluegrass), oatgrass, orchard grass, meadow foxtail, and Rhodes grass 2.50

8. Very dirty samples requiring an unusual amount of work or screenings at 60 cents per hour.

(b) *Germination Tests:*

- 1. Paspalum, bluegrass, fescues (except meadow), orchard grass, Johnson grass, sugar beet (sprout test), Bermuda, bentgrasses, red top, meadow foxtail, tree seeds, and fluorescence tests on English ryegrass..... 1.05
- 2. All seeds not listed above.... .55
- 3. Where more than one germination is made on mixed vetch 55 cents will be charged for the first and 50 cents for each extra test.

(c) Any seed not listed will be charged the fee in the appropriate class above.

(d) Examinations and identifications.. .50

(e) Extra copies of reports will be charged for at 10 cents each.

ENFORCEMENT

Under the Director of the State Department of Agriculture, J. D. Mickle, Salem, Oregon. Enforcing officer, Frank McKennon, chief Bureau of Plant Industry.

License fee \$2.50 per calendar year. Secured from State Director of Agriculture. Separate license fee is required for each branch, plant or warehouse.

Exemptions from license—

- (1) Any grower selling seeds of his own production exclusively.
- (2) Retailer selling only vegetable and flower seeds in packets not in excess of 1/2 pound which were packeted by a licensed company.

PENNSYLVANIA

Law of 1921

INFORMATION REQUIRED FOR:

(A) **Agricultural Seeds. 10 pounds or more.**

- 1. Commonly accepted name.
- 2. Percentage of pure seed.

3. Percentage of weed seed. (Prohibit 3%)

4. Percentage of:

a. Germination.

b. Hard seeds.

5. Month and year of test.

6. Origin in case of Turkestan and Italian grown

THE PHILADELPHIA SEED CO., INC.

P. O. Box 934

ARCH & FRONT STREETS
PHILADELPHIA, (5) PA.

•
Importers
Exporters
Refiners
•

**GRASS SEEDS
FIELD SEEDS
PIGEON GRAINS
BIRD SEEDS**

We are at all times in the market for Red Clovers, Alfalfas, Alsike, Sweet Clovers and Timothy and would appreciate having your offerings and samples.

Cooperative GLF Mills, Inc.

Buffalo, New York

Allied Seed-Division of Cooperative GLF Mills, Inc.

Fort Wayne, Indiana

Plymouth Seed-Division of Cooperative GLF Mills, Inc.

Plymouth, Indiana



COKER'S

famous Strains of

VICTORGRAIN OATS

FULGRAIN OATS

STANTON OATS

ABRUZZI RYE

HARDIRED WHEAT

REDHART WHEAT

*as well as Coker's
improved strains of*

Cottonseed & Cornseed.

Also Soybeans, Cowpeas,

Velvet Beans, etc.

Shuler & Smoak
SERVICE AND SATISFACTION

Wholesale Seedsmen

Orangeburg, S. C.

"Serving the South Since 1919"

JAS. S. WILSON

& SONS,

Paris, Ky.

Kentucky

Blue Grass Seed

Exclusively

*Kentucky and
Western Grown*

After fifty years' experience
we are able to give the best of
service. Cleaning and handling
facilities unexcelled

MEMBER OF AMERICAN
SEED TRADE ASSOCIATION

alfalfa or Italian and Chilean grown red clover.

7. Name and address of vendor.
8. Name and number per ounce of each noxious weed seeds present singly or collectively in excess of:
 - (a) One seed in each 5 grams.
 - (b) One seed in each 25 grams.
 - (c) One seed in each 100 grams.

(B) Mixtures of Agricultural Seed. 10 pounds or more.

Same as for unmixed agricultural seed except it must be called "MIXED" or a "MIXTURE," and the information required under items (A) 1, 2 and 4 shall be given for each component present in excess of 5%. The name and number per ounce of each kind of noxious weed seed present in excess of 1 seed in each 15 grams shall be given.

(C) Special Mixtures. 8 ounces or more.

1. That such seed is a mixture.
2. Name of each kind of agricultural seed present in excess of 5% of total mixture.
3. Percentage of weed seeds (Prohibit 3%).
4. Percentage of inert matter.
5. Name and number per ounce of each kind of noxious weed seed present singly or collectively in excess of one in each 15 grams.
6. Where grown if Turkestan or Italian alfalfa and Italian or Chilean red clover.
7. Name and address of vendor.

(D) Vegetable seeds defined but excluded from labeling.

NOXIOUS WEEDS

Wild onion or garlic—Allium species; quack grass—Agropyron repens; devil's paint brush—Hieracium aurantiacum; king devil—Hieracium species; perennial sow thistle—Sonchus arvensis; horse nettle—Solanum carolinense; bindweed—Convolvulus species.

PROHIBITED IF MORE THAN 1 IN 5 GRAMS.

Dodder—Cuscuta species; Canada thistle—Cirsium arvense.

PROHIBIT THE SALE, OFFERING OR EXPOSING FOR SALE AGRICULTURAL SEEDS:

- (a) Containing in excess of 3% of weed seeds.
- (b) Containing in excess of one or more seeds of dodder and Canada thistle to each five grams of seed.

SEED LABORATORY AND TESTS

Seed Laboratory, State Department of Agriculture, Harrisburg, Pennsylvania.
Mrs. Mary Mowry, Analyst.

Tests—Not more than five samples will be tested in any one month for any one person, firm or corporation, a fee of 25 cents must accompany the sample.

ENFORCEMENT

Department of Agriculture, Bureau of Plant Industry.
R. H. Bell, Director.
Harrisburg, Pennsylvania.

RHODE ISLAND

Law of 1929

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agricultural Seeds. Every lot.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Name and number per ounce of each noxious weed seed present in excess of:
 - (a) One in 5 grams.
 - (b) One in 25 grams.
 - (c) One in 100 grams.

(See page 106, group A.)

5. Percentage of germination together with the month and year tested.
6. Name and address of vendor.

(B) Mixtures of not more than 2 kinds. Every lot.

1. That such seed is a mixture.
2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
3. Percentage of weed seeds.
4. Name and number per ounce of each noxious weed seed present singly or collectively in excess of one seed in each 15 grams.
5. Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested.
6. Name and address of vendor.

(C) Special mixtures. Every lot.

1. That such seed is a mixture.
2. Name of each kind of agricultural seed present in proportion of 5% of the total mixture.
3. Percentage of weed seeds.
4. Percentage of inert matter.
5. Name and number per ounce of each noxious weed seed present singly or collectively in excess of one in each 15 grams.
6. Name and address of vendor.

(D) Vegetable seed. Every lot.

1. Kind of seed and variety.
2. Name and address of vendor or packeter.

NOXIOUS WEEDS

Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; dodder—Cuscuta species; wild mustard—Brassica arvensis and other wild brassica species; crab grasses—Digitaria species; docks—Rumex species; corn cockle—Lychnis githago; buckhorn—Plantago lanceolata; wild carrot—Daucus carota.

SEED LABORATORY AND TESTS

Department of Agriculture, Providence, Rhode Island. George H. Geddes.
Any citizen of Rhode Island may have 5 free tests during the year.
Fees for additional tests.

Germination—All seeds except grasses other than timothy 30 cents. Grasses, except timothy, 50 cents.
Purity—Cereals 50 cents, timothy and other crop seeds, except grasses, 75 cents. Grasses and mixtures of not more than two kinds \$1.00. Special mixtures, the actual cost of work, minimum \$1.25.

ENFORCEMENT

Under State Department of Agriculture and Conservation, Dr. R. G. Bressler, Director.
310 State House, Providence, Rhode Island.

"STOP SALE." Whenever the Commissioner of Agriculture receives information that agricultural seeds are being offered or exposed for sale in violation of any requirements of this act, and is of the opinion that the interests of the public so require, he may apply to the superior court of the counties of Providence and Bristol for an injunction to restrain such violation, and thereupon such court being satisfied that such seed is for sale in violation of this act, shall issue an injunction to restrain any person, firm or corporation from selling, offering or exposing for sale such seed.

SOUTH CAROLINA

Law of 1940—Regulations of 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER.

(A) Agricultural Seeds (Unmixed). Every lot (Sec. 2). Every lot of 10 pounds or more (Sec. 18).

- (1) Commonly accepted name.
- (2) Percentage of pure seed.
- (3) Percentage of inert matter.
- (4) Percentage of weed seeds. Prohibited if in excess of 5%, carpet grass 10%. (Regulations.)
- (5) Percentage of other agricultural seeds.
- (6) Percentage of germination together with the month and year tested.
- (7) State where grown, when known, if in the United States.
- (8) Name and address of vendor.
- (9) Name and number of noxious weed seeds per ounce, present singly or col-

lectively, if less than 15 per ounce. (Regulations.)

- (10) Net weight. (Weight and measure law.)

(B) Mixed Agricultural Seeds. Every lot (Sec. 7). Every lot of 10 pounds or more (Sec. 18).

- (1) That such seed is a mixture.
- (2) Name, kind of each seed entering into the mixture in excess of 5%.
- (3) Percentage of inert matter.
- (4) Percentage of weed seeds. Prohibit if in excess of 5%, carpet grass 10%. (Regulations.)
- (5) Percentage of other agricultural seeds.
- (6) Name and address of vendor.
- (7) Name and number of noxious weed seeds per ounce, present singly or collectively, if less than 15 per ounce. (Regulations.)
- (8) Net weight. (Weight and measure law.)

(C) Vegetable Seeds. Every package (Sec. 9). Every parcel or package of 10 pounds or more (Sec. 18).

- (1) Variety.
 - (2) Percentage of purity
 - (3) Percentage of weed seeds. Prohibit if in excess of 5%. (Regulations.)
 - (4) Percentage of germination.
 - (5) For seed which germinates less than the established standard. (Regulations.) (See standards, page 102.)
- a. Percentage of:
1. Germination, exclusive of hard seeds.
 2. Hard seeds.
 3. Month and year of test. Not more than 5 months shall elapse between the month the test is completed and the date of transportation or delivery for transportation in interstate commerce.
- b. The words "BELOW STANDARD" in not less than 8-point type.

(D) Flower Seeds. Every package (Sec. 9). Every parcel or package of 10 pounds or more (Sec. 18).

- (1) Variety.
- (2) Percentage of purity.
- (3) Percentage of germination.

NOXIOUS WEEDS—Prohibit 15 or more per ounce, singly or collectively, label if less.

Wild Onion or Wild Garlic, all Dodders, Corn Cockle, Cheat or Chess, Wild Oats, Johnson Grass, Wild Mustard, Canada Thistle, Black Mustard, Sand Bur, Nut Grass.

PROHIBIT THE SALE, OFFERING OR EXPOSING FOR SALE SEED:

- (1) Containing in excess of 5% of weeds, carpet grass 10%.
- (2) Containing 15 or more noxious weed seeds, singly or collectively, per ounce.

SEED LABORATORY AND TESTS

Department of Agriculture, Columbia, South Carolina.
J. Roy Jones, analyst in charge of laboratory.
100 samples will be tested free for any dealer after which there will be a charge of \$1.00 for

each purity and \$1.00 for each germination test.

ENFORCEMENT

Commissioner of Agriculture, J. Roy Jones, Columbia, South Carolina.

- License—Payable January 1st annually.
\$ 1.00—Where only boxed package vegetable or flower seed are handled.
2.50—Where gross business is less than \$200, with or without package vegetable or flower seeds.
5.00—Where gross business is over \$200 and less than \$500.
10.00—Where gross business is over \$500 and less than \$1,000.
25.00—Where gross business is \$1,000 or more.

Commissioner may withdraw from sale seed not having reasonable germination or that are extremely impure, notwithstanding they may be properly labeled, if such withdrawal is in the interest of normal crop production.

Agricultural seeds shall have a germination of 75% (except legumes), if the germination is below 75% and above 49% they shall be marked "BELOW STANDARD IN GERMINATION," if the germination is less than 50% (except legumes) the seed cannot be sold.

Germination standards of crotonaria and lespezea shall be 60% calculated as "pure live seed." If below 60% and above 39% "pure live seed" it must be labeled "BELOW STANDARD." If less than 40% "pure live seed" it cannot be sold.

Germination standards for other legumes shall be 75% calculated as "pure live seed." If below 75% and above 49% "pure live seed" it shall be labeled "BELOW STANDARD." If below 50% "pure live seed" it cannot be sold.

Seizure, confiscation and disposition of seed. Any agricultural, vegetable or flower seeds offered or exposed for sale which do not comply with the requirements of the seed act shall be seized and condemned, sold or destroyed by the Commissioner of Agriculture, Commerce, and Industry or his duly authorized representative, the proceeds from such sale shall be converted into the State Treasury. The sale shall be made at the court house door in the county in which the seizure was made, and shall be advertised for thirty days in a newspaper in the county, or if no newspaper be published in the county, then it shall be published in the nearest county.

Atlantic Seed Co., Inc.



Philadelphia

Wholesale

Farm Seeds – Grasses

Hybrid Seed Corn

Lawn Grass Mixtures

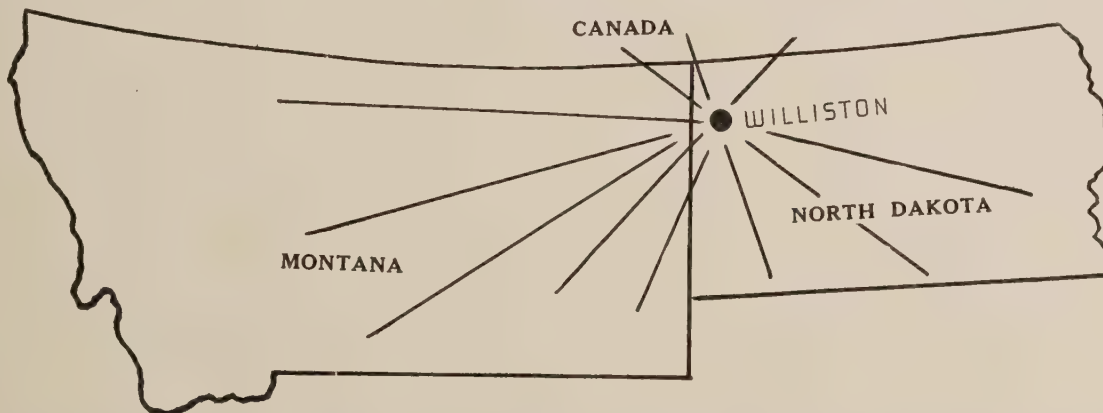
For All Purposes

BUYERS – SELLERS

Bag to a Carload

Correspondence Invited

Cable Address: ANTISEED



HARDY NORTHERN GROWN

**BROME GRASS
SWEET CLOVER
ALFALFA**

**WESTERN WHEAT GRASS
CRESTED WHEAT GRASS
SLENDER WHEAT GRASS**

GREAT NORTHERN BEANS

Farmers Union Grain and Supply Co.

WIRE OR WRITE FOR SAMPLES AND PRICES

WILLISTON

NORTH DAKOTA



One of Our Fields of Creeping Red Fescue

We Specialize in—
**CREEPING
RED FESCUE**

OUR SEED
IS KNOWN FOR

HIGH QUALITY

WRITE FOR PRICES!

OLSEN'S SEED FARM
OLDS, ALBERTA, CANADA



Earp-Thomas
**QUALITY
INOCULANTS**

Farmogerm

First successful inoculant. Contains pure cultures only. Distinctive features to make easy and sustained sales.



Humogerm

Also one of the originals. High count of pure cultures in humus base. Aerated container.

Dealers and jobbers inquiries invited.

Write for Interesting Prices
and Discounts

EARP-THOMAS LABORATORIES

(Incorporated)

77 Washington St., Bloomfield, N. J.

The advertisement shall state:
(1) Name and variety of the seed.
(2) The quantity.
(3) Why seized and offered for sale.
(4) Time and place of sale.
The Commissioner may release seed so withdrawn from sale when the requirements of this act have been complied with and upon payment of all costs or expenses incurred in such seizure and withdrawal.

ADDITIONAL FEATURES

Variety. The vendor will be held responsible for declaring the variety of all seed not

clearly distinguishable from other varieties. *Quantity* to be labeled. All agricultural, vegetable or flower seed offered or exposed for sale, shall bear standard tag or label except seed sold across the counter from bin or container when such container carries standard label in full view.
A mixture means seed consisting of more than one kind or variety each present in excess of 5% of the whole.
Certified and registered seed must have been produced in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed certifying agency.

SOUTH DAKOTA

Act of 1941

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Every lot.

- (1) Commonly accepted name of:
 - a. Kind or,
 - b. Kind and variety or,
 - c. Kind and type.
- (2) Lot number or other lot identification.
- (3) Percentage of purity.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds.
- (6) Percentage of other agricultural seeds.
- (7) Percentage of:
 - a. Germination, exclusive of hard seeds.
 - b. Hard seeds.
 - c. Month and year of test. Test shall have been completed within a nine month period, exclusive of the month in which it was completed.

Following a and b "Total germination and hard seed" may be given if desired.

- (8) State and county where grown, for alfalfa, red clover and field corn (except hybrid).
- (9) Name and address of person who labels the seed, or who sells, offers or exposes said seed for sale.
- (10) Name and number of each kind of secondary noxious weed seed, per ounce in groups Ba and b and per pound in Bc and d when present singly or collectively in excess of:
 - a. 1 seed in each 10 grams.
 - (See page 106, Group B.)
 - b. 1 seed in each 25 grams.
 - c. 1 seed in each 50 grams.
 - d. 1 seed in each 100 grams.

(B) Mixed agricultural seeds. Every lot.

Same as for unmixed seed, except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed present in excess of 5% in the order of its predominance.

(C) Vegetable seeds. Every lot.

- (1) Name of kind and variety.
- (2) For seed which germinates less than the minimum standard established by the State Secretary of Agriculture. (See page 102 for standards.)
 - a. Percentage of germination, exclusive of hard seed.
 - b. Percentage of hard seed.
 - c. Month and year test was completed. Test shall have been completed within a nine month period, exclusive of the month in which it was completed.
 - d. Words "BELOW MINIMUM STANDARD" in not less than 8-point type.
- (3) Name and address of person who labels the seed, or who sells, offers or exposes said seed for sale.

(D) Hybrid Seed Corn. Every Lot.

- (1) Labeled the same as Agricultural seeds.
- (2) Person or firm selling hybrid seed corn shall:
 - a. Register with the State Secretary of Agriculture.
 - b. Furnish the pedigree of such hybrid seed corn.
 - c. Furnish a sample when called on for testing purposes.

Any seed corn sold as hybrid must represent the first generation of a cross between strains of different parentage and involve lines of corn of a high degree of inbreeding or close breeding or their combinations. Such cross shall be produced by cross-fertilization controlled either by hand or by detasseling at the proper time.

NOXIOUS WEEDS

Primary noxious weed seeds

PROHIBITED IN SEED SUBJECT TO TOLERANCES

Field bindweed—*Convolvulus arvensis*; Leafy spurge—*Euphorbia esula*, and *E. lucida*; Per-

Secondary noxious weeds.

Wild oats—*Avena fatua*; Daddies—*Cuscuta* spp.; Wild mustards—*Brassica arvensis*, *B. nigra*, *B. juncea*; Penny cress—*Thlaspi arvense*; Ivy leaved morning glory—*Ipomoea hederacea*; Hedge bindweed—*Convolvulus sepium*; Wild carrot—*Daucus carota*.

PROHIBIT THE SALE, OFFERING OR EXPOSING FOR SALE OF SEED:

- a. Unless the test for germination has been completed within a nine month period.
- b. Containing primary noxious weeds subject to tolerances.

SEED LABORATORY AND TESTS

Department of Agronomy, South Dakota. State College of Agriculture, Brookings, South Dakota. E. L. Erickson—Ass't Agronomist in charge of Seed Laboratory.

Tests. Charges for laboratory services—
Most purity and germination tests50 per sample.
Chaffy grasses and mixtures...80 " "
Corn germination25 " "
Noxious weed examination...20 " "
Disease tests20 " "
Uncleaned seed will be tested and charged for on the basis of time required.

ENFORCEMENT.

Enforcement under the State Secretary of Agriculture E. H. Everson, Pierre, South Dakota.

"STOP SALE" order may be issued and enforced by the State Secretary of Agriculture to the owner or custodian of any lot of agricultural or vegetable seed which he finds in violation of any of the provisions of this act. No such order shall be issued or enforced without first having given the owner or custodian an opportunity to comply with the act or withdraw the seed from sale. If the seed has been denied sale as provided in this paragraph, the owner or custodian shall have the right to appeal from such order to a court of competent jurisdiction where the seeds are found, praying for a judgment as to the jurisdiction of said order and a discharge of such seed from the order prohibiting the sale in accordance with the findings of the court.

SEIZURE. Any lot of agricultural or vegetable seed not in compliance with the provisions of this Act shall be subject to seizure on complaint of the State Secretary of Agriculture to a court of competent jurisdiction in the area in which the seed is located. If the court finds the seed to be in such violation of the Act and orders the condemnation of said seed, it shall be processed, destroyed, relabeled, or otherwise disposed of in compliance with the rules of the State Secretary of Agriculture; Provided, that in no instance shall such disposition of said seed be ordered by the court without first having given the claimant an opportunity to apply to the court for the release of said seed or permission to process or relabel it to bring it into compliance with this act.

ADDITIONAL FEATURES

FARMERS are exempt from complying with provisions of this act when selling corn, wheat, oats, barley, rye, flax, spelt, emmer, buckwheat, sorghum, beans and peas when grown, sold and delivered on his premises to the purchaser.

Certified or registered seed sold, offered for sale or transported in South Dakota must have the approval and authorization of the State Secretary of Agriculture.

SAVE THOSE URGENTLY NEEDED SEEDS

with the SUPERIOR A-1 FINE SEED SEPARATOR

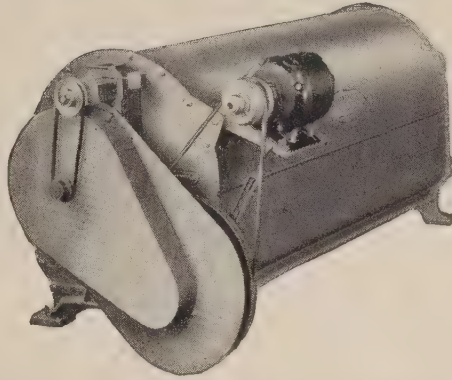
Abundant seed supplies are vital now to provide food for war. After Victory they will also be vital, for replanting Europe's devastated lands. Save all you can!

Only a limited number of SUPERIOR A-1 Separators will be available this season; but each of them saves 75% of the good seeds wasted in tailings by other seed cleaning machines. Write for description of the exclusive A-1 features that result in those savings!

SUPERIOR SEPARATOR CO.

1179 15th Ave. S. E., Minneapolis, Minnesota

Makers of: length and width and thickness graders for hybrid seed corn, grain cleaning and grading equipment for mills, malt houses, seed houses, country and terminal elevators.



Removes Canadian thistle from alsike, quack grass from sweet clover, dodder from carrot seed, sour clover from burr clover, seeds from rye grass, grass-hopper dirt from timothy, pigweed and catchfly from alfalfa. The separations are positive, rapid and minutely accurate. "Hair splitting" adjustments are instantly and accurately made without fussing or guessing.

Contract GROWERS

**TOBACCO
PEPPER
EGGPLANT
PUMPKIN SEED**

Yellow Potato Onion Sets
White Multiplier Onion Sets
Yellow Multiplier Onion Sets
Korean and Sereca Lespedeza

Write for Prices and full information

**J. P. SNAPP & SON
LIMESTONE, TENNESSEE**

WHOLESALE SEED GROWERS EST. 1907

TENNESSEE

Act of 1939, Regulations 1943.

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. On half bushel or more.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Percentage of other crop seed.
5. Percentage of inert matter.
6. Name and number per pound of noxious weed seeds which are present.
7. Percentage of germination and hard seeds together with the month and year tested.
8. Where grown.
9. Name and address of person or firm responsible for the information on tag, as well as consignee's name and address.

(B) Mixtures of Agricultural Seed. Half bushel or more.

1. Same as for unmixed agricultural seeds except it must be called "MIXED" or a "MIXTURE," and the information required under items (A) 1, 2, and 7 shall be given for each component present in excess of 10%.

(C) Vegetable and Flower Seed.

Mentioned only under annual \$1.00 license fee.

(D) Hybrid Corn. Half bushel or more.

Seed of field, sweet or popcorn may not be offered as "hybrid corn" unless such seed represents the first generation of a cross between strains of different inbred parentages and involving two or more lines of corn or their combinations. All corns represented to be hybrid must be certified in accordance with the requirements of this act.

NOXIOUS WEEDS

Bindweed
Buckhorn
Canada Thistle
Corn Cockle
All Dodders*

A. N. LEVIN SEED

LESPEDEZA
CLOVERS
GRASS
ALFALFA
COW PEAS
WINTER PEAS
VETCH
SOY BEANS
RYE
WHEAT
OATS
BARLEY

BUYERS

SELLERS

CLEANERS

CHATTANOOGA 1, TENN.

RED CLOVER
ALSIKE
SWEET CLOVER
BLUE GRASS

RED-TOP

TIMOTHY
COW PEAS
SOY BEANS
LESPEDEZA

WRITE US FOR SAMPLES AND PRICES.

ANY QUANTITY FROM A BAG TO A CARLOAD.

SHULTZ SEED COMPANY INC.

OLNEY

"The Red Top People of the World"

ILLINOIS

We are primary shippers of
Utah and Idaho Mountain grown common and Grimm Alfalfa, medium red and white sweet clover

Buy hardy high altitude grown seeds direct from producing section

WE ASSEMBLE, CLEAN, BULK AND SHIP CHEAPER THAN YOU CAN DO IT YOURSELF

OCCIDENTAL SEED COMPANY
SALT LAKE CITY, UTAH

TRANSIT
GRAIN & COMMISSION CO.

FT. WORTH, TEXAS

Specializing

IN

SUDAN GRASS

and other

FORAGE SEEDS

MILLETS—CANES

SORGHUM GRAINS

Phone, Wire, Write

Oxeye Daisy
Quack Grass
Johnson Grass { Prohibited except in unhulled
Wild Onion { crimson clover.
Commissioner of Agriculture may prescribe a maximum number of noxious weeds per pound.

* Maximum dodder in lespedeza 100 per pound. Wild onion allowed in small grains within prescribed tolerances.

Red clover may contain not more than 500 noxious weed seeds per pound, of which not more than 100 shall be of the dodder species.

Orchard grass may contain not more than 500 noxious weed seeds per pound, of which not more than 100 shall be ox-eye daisy.

LABORATORY

State Department of Agriculture, Nashville, Tenn. F. H. Spanier, Analyst.

ENFORCEMENT

C. C. Flanery, Commissioner of Agriculture; V. L. Fuqua, Supt. and State Chemist.

There shall be an inspection fee of:

- 2 cents a bushel on red, white, alsike and crimson clovers, lespedeza, alfalfa, Kentucky blue grass, timothy, bromegrass, orchard grass, red top, meadow fescue, oat grass, rye grass, millet, Bermuda grass, Sudan grass, soy beans, cowpeas, vetches and Austrian winter peas.
- 2 cents for a 2½ bushel bag of cereals, except Oats which shall be 2 cents on a five bushel bag.
- 2 cents per 100 pounds of cotton.
- Cereals and fibers sold in bags of other sizes

than given above shall carry an inspection fee of 1 cent per bushel.

e. 1 cent for each package of 2 ounces or less of tobacco seed.

There shall be a License Fee of \$1.00 per annum besides the inspection fee. The same fee shall apply to vegetable and flower seed.

ADDITIONAL FEATURES

Certified seed. Use of the word "CERTIFIED" limited to seed certified by a certifying agency or to seed registered by the International Crop Improvement Association.

Certification tag must show:

- Grower's name or number and address.
- Name and address of certifying agency.
- The state, province, territory or county where grown.

Disclaimer Clause. Use of the disclaimer clause on the tag is prohibited.

Maximum Noxious Weeds. Maximum number of noxious weed seeds allowed in seed sold or offered for sale is:

1 per pound in corn, cotton, tobacco, sorghum, cowpeas, soybeans and Austrian peas.
20 per pound in wheat, barley, oats, rye, buckwheat and vetch.

50 per pound in rye grass, fescues, tall oat, Sudan, millets, bromes, red top, bluegrass, Bermuda, timothy and dallis.

100 per pound in lespedeza, red clover, sweet clover, crimson clover, bur clover, white clover, alsike clover and orchard grass.

Purity and germination standards. Seed with purity and germination lower than as listed in the regulations are considered low grade and not recommended for use in Tennessee.

TEXAS

Law of 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agricultural Seeds. (Unmixed) Every lot. Use Texas tags.

- Commonly accepted name of:
 - Kind or
 - Kind and variety or
 - Kind and type.
- Lot number or other lot identification.
- Percentage of purity.
- Percentage of inert matter.
- Percentage of weed seeds.
- Percentage of other agricultural seeds.
- Percentage of:
 - Germination, exclusive of hard seed.
 - Hard seeds.
 - Month and year of test. Test shall have been completed within a twelve month period, exclusive of month in which test was completed.

Following a & b "Total germination & hard seed" may be given if desired.

- Origin of alfalfa, red clover and field corn. If origin is unknown, it must be so stated.
- Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.
- Name and number of secondary noxious weeds per ounce in groups B1 & B2 and per pound in B3 & B4 if present singly or collectively in excess of:
 - 1 in each 5 grams. (See page 106, group B.)
 - 1 in each 10 grams.
 - 1 in each 25 grams.
 - 1 in each 100 grams.

(B) Mixed Agricultural Seeds. Every lot. Use Texas tags.

Same as unmixed seed, except that it must be called "MIXED" or a "MIXTURE" and the information required under items, 1, 3 and 7 shall be given for each agricultural seed present in excess of 5% in the order of its predominance.

(C) Vegetable seeds. Every lot.

- Name of kind and variety.
- For seed which germinates less than the standard last established by the Commissioner of Agriculture. (See page 102 for standards.)
 - Percentage of germination, exclusive of hard seed.
 - Percentage of hard seed.
 - Month and year of test. Test shall have been completed within a twelve month period, exclusive of the month in which the test was completed.
 - Marked "BELOW STANDARD" in not less than 8 point type.
- Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.

Prohibits the sale, offering or exposing for sale of,

- Agricultural or vegetable seed contain-

ing primary noxious weeds subject to tolerances.

- Agricultural or vegetable seed unless the test for germination shall have been completed within a twelve month period, exclusive of the month in which the test was completed.

NOXIOUS WEEDS

(A) Primary Noxious Weeds.

PROHIBITS SEED CONTAINING ANY SUBJECT TO TOLERANCES.

Johnson grass—*Andropogon halepensis*
Bindweed—*Convolvulus* spp.
Blue Weed—*Helianthus ciliaris*
Dodder—*Cuscuta* spp.

(B) Secondary Noxious Weeds.

Russian thistle—*Salsola kali*
Wire grass—*Paspalum distichum*
Bermuda grass—*Cynodon dactylon*
Wild oats—*Avena fatua*
Chess or cheat—*Bromus secalinus*
Buckhorn plantain—*Plantago lanceolata*
Purple nightshade—*Solanum elaeagnifolium*
Darnel—*Lolium temulentum*
Wild mustard—*Brassica sinapistrum*
Curly dock—*Rumex crispus*

"STOP SALE" orders may be issued by the Commissioner of Agriculture for any lot of agricultural or vegetable seed which he has reason to believe is in violation of any of the provisions of this act which shall prohibit the further sale of said seed until the law has been complied with. The owner or custodian of said seed may appeal from such order to a court of competent jurisdiction where the seed is found, praying for a judgment as to the justification of said order and for the discharge from such order in accordance with the finding of the court.

SEIZURE.

Any lot of agricultural or vegetable seed not in compliance with the provisions of this act shall be subject to seizure on complaint of the Commissioner of Agriculture to a court of competent jurisdiction in the area in which the seed is located. In the event that the court finds the seeds to be in violation of the act and orders its condemnation, it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state. In no instance shall such disposition be ordered by the court without first having given the claimant an opportunity to apply to the court for its release or permission to process or relabel it to bring it into compliance with the act.

HYBRID CORN.

The first generation seed of a cross produced by controlling the pollination, and by combining two, three or four inbred lines, or by combining one inbred line or a single cross with an open-pollinated variety. Hybrid designations shall be treated as variety names.

SEED LABORATORY AND TESTS

State Seed Laboratory, Department of Agriculture, Austin, Texas.

Miss Wynona Robbins—Chief Analyst.

Fees for tests—Residents of Texas: Agricultural seeds free; vegetable and flower seed purity 25c, germination 25c. Out of state firms: Purity 25c, germination 25c.

ENFORCEMENT AND REGULATIONS

Enforcement is under the Department of Agriculture, Austin, Texas.

J. E. McDonald, Commissioner.
Linden E. Jones, Chief of Seed Laboratory Division.

Certified Copy of the information required on the tag, (see (A) above) shall be filed with the Commissioner of Agriculture covering the lot of seed to be sold.

Inspection tax of not over 1 cent for each 100 pounds or fraction thereof shall be paid to the Commissioner and a tag furnished by the Commissioner shall be attached to the container of the seed offered for sale.

(These tags constitute the "tested" seed labels and must bear the analysis (Sec. A).)

To ship *Cotton seed*—a certificate of field inspection made by county or state authorities must be filed with Seed Laboratory Division, Department of Agriculture, Austin. If fields were inspected, the per cent must be stated on the certificate. Over 2% denied entry.

Cotton, Alfalfa, Corn and Sorghum seed (either sweet or grain) must meet the requirement set forth by the Commissioner of Agriculture and shall bear a special tag issued by him. He shall have authority to refuse permission to ship such seed into Texas when the records and information of his agents show the seed to be inferior quality, lacking prescribed varietal purity or from diseased fields.

All planting seed shipped into Texas bearing labels denoting *Registered or Certified* seed shall have been produced under standards equal to standards in Texas for such class of seed. If not approved they may bear Registration or Certification tags issued by the state or origin provided such tags are plainly marked—"These tags do not meet the requirements of Registration or Certification in Texas."

Prohibit use of *Red or Blue Tags* except when used by duly qualified plant breeders or certified seed growers unless such tags are marked in bold type, "Non-Registered" or "Non-Certified" seed.

Where such terms as "from officially inspected fields," "State Inspected," "Approved Seed," "Inspected Fields," "first year from Certified Seed," "as good as Certified" and similar terms are used, such written material shall plainly show the words, "Non-Registered" or "Non-Certified."

UTAH

Revised Statutes of 1933 and Regulations

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Each container or lot.

1. Commonly accepted name.
2. Lot number or designation.
3. Percentage of pure seed.
4. Percentage of weed seeds. Prohibit over 1%, a tolerance of 5% of cheat, chesses and downy brome grass allowed in grasses.
5. Name and number per pound, not to exceed 90 per pound, of secondary noxious weeds.
6. Percentage of germination together with the month and year tested.
7. Where grown.
8. Name and address of vendor.

(B) Mixtures of not more than two kinds Each container or lot.

1. That such seed is a mixture.
2. Lot number or designation.
3. Name and percent of each kind of agricultural seed present in excess of 5% of the total mixture.
4. Percentage of weed seeds. Prohibit over 1%, a tolerance of 5% of cheat, chesses and downy brome grass allowed in grasses.
5. Name and number per pound, not to exceed 90 per pound of secondary noxious weeds.
6. Percentage of germination of each kind of agricultural seed in excess of 5% together with the month and year tested.
7. Where grown.
8. Name and address of vendor.

(C) Special Mixtures. Each container or lot.

1. That such seed is a mixture.
2. Lot number or designation.
3. Name of each kind of agricultural seed present in excess of 5% of the total mixture.
4. Percentage of weed seeds. Prohibit over 1%, a tolerance of 5% of cheat, chesses and downy brome grass allowed in grasses.
5. Percentage of inert matter.
6. Name and number per pound, not to exceed 90 per pound of secondary noxious weeds.
7. Where grown.
8. Name and address of vendor.

(D) Vegetable Seed. Each container or lot.

Label same as agricultural seeds (A).

NOXIOUS WEEDS

Primary—Prohibited.

White top—*Cardia draba* and *C. pubescens*; wild morning-glory—*Convolvulus arvensis*; Canada thistle—*Cirsium arvense*; Russian knapweed—*Centaurea repens* (*C. picris*); perennial sow thistle—*Sonchus arvensis*; perennial ragweed—*Ambrosia psilostachya*; leafy spurge—*Euphorbia esula*; puncture vine—*Tribulus terrestris*; black nightshade—*Solanum nigrum* (including var. *villosum*); blue-flowering lettuce—*Lactuca pulchella*; quack grass—*Agropyron repens*; Bermuda grass—*Cynodon dactylon*; bur buttercup—*Ranunculus testiculatus*.

Secondary

Give name and number per pound, prohibited if in excess of 90 per pound.

Poison milkweed—*Asclepias gladioides*; burdock—*Arctium minus*; bull thistle—*Cirsium lanceolatum*; cockle bur—*Xanthium* spp.; dodder—*Cuscuta* spp.; three flowering nightshade—*Solanum triflorum*; poverty weed—*Iva axillaris*; larkspur—*Delphinium Menzietti* and *D. occidentale*s; poison hemlock—*Conium maculatum*; plantain—*Plantago major*; crab grass—*Digitaria Ischaenum*.

PROHIBIT THE SALE, OFFERING OR EXPOSING FOR SALE OF:

Seed Containing:

- (a) Primary noxious weeds.
- (b) In excess of 90 secondary noxious weed seeds per pound.
- (c) In excess of 1% of weed seeds, tolerance of 5% of cheat, chesses and downy brome allowed in grasses.

SEED LABORATORY AND TESTS

State Seed Laboratory.
Department of Agriculture.
Salt Lake City, Utah.
Georgeanna Cameron, Analyst.

TESTS.

Certified alfalfa and red clover.....50 cents
Common alfalfa, clovers, small grains,
etc.25 cents
Grasses75 cents
All germinations25 cents

ENFORCEMENT

State Board of Agriculture.
Salt Lake City, Utah.

ADDITIONAL FEATURES

Screenings must be ground or otherwise devitalized under supervision of State Board of Agriculture. Screenings of Alfalfa, Clover or Timothy or other seed of sufficient value which do not contain noxious weeds may be released by authority of the State Board of Agriculture.

Quarantine and disposal of any seed, feed or hay containing any primary noxious weeds, plants or seeds, to be made by District Agricultural Inspectors.

Seeds or Feeds Quarantined because of primary noxious weeds not permitted to be transported within or without the state. May be cleaned under supervision of an official representative of State Board of Agriculture. If found free from primary noxious weed seeds, may be released for distribution, otherwise must be destroyed.

Packet Seeds—Seeds commonly sold in small package or from bulk in small amounts may be exempt from the labeling provisions, provided the container containing such packages or seeds is labeled. The vendor's name and address must appear on each smaller container in said lot of seeds.

GARDEN, FIELD and FLOWER SEEDS

MERCHANTS OF THE SOUTHWEST have at their command large stocks of Garden, Field and Flower Seeds, centrally located for receipt of prompt shipments.

NICHOLSON'S SEEDS have set the standard of quality in the Southwest for more than a half century. If you do not receive our wholesale list, please send us your name.

**ROBERT NICHOLSON
SEED CO.**
DALLAS - - TEXAS

**FOR SOLVING YOUR
SEPARATION
PROBLEMS
THE SS&S**

**Specific
Gravity
Separator**

SUTTON, STEELE, & STEELE

Incorporated

DALLAS, TEXAS

*British Empire Manufacturers
& Licensees:*

KIPP KELLY, LTD., 68 Higgins Ave.,
Winnipeg, Canada

SEPARATIONS ENGINEERING, LTD.,

133 Bush House, Aldwych,
London, W. C. 2, England

LECKENBY SEED CO.

SEATTLE

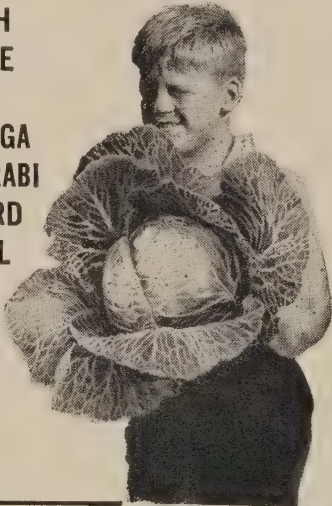
Growers

**PUGET
SOUND
SEEDS**

Growing Station

MOUNT VERNON, WASH.

**SPINACH
CABBAGE
TURNIP
RUTABAGA
KOHL RABI
MUSTARD
MANGEL
KALE
CANARY
RAPE**



**South's Largest
Grower and Distributor
of**

Field & Hybrid Corn

Also carry complete line of
Field & Garden Seeds

Write for Prices

T. W. WOOD & SONS
SEEDSMEN SINCE 1879
RICHMOND, VIRGINIA

Original Label—The analysis label of original seller may be retained for a period not to exceed 3 months from the date of delivery.
Certificate of freedom from primary noxious weeds—All agricultural and vegetable seeds, hay, straw and hay or straw products of any nature must bear a certificate of the complete absence of the seeds of all "Primary noxious weeds," issued by an authorized inspector at the point of origin, before such seeds can be entered into interstate commerce for shipment into Utah.

Carrier to hold for inspection—All agricultural and vegetable seeds, hay, straw and hay or straw products of any nature, arriving in the state from points outside, shall be held by the carrier until released by an authorized inspector of the Utah State Board of Agriculture. Any agricultural product imported in violation of this quarantine must either be returned to the point of origin or be destroyed by the owner under the supervision of an authorized inspector of the State Board of Agriculture.

VERMONT

Law of 1926 As Reprinted 1933

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural Seeds. Ten pounds or more.

1. The commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Name and number per ounce of each noxious weed present singly or collectively in excess of:
 - (a) one seed in each 5 grams.
 - (b) one seed in each 25 grams.
 - (c) one seed in each 100 grams.
5. Percentage of germination together with the month and year tested.
6. Where grown in case of imported alfalfa, clover, alfalfa and orchard grass.
7. Name and address of vendor.

(B) Mixtures of not more than two kinds. Ten pounds or more.

1. That such seed is a mixture.
2. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
3. Percentage of weed seeds.
4. Name and number per ounce of each noxious weed seed present singly or collectively in excess of one seed in each 15 grams.
5. Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested.
6. Where grown in case of imported alfalfa, red clover and orchard grass.
7. Name and address of vendor.

(C) Special mixtures. Eight ounces or more.

1. That such seed is a mixture.

2. Name of each kind of agricultural seed present in proportion of 5% of the total mixture.
3. Percentage of weed seeds.
4. Percentage of inert matter.
5. Name and number per ounce of each kind of noxious weed seeds present singly or collectively in excess of one seed in each 15 grams.
6. Where grown in case of imported alfalfa, red clover or orchard grass.
7. Name and address of vendor.

(D) Vegetable seed not included in law.

NOXIOUS WEEDS

Quack grass; wild mustard and other brassicas; Canada thistle; dodder; ergot; corn cockle; poison hemlock.

LABORATORY AND TESTS

Seed Laboratory.
Agricultural Experiment Station.
Burlington, Vermont.
Mrs. Anna Lutman, Analyst.
Number of free tests and charges for additional samples to be fixed by the Director of Agricultural Experiment Station.

ENFORCEMENT AND REGULATIONS

J. L. Hills, Director of Agricultural Experiment Station at Burlington, Vermont.

License.

In January of each year each vendor must pay \$5.00 license fee for each brand of agricultural seed or mixture of agricultural seeds.

Regulation.

License fee not required on:

Mixed seed used solely or primarily for lawns and golf courses.

VIRGINIA

Amended and Re-enacted 1938

Regulations 1942

INFORMATION REQUIRED FOR:

(A) Agricultural seeds. Every lot of 10 pounds or more.

1. Commonly accepted name.*
2. Percentage of pure seed.
3. Percentage of weed seed. (Prohibit sale if over 3%.)
4. Name and number per pound of each noxious weed seed present.
5. Percentage of:
 - (a) Germination, exclusive of hard seeds.
 - (b) Hard seeds. (Regulation.)
 - (c) Month and year of test.
6. Name and address of vendor.

*Seed containing more than one variety or varieties, singly or collectively must be labeled as follows:

- (a) If as much as 10% of another variety or varieties singly or collectively are present the word "mixed" must follow kind as "mixed soybeans" or "mixed cowpeas." The approximate percentage of each variety may be given.
- (b) Seed containing as few as 5% or less than 10% of another variety or varieties singly or collectively must be labeled as to kind only as "soybeans" or "cowbeans."
- (c) Seed containing less than 5% of another variety or varieties singly or collectively may be labeled as a single variety.

(B) Mixtures. Every lot.

1. That such seed is a mixture.
2. (a) Name of each kind of agricultural seed present in excess of 5% of the total mixture.

- (b) Mixtures containing two kinds only, of agricultural seeds, must also be labeled with the percentage of each.
- (c) If agricultural seeds present in quantities less than 5% of the total are named on label the percentage of each must be given.

3. Percentage of weeds. (Prohibit sale if over 3%.)
4. Percentage of inert matter.
5. Name and number per pound of each kind of noxious weed seed present.
6. For each kind of agricultural seed present in excess of 5% give:
 - (a) Percentage of germination, exclusive of hard seeds.
 - (b) Percentage of hard seeds. (Regulation.)
 - (c) Month and year of test.
7. Name and address of vendor.

(C) Vegetable Seed. Every separate container.

1. Kind of seed and variety.
2. Year for which packeted, words "packed for" shall precede the year.
3. Percentage of germination, together with the month and year tested, provided the germination is less than the Virginia standards. (See page 102.)
4. Name and address of person or firm who packed the seeds and labeled the same.

NOXIOUS WEEDS

Wild onion—Allium vineale; Bermuda grass—Cynodon dactylon; quack grass—Agropyron repens; Canada thistle—Cirsium arvense; hawkweed—Hieracium species; dodder—Cuscuta species (prohibited if 12 or more to one ounce of seed); Johnson grass—Sorghum halepense (prohibited if one to two ounces of seed).

SEED LABORATORY AND TESTS

1112 State Office Building, Richmond, Virginia.

In charge of G. T. French, State Entomologist and Chief Botanist.

The Commissioner of Agriculture may fix the maximum number of samples tested free of charge for any one period of time for any individual firm or corporation.

ENFORCEMENT

L. M. Walker, Jr., Commissioner of Agriculture.

SEIZURE OF SEED.

The Commissioner of Agriculture and Immigration may cause to be seized and held any lot of agricultural and vegetable seeds or mixtures of same, found to violate any of the provisions of this act until the law has been complied with or said violation otherwise legally disposed of; provided, however, that such person, firm or cor-

poration shall have the right immediately to apply to the circuit court of the city or county in which seizure is made, for release of the same from seizure.

ADDITIONAL FEATURES

Hard seeds shall not be included in the percentage of germination but may be shown on the analysis tag in the following manner:

Germination	85%
Hard seed	10%
Total	95%

Broken sprouts—seedlings of crimson clover and other legumes having both cotyledons broken off or a broken hypocotyl shall not be counted as germinated.

Local vendor may use the wholesaler's tag for only 90 days from date of delivery.

Bermuda grass may be sold as an agricultural seed when so marked. When present in other kinds of seeds is a noxious weed.

WASHINGTON

Law As Amended to 1941

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds (Unmixed) Every lot.

1. Commonly accepted name of
 - (a) Kind or
 - (b) Kind and variety or
 - (c) Kind and type.
2. Lot number or other lot identification.
3. Percentage of purity.
4. Percentage of inert matter.
5. Percentage of weeds.
6. Percentage of other agricultural seeds.
7. Percentage of
 - (a) Germination, exclusive of hard seed.
 - (b) Hard seed.
 - (c) Month and year of test. Test shall have been completed within a nine month period exclusive of the month in which test was made.
8. Origin of alfalfa, red clover and field corn (except hybrid). If origin is unknown it must be so stated.

9. Name and address of person who labeled seed, or who sells, offers or exposes said seed for sale.
10. Name and number of each secondary noxious weed per pound when present singly or collectively in excess of
 - (a) One seed or bulblet in each 10 grams of Agrostis spp., Poa spp., Bermuda grass, timothy, orchard grass, fescue (except meadow), alsike and white clover, reed canary grass and other agricultural seeds of similar size and weight or mixtures within this group.
 - (b) One seed or bulblet in each 25 grams of ryegrass, meadow fescue, millet, alfalfa, red clover, sweet clover, lespedeza, smooth brome grass, crimson clover, Brassica spp., flax, Agropyron spp., and other agricultural seeds of similar size and weight, or mixtures within this group, or of this group with (a).
 - (c) One seed or bulblet in each 100 grams of wheat, oats, rye, barley, buckwheat, sorghums, vetches, and other agricultural seeds of a size and weight similar to or greater than those within this group or any mixtures within this group.



VERIFIED ORIGIN SEED

GRIP-LOCK



Pat. 1847552

TAMPER PROOF SELF-LOCKING BAG SEAL

Grip-Lock Seals are now the standard for Seedsmen's use.

These Seals are the best protection against substitution and adulteration. Once locked this seal destroys itself on attempted re-locking.

No Sealing Tool is necessary, Grip-Lock Seals are self-locking.

We also manufacture all sizes of lead and wire seals for attaching tags to bags of seeds.

—SAMPLES ON REQUEST—



E. J. BROOKS COMPANY
184 North 13th St., NEWARK, N. J.

SHENANDOAH VALLEY'S SEED HOUSE



CAR LOT BUYERS



FIELD
AND
GARDEN SEEDS

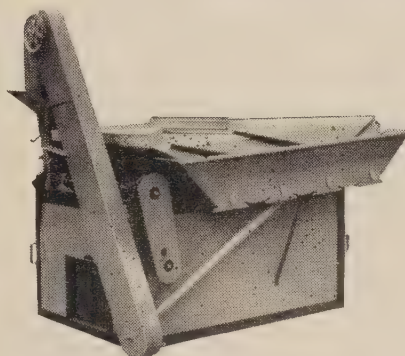


Shippers of
ORCHARD GRASS, BLACK WILSON SOYBEANS
CAR LOTS AND LESS



The WETSEL SEED COMPANY, Inc.
HARRISONBURG, VIRGINIA
ESTABLISHED 1911

The Forsberg Line for Better Seed Cleaners



Forsberg Gravity Separator

- Gravity Separators
- Dustless Seed Cleaners
- Ball and Socket Discharge Spouts
- Grain Dusters and Buckhorn Treaters
- Pneumatic Bag Cleaners
- Rubber Faced Hullers and Corn Shellers
- Elevator Legs with Independent Motor and V-Belt Drive

FRED FORSBERG & SONS
THIEF RIVER FALLS, MINN.

H. G. WASHBURN, Jr.

Representing in the South

SELECT VARIETIES OF
SEED CORN
PEAS BEANS
VEGETABLE
AND
FLOWER SEEDS

WRITE FOR SPOT OR CONTRACT
PRICES ON SEED OF THE
FOLLOWING GROWERS:

Washburn-Wilson Seed Co.
McCrea Seed Co.
O & M Seed Co.
Waldo Rohnert Co.
J. C. Robinson Seed Co.
Wash. Co-op. E. & P. Ass'n
Simpson Nursery Co.
Waller-Franklin Seed Co.

"From the Best—To the Best"

2646 Parkside Drive N. E.
ATLANTA GEORGIA

CERTIFIED WISCONSIN
HYBRID
SEED CORN
14 STRAINS

We have varieties adapted
to every section of the
northern corn belt from
Illinois to Montana.

Also Producers
of the Famous

VICLAND
SEED OATS
CARLOTS OR LESS

WRITE FOR PRICES AND SAMPLE

TRACY & SON FARMS

Phone 9671R2

JANESVILLE WIS.

(B) Mixed Agricultural Seeds. Every lot.

Same as for unmixed seed except that it must be called "Mixed" or a "Mixture" and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed present in excess of 5% in the order of its predominance.

(C) Vegetable Seeds. Every lot.

- Name of kind and variety.
- For seeds which germinate less than the standard last established by the Director of Agriculture. (See page 102 for standards.)
 - Percentage of germination, exclusive of hard seed.
 - Percentage of hard seed.
 - Month and year of test. Test shall have been completed within a nine month period exclusive of the month in which it was completed.
 - The words "BELOW STANDARD."
- Name and number per pound of secondary noxious weeds.
- Name and address of the person who labeled seed, or who sells, offers or exposes said seed for sale.

NOXIOUS WEEDS

- Primary noxious weeds. Prohibits seed containing any subject to tolerances. Quack grass—Agropyron repens; Canada thistle—Cirsium arvense; Bindweed—Convolvulus arvensis and C. sepium; Perennial sow thistle—Sonchus arvensis; Hoary cress or White top—Lepidium draba, L. repens and Hymenophyza pubescens; Yellow toadflax—Linaria vulgaris; Russian knapweed—Centaurea picris; Blue flowering lettuce—Lactuca pulchella; Leafy spurge—Euphorbia esula; Cameltorn—Alhagi pseudalhagi; Austrian field cress—Radicula austriaca; Perennial peppergrass—Lepidium latifolium.
- Secondary noxious weeds. Alkali mallow—Sida hederacea; Corn cockle—Agrostemma githago; Docks—Rumex spp.; St. Johnswort—Hypericum perforatum; Dodder—Cuscuta spp.; Fanweed—Thlaspi arvense; Poverty weed—Iva axillaris; Wild mustard—Brassica species; Plantain—Plantain species; Perennial ground cherry—Physalis subglabrata.

PROHIBITS THE SALE, OFFERING OR EXPOSING FOR SALE OF:

AGRICULTURAL AND VEGETABLE SEEDS

- Unless the test for germination shall have been completed within a 9-months period, exclusive of the month in which the test was completed.
- Containing primary noxious weeds subject to tolerances prescribed in the rules and regulations.

SEED LABORATORY AND TESTS

Seed Laboratory, Dept. of Agronomy, State College of Washington, Pullman, Washington, E. G. Schafer in charge. Dwight D. Forsyth, seed analyst, State Dept. of Agriculture, Olympia, Wash. Tests. One free test (purity and germination) will be made per year for any person residing in the state. Additional tests will be charged as follows:

FOR PURITY

- Peas, beans, vetches, cereals, beets, mustards, cabbage, melons, parsnips and carrots\$0.50
- Alfalfa, clovers, wheatgrasses, ryegrasses and timothy..... 1.00

- Bentgrasses, bluegrasses, orchard grass, fine fescues 2.00
- Seed mixtures containing two species when the lesser of the two species consists of more than five percent (5%) of the total..... 3.00
- Charges shall be made according to time required to make tests of mixtures of more than two species, for dirty samples and screenings.

FOR GERMINATION TESTS

- Seeds in purity groups (1) and (2)...\$0.50
- Seeds in purity group (3)..... 1.00
- Charges for germination of mixtures shall be the sum of the charges for germinating each single species as given above.

ENFORCEMENT

Director of Agriculture, Walter J. Robinson, Olympia, Washington.

Charles D. Gaines, State Seed Inspector.

LICENSE

An annual license, fee \$10.00, must be obtained from the Director of Agriculture for each separate place of business. License expires Dec. 31st of each year.

Merchants selling only seeds in sealed packages of 8 ounces or less are exempt from license fee provided seed packages bear name and address of packer who is licensed.

"STOP SALE" orders for any lot of agricultural or vegetable seeds may be issued and enforced by the Director of Agriculture if he finds or has reason to suspect the seed is in violation of any of the provisions of this act, prohibiting further sale of said seed until he has evidence that the law has been complied with. No "Stop Sale" order shall be issued or attached without first giving the owner or custodian an opportunity to comply with the law or to withdraw the seed from sale. The owner or custodian shall have the right to appeal from such order to a court of competent jurisdiction, praying for a judgment as to the justification of said order and for the discharge of said seed from the order in accordance with the findings of the court.

SEIZURE. Any lot of agricultural or vegetable seed not in compliance with the provisions of the seed law shall be subject to seizure on complaint of the Director of Agriculture to a court of competent jurisdiction in the area in which the seed is located. If the court finds it in such violation and orders the condemnation of said seed it shall be denatured, processed, destroyed, relabeled or otherwise disposed of in compliance with the laws of the state. No such disposition of said seed shall be ordered without first having given the claimant an opportunity to apply to the court for the release of said seed or permission to process or relabel it to bring it into compliance with the act.

ADDITIONAL FEATURES

SCREENINGS. Any screenings or other material removed in the cleaning of agricultural, turf or vegetable seeds containing "Noxious weed" seeds are declared to be a menace to agriculture, and by agreement with the owner may be destroyed. Said screenings may be ground or treated in a manner approved by the Director of Agriculture that will destroy the viability of the seed before it can be used for feeding purposes. Any screenings not ground or treated may be removed from the cleaning establishment only under permit issued by the Director of Agriculture and shall be labeled "SCREENINGS CONTAINING NOXIOUS WEEDS. UNFIT FOR PLANTING OR FEEDING PURPOSES IN WASHINGTON."

WEST VIRGINIA

Law 1937 Regulations of 1942

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Every lot.

- Commonly accepted name of: (Regulation).
 - Kind,
 - Variety, or
 - Type.
- Percentage of pure seed.
- Percentage of weed seed (prohibit 3%).
- Percentage of other agricultural seeds. (Regulation.)
- Percentage of: (Regulation.)
 - Germination, exclusive of hard seeds.
 - Hard seeds.
 - Month and year of test.

Following a & b "Total" may be shown if desired.

- Origin of red clover, alsike clover and alfalfa.
- Name and address of vendor.
- Name and number per ounce of each kind of noxious weed seeds present in excess of:

- One in each 5 grams. (See page 106, group A.)
- One in each 25 grams.
- One in each 100 grams.

(B) Mixtures (All mixtures — Regulations). Every lot.

- That such seed is a mixture.
- Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
- Percentage of weed seeds (prohibit 3%).
- For each kind of agricultural seed mentioned in (2) give percentage of:
 - Germination, exclusive of hard seeds.
 - Hard seeds.
 - Month and year of test.

Following a & b "Total" may be given if desired.

- Origin of red clover, alsike clover and alfalfa. (Regulation.)
- Name and address of vendor.
- Name and number per ounce of each kind of noxious weed seed present. (Regulation.)

(C) Vegetable Seeds. Every lot.

Label same as (A) Agricultural Seeds. Must meet minimum germination standards. (See page 102 for germination standards.)

(D) Hybrid Seed Corn. Every lot.

Same as under (A) Agricultural Seeds. All hybrid seed corn shall be certified by an officially recognized certifying agency in the state, province or county in which the seed is grown. Certified hybrid seed corn for seed purposes must carry the authorized tag or seal of the certifying agency and person.

HYBRID SEED CORN. The following definitions and eligibility requirements are established for hybrid corn:

1. An **INBRED LINE** is a line of corn that has been developed as a result of not less than five generations of controlled self-pollination.
2. A **SINGLE CROSS** is the first generation of a hybrid between two inbred lines.
3. A **FOUNDATION HYBRID** is a "single cross" which is to be used in the production of hybrids containing more than two inbred lines.
4. A **COMMERCIAL HYBRID** is one to be planted for the production of feed or for any other commercial or farm use except for seed. It may be any one of the following:
 - (a) A **Double Cross**—the first generation of a cross between two "foundation hybrids" (single crosses).
 - (b) A **Three-Way Cross**—the first generation of a cross between a "foundation hybrid" and an "inbred line."
 - (c) A **Single Cross**—when the single cross is to be used for commercial production and not for the production of "double" or "three-way" crosses.
 - (d) A **Top-Cross**—the first generation of a cross between an "inbred line" and an open-pollinated variety.

NOXIOUS WEEDS

Wild onion—Allium vineale; Johnson grass—Sorghum halepense; hawk weed—Hieracium species; buckhorn—Plantago lanceolata; English charlock or wild mustard—Brassica arvensis; corn cockle—Agrostemma githago; ox-eye daisy—Chrysanthemum leucanthemum; Indian mustard—Brassica juncea; star this-

tle—Centaurea solstitialis; wild carrot—Daucus carota; galinsoga—Galinsoga parviflora.

PROHIBITED WHEN IN EXCESS OF ONE IN 5 GRAMS:

Quack grass—Agropyron repens; Canada thistle—Carduus arvensis; dodder—Cuscuta species; sow thistle—Sonchus species.

PROHIBIT THE SALE, OFFERING OR EXPOSING FOR SALE OF AGRICULTURAL SEED:

- (1) Containing quack grass, Canada thistle, dodder and perennial sow thistle if present in excess of one seed in five grams.
- (2) Containing in excess of 3% of weed seeds.

SEED LABORATORY

Department of Agriculture, Charleston, West Virginia. Marvin H. Snyder, Seed Analyst.

TESTS

No charge will be made for the first ten tests for any farmer, dealer, person or firm. All in excess of 10, the following charges shall be made. Purity, 50c for red, white and mammoth clovers, alsike, wheat, alfalfa, timothy, corn, soybeans, rye, buckwheat, oats, flax, kaffir corn, millet, sorghum, field peas and vetch. Purity, \$1.00 for red top, Kentucky and Canada blue grass, fescues, rough-stalk meadowgrass. Purity, \$2.00 for lawn grass mixtures and complex field seed mixtures. All germination tests, 25c each.

WISCONSIN

Law and Regulations of 1941

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(A) Agricultural Seeds (Unmixed). Every lot.

- (1) Commonly accepted name or kind, variety or type.
- (2) Lot or identification number.
- (3) Percentage of purity.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds. Prohibits, if in excess of 5%, except ragweed and foxtail which may be present up to 10%,

ENFORCEMENT

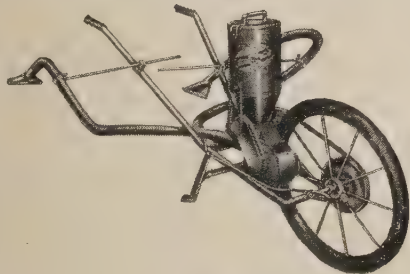
Department of Agriculture. J. B. McLaughlin, Commissioner. **CERTIFICATES OF REGISTRATION** must be obtained from the Commissioner of Agriculture for each kind of agricultural or vegetable seed offered for sale. Application for certificate must be accompanied by fee of \$5.00 for each kind and a certified copy of the complete information required on the analysis tag.

Certificates are void on June 30th, next—succeeding the issuance thereof. Registration may be refused or cancelled (1) if the application does not contain the complete information required; (2) if vegetable seeds do not meet the minimum requirements of germination. (See page 102 for germination standards), (3) If agricultural seed or mixtures contain quack grass, Canada thistle, dodder species or perennial sow thistle in excess of five per ounce. (4) If such seeds or mixtures contain more than 3% by weight of weed seeds. (5) If seeds found on the market are improperly labeled or do not meet the guarantee of the seedsman. (6) If it is found by the Department laboratory that the labels do not show the correct purity germination and noxious weed seed content. (7) Any seed registered in violation of the law or rules and regulations.

CERTIFIED SEED. Seed that has been produced and labeled in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed-certifying agency.

- including other weeds, singly or collectively.
- (6) Percentage of other agricultural seed.
- (7) Percentage of:
 - a. Germination, including hard seeds.
 - b. Hard seeds.
 - c. Month and year of test. Test shall have been completed within a twelve month period, exclusive of the month in which it was completed.
- (8) Origin of alfalfa, seed grains and corn.
- (9) Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.
- (10) Name and number per ounce of each

Dobbins New Improved Wheelbarrow Duster



The most efficient, convenient and practical duster of this type ever developed. A one man traction type outfit for all row crops such as potatoes, berries, tobacco, cotton, beans, cabbage, etc.

Large 24 in. pneumatic tired wheel. Easily handled on any soil. Lever control to throw duster in and out of gear. Nozzles adjustable to rows in any width up to 72 in. apart and to any height from ground to 36 in.

Machine cut gears run in a dustproof case. The powerful gear driven fan develops a fine enveloping dust cloud to the plants.

The Finest Hand Duster Made



No. 132 Duster

Handles all insecticides for dusting all garden and field crops. A new principle assures a uniform discharge down to the last particle of dust in the dust chamber. Self-lubricating plunger and patented two-way cap for dusting top and under side of leaves.

We Manufacture a Complete Line of

Sprayers—Dusters—Planters

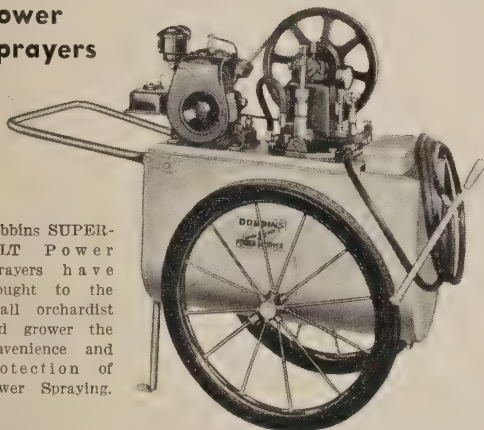
Feature the DOBBINS SUPERBILT LINE in your catalog. Electrotypes and copy furnished on request. Write today.

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Elkhart, Ind.

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Power Sprayers



Dobbins SUPERBILT Power Sprayers have brought to the small orchardist and grower the convenience and protection of Power Spraying.

Strong, dependable pump units deliver from 1½ gals. to 6½ gals. per minute and will develop pressures up to 400 lbs. Electric welded tanks in sizes up to 200 gallons.

Special Power Sprayer Catalog will be furnished on request.



Sprayers with Electric-Welded Tanks

Dobbins line of compressed air sprayers contains many patented features such as self-lubricating pressure seal valve plungers, unit pump construction, bighead or FUN-L-FILL tanks, trigger quick spray lock, positive chemical proof air valves. The No. 21 sprayer illustrated above has a 3½ gallon galvanized or copper tank electrically welded at all seams. Pressure safe—leakproof.

SWEET and FIELD CORN

*Produced under Standards
that Assure Top Quality*

- Extensive breeding, research and testing program assures you the benefit of the latest and best in hybrids—enables us to offer valuable assistance to you in choosing varieties best suited to your requirements. Every strain tested for yield, stand-up-ability, maturity. Sweet corn also tested for sweetness, tenderness.
- Purest foundation lines produced by our own breeding department or secured direct from State Universities.
- Seed fields in fertile valleys naturally isolated by hills and trees.
- Planting and roging under supervision of experienced, specialized personnel.
- Detasseling by our own crews under constant supervision by both our own and State inspectors.
- Each lot of seed harvested, dried, processed and tested separately.
- Every ear inspected before and after drying.
- Every lot germination tested three times in duplicate, the last time by State deputies.

*Northern Bred Seed Corn
Exclusively Since 1908*



kind of secondary noxious weed seeds present singly or collectively in excess of:

- a. 1 in each 25 grams of redtop, Canada blue grass, Kentucky blue grass and seeds of similar size and weight, or smaller, and mixtures of such seeds.
- b. 1 in each 50 grams of timothy, orchard grass, reed canary grass, smooth brome grass, alsike, white and red clovers, rape, alfalfa, sweet clover, rye grasses, millets, flax and seeds of similar size and weight and mixtures of such seeds.
- c. 1 in each 150 grams of sudan, proso, and seeds of similar size and weight, and mixtures of such seeds.
- d. 1 in each 300 grams of sorghums, buckwheat and seeds of similar size and weight, and mixtures of such seeds.
- e. 1 in each 500 grams of vetches, cereals, field corn, beans, field and canning peas, cowpeas and seeds of similar size and weight and mixtures of such seeds.

(B) Mixed Agricultural Seeds. Every lot.

Same as for unmixed agricultural seed, except that it must be called "Mixed" or a "Mixture," and the information required under items (A) 1, 3 and 7 shall be given for each agricultural seed present in excess of 5%.

(C) Vegetable seeds. Every lot.

- (1) Name of kind and variety.
- (2) For seed which germinates less than the standard last established by the department. (See page 102 for standards.)
 - a. Percentage of germination.
 - b. Month and year of test. Test shall have been completed within a twelve month period, exclusive of the month in which it was completed.
 - c. Marked "BELOW STANDARD" in not less than 8-point type.
- (3) Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.

"STOP SALE"

Whenever the department or any of its duly qualified inspectors shall find in any warehouse, store, freight depot, car, truck or place of business, a lot of seed which appears to be offered for sale in violation of the seed laws of this state or regulations promulgated by this department, the inspector shall obtain fair and representative samples of such seed, mark the same for identification, and forward the same to the department for analysis. At the time of obtaining the samples, the inspector shall notify the owner or custodian of such seed in writing that the sale thereof appears to be in violation of law. The lot of seed shall not thereafter be sold or removed from the premises without permission or release by the department. The department shall cause an analysis to be made of such seed and report its findings to the owner or custodian of the seed. The analysis and report shall be made within 15 days of the date of taking the sample.

If it shall appear, from the official laboratory examination of any lot of seed, that it does not meet the requirements of the statute or is not labeled in accordance with the provisions of the seed law of the state or regulations promulgated by the department, the vendor of such seed shall be notified and be given an opportunity for a hearing under the rules and regulations of the department.

SEED LABORATORY AND TESTS

State Seed Laboratory, Agronomy Building, Madison, Wisconsin.
Henry Lunz, Analyst in charge.
Fees for testing seed—25 cents, except mixtures which shall be 25 cents for each component present in excess of 5%.

ENFORCEMENT

Department of Agriculture and Markets, Ralph E. Ammon, Director, State Capitol, Madison, Wisconsin.
Seed and Weed Control Section, Henry Lunz.

Permit.

No person shall sell, offer or expose for sale in Wisconsin any agricultural or vegetable seeds without securing a permit from the Department of Agriculture, a separate permit is required for each place of business, fee \$1.00.

Permit not required for:

- a. Persons selling, offering or exposing for sale, seed of their own production, provided it is sold and delivered to the purchaser only on the farm or premises where grown.
- b. Persons selling seed which has been

Dakota Improved Seed Co.

**Wholesale Seeds
MITCHELL, SO. DAKOTA**

BRANCHES

Redfield,
South Dakota

Emmetsburg,
Iowa

Disco
SEEDS

Supplying Seed of Highest
Quality for 37 Years, Straight
from the Producing Sections.

Producers of

Disco Hybrid Corn

Distributors of Genuine

Waconia Sorghum Cane

Recleaners and Distributors

ALFALFA

S. Dak., Wyo., Mont., Common,
Grimm, Cossack, U. S. Verified and
State Sealed.

CRESTED WHEATGRASS
SLENDER WHEATGRASS
WESTERN WHEATGRASS
BROME GRASS, Canadian

and Domestic

KENTUCKY BLUE GRASS

DWARF ESSEX RAPE,

Idaho Grown

Straight or mixed cars.

Truck loads or bag lots.

Correspondence invited.

packaged and distributed by seedsman having permit.

REGULATIONS

1. The Wisconsin Agricultural Experiment Association is approved as the agency satisfactory for the performance of seed certification in Wisconsin. In other states and in Canada the department approves that agency officially recognized by the department of agriculture of that state or province as satisfactory for the performance of seed certification.
2. White Blossom Sweet Clover seed containing 5% or more of mottled seed shall not be labeled as White Blossom Sweet Clover seed but shall be labeled Sweet

3. Clover seed.
 - a. Seed containing hard seed shall be labeled by one of the following methods:
 - i. Germination% including% hard seed.
 - ii. Germination including hard seed%
Hard seed%
 - iii. Germination%
Hard seed%
Germination and hard seed.....%
4. The methods and procedures used in making purity analyses and germination tests shall be those adopted by the U. S. Department of Agriculture in the administration of the Federal Seed Act.

- (b) Agricultural or vegetable containing 2% or more of weed seeds.

LABORATORY AND TESTS

Agricultural Experiment Station.
Laramie, Wyoming. Lambert C. Erickson, analyst.

TESTS.

Any person or firm may have 2 samples tested a year free of charge. Samples submitted for test over that number will be charged the following fees:
Purity or purity and germination..... 50 cents
Germination only 25 cents

WYOMING

Law 1941—Amended 1943

INFORMATION REQUIRED FOR:

(A) Agricultural Seeds. Five pounds or more.

- (1) Commonly accepted name of:
 - a. Kind and variety or,
 - b. Kind and type.
- (2) Lot number or other lot identification.
- (3) Percentage of pure seed.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds. Prohibited if 2% or more.
- (6) Percentage of other agricultural seeds.
- (7) Percentage of:
 - a. Germination.
 - b. Hard seeds.
 - c. Month and year of test.
- (8) Origin of seed.
- (9) Full name and address of person, firm or corporation selling, offering, exposing or transporting seeds for sale.

(B) Mixed Agricultural Seeds. Five pounds or more.

Same as for unmixed agricultural seeds, except that the requirements under items (A) 1, 3 and 7 shall be given for each kind or variety present in excess of 5%.

(C) Vegetable Seeds. Five pounds or over.

Label as (A) Agricultural Seeds.

NOXIOUS WEEDS

Cocoa grass—Cyperus rotundus; horse nettle—Solanum carolinense; Austrian field cross—Roripa austriaca; camel thorn—Alhagi camelorum; Canada thistle—Cirsium arvense; field bindweed—Convolvulus arvensis; leafy spurge—Euphorbia esula; perennial ragweed—Ambrosia psilostachya; perennial sow thistle—Sonchus arvensis; quack grass—Agropyron repens; Russian knapweed—Centaurea repens; St. John's wort—Hypericum perforatum; whitetop—Lepidium repens and draba; flowering spurge—Euphorbia corollata; ox-eye daisy—Chrysanthemum leucanthemum; spreading dogbane—Apocynum androsaemifolium; yellow cress—Roripa sylvestris; White leaved Franseria—Franseria discolor; Austrian peaweed—Swainsona salsula; lance-leaved sage—Salvia lanceolata, Dodder—Cuscuta spp.

PROHIBIT THE SALE, OFFERING OR EXPOSING FOR SALE OF:

- (a) Agricultural or vegetable seed containing any of the seeds of the named noxious weeds.

ENFORCEMENT

UNDER THE COMMISSIONER OF AGRICULTURE.

"STOP SALE" any agricultural or vegetable seeds containing noxious weed seeds shall be removed from sale and impounded by the Commissioner of Agriculture, his duly authorized seed inspectors or agents and shall be released only upon the following conditions:

- a. Complete destruction.
- b. Removal outside the boundaries of the state.
- c. Re-cleaned so that no noxious perennial weed seeds are present.

CERTIFICATE OF REGISTRATION shall be obtained by each person, firm, or corporation before selling, offering or exposing for sale or distribution any agricultural or vegetable seed, such certificate expiring December 31st of each year.

Applications for certificate of registration shall be accompanied by:

- a. Name and address of the person, firm, or corporation to which the certificate is to be issued.
- b. The location of the place of business.
- c. Payment of one dollar (\$1.00).
- d. Processing in such a way as to make the weed seeds nonviable, and sold as feed.

ADDITIONAL FEATURES

STATE TAG. The authorized labeling tag may be furnished by the State Department of Agriculture at a cost of one cent each.

SPEED UP POST WAR FOOD PRODUCTION!!

When Grinding Capacity Is Booked Ahead—Depend Upon

"JAY BEE"

World's Standard Grinder for Capacity, Economy, Durability

WHAT a tremendous job feed processors will have after the war. Demands are plenty heavy now. In the future they will be even greater.

The "Jay Bee" will handle the toughest grinding jobs—takes all that you can give it. When your grinding capacity is booked ahead, when you are short of labor, you can depend upon the "Jay Bee" to save time and labor, and deliver the greatest capacity for the horse power used.

For nearly a quarter century, the Bossert (proud possessor of the Army-Navy "E") made "Jay Bee" all steel hammer mills outlasts 'em all, outgrinds 'em all. Heavy boiler-plate and alloy-steel construction makes the "Jay Bee" practically indestructible. It grinds more

feed at less cost per ton than any other hammer mill. "Jay Bee" grinds everything grindable to any degree of fineness, cool and uniform.

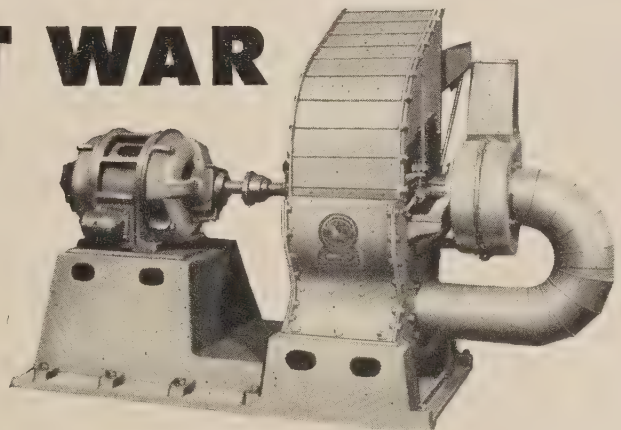
Sizes and styles for every grinding requirement: 12 HP to 200 HP with belt, V-belt, and direct-connected drives. Batch Mixers, Corn Crackers, Molasses Mixers.

Maintain Service Contact with Farmers

PRESENT, and post-war conditions will greatly increase farm grinding demands. The "Jay Bee" Portable solves this problem—and helps you increase sales of your mixed feeds and supplements.

Write for descriptive literature, prices, terms, etc. Please state your capacity requirements.

J. B. SEDBERRY, INC., DEPT. 78, FRANKLIN, TENN., UTICA, N. Y.



SEEDS

We Sell—

We Buy

BLUE GRASS

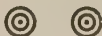
ALFALFA

CLOVERS

LESPEDeza

GRASSES

FORAGES



Since 1887

Peppard Seed Co.

Kansas City, Mo.

SCREENINGS of any seeds or grains offered or exposed for sale shall be labeled as such and not sold as seed. They shall be free of noxious, perennial weed seeds. Screenings

found to contain noxious weed seeds shall be subject to seizure and destruction by the Commissioner of Agriculture, his duly authorized agents or inspectors.

FEDERAL SEED ACT—INTERSTATE COMMERCE

August 1939

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(A) Agricultural seeds (unmixed) Every lot, effective February 1940

- Name of:
 - Kind or
 - Kind and variety or
 - Kind and type.
- Lot number or other identification.
- Percentage of pure seed.
- Percentage of other crop seed.
- Percentage of inert matter.
- Percentage of weed seeds.
- Name of noxious weed seed and rate of occurrence expressed in accordance with and not to exceed the rate allowed by the law and regulations of the State into which the seed is transported.
- Percentage of germination exclusive of hard seeds.
- Percentage of hard seeds if present.
- Calendar month and year germination test was completed. No more than 5 calendar months shall have elapsed between the last day of the month in which the germination test was completed and the date of transportation or delivery for transportation in interstate commerce. (Regulation.)
- Origin of alfalfa, red clover and field corn except hybrid corn; if unknown, that fact shall be stated. Whenever such seed originates in more than one State, the name of each State and the percentage of seed originating in each State shall be given in the order of its predominance. (Regulation.)
- Name and address of person transporting the seed in interstate commerce or the name of person to whom the seed is shipped together with the code designation of the shipper.

(B) Mixtures

As unmixed except that the information required under items 1, 3, 8, 9, 10 and 11 shall be given for each agricultural seed component present in excess of 5% of the whole.

(C) Vegetable seeds—Effective August, 1940

- Name of kind and variety.
- Name and address of person who transports the seed in interstate commerce or the person to whom the seed is shipped, together with the code designation of the shipper.

For seed which germinates less than the Standard established by the Secretary of Agriculture:

- Percentage of germination exclusive of hard seed.
- Percentage of hard seed, if present.
- Calendar month and year the test was completed. No more than 5 calendar months shall have elapsed between the last day of the month in which the germination test was completed and the date of transportation or delivery for transportation in interstate commerce. (Regulations.)
- The words "Below Standard" in 8 point type.

CERTIFIED OR REGISTERED SEED.—The terms "certified seed" and "registered seed" mean seed that has been produced in accordance with the procedures and in compliance with the rules and regulations of an officially recognized seed-certifying agency.

HYBRID SEED CORN.—The term "Hybrid seed corn" means the first-generation seed of a cross produced by controlling the pollination, and by combining two, three, or four inbred lines, or by combining on inbred line or a single cross with an open-pollinated variety.

Hybrid designations shall be treated as variety names.

RECORDS.—Each person handling agricultural seed subject to the act shall keep for a period of 3 years a complete record of each lot of agricultural seed handled, except that any seed sample may be discarded 1 year after the entire lot represented by such sample has been disposed of by such person.

SCREENINGS.—Screenings of any seed subject to this Act, unless they are not intended for seeding purposes; and it is stated on the label, if in containers, or on the invoice if in bulk, that they are intended for cleaning, processing, or manufacturing purposes, and not for seeding purposes, shall not be shipped in interstate commerce. The term "screenings" means chaff, sterile florets, immature seed, weed seed, inert matter, and any other materials removed in any way from any seeds in any kind of cleaning or processing and which contains less than 25% of live agricultural or vegetable seeds.

AGRICULTURAL MARKETING SERVICE ANNOUNCEMENTS:

Aug. 24, 1940—The use of "Affidavit Grimm Alfalfa" phrase is prohibited. The word "affidavit" is not a part of the name of the kind, type or variety which is required to be stated on the label.

Sept. 23, 1940—Labeling Sweet Clover: If there is any uncertainty as to the proportion of sweet clover that is white blossom, the seed should be labeled as to kind only; namely, sweet clover. It is suggested that shippers of domestic sweet clover seed in interstate

*Growers
of
Watermelon
and
Crotalaria
Seed*



Also

NURSERY STOCK



Serving the trade for 40 years

**LET US KNOW YOUR
REQUIREMENTS**

SIMPSON NURSERY CO.
MONTICELLO, FLORIDA



Timothy
Red Clover
Alsike
Sweet Clover

Hardy
Alfalfas

Car Lots or Less

NORTHERN
Field Seed Co.
 Winona - Minnesota

commerce will be adequately protected if they assume that yellow blossom sweet clover is present in the seed in a quantity four times the quantity of mottled seeds present. For example, if a sample of sweet clover contains 1.3% of mottled seed, it should be considered to contain 5.2% yellow blossom sweet clover. The seed, therefore, should be labeled as sweet clover or in such a manner as to show that it is a mixture consisting of white blossom and yellow blossom sweet clover and the percentage of each. Yellow blossom sweet clover is considered "other crop seed" when present in seed labeled "white blossom sweet clover."

Aug. 6, 1941—The importation of mixtures, in any combination, of seed of suckling clover (*Trifolium dubium*), white clover (*Trifolium repens*), or cluster clover (*Trifolium glomeratum*), for planting is not detrimental to the use of such seeds.

Sept. 1940—Service tests on seeds in the Washington laboratory of the Agricultural Marketing Service has been discontinued because of the amount of routine testing and other activities required in the administration of the Federal Seed Act. The extent of service testing in the Federal-State seed laboratories is to be determined by the officials of the states in which the laboratories are located.

UNIT WEIGHTS FOR USE IN INTERSTATE COMMERCE

Weights for PURITY TEST	Unit Weight for Noxious Weed Determination
1 gram Agrostis spp., Poa spp., Rhodes grass, Bermuda grass.....	25 grams
2 grams Timothy, orchard grass, fescues (except meadow fescue) alsike and white clover, carrot, reed canary grass, Dallis grass.....	50 grams
5 grams Rye grass, meadow fescue, foxtail millet, alfalfa, red clover, sweet clover, lespezea.....	50 grams
10 grams Smooth brome, crimson clover, Brassica spp., flax, Agropyron spp.....	50 grams
25 grams Proso, Sudan grass.....	150 grams
50 grams Sorghums, buckwheat, beet	300 grams
100 grams Vetches, cereals (except corn).....	500 grams
500 grams Corn, beans, peas, cow-peas, soybeans.....	500 grams

DISTRICT OF COLUMBIA

Federal Seed Act—Interstate Commerce 1939

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) **Agricultural seeds (unmixed). Every lot.**

Same requirements as under the Federal Seed Act except for labeling:
 Noxious weeds.
 Give name and number per ounce.

(B) **Mixtures of Agricultural Seeds. Every lot.**

Same requirements as under the Federal Seed Act except for labeling:
 Noxious weeds.
 Give name and number per ounce.

(C) **Vegetable Seeds. Every lot.**

Same requirements as under the Federal Seed Act.

NOXIOUS WEEDS.

Bermuda grass—*Cynodon dactylon*
 Bindweed—*Convolvulus arvensis*
 Canada thistle—*Cirsium arvense*
 Quack grass—*Agropyron repens*
 Wild onion—*Allium vineale*

Customer
Satisfaction

REPEAT BUSINESS



ALWAYS NO. 1 GRADE

The name Funk is known by dealers and farmers from coast to coast as a source of dependable seed. It is profitable to be a Funk dealer as we carry a full line of field seeds with an unusual record of farmer acceptance.

RECORD YIELDS
CONSISTENT
PERFORMANCE



The forward march of Funk's "G" Hybrid Seed corn popularity is reflected in greater sales volume for Funk's "G" Dealers each succeeding year.

PIONEER SOYBEAN PROCESSORS

Makers of Funk's Soybean Oil Meal and Funk's Minrol-Soy (Mineralized soybean oil meal).

FUNK BROS. SEED CO.
Bloomington, Illinois

VEGETABLE SEEDS—PRODUCTION 1939-1943

United States Department of Agriculture, Bureau of Agricultural Economics, Washington, D. C.

KIND OF SEED	Average 1939-42	1939	1940	1941	1942	1943 ¹
Beans, Dwf. Gr	26,966,402	17,387,904	20,241,156	30,373,947	39,862,603	51,434,000
Beans, Dwf. Wax	3,807,118	3,768,534	3,013,157	3,790,539	4,656,244	7,289,980
Beans, Pole	5,752,902	3,577,793	4,821,380	5,849,270	8,763,167	10,356,984
Beans, Dwf. Lima	10,764,844	6,685,413	11,827,928	9,822,272	14,723,764	16,045,894
Beans, Pole Lima	1,095,088	630,689	1,038,905	926,798	1,783,962	1,712,359
Beet, Garden	1,525,592	2,160,448	954,341	817,564	2,170,013	2,202,000
Beet, Mangelwurz.	89,793	28,165	16,953	111,587	202,467	749,000
Broccoli ²	46,687	³	11,606	30,424	98,030	35,700
Brussels Sprouts ²	226	³	80	340	259	2,700
Cabbage	469,395	474,031	135,373	662,631	605,545	4213,000
Cabbage, Chinese ²	7,683	³	50	2,258	20,740	76,100
Carrot	1,287,678	1,197,673	750,882	986,406	2,215,749	3,933,000
Cauliflower ²	28,011	³	12,745	19,581	51,707	57,000
Celery	34,249	59,915	11,976	18,049	47,057	54,150
Chard, Swiss	171,226	101,152	72,731	129,312	381,711	346,000
Chicory	10,036	7,068	9,464	5,415	18,198	49,530
Corn, Sw., Hybrids	4,928,211	2,422,446	3,607,796	7,401,726	6,280,875	9,969,000
Corn, Sw., Vars	5,022,797	4,844,482	3,374,775	6,064,718	5,807,214	7,536,000
Corn, Non-sweet	982,038	1,232,036	669,243	812,607	1,214,265	1,242,150
Cucumber	523,327	428,957	508,381	433,151	722,819	1,148,000
Dill	22,726	7,133	18,563	45,049	20,157	56,920
Eggplant	15,269	18,222	7,652	20,361	14,840	17,675
Endive	78,731	100,034	42,471	46,665	125,753	135,380
Kale ²	35,964	³	20,000	42,037	45,855	150,900
Kohlrabi ²	5,227	³	0	30	15,651	12,550
Leek ²	11,095	³	400	11,347	21,539	66,000
Lettuce, Heading	675,565	620,247	789,446	737,762	554,805	664,000
Lettuce, Loose Leaf	279,522	226,424	327,624	351,387	212,653	556,000
Lettuce, Romaine	102,044	58,230	71,060	142,053	136,832	80,000
Muskmelon	376,143	406,935	414,143	349,724	333,771	732,005
Watermelon	685,134	480,168	804,096	762,491	693,779	608,550
Mustard	196,711	141,577	91,898	258,378	294,992	1,342,600
Okra	111,228	210,601	83,822	102,990	47,498	96,760
Onion	562,518	413,787	351,536	642,022	842,725	1,461,000
Parsley	221,830	158,397	232,990	231,509	264,425	263,380
Parsnip	177,756	97,365	159,244	194,593	259,824	178,100
Peas, Smooth	71,627,936	28,859,494	51,317,325	92,891,354	113,443,573	94,563,947
Peas, Wrinkled	77,568,780	44,080,711	56,556,729	93,881,003	115,756,676	123,682,000
Pepper	82,634	63,629	51,289	101,257	114,362	98,738
Pumpkin	78,913	43,005	73,885	76,218	122,544	213,540
Radish	1,781,636	895,344	1,226,279	2,392,565	2,612,358	2,637,000
Salsify	19,934	15,697	42,833	12,257	8,949	9,840
Spinach	1,987,308	139,082	376,082	2,991,347	4,442,722	5,153,000
Squash, Summer	370,202	214,429	338,487	446,060	481,831	597,000
Squash, Winter	184,144	184,941	195,705	152,054	203,875	353,000
Tomato	356,793	326,117	293,608	395,121	412,326	349,000
Turnip	1,446,686	1,034,958	1,620,072	1,667,771	1,463,942	1,154,000
Rutabaga	227,504	82,240	179,299	161,700	486,779	378,000
TOTAL	222,769,513	123,885,473	166,765,460	267,365,700	333,061,425	350,063,432

¹ Prospective.

² 3-year average.

³ Indicates that figures have been omitted so as not to reveal the operations of an individual grower.

⁴ This quantity does not include approximately 125,000 pounds of seed produced from fields of cabbage grown in California for processing and shipping.

*Vegetable Seed
for Domestic
and
Foreign Trade*

BEET	KOHLRABI
BROCCOLI	LEEK
BRUSSELS SPROUTS	LETTUCE
CABBAGE	MANGEL
CHINESE CABBAGE	MUSTARD
CANTALOUPE	ONION
CARROT	PARSLEY
CAULIFLOWER	PEPPER
CELERY	RADISH
CHICORY	RHUBARB
COLLARDS	RUTABAGA
CRESS	SPINACH
CUCUMBER	SQUASH
EGG PLANT	Swiss Chard
ENDIVE	TOMATO
KALE	TURNIP

HERBST BROTHERS

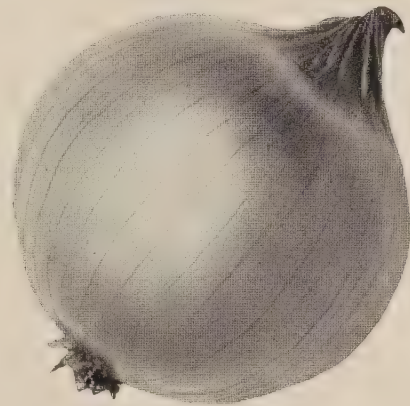
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New York 7, N. Y.

CONDON'S



*Satisfy the Most
Critical Planters*



Extensive Growers of

BEANS	PEAS
SWEET CORN	BEEF
ONION	CARROT
LETTUCE	RADISH

AND ALL STANDARD

GARDEN SEED

WRITE TODAY FOR
SPECIAL
DEALER PROPOSITION

CONDON BROS. SEEDSMEN

Rock River Valley Seed Farm
Box AA, ROCKFORD, ILLINOIS

VEGETABLE-SEED STOCKS ON JUNE 30, 1939-43

(Reported to the Division of Agricultural Statistics, Bureau of Agricultural Economics, U. S. D. A., by 243 dealers)

KIND	1939	1940	1941	1942	1943	
					Total	Unsold
<i>Thousand Pounds</i>						
Beans, Dwarf Green.....	22,782	16,175	10,513	7,781	8,606	2,903
Beans, Dwarf Wax.....	5,417	4,984	3,688	2,467	1,164	729
Beans, Pole.....	3,514	2,600	2,314	2,327	2,375	1,399
Beans, Dwarf Lima.....	4,328	2,467	3,898	3,599	4,609	1,940
Beans, Pole Lima.....	639	422	486	403	768	354
Beet, Garden.....	1,853	2,224	1,334	496	440	207
Mangelwurzels.....	267	168	99	59	71	36
Broccoli.....	20	27	28	23	78	40
Brussels Sprouts.....	6	5	2	4	1	1
Cabbage.....	1,020	1,122	595	604	459	184
Cabbage, Chinese.....	28	31	19	10	13	9
Carrot.....	1,079	971	369	210	377	197
Cauliflower.....	57	50	23	19	19	3
Celery.....	62	66	33	28	41	11
Chard, Swiss.....	182	133	53	65	148	88
Chickory.....	8	10	7	4	6	3
Collard.....	194	97	102	148	165	71
Corn, Sweet, Hybrids.....	2,719	1,550	558	1,341	622	399
Corn, Sweet, Varieties.....	3,492	3,841	2,113	2,384	1,380	776
Corn, Non-Sweet.....	415	515	237	430	639	129
Cress.....	2	1	1	4	2	1
Cucumber.....	1,758	1,354	961	542	360	162
Dill.....	8	9	7	8	16	7
Eggplant.....	17	20	10	19	11	5
Endive.....	74	119	99	47	81	35
Kale.....	90	84	39	25	34	19
Kohlrabi.....	22	22	12	3	4	2
Leek.....	16	9	1	1	2	1
Lettuce, Heading.....	451	379	398	380	233	106
Lettuce, Loose-Leaf.....	246	177	193	214	100	67
Lettuce, Romaine.....	37	29	19	26	28	15
Muskmelon.....	415	394	311	346	331	188
Watermelon.....	508	335	385	492	561	336
Okra.....	133	130	135	150	96	37
Mustard.....	513	436	227	140	117	66
Onion.....	867	468	131	51	122	54
Parsley.....	171	142	121	137	99	47
Parsnip.....	84	65	33	63	99	41
Peas, Smooth.....	27,841	4,733	2,130	14,422	26,745	12,245
Peas, Wrinkled.....	66,955	42,851	12,427	17,754	25,421	6,150
Pepper.....	102	100	57	82	94	47
Pumpkin.....	140	144	134	153	151	92
Radish.....	2,021	1,455	1,106	1,517	1,442	591
Salsify.....	40	21	38	21	11	4
Spinach.....	1,582	1,598	623	823	1,906	853
Squash, Summer.....	307	215	202	246	269	116
Squash, Winter.....	208	158	107	132	118	48
Tomato.....	306	334	296	274	164	83
Turnip.....	2,197	2,197	1,714	1,613	1,356	627
Rutabaga.....	295	251	163	127	158	46
Total all kinds.....	155,488	95,688	48,551	62,214	82,112	31,570

PRATT'S SPRAYS

Mean Extra Profits for You!



Pratt's Sprays cover the complete field of spraying in the orchard, garden, greenhouse, and public parks. Attractively packed, sensibly merchandised, and well-known throughout the fruit growing world. These products on your counters mean money for you as they are preferred by those who know spraying best, yet are priced within the reach of all. Pratt's products carry a profitable margin of profit to the trade, and are accompanied by Pratt's Service and Dealer Helps.

B. G. PRATT COMPANY
Wholesale Department

50 Church Street

New York, N. Y.

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The SOIL CONDITIONER
and
PROTECTIVE MULCH

Widely used by Florists, Nurserymen and Amateurs. Write for our dealer proposition.

RAFFIA

Madagascan Raffia available (subject to war conditions) in our four exclusive standard brands.

RED STAR
XX SUPERIOR
XXX SUPERIOR
AA WESTCOAST

also

McH. ARROW BRAND CONGO RAFFIA

CANE STAKES

Imported Bamboo Cane Stakes in every size—length—thickness

AUSTRALIAN GRASS SEEDS

FLOWER BULBS

In Season

TULIPS	DAFFODILS
PAPERWHITES	LILIES
F. L. CALADIUMS	GLADIOLI

and others

McHUTCHISON & CO.

Established 1902

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GROWERS

of



U. S.

BRAND

Peas & Beans

Sweet Corn

and a Complete Line of

Garden Seeds

Select Strains



Wholesale Only



U.S. SEED CO.

Established in 1908

Main Office, St. Louis, Mo.

Growing Station, Filer, Idaho

GROWN by LUPTON

CAULIFLOWER

The finest Snowball, Erfurt and Winter types.

CABBAGE

Both European and American strains.

BEET

The original stocks of Lupton Perfected Detroit and Ohio Canner for the most exacting canning requirements.

KOHLRABI

White and Purple Vienna.

KALES

Moss Curled and Blue Scotch Curled Siberian.

SPINACH

Special strains for stock seeds.



J. M. LUPTON & SON
MATTITUCK, LONG ISLAND, N. Y.

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College Station: Pullman; E. C. Johnson.¹
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WEST VIRGINIA—Morgantown: C. R. Orton.¹
WISCONSIN—Madison: E. B. Fred.¹
WYOMING—Laramie: J. A. Hill.¹
¹ Director. ² Acting Director. ³ Superintendent.

Vegetables at a Glance

A digest of the leading varieties for commercial and home use

BEANS

Variety	Season	Plant	Pod		Seed Color
			Shape	Color	
Asgrow Stringless	Early	Bush, large	Straight, round	Med. green	Mottled purple
Tendergreen					
Black Valentine	Early	Bush, large	Straight, oval	Deep green	Black
Stringless					
Blue Lake	Mid	Pole, large	Round, straight	Med. green	Ivory white
Bountiful	Early	Bush, medium	Straight, flat	Light green	Straw
Brittle Wax	Mid	Bush, large	Sl. curved, round	Med. yellow	White, black eye
Burpee's Stringless	Early	Bush, medium	Curved, round	Med. green	Coffee-brown
Cornfield	Late	Pole, large	Straight, round	Med. green	Mottled buff
Decatur	Early	Pole, large	Near straight	Bright green	Ivory white
Dwarf Hort.	Mid	Bush, medium	Shorter than French's	Mott. carmine	Mottled
Florida Belle	Early	Bush, medium	Straight, oval	Med. green	Buff, mottled
French's Hort.	Late	Bush, medium	Straight, broad	Green and carmine	Mottled red
Full Measure	Early	Bush, large	Straight, round	Med. dark green	Mottled brown
Giant Stringless	Early	Bush, medium	Sl. curved, round	Med. green	Yellowish brown
Golden Wax	Early	Bush, medium	Straight, oval	Waxy yellow	Mottled white
Ideal Market	Early	Pole, medium	Curved, round	Sil'ry green	Black
Kentucky Wonder	Mid	Pole, large	Curved, round	Med. green	Buff
Kidney Wax	Mid	Bush, medium	Curved, oval	Med. yellow	White, black eye
Lazy Wife	Late	Pole, medium	Clusters, oval	Med. green	White
London Hort.	Late	Pole, large	Curved, thick	Dark green splashed	Mottled Red
McCaslan	Mid	Pole, large	Curved, thick flat	Med. green	Ivory
Pencil Pod	2nd Early	Bush, medium	Curved, round	Med. yellow	Black
Plentiful	Early	Bush, medium	Straight, flat	Light green	Black
Potomac	Early	Pole, medium	Straight round	Dark green	Black
Red Valentine	2nd Early	Bush, medium	Curved, round	Med. green	Mottled buff
Refugee Stringless	Late	Bush, large	Straight, round	Light green	Mottled purple
Sure Crop	2nd Early	Bush, large	Straight, thick	Deep yellow	Black
Tenn. Green Pod	Early	Bush, medium	Very large, stringy	Dark green	Med. brown
Webber Wax	Early	Bush, dwarf	Straight, flat	Bright yellow	Yellowish buff
Whit. Creaseback	Mid	Pole, medium	Sl. curved, round	Med. green	Ivory

GARDEN CORN

Variety	Season	Ears				Stalk in Feet
		Color	Length Inches	Rows	Type	
Adams Extra	Early	White	6	12-14	Roasting	5
Alameda	Main	White	7	12-16	Sweet	5
Allegheny*	Main	Yellow	7½	18-22	Sweet	7
Bantam Evergreen	Late	Yellow	8	14-18	Sweet	7
Black Mexican	Main	White	8	8	V. sweet	7
Charlevoix	Main	Yellow	6½	10-12	Sweet	5½
Country Gentleman	Late	White	7½	Zig-zag	Sweet	7
Early Evergreen	Late	White	7½	16-20	Sweet	7
Early Market	Early	White	6	10-12	Sweet	4½
Golden Bantam	Main	Yellow	6	8	Sweet	5
Golden Bantam Improved	Main	Yellow	7	10-14	Sweet	5½
Golden Cross Bantam*	Main	Yellow	8	12-14	Sweet	6½
Golden Early Market	Early	Yellow	7	10-14	Sweet	4½
Honey June	Late	White	8	12-16	Semi-sweet	8
Howling Mob	Main	White	7½	12-16	Sweet	7
Ioana*	Main	Yellow	7½	12-14	Sweet	7
Kingscrot 12-row*	Main	Yellow	7	10-14	Sweet	6
Lincoln*	Main	Yellow	7½	12-16	Sweet	6
Marcross*	Early	Yellow	7	12-16	Sweet	5
Oregon Evergreen	Late	White	8	12-14	Sweet	7
Silver Cross Bantam*	Main	White	8	12-14	Sweet	7
Spanscross*	Early	Yellow	6½	10-14	Sweet	5½
Stowell's Evergreen	Late	White	9	16-18	Sweet	8
Tendergold*	Main	Yellow	7½	12-14	Sweet	6
Truckers' Favorite	Main	White	7½	12-16	Roasting	6
Whipple's Early Yellow	Main	Yellow	7	12-16	Sweet	6

*—A hybrid variety.

GARDEN PEAS

Variety	Season	Wilt*	Plant		Pod			Seed	Similar Strains
			Inches	Color	Snap	Color	Inches		
Alaska	1st Early	w. r.	28	Light	Blunt	Light	2½	Smooth	Telephone
Alderman	Main	w. r.	50	Dark	Pointed	Dark	4½	Wrinkled	
Amer. Wonder	Early		12	Dark	Blunt	Light	2½	Wrinkled	Ameer
Bountiful	1st Early	w. r.	30	Med.	Pointed	Med.	3	Dimpled	
Champion of Eng.	Late		50	Med.	Blunt	Light	3	Wrinkled	[No. 40. Icer. Wy. Wonder.]
Dwf. Telephone	Late	w. r.	24	Light	Pointed	Light	4½	Wrinkled	
Everbearing	Late	w. r.	28	Dark	Blunt	Light	3	Wrinkled	Edible Pods
Giant Stride	Late	w. r.	26	Dark	Pointed	Dark	4¾	Wrinkled	
Gilbo	Main	w. r.	26	Dark	Pointed	Dark	4½	Wrinkled	Early Bird
Gradus	Early		32	Med.	Pointed	Med.	4	Wrinkled	
Hundredfold	Early		20	Dark	Pointed	Dark	4	Wrinkled	First & Best
Laxtonian	Early		16	Dark	Pointed	Dark	4¼	Wrinkled	
Lax's Progress	Early		15	Dark	Pointed	Dark	4½	Wrinkled	Edible Pods
Lax's Superb	Early		17	Light	Pointed	Med.	4	Dimpled	
Little Marvel	Early		18	Dark	Blunt	Dark	3	Wrinkled	Edible Pods
Mammoth Sugar	Main		50	Light	Blunt	Light	4	Smooth	
Marrowfat Wh.	Late	w. r.	50	Med.	Blunt	Light	3	Smooth	Edible Pods
Morse's Market	Main		26	Med.	Pointed	Dark	4½	Wrinkled	
Nott's Excelsior	Early		15	Dark	Blunt	Light	2¾	Wrinkled	Edible Pods
Onward	Main		26	Light	Blunt	Dark	2¾	Wrinkled	
Pedigree Ex. Ey.	1st Early	w. r.	26	Light	Blunt	Light	2½	Smooth	Edible Pods
Pilot	Early		30	Med.	Pointed	Med.	3½	Smooth	
Premium Gem	Early	w. r.	22	Dark	Blunt	Light	2¾	Wrinkled	Edible Pods
Stratagem	Late		26	Dark	Pointed	Dark	4½	Wrinkled	
Teton	Main	w. r.	32	Dark	Blunt	Dark	3¾	Wrinkled	Edible Pods
Thomas Laxton	Early		34	Dark	Blunt	Dark	3½	Wrinkled	
World's Record	Early		24	Light	Pointed	Med.	3½	Wrinkled	Edible Pods

*w. r.—Resistant to Fusarium wilt.

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and

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ONION

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Bermuda Onion Plants, Tomato,
Collard, Pepper and Porto
Rico Potato Plants

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OMEGA, GEORGIA

CABBAGE

Variety	Season	Shape	Diam. Inches	Weight in lbs.	Yellows-resistant Strain
All Head	Mid	Med. flat	9	6	All Head Select
All Season	Mid	Flat globe	9	8	Wisc. All Season
Amer. Drumhead	Late	Flat	12	11	
Charleston Wakefield	Early	Conical	6½	4	(Racine Market
Copenhagen Market	Early	Globe	6	3½	(Marion Market
Early Flat Dutch	Mid	Flat	11	10	
Early Round Dutch	Mid	Globe	7½	4½	
Glory of Enkhuizen	Mid	Globe	8	6	Improved Globe
Golden Acre	Early	Globe	6	3	Resist. Gold Acre
Green Acre	Early	Globe	6	3	
Hollander	Late	Globe	7½	6½	Wisc. Hollander
Jersey Wakefield	Early	Conical	5	2½	Jersey Queen
Mammoth Red Rock	Late	Globe	7	7	Red Hollander
Midseason Market	Mid	Globe	8	6	
Penn. State	Late	Flat globe	7½	5½	
Prem. Late Dutch	Late	Flat	10	8	
Red Dutch	Late	Globe	7	7	
Savoy Perfection	Mid	Globe	7	6	
Succession	Mid	Flat globe	10	8	
Winnigstadt	Mid	Conical	6	3½	

LETTUCE

Variety	Season	Type	Size	Outer Color	Seed	Use
Bibb	Early	Butter head	Small	Dark green	White	Home
Big Boston	Mid	Butter head	Medium	Dark green	White	Local
Brown Dutch	Mid	Butter head	Medium	Dark green	Black	Home
Chicken	Mid	Non-heading	Very tall	Dark green	White	Chickens
Dark Green Cos	Mid	Cos	Med. large	Dark green	White	Home
Grand Rapids	Early	Loose	Large	Light green	Black	Forcing
Great Lakes	Mid	Cabbage	Med. large	Med. light green	White	Local
Hanson	Mid	Cabbage	Large	Yellow green	White	Local
Iceberg	Late	Cabbage	Large	Light green	White	Local
Imperial F	Late	Cabbage	Medium	Bright green	White	Shipping
Imperial D	Late	Cabbage	Medium	Bright green	White	Shipping
Imperial 44	Late	Cabbage	Med. large	Light green	White	Shipping
Imperial 152	Late	Cabbage	Med. large	Light green	White	Shipping
Imperial 847	Late	Cabbage	Med. large	Med. light green	Black	Shipping
Imperial 850	Late	Cabbage	Med. large	Med. light green	White	Shipping
May Queen	Early	Cabbage	Med. large	Light green	White	Forcing
New York	Late	Cabbage	Large	Bright green	White	Shipping
New York 12	Mid	Cabbage	Large	Lighter than N.Y.	White	Shipping
New York 515	Mid	Cabbage	Med. large	Brighter than 12	White	Shipping
Prize Head	Early	Loose	Medium	Tinged brown	White	Home
Salamander	Mid	Butter globe	Medium	Med. green	Black	Local
Simpson b. s.	Early	Loose	Large	Light green	Black	Local
Simpson Ey. Curled	Early	Loose	Med. large	Yellow-green	White	Local
Tennisball	Mid	Butter globe	Medium	Med. green	White	Local
White Boston	Mid	Butter head	Medium	Med. green	White	Local
White Paris	Mid	Cos	Med. large	Med. dark green	White	Local

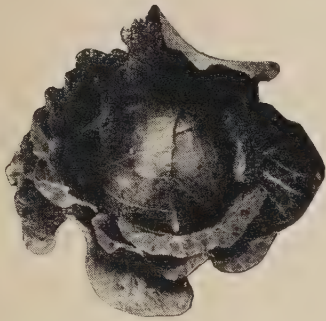
ONION

	Season	Shape	Exterior Color	Notes
Australian Brown	Mid	Flat globe	Brown	Strong flavor
Babosa	Early	Top-shaped	Straw	For S. W. and S.
Brigham Yellow Globe	Mid	Globe	Yellow	Good keeper
Crystal Wax	Early	Flat	White	For S. W. shippers
Early Yellow Globe	Early	Globe	Rich yellow	Good keeper
Ebenezer	Mid	Deep flat	Dk. yellow	For good sets
Golden Globe	Late	Long globe	Rich yellow	Good for sets
Nebuka	Perennial	Bunching	White	Does not bulb
Prizetaker	Mid	Large globe	Lt. yellow	Thin skin
Red Wethersfield	Late Mid	Deep flat	Purple red	For sets & storage
Southport Red Globe	Late Mid	Globe	Purple red	The best red
Southport White Globe	Late Mid	Globe	White	The best white
Southport Yellow Globe	Late Mid	Globe	Orange yellow	Good keeper
Sweet Spanish White	Late Mid	Globe	White	Large size
Sweet Spanish Yellow	Late Mid	Globe	Amber gold	Large size
White Portugal	Mid	Thick flat	White	Pickles & bunching
Yellow Danvers Globe	Mid	Globe	Med. yellow	Standard variety
Yellow Strasburg	Mid	Flat	Yellow	Hardy, keeps well

MELONS

Variety	Season	Shape	Size Inches	Exterior	Wt. lb.	Flesh	Use, etc.
Banana	Main	Long	20x4	Lemon	7	Salmon	Home
Bender's Surprise	Main	Oval	8x7	Deep furrows	7	Salmon	Local
Burrell's Gem	Main	Long Oval	7x5	Heavy net	3½	Pink	Shipping
Cassaba	Late	Round	8x7	Yellow	6	White	Calif. Shipping
Delicious	Early	Oval	6½x6	Ribbed, netted	5½	Salmon	Local
Eden Gem	Early	Globe	5½x5	Thick net	3	Green	Shipping
Emerald Gem	Early	Round	4½x5	Smooth ribs	2¼	Salmon	Home
Fordhook	Early	Oblate	4x5	Netted, ribbed	2	Salmon-yl.	Home
Hackensack	Early	Round	5x6	Deep furrows	3	Green	Home
Hale's Best	Early	Oval	6x5	Heavy net	4	Salmon	Shipping
Hearts of Gold	Main	Globe	6x6	Netted, ribbed	2½	Pink	Shipping
Honey Ball	Late	Globe	5x5	Nr. smooth	3½	Green	All-purpose
Honey Dew	Late	Round	7½x7	Smooth	6	Green	Shipping
Honey Rock	Early	Globe	5½x5	Coarse net	3½	Salmon	Local
Milwaukee Mkt.	Early	Round	7x6	Shallow ribs	5½	Deep Pink	Home
Montreal Mkt.	Main	Round	7x8	Deep ribs	7½	Green	Home
Netted Gem (Rocky Ford)	Main	Round	5½x5	Heavy net	2½	Green	Local
No. 45	Main	Oval	6x5	Heavy net	4	Salmon	Shipping
Osage	Main	Oval	7x6	Dark green	5	Salmon	Home
Perfecto, Impd.	Main	Round	6x5	Medium net	3	Orange	Shipping
Pollock 10-25	Main	Globe	6x5½	Thick net	2½	Salmon	Shipping
Pride of Wisc.	Main	Round	6x5½	Sparse net	3½	Orange	Local
Queen of Colo.	Main	Round	6½x6	Coarse net	4	Orange	Local
Tip Top	Main	Oval	7x6	Slight ribs	6	Salmon	Local

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Lettuce **Spinach**

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PEPPER

Variety	Season	Flavor	Length Inches	Diam. Inches	Color		Shape
					Young	Mature	
Bell	Early	Sweet	3	2 3/4	Green	Red	Blocky
California Wonder	Mid	Sweet	4 1/2	3 1/2	Green	Crimson	Oblong
Cayenne	Mid	Very hot	5	3/4	Green	Red	Long pointed
Chinese Giant	Late	Sweet	4 1/2	4 1/2	Green	Scarlet	Square
Harris' Giant	Early	Sweet	4 1/2	3 1/2	Green	Red	Nr. square
Hungarian	Early	Pungent	6	1 1/2	Yellow	Crimson	Long pointed
Ozark Giant	Mid	Sweet	4 1/2	4 1/2	Green	Scarlet	Squarish
Paprika	Mid	Sweet	4	1 1/4	Green	Dk. red	Tapered
Pimento	Mid	Sweet	3 1/4	2 1/4	Green	Crimson	Heart
Red Chili	Late	Very hot	2	1/2	Green	Dk. red	Tapered
Ruby King	2nd Early	Sweet	5	3	Green	Red	Tapered
Squash (Tomato)	Late	Sweet	1 1/2	2 1/4	Green	Red	Tomato
Tabasco	Late	Hot	1	1/2	Yel-green	Red	Tapered
World Beater	Mid	Sweet	5	3 1/2	Green	Red	Oblong

RADISH

Variety	Season	Days	Outer Color	Shape
Cavalier	Summer	24	Scarlet	Olive
China Rose	Winter	55	Bright red	Oblong, 5' long
China White	Winter	60	White	Oblong, 8' long
Crimson Giant	Summer	30	Deep crimson	Turnip, 1 1/2' diam.
Early Scarlet Globe	Summer	24	Scarlet	Olive to globe
French Breakfast	Summer	25	Scarlet, white tip	Oblong, 1 1/2' long
Icicle	Summer	30	White	Tapered, 5' long
Long Scarlet	Summer	28	Deep scarlet	Tapered, 5' long
Scarlet Turnip white-tipped	Summer	27	Scarlet, white tip	Turnip, 1' diam.
Spanish Long	Winter	56	Black	Cylindrical, 8' long
Spanish Round	Winter	56	Black	Turnip, 3' diam.
Sparkler	Summer	27	Scarlet, white tip	Near globe, 1 1/2' diam.
White Strasburg	Summer	40	White	Tapered, 5' long

TOMATO

Variety	Season	Plant	Fruit		
			Shape	Color	Size
Bonny Best	Main	Medium	Oblate	Red	Med. large
Break o' Day	Early	*Medium	Globe	Red	Medium
Cardinal	Main	Strong	Semi-globe	Red	V. large
Chalk's Jewel	Main	Medium	Fl. globe	Red	Medium
Clark's Early	Early	Prolific	Oblate	Red	Medium
Cooper's Special	Main	Short	Globe	Pink	Medium
Earliana	Early	Short	Fl. globe	Red	Medium
Golden Queen	Late	Medium	Deep flat	Yellow	Large
Greater Baltimore	Main	Large	Flat	Red	Large
Grothen's Globe	Early	*Medium heavy	Globe	Red	Medium
Gulf State Mkt.	Main	Medium	Globe	Pink	Med. large
Jubilee	Main	Short	Globular	Or.-yellow	Medium
June Pink	Early	Short	Fl. globe	Pink	Medium
Livingston's Globe	Main	Strong	Globe	Pink	Large
Marglobe	Main	*Large	Globe	Red	Med. large
Mingold	Main	Medium	Globe	Yellow	Med. large
Oxheart	Late	Sprawling	Heart	Pink	Large
Pan-American	Main	*Medium	Globe	Red	Medium
Ponderosa	Late	Large	Flat	Pink	V. large
Pritchard	Main	*Self-Topping	Nr. globe	Red	Medium
Rutgers	Main	*Large	Globe	Red	Medium
Scarlet Dawn	Early	Medium	Globe	Red	Med. large
Stokesdale	Early	Medium large	Globe	Red	Med. large
Stone	Late	Large	Deep flat	Red	Large

*Varieties so marked are in greater or less degree resistant to disease.

WATERMELON

Variety	Season	Color	Shape	Wt., lbs.	Seed	Use, etc.
Ala. Sweet	Mid	Green, striped	Oblong	25	White, mottled	Shipping
Chilean	Mid	Med. gn., striped	Thick oval	18	Black	Shipping
Cole's Early	Early	Dr. gn., striped	Thick oval	20	Black	Home
Dixie Queen	Mid	Lt. gn., striped	Thick oval	30	White	Shipping
Early Kansas	Mid	Dk. gn., striped	Thick oval	40	Brown	Local
Fla. Favorite	Early	Med. gn., striped	Long oval	30	White	Local
Fla. Giant	Late	Dark green	Round	50	Black	Shipping
Ga. Rattlesnake	Mid	Lt. gn., mottled	Oblong	30	White, blk. tip	Shipping
Golden Honey	Mid	Dark green; flesh yellow	Thick oval	20	Brown	Home
Graystone	Mid	Gray-green	Thick oval	35	White	Local
Halbert's Honey	2nd Early	Dark green	Cylindrical	30	White, blk. tip	Local
Hawkesbury (Grey Shipper)	Mid	Gray, veined	Oblong	35	Dark brown	Shipping, w.r.*
Irish Gray	Late	Light green	Oblong	30	White	Shipping
King & Queen	Mid	Cream, striped	Round	12	Black	Storing
Kleckley's Sweet	Mid	Dark green	Oblong cyl.	30	White, br. tip	Kleckley No. 6 is w.r.*
Klondike	2nd Early	Dark green	Thick oblong	25	Black	Klondike R 7 is w.r.*
Striped do	2nd Early	Green, mottled	Thick oblong	25	Bl. mottled	Shipping
Leesburg	Mid	Deep green	Oblong	30	White	Shipping, w.r.*
Northern Sweet	Early	Gn., thin stripes	Short oval	12	Brown, dk. edge	Home
Peerless	Late	Med. green	Short oblong	20	White	Home
Schochler	Late	Gn., faint stripes	Large, long	45	Brown	Shipping
Stone Mountain	Mid	Med. dk. green	Round-oval	40	White bl.	Stone Mt No. 5 is w.r.*
Thurmond Grey	Late	Gray-green	Long, cyl.	35	Brown	Shipping
Tom Watson	Late	Deep green	Cylindrical	35	Br., mottled	Shipping
Wondermelon	Mid	Dark green	Large oblong	35	White	Local

*w.r.—resistant to Fusarium wilt.

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1/2 Pint Size retails @ 60c Full Pint Size retails @ 95c

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201 W. Elliott Seattle 99, Wash.

CUCUMBER

	Use	Season	Spines	Length Inches	Diam. Inches	Color	Shape
A & C	Slicing	Mid	White	8½	2¼	Dark green	Cylindrical
Arlington	Slicing	Early	White	7½	2¼	Med. green	Semi-blunt
Boston Pickling	Pickling	Early	Black	6	2¼	Med. green	Slight taper
Chicago Pickling	Pickling	Early	Black	6½	2¼	Med. green	Blunt ended
Clark's Special	Slicing	2nd Early	White	8	2½	Dark green	Tapered, blocky
Colorado	Slicing	Mid	White	8½	2¼	Very dark	Cylindrical
Cubit	Slicing	Mid	White	9	2½	Very dark	Cylindrical
Davis Perfect	Slicing	2nd Early	White	8	2¼	Dark green	Tapered
Early Fortune	Slicing	2nd Early	White	8	2½	Dark green	Slight taper
Gherkin	Pickling	Early	Green	2½	1	Light green	Oval
Long Green, Imp'd.	Slicing	Mid	Black	11	2½	Dark green	Straight, warted
Lemon	Slicing	Mid	Black	3	2½	Lemon	Oval
Longfellow	Slicing	Late	White	12	2½	Very dark	Straight, blunt
Marketer	Slicing	Early	White	7½	2	Very dark	Slight taper
Nat. Assn. Pickle	Pickling	Early	Black	6	2½	Dark green	Straight
Snow's Perfection	Pickling	Early	Black	5½	2¼	Dark green	Blunt ended
Stays Green	Slicing	Early	White	7	2¼	Dark green	V. slight taper
Straight-8	Slicing	Mid	White	8	2	Dark green	Cylindrical
Woodruff	Slicing	2nd Early	White	8	2½	Dark green	Taper to ends

LIMA BEANS

Variety	Plant	Pod			Seeds		
		Length Inches	Width Inches	Seeds Per Pod	Size	Shape	Color
Baby Potato	Bush	2¾	¾	3-4	Small	Thick	Bright green
Burpee Imp'd.	Bush, large	5	1¼	4	Large	Thick, flat	Greenish white
Cangreen	Bush, small	2¾	¾	3	Small	Oval	Green
Challenger	Pole	4½	1¼	4	Large	Thick	Pale green
Clark's Bush	Bush, small	2¾	¾	3-4	Small	Oval, flat	Green
Dreer's	Bush, large	3¼	1	3-4	Large	Thick, oval	Greenish white
Florida Butter	Pole	3¼	¾	3	Small	Oval	Buff, speckled
Fordhook	Bush, large	4	1	3-4	Large	Thick, oval	White
Henderson's	Bush, small	2¾	¾	3-4	Small	Oval, flat	White
Jackson Wonder	Bush	3	¾	3-4	Small	Flat	Buff, mottled
King of Garden	Pole	6	1¼	4-5	Large	Thick, flat	White
Large White	Pole	4½	1¼	4	Large	Squarish	White
Seibert's Early	Pole	4½	1¼	4	Large	Squarish	White
Sieva	Pole	3¼	¾	3-4	Small	Flat	White
Small White	Pole	3¼	¾	3-4	Small	Flat, oval	White
Wood's Prolific	Bush	3¼	¾	3-4	Small	Flat, oval	White

SWEET HERBS

Common Name	Botanical Name	Habit	Grown from	Height Inches	Part Used
Anise	Pimpinella anisum	Annual	Seed	18	Seeds
Balm, lemon	Melissa officinalis	Perennial	Seed	20	Leaves
Basil, sweet	Ocimum basilicum	Annual	Seed	18	Leaves
Borage	Borago officinalis	Annual	Seed	20	Leaves
Camomile	Anthemis nobilis	Perennial	Seed	10	Flowers
Caraway	Carum carvi	Biennial	Seed	18	Seeds
Catnip	Nepeta cataria	Perennial	Seed	24	Leaves
Chervil	Anthriscus cerefolium	Annual	Seed	15	Leaves
Chive	Allium schoenoprasum	Perennial	Bulbs	12	Leaves
Coriander	Coriandrum sativum	Annual	Seed	20	Seeds
Dill	Anethum graveolens	Annual	Seed	36	Seeds, etc.
Hoarhound	Marrubium vulgare	Perennial	Seed	24	Leaves
Hyssop	Hyssopus officinalis	Perennial	Seed	14	Leaves
Lavender	Lavandula officinalis	Perennial	Cuttings	20	Flowers
Marjoram, sweet	Majorana hortensis	Annual	Seed	18	Leaves
Mint, pepper	Mentha piperita	Perennial	Cuttings	24	Leaves
spear	spicata	Perennial	Cuttings	18	Leaves
Rosemary	Rosmarinus officinalis	Perennial	Cuttings	18	Leaves
Rue	Ruta graveolens	Perennial	Seed	18	Leaves
Sage	Salvia officinalis	Perennial	Seed	16	Leaves
Savoy, summer	Satureia hortensis	Annual	Seed	16	Leaves
winter	Satureia montana	Perennial	Seed	14	Leaves
Southernwood	Artemisia abrotanum	Perennial	Division	36	Leaves and stems
Tarragon	Artemisia dracunculoides	Perennial	Division	20	Leaves
Thyme	Thymus vulgaris	Perennial	Seed	7	Leaves
Wormwood	Artemisia absinthium	Perennial	Seed	36	Leaves

A CORD OF WOOD

A standard cord of wood is a pile four feet high, four feet wide, eight feet long and contains 128 cubic feet of piled wood. Besides being sold in the standard cord of 4-foot sticks it is often sold in 12, 16 and 24-inch lengths. Such short lengths are sold on the basis of the amount produced from a standard cord of 4-foot wood. The following table gives the average number of hardwood trees of different sizes needed to make a standard cord of wood.

Diameter of Trees Breast High	Number of Trees Per Cord
4 inches	50
6 inches	20
8 inches	10
10 inches	6
12 inches	4
14 inches	3

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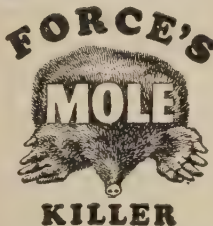
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 Arctic Daisy.....*Chrysanthemum arcticum*
 Arrow Arum.....*Peltandra virginica*
 Arrow-head.....*Sagittaria*
 Artillery plant.....*Pilea microphylla*
 Athanasia (African Daisy).....*Lonas inodora*
 Autumn Crocus (Meadow Saffron).....*Colchicum*
 Baby Blue Eyes.....*Nemophila insignis*
 Baby's Breath.....*Gypsophila paniculata*
 Bachelor's Buttons (Cornflower).....*Centaurea cyanus*
 Barbados Lily.....*Hippeastrum pumecum*
 Barberton Daisy
 (Transvaal Daisy).....*Gerbera jamesoni*
 Barrenwort.....*Epimedium*
 Basket Flower.....*Centaurea americana*
 Basket of Gold.....*Alyssum saxatile compactum*
 Beard Tongue.....*Pentstemon*
 Beauty Berry.....*Callicarpa*
 Bee Balm.....*Monarda*
 Bedstraw.....*Galium*
 Bellflower.....*Campanula*
 Bellflower, Chilean.....*Lapageria rosea*
 Bellflower, Giant.....*Ostrowskia magnifica*
 Bellflower, Japanese.....*Platycodon*
 Bellwort.....*Uvularia*
 Bird of Paradise Flower.....*Strelitzia reginae*
 Birds Eyes.....*Gilia tricolor*
 Birdsfoot Trefoil.....*Lotus corniculatus*
 Bishop's Cap (Mitrewort).....*Mitella diphylla*
 Bishop's Hat (Barrenwort).....*Epimedium*
 Bittersweet.....*Solanum dulcanara*
 Bittersweet, False (Waxwork).....*Celastrus scandens*
 Bittersweet, Evergreen.....*Euonymus vegetus*
 Blackberry Lily
 (Pardanthus).....*Belamcanda chinensis*
 Black-eyed Susan.....*Rudbeckia hirta*
 Black-eyed Susan Vine
 (Clock Vine).....*Thunbergia alata*
 Black Hellebore
 (Christmas Rose).....*Helleborus niger*
 Black Lily.....*Fritillaria biflora (Mission Bells)*
 Bladderwort.....*Utricularia*
 Blanket Flower.....*Gaillardia*
 Blazing Star.....*Mentzelia laevicaulis (biennial)*
 Blazing Star.....*Liatris pycnostachya (perennial)*
 Bleeding Heart.....*Dicentra spectabilis*
 Blessed Thistle.....*Cnicus benedictus*
 Blister Cress.....*Erysimum*
 Bloodroot.....*Sanguinaria canadensis*
 Blooming Sally
 (Fireweed).....*Epilobium angustifolium*
 Bluebeard.....*Caryopteris*
 Bluebell.....*Campanula rotundifolia (& al.)*
 Bluebell, California.....*Phacelia whitlavia*
 Bluebell, English.....*Scilla nonscripta*
 Bluebell, Spanish.....*Scilla hispanica*
 Bluebell, Virginia.....*Mertensia virginica*
 Bluebonnet, Texas.....*Lupinus texensis*
 Bluebonnets.....*Centaurea cyanus*
 Blue Cups.....*Nierembergia hippomanica*
 Blue Daisy.....*Felicia amelloides*
 Blue Eyed Mary.....*Collinsia*
 Blue Lace-flower (Didiscus).....*Trachymene caerulea*
 Blue Oxalis
 (Shamrock Pea).....*Parochetus communis*
 Blue Wing-flower.....*Torenia fourneri*
 Bottle Gentian.....*Gentiana andrewsi*
 Bouncing Bet.....*Saponaria officinalis*
 Bowman's Root (Indian Physic).....*Gillenia trifoliata*
 Boxberry (Wintergreen).....*Gaultheria procumbens*
 Bridal Wreath.....*Spiraea prunifolia*
 Bugbane.....*Cimicifuga*
 Bugle.....*Ajuga*
 Bugloss.....*Anchusa*
 Burning Bush.....*Buonymus atropurpureus*
 Butterfly flower.....*Schizanthus*
 Calabash Gourd.....*Lagenaria leucantha*
 Calamint.....*Satureia calamintha*
 Calico Bush (Mountain Laurel).....*Kalmia latifolia*
 California Fuchsia.....*Zauschneria californica*
 California Phlox.....*Gilia densiflora (Linanthus)*
 California Poppy.....*Eschscholtzia californica*
 California Rose.....*Convolvulus japonicus*
 Canary-Bird Vine.....*Tropaeolum peregrinum*
 Candytuft.....*Iberis*
 Canyon Poppy.....*Romneya coulteri*
 Cape Forget-me-not.....*Anchusa capensis*
 Cape Gooseberry.....*Physalis peruviana*
 Cape Hyacinth (Galtonia).....*Hyacinthus candicans*
 Cape Marigold (African Daisy).....*Dimorphotheca*
 Cardinal Climber.....*Quamoclit stoteri*
 Cardinal Flower.....*Lobelia cardinalis*
 Catchfly.....*Silene*
 Cathedral Bells.....*Cobaea scandens*
 Catnip (Catmint).....*Nepeta cataria*
 Cat-tail.....*Typha latifolia*
 Celandine Poppy.....*Styloporum diphylum*
 Ceylon Creeper (Ivy Arum).....*Scindapsus*
 Cherry Pie.....*Heliotropium*
 Chilean Bells (Nolana).....*Lapageria lanceolata*
 Chinese Evergreen.....*Agaonema modestum*
 Chinese Forget-me-not.....*Cynoglossum*
 Chinese Lantern.....*Physalis*
 Chinese Lily.....*Narcissus tazetta orientalis*

Chinese Primrose.....*Primula sinensis*
 Christmas Cactus.....*Zygocactus truncata*
 Christmas Cherry
 (Jerusalem Cherry).....*Solanum pseudo-capsicum*
 Christmas Rose.....*Helleborus niger*
 Clary.....*Salvia sclarea*
 Climbing Hydrangea.....*Hydrangea petiolaris*
 Climbing Hydrangea.....*Schizophragma hydrangeoides*
 Clock Vine.....*Thunbergia*
 Coat Flower.....*Tunica saxifraga*
 Cockscorn.....*Celosia*
 Cohosh (Baneberry).....*Actaea*
 Columbine.....*Aquilegia*
 Comfrey.....*Symphytum*
 Confederate
 Jasmine.....*Trachelospermum jasminoides*
 Coppertip.....*Crococsmia aurea*
 Coralbells (Alum Root).....*Heuchera sanguinea*
 Coral Drops (Mexican Star).....*Milla biflora*
 Corkscrew Flower
 (Snail Bean).....*Phaseolus caracalla*
 Corn Flag.....*Gladiolus segetum*
 Cornflower.....*Centaurea cyanus*
 Corn Marigold.....*Chrysanthemum segetum*
 Cotton Rose.....*Hibiscus mutabilis*
 Cow Herb (Cow Soapwort).....*Saponaria vaccaria*
 Crab Cactus
 (Christmas Cactus).....*Zygocactus truncatus*
 Crabs Eye Vine (Rosary Pea).....*Abrus precatorius*
 Crape Jasmine.....*Ervatamia coronaria*
 Crape Myrtle.....*Lagerstroemia indica*
 Creeping Charlie.....*Lysimachia nummularia*
 Creeping Jenny.....*Lysimachia nummularia*
 Crimson Bells (Coralbells).....*Heuchera*
 Crimson Flag (Kafir Lily).....*Schizostylis coccinea*
 Crosswort.....*Crucianella*
 Crowberry.....*Empetrum nigrum*
 Crowfoot (Buttercup).....*Ranunculus*
 Crown Daisy.....*Chrysanthemum coronarium*
 Crown Imperial.....*Fritillaria imperialis*
 Crown of Thorns.....*Euphorbia splendens*
 Cuban Lily (Jacinth).....*Scilla peruviana*
 Cuckoo Flower
 (Lady's Smock).....*Cardamine pratensis*
 Cuckoo Pint
 (Lords and Ladies).....*Arum maculatum*
 Cup and Saucer Vine.....*Cobaea scandens*
 Cupflower.....*Nierembergia*
 Cupid's Dart.....*Catananche coerulea*
 Cushion Pink.....*Silene acaulis*
 Cypress Spurge.....*Euphorbia cyparissias*
 Cypress Vine (Star Glory).....*Quamoclit pinnata*
 Dames Rocket (or Violet)
 (Damask Violet).....*Hesperis matronalis*
 Dawn Flower.....*Ipomoea leari*
 Desert Candle.....*Eremurus*
 Devil-in-a-Bush
 (Love-in-a-Mist).....*Nigella damascena*
 Dew Plant.....*Mesembryanthemum tricolor*
 Diamond Flower.....*Ionopsisidum acaule*
 Dogbane.....*Apocynaceae*
 Double Orange Daisy.....*Erigeron aurantiacus*
 Dragon Plant.....*Dracaena indivisa*
 Dragon Root
 (Jack-in-the-Pulpit).....*Arisaema dracontium*
 Dream Plant.....*Echeveria weinbergi*
 Dropwort.....*Filipendula hexapetala*
 Dusty Miller.....*Centaurea (white-leaved)*
 Dusty Miller.....*Cineraria (white-leaved)*
 Eardrops.....*Fuchsia*
 Easter Cactus.....*Schlumbergera gaertneri*
 Edelweiss.....*Leontopodium alpinum*
 Eel Grass.....*Vallisneria*
 Eglantine (Sweetbrier).....*Rosa eglanteria*
 Elephant's Ear.....*Colocasia antiquorum*
 English Daisy.....*Bellis perennis*
 English Primrose.....*Primula vulgaris*
 Evening Primrose.....*Oenothera*
 Evening Stock.....*Matthiola bicornis*
 Everlasting Pea.....*Lathyrus latifolius*
 Fairy Bells.....*Disporum*
 Fairy Lily.....*Zephyranthes*
 Fairy Trumpet.....*Leptosiphon*
 Fairy Wallflower.....*Erysimum*
 False Dragonhead.....*Physostegia*
 False Indigo.....*Baptisia australis*
 False Starwort.....*Boletia*
 Farfugium
 (Leopard Plant).....*Ligularia aureo-maculatus*
 Feathered Columbine.....*Thalictrum aquilegifolium*
 Feather Grass.....*Stipa pinnata*
 Feverfew.....*Chrysanthemum parthenium*
 Fig Marigold.....*Mesembryanthemum*
 Fire Pink.....*Silene virginica*
 Fire Plant, Mexican.....*Euphorbia heterophylla*
 Firethorn (Firebush).....*Pyracantha coccinea*
 Five Finger (Cinquefoil).....*Potentilla*
 Flame Flower (Tritoma, Torch Lily).....*Kniphofia*
 Flax Lily (New Zealand Flax).....*Phormium tenax*
 Fleabane.....*Erigeron*
 Flora's Paintbrush (Cacalia)
 (Tassel Flower).....*Emilia sagittata*
 Floss Flower.....*Ageratum*

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(Trailing Hollyhock).....*Hibiscus trionum*
Forget-me-not.....*Myosotis*
Forget-me-not, Cape or
Summer.....*Anchusa capensis*
Forget-me-not, Chinese.....*Cynoglossum*
Four o'Clock.....*Mirabilis jalapa*
Foxglove.....*Digitalis*
French Marigold.....*Tagetes patula*
Fringe Flower.....*Schizanthus*
Funkia (Plantain Lily).....*Hosta*

Garden Balsam
(Sultan's Balsam).....*Impatiens balsamina*
Gardeners' Garters.....*Phalaris arundinacea picta*
Garland Flower.....*Daphne cneorum*
Gas Plant (Fraxinella).....*Dictamnus albus*
Gay Feather.....*Liatris*
Geranium (true).....*Geranium spp.*
Geranium (florists').....*Pelargonium spp.*
German Ivy.....*Senecio mikanoides*
Ghost Plant (Silver King).....*Artemisia alba*
Giant Daisy.....*Chrysanthemum uliginosum*
Gilliflower (Stock).....*Matthiola incana*
Glacier Lily.....*Erythronium grandiflorum*
Globe Amaranth.....*Gomphrena globosa*
Globe Flower.....*Trollius caucasicus*
Globe Thistle (tall).....*Echinops sphaerocephalus*
Globe Thistle (dwarf).....*Echinops ritro*
Globe Tulip.....*Calochortus*
Glory Bower.....*Clerodendrum balfouri*
Glory-of-the-Snow.....*Chionodoxa*
Goat's Beard.....*Aruncus or Trapogon*
Golden Bell.....*Forsythia*
Golden Cup.....*Hunnemannia fumariaefolia*
Golden Eggs.....*Oenothera ovata*
Golden Feather

.....*Chrysanthemum parthenium aureum*
Golden Marguerite.....*Anthemis tinctoria*
Golden Moss.....*Sedum acre*
Golden Seal.....*Hydrastis canadensis*
Golden Stars.....*Blomeeria crocea*
Golden Thistle.....*Scolymus hispanicus*
Golden Tuft
(Gold Dust, Rock Madwort).....*Alyssum saxatile*
Goldlocks.....*Linosyris vulgaris*
Good King Henry.....*Chenopodium bonus-henricus*
Goosefoot.....*Chenopodium*
Grape Hyacinth.....*Muscari*
Grass Pink.....*Dianthus plumarius*
Greek Valerian.....*Polemonium coeruleum*
Ground Ivy.....*Nepeta hederacea*
Ground Pink (Moss Pink).....*Phlox subulata*
Guelder Rose (Snowball).....*Viburnum opulus roseum*
Guernsey Lily.....*Nerine sarniensis*

Harebell (Bluebell).....*Campanula rotundifolia*
Hawkweed.....*Hieracium*
Heartsease (Pansy).....*Viola tricolor*
Heath.....*Erica*
Heather.....*Calluna*
Helen's Flower (Monkshood).....*Aconitum*
Hen and Chickens.....*Sempervivum soboliferum*
Honesty.....*Lunaria*
Horehound.....*Marrubium vulgare*
Horned Poppy.....*Glaucium*
Horned Rampion.....*Phyteuma*
Houseleek.....*Sempervivum*
Humble Plant (Sensitive Plant).....*Mimosa pudica*
Husk Tomato.....*Physalis*
Hyacinth Bean.....*Dolichos lablab*

Ice Plant.....*Cryophytum crystallinum*
Iceland Poppy.....*Papaver nudicaule*
Immortelle.....*Xeranthemum annuum*
Incense Plant.....*Humea elegans*
Indian Grass.....*Sorghastrum nutans*
Indian Paint.....*Lithospermum canescens*
Indian Paint Brush.....*Castilleja californica*
Indian Pipe.....*Monotropa uniflora*
Irish Heath.....*Daboecia cantabrica*
Ithurial's Spear.....*Brodiaea laxa*
Ivy, American.....*Parthenocissus quinquefolia*
Ivy, Boston.....*Parthenocissus tricuspidata*
Ivy, Cape.....*Senecio macroglossus*
Ivy, English.....*Hedera helix*
Ivy, German.....*Senecio mikanoides*
Ivy, Ground.....*Nepeta hederacea*
Ivy, Kenilworth.....*Cymbalaria muralis*

Jack-in-the-Pulpit.....*Arisaema triphyllum*
Jacob's Ladder.....*Polemonium caeruleum*
Japanese Anemone.....*Anemone japonica*
Japanese Bellflower.....*Platycodon grandiflorum*
Japanese Pink.....*Dianthus hedderigi*
Japanese Rose.....*Kerria japonica*
Japanese Snowball.....*Viburnum tomentosum sterile*
Japanese Spurge.....*Pachysandra terminalis*
Jerusalem Oak.....*Chenopodium botrys*
Jessamine.....*Jasminum*
Jetbead.....*Rhodotypos kerrioides*
Jew Bush.....*Pedilanthus tithymaloides*
Job's Tears.....*Coix lachryma-jobi*
Jonquil.....*Narcissus jonquilla*
Joseph's Coat.....*Amaranthus tricolor*
Judas Tree.....*Cercis*
Jupiter's Beard.....*Centranthus ruber*

Kenilworth Ivy.....*Cymbalaria muralis*
Kentucky Blue Grass.....*Poa pratensis*
Korean Daisy.....*Chrysanthemum coreanum*
Kudzu Bean or Vine.....*Pueraria thunbergiana*
Kumquat.....*Fortunella*

Lace Flower.....*Trachymene*
Lace Vine.....*Polygonum auberti*
Ladies Garters.....*Phalaris arundinacea picta*
Ladies Tresses.....*Spiranthes*



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Larkspur.....	<i>Delphinium</i>	Red Hot Poker.....	<i>Kniphofia</i>
Leadwort.....	<i>Plumbago</i>	Red Ribbons.....	<i>Eucharadium concinnum</i>
Lemon Verbena.....	<i>Lippia citriodora</i>	Redroot.....	<i>Lithospermum canescens</i>
Leopard Plant.....	<i>Ligularia kaempferi</i>	Red Valerian.....	<i>Centranthus ruber</i>
Leopard's Bane.....	<i>Doronicum</i>	Resurrection Plant.....	<i>Selaginella lepidophylla</i>
Lilac.....	<i>Syringa</i>	Ribbon Grass.....	<i>Phalaris a undinacca picta</i>
Lily-of-the-Nile.....	<i>Agapanthus africanus</i>	Rock Cross.....	<i>Arabis</i>
Lily-of-the-Valley.....	<i>Convallaria majalis</i>	Rocket, Salad.....	<i>Eruca sativa</i>
Live-for-Ever.....	<i>Sedum telephium</i>	Rocket, Sweet.....	<i>Hesperis matronalis</i>
Living Rock.....	<i>Ariocarpus fissuratus</i>	Rockfoil.....	<i>Saxifraga</i>
London Pride.....	<i>Saxifraga umbrosa</i>	Rock Rose.....	<i>Cistus</i>
Lords and Ladies.....	<i>Arum maculatum</i>	Rose Campion.....	<i>Lychnis coronaria</i>
Love-in-a-Mist.....	<i>Nigella damascena</i>	Rosemallow.....	<i>Hibiscus</i>
Love-Lies-Bleeding.....	<i>Amaranthus caudatus</i>	Rosemary.....	<i>Rosmarinus officinalis</i>
Lungwort.....	<i>Pulmonaria</i>	Rose of Heaven.....	<i>Lychnis cochliosa</i>
		Rose of Sharon.....	<i>Hibiscus syriacus</i>
		Rubber Plant.....	<i>Ficus elastica</i>
Madonna Lily.....	<i>Lilium candidum</i>	Saffron.....	<i>Crocus sativus</i>
Madwort.....	<i>Alyssum</i>	Sage.....	<i>Salvia</i>
Maidenhair Fern.....	<i>Adiantum</i>	Sand Verbena.....	<i>Abronia</i>
Maiden Pink.....	<i>Dianthus deltoides</i>	Satin Flower.....	<i>Lunaria</i>
Maltese Cross.....	<i>Lychnis chalcedonica</i>	Scarlet Bugler.....	<i>Pentstemon centranthifolius</i>
Maplewort.....	<i>Aceranthus diphyllus</i>	Scurvy Grass.....	<i>Cochlearia officinalis</i>
Marguerite.....	<i>Chrysanthemum frutescens</i>	Sea Holly.....	<i>Eryngium maritimum</i>
Marguerite, Blue.....	<i>Felicia amelloides</i>	Sea Lavender.....	<i>Limonium</i>
Marguerite, Golden.....	<i>Anthemis tinctoria</i>	Sea Pink.....	<i>Statice</i>
Marigold.....	<i>Tagetes</i>	Sensitive Plant.....	<i>Mimosa pudica</i>
Mariposa.....	<i>Calochortus</i>	Shamrock.....	<i>Trifolium repens</i>
Marshmallow.....	<i>Althea officinalis</i>	Shamrock Pea.....	<i>Parochetus communis</i>
Marvel of Peru.....	<i>Mirabilis jalapa</i>	Shasta Daisy.....	<i>Chrysanthemum maximum</i>
May Apple.....	<i>Podophyllum</i>	Shrimp Plant.....	<i>Beloperone</i>
Meadow Rue.....	<i>Thalictrum</i>	Siberian Wallflower.....	<i>Erysimum asperum</i>
Meadow Saffron.....	<i>Colchicum</i>	Silver Lace Vine.....	<i>Polygonum ubertii</i>
Meadow Sweet.....	<i>Filipendula</i>	Silverspot Begonia.....	<i>Begonia albopicta</i>
Megasea.....	<i>Saxifraga</i>	Silver Vine.....	<i>Actinidia polygama</i>
Merrybells.....	<i>Uvularia</i>	Smilax Asparagus.....	<i>Asparagus asparagoides</i>
Mexican Fireplant.....	<i>Euphorbia heterophylla</i>	Snakebeard.....	<i>Ophiopogon (Mondo)</i>
Mexican Poppy.....	<i>Argemone</i>	Snakeroot.....	<i>Cimicifuga</i>
Mexican Star.....	<i>Milla biflora</i>	Snapdragon.....	<i>Antirrhinum</i>
Mexican Tea.....	<i>Chenopodium ambrosioides</i>	Snowbell.....	<i>Styrax</i>
Mexican Sunflower.....	<i>Tithonia</i>	Snow-in-Summer.....	<i>Cerastium tomentosum</i>
Michaelmas Daisy.....	<i>Aster tradescantia</i>	Snow-on-the-Mountain.....	<i>Euphorbia marginata</i>
Mignonette.....	<i>Reseda</i>	Soapwort.....	<i>Saponaria</i>
Milfoil.....	<i>Achillea millefolium</i>	Solomon's Seal.....	<i>Polygonatum</i>
Mintshrub.....	<i>Eisholtzia</i>	Speedwell.....	<i>Veronica</i>
Mist Flower.....	<i>Eupatorium coelestinum</i>	Spider Plant.....	<i>Cleome spinosa</i>
Mock Orange.....	<i>Philadelphus</i>	Spider Lily.....	<i>Hymenocallis</i>
Monarch-of-the-Veldt.....	<i>Venidium fastuosum</i>	Spurge.....	<i>Euphorbia</i>
Moneywort.....	<i>Lysimachia nummularia</i>	Star Jasmine.....	<i>Trachelospermum jasminoides</i>
Monkey Flower.....	<i>Mimulus</i>	Starwort.....	<i>Aster</i>
Monkshood.....	<i>Aconitum</i>	Stonewort.....	<i>Aethionema</i>
Montbretia.....	<i>Tritonia</i>	Strawflower.....	<i>Helichrysum bracteatum</i>
Moonflower.....	<i>Ipomoea, calonyction</i>	Sundew.....	<i>Drosera</i>
Moonwort.....	<i>Lunaria</i>	Sunflower.....	<i>Helianthus</i>
Morning Glory.....	<i>Ipomoea</i>	Swan River Daisy.....	<i>Brachycome iberidifolia</i>
Moss Campion.....	<i>Silene acaulis</i>	Sweet Brier.....	<i>Rosa rubiginosa</i>
Moss Pink.....	<i>Phlox subulata</i>	Sweet Fern.....	<i>Comptonia asplenifolia</i>
Mother of Thousands.....	<i>Cymbalaria muralis</i>	Sweet Marjoram.....	<i>Marjorana hortensis</i>
Hountain Bluet.....	<i>Centaurea montana</i>	Sweet Pea.....	<i>Lathyrus odoratus</i>
Mountain Fringe.....	<i>Adlumia fungosa</i>	Sweet Rocket.....	<i>Hesperis matronalis</i>
Mountain Laurel.....	<i>Kalmia latifolia</i>	Sweet Sultan.....	<i>Centaurea moschata</i>
Mountain Rose.....	<i>Antigonon leptopus</i>	Sweet William.....	<i>Dianthus barbatus</i>
Mourning Bride.....	<i>Scabiosa</i>		
Mugwort.....	<i>Artemisia</i>	Tansy.....	<i>Tanacetum</i>
Mullein Pink (Rose Campion).....	<i>Lychnis coronaria</i>	Tassel Flower.....	<i>Emilia flammula</i>
Myrrh.....	<i>Myrrhis odorata</i>	Ten Weeks Stock.....	<i>Matthiola incana annua</i>
Myrtle.....	<i>Myrtus</i>	Texas Plum.....	<i>Gilia rubra</i>
Myrtle, Crape.....	<i>Lagerstroemia</i>	Thoroughwort.....	<i>Eupatorium</i>
Myrtle, Downy.....	<i>Rhodomyrtus tomentosa</i>	Thrift.....	<i>Statice</i>
Myrtle, Sand.....	<i>Leiophyllum</i>	Tick Trefoil.....	<i>Desmodium</i>
Myrtle, Trailing.....	<i>Vinca</i>	Tiger Lily.....	<i>Lilium tigrinum</i>
		Toothwort.....	<i>Dentaria</i>
Nasturtium.....	<i>Tropaeolum</i>	Torch Lily.....	<i>Kniphofia</i>
Navelseed.....	<i>Omphalodes</i>	Touch-Me-Not.....	<i>Impatiens</i>
Navelwort.....	<i>Cotyledon umbilicus</i>	Transvaal Daisy.....	<i>Gerbera</i>
New Zealand Flax.....	<i>Phormium tenax</i>	Tree Celandine.....	<i>Macleaya cordata</i>
Night Scented Stock.....	<i>Matthiola bicornis</i>	Tritoma.....	<i>Kniphofia</i>
		Trumpet Vine.....	<i>Bignonia</i>
Obedient Plant.....	<i>Physostegia</i>	Tuberose.....	<i>Polygonatum tuberosum</i>
Old Maid.....	<i>Vinca</i>	Tulip Poppy.....	<i>Papaver glaucum</i>
Old Man.....	<i>Artemisia abrotanum & al.</i>	Tulip Poppy, Mexican.....	<i>Hunnemannia fumariaefolia</i>
Old Man and Woman.....	<i>Sempervivum tectorum</i>	Tunic Flower.....	<i>Tunica saxifraga</i>
Old Mans Beard.....	<i>Clematis vitalba</i>	Turtle Head.....	<i>Cheilone</i>
Old Man Cactus.....	<i>Cephalocereus senilis</i>	Twisted Stalk.....	<i>Streptopus</i>
Orange Lily.....	<i>Lilium croceum</i>		
Orange Sunflower.....	<i>Heliosis</i>	Umbrella Plant.....	<i>Cyperus alternifolius</i>
Oriental Poppy.....	<i>Papaver orientale</i>	Unicorn Plant.....	<i>Martynia</i>
Oswego Tea.....	<i>Monarda didyma</i>		
		Velvet Plant.....	<i>Gymura aurantiaca & salpiglossis</i>
Painted Daisy.....	<i>Chrysanthemum coccineum</i>	Venus' Button.....	<i>Omphalodes verna</i>
Painted Tongue.....	<i>Salpiglossis</i>	Venus' Flytrap.....	<i>Dionaea muscipula</i>
Pampas Grass.....	<i>Cortaderia</i>	Venus' Looking Glass.....	<i>Specularia</i>
Pansy.....	<i>Viola tricolor</i>	Violet.....	<i>Viola odorata</i>
Papyrus (Paper Plant).....	<i>Cyperus papyrus</i>	Virginia Creeper.....	<i>Parthenocissus quinquefolia</i>
Paris Daisy.....	<i>Chrysanthemum frutescens</i>	Virginia Stock.....	<i>Malcolmia maritima</i>
Parrot's Feather.....	<i>Myriophyllum</i>	Virgin's Bower.....	<i>Clematis</i>
Pasque Flower.....	<i>Anemone pulsatilla</i>		
Pennyroyal.....	<i>Mentha pulegium</i>	Wake Robin.....	<i>Trillium</i>
Pennyroyal, American.....	<i>Hedeoma pulegioides</i>	Wallflower.....	<i>Cheiranthus cheiri</i>
Peony.....	<i>Paeonia</i>	Wallflower, Siberian.....	<i>Erysimum asperum</i>
Peppermint.....	<i>Mentha piperita</i>	Wandering Jew.....	<i>Tradescantia fluminensis</i>
Periwinkle.....	<i>Vinca</i>	Water Chinquapin.....	<i>Nelumbium luteum</i>
Peruvian, Daffodil.....	<i>Hymenocallis calathina</i>	Water Hyacinth.....	<i>Eichhornia crassipes</i>
Pheasant's Eye.....	<i>Adonis</i>	Water Lily.....	<i>Nymphaea</i>
Pickeral Weed.....	<i>Pontederia</i>	Water Poppy.....	<i>Hydrocleis nymphoides</i>
Pimpernel.....	<i>Anagallis</i>	Wax Work.....	<i>Celastrus scandens</i>
Pincushion Flower.....	<i>Scabiosa</i>	Weather Glass.....	<i>Angallis</i>
Pink.....	<i>Dianthus</i>	Windflower.....	<i>Anemone</i>
Plantain Lily.....	<i>Hosta</i>	Winged Everlasting.....	<i>Ammobium</i>
Plume Poppy.....	<i>Macleaya cordata</i>		
Poinsettia.....	<i>Poinsettia pulcherrima</i>		
Poker Plant.....	<i>Kniphofia</i>		
Poor Man's Orchid.....	<i>Schizanthus</i>		

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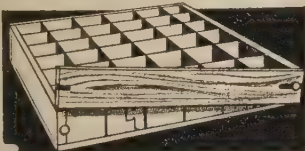
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B-B Improved Celery Bleacher—Exclusive design decreases labor and permits the circulation of air, thereby eliminating rot and mildew. Can be used repeatedly. Full details and distributor's prices on request.



B-B Celery
Bleacher
Patented



B-B Garden Flat Patented

B-B Garden Flat—A home grower's necessity. Made from choice lumber with removable front. Pots can be removed easily without disturbing roots. Write for distributor's prices.

BALL-BIDDLE COMPANY
RIVERTON NEW JERSEY

Winter Creeper.....*Euonymus radicans*
Woodbine.....*Lonicera periclymenum*

Yarrow.....*Achillea*
Yellow Day Lily.....*Hemerocallis*
Zebra Plant.....*Calathea zebrina*
Zephyr Lily.....*Zephyranthes*

Vegetables

Artichoke, Globe.....*Cynara scolymus*
Artichoke Jerusalem.....*Helianthus tuberosus*
Asparagus.....*Asparagus officinalis*
Beans.....*Phaseolus vulgaris*
Beans, Broad.....*Vicia faba*
Beans, Scarlet Runner.....*Phaseolus multiflorus*
Beans, Yard-long.....*Vigna sesquipedalis*
Beans, Lima.....*Phaseolus lunatus*
Beans, Soy.....*Soja max*
Beet.....*Beta vulgaris*
Beets, Leaf (Chard).....*Beta cicla*
Broccoli, sprouting.....*Brassica oleracea v. italica*
Broccoli, cauliflower.....*B. oleracea v. botrytis*
Brussels Sprouts.....*Brassica oleracea v. gemmifera*
Cabbage.....*Brassica oleracea v. capitata*
Chinese cabbage.....*Brassica pekinensis*
Cantaloupe.....*Cucumis melo*
Cardoon.....*Cynara cardunculus*
Carrot.....*Daucus carota*
Cauliflower.....*Brassica oleracea v. botrytis*
Celery.....*Apium graveolens v. dulce*
Celeriac.....*Apium graveolens v. rapaceum*
Chicory.....*Cichorium intybus*
Chive.....*Allium schoenoprasum*
Collard.....*Brassica oleracea v. acephala*
Corn, sweet.....*Zea mays v. saccharata*
Corn, pop.....*Zea mays v. everta*
Corn Salad.....*Valerianella olitoria*
Cress, garden.....*Lepidium sativum*
Cress, upland.....*Barbarea verna*
Cress, water.....*Nasturtium officinale*
Cucumber.....*Cucumis sativus*
Cucumber, Gherkin.....*Cucumis anguria*
Dandelion.....*Taraxacum officinale*
Dill.....*Anethum graveolens*
Egg Plant.....*Solanum melongena*
Endive.....*Cichorium endivia*
Fennel, Florence.....*Foeniculum dulce*
Fennel, sweet.....*Foeniculum officinale*
Gherkin.....*Cucumis anguria*
Girasole.....*Helianthus tuberosus*
Kale, tall.....*Brassica oleracea v. acephala*
Kale, dwarf.....*Brassica oleracea v. fimbriata*
Kohlrabi.....*Brassica oleracea v. caulorapa*
Lima beans.....*Phaseolus lunatus*
Leek.....*Allium porrum*
Lettuce.....*Lactuca sativa*
Maize.....*Zea mays*
Muskmelon.....*Cucumis melo*
Mustard.....*Brassica juncea*
Okra.....*Hibiscus esculentus*
Onion.....*Allium cepa*
Parsley.....*Petroselinum crispum*
Parsnip.....*Pastinaca sativa*
Peas.....*Pisum sativum*
Pepper.....*Capsicum frutescens*
Pepper-grass.....*Lepidium sativum*
Pe Tsai.....*Brassica pekinensis*
Pumpkin.....*Cucurbita spp.*
Radish.....*Raphanus sativus*
Rhubarb.....*Rheum raphonticum*
Rutabaga.....*Brassica napobrassica*
Salsify.....*Tragopogon porrifolius*
Sorrel.....*Rumex acetosa*
Soybean.....*Soja max*
Spinach.....*Spinacia oleracea*
Spinach, New Zealand.....*Tetragonia expansa*
Squash.....*Cucurbita spp.*
Tomato.....*Lycopersicon esculentum*
Turnip.....*Brassica rapa*
Turnip, Swede.....*Brassica napobrassica*
Watermelon.....*Citrullus vulgaris*
Watercress.....*Roripa nasturtium aquaticum*

Aromatic Herbs

Anise.....*Pimpinella anisum*
Balm, Lemon.....*Melissa officinalis*
Borage.....*Borago officinalis*
Caraway.....*Carum carui*
Coriander.....*Coriandrum sativum*
Dill.....*Anethum graveolens*
Hoarhound.....*Marrubium vulgare*
Hyssop.....*Hyssopus officinalis*
Lavender.....*Lavandula spica*
Rosemary.....*Rosmarinus officinalis*
Rue.....*Ruta graveolens*
Sage.....*Salvia officinalis*
Savory, Summer.....*Satureia hortensis*
Savory, Winter.....*Satureia montana*
Sweet Basil.....*Ocimum basilicum*
Sweet Fennel.....*Foeniculum officinale*
Sweet Marjoram.....*Majorana hortensis*
Thyme.....*Thymus vulgaris*
Wormwood.....*Artemisia absinthium*

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Crawford, Keen & Co. (Importers), New York, N. Y.
Dunn, Arthur G., New York, N. Y.
Fisher, Harry, Toronto, Ont., Canada
Gauvreau, Paul F., Quebec City, Canada
Herbst Bros., New York, N. Y.
International Seed, Inc., New York, N. Y.
Johnston, W. B., Enid, Okla.
Kittleman & Co., Chas. W., Greenville, Miss.
Griscom & Co., Inc., New York, N. Y.
Loewith, Inc., Julius, New York, N. Y.
McCarthy Co., The J. A., Evansville, Ind.
McHutchison & Co., New York, N. Y.
Mason, R. E., San Francisco, Calif.
Moore, Chas. R., Cincinnati, Ohio
Mosbell Co., John, New York, N. Y.
C. D. Potter, Chicago, Ill.
Radwaner Seed Co., I. L., New York, N. Y.
Scott, T. Maurice, St. Louis, Mo.
Shelton Co., M. W., Little Rock, Ark.

BULBS

Aggeler & Musser Seed Co., Los Angeles, Calif.
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Barteldes Seed Co., The, Lawrence, Kan.
Buist Co., Robert, Philadelphia, Pa.
Burpee Co., W. Atlee, Philadelphia, Pa.
Calfee, S. L. (Canna), Brunswick, Ga.
Cameron & Co., Seattle, Wash.
Condon Bros. Seedsmen, Rockford, Ill.
Cuff-Archias Seed Co., Brawley, Calif.
Davids & Royston Bulb Co., Los Angeles, Calif.
Dirkmaat Co., John, New York, N. Y.
Ellis Bulb Gardens, Merton G., Canby, Ore.
Florida Bulb Co., Miami, Fla.
Germain Seed & Plant Co., Los Angeles, Calif.
Grootendorst, A. M., Benton Harbor, Mich.
Heath Co., B. O., Benson, N. C.
Hillcrest Bulb Gardens, Grants Pass, Ore.
Hunter, Geo. W. (Gladiolus), Dewagiac, Mich.
Irwin, Roman J., New York, N. Y.
Kline, Edgar L. (Lily), Oswego, Ore.
Kunderd, A. E. (Gladiola), Goshen, Ind.
Lagomarsino & Sons, F., Sacramento, Calif.
Lawler, George, Tacoma, Wash.
Locke Nursery, Otto M., New Braunfels, Texas
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
McHutchison & Co., New York, N. Y.
Olds Seed Co., L. L., Madison, Wis.
Oregon Bulb Farms, Sandy, Ore.
Rex D. Pearce, Moorestown, N. J.
Portland Seed Co., Portland, Ore.
Quality Glad Gardens (Gladiolus), St. Anne, Ill.
Shaw & Sons, G. A., Grants Pass, Ore.
Schell, Inc., Walter S., Harrisburg, Pa.
Vaughan's Seed Store, Chicago, Ill.
Walker's Gladiolus Farms, Mansfield, Mass.
Wayland Dahlia Gardens, Wayland, Mich.
Wood & Sons, T. W., Richmond, Va.
Woodruff & Sons, Inc., F. H., Milford, Conn.

CACTI

Clark, Mrs. Fred, Van Horn, Texas
Crescent Cactus Co., Ranger, Texas
Lone Star Seed Co., Olden, Texas
Southwest Desert Nurseries, Las Cruces, N. Mex.

CANARY SEED

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Jos. Breck & Sons, Boston, Mass.
Buist Co., Robert, Philadelphia, Pa.
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Corneli Seed Co., St. Louis, Mo.
Dickinson Co., The Albert, Chicago, Ill.
Duryea Seed Co., Inc., New York, N. Y.
Farmer Seed & Nursery Co., Faribault, Minn.
Germain Seed & Plant Co., Los Angeles, Calif.
Hamilton Seed & Coal Co., Cedar Rapids, Iowa
Herbst Bros., New York, N. Y.
Hinton & Co., Inc., New York, N. Y.
Holmes Seed Co., The, Canton, Ohio
International Seed, Inc., New York, N. Y.
Jenks-White Seed Co., Salem, Ore.
Justrite Co., The, Milwaukee, Wis.
Kellogg-Kelly Seed Co., St. Joseph, Mo.
Lagomarsino & Sons, F., Sacramento, Calif.
Loewith, Inc., Julius, New York, N. Y.
Lilly Co., The Chas. H., Seattle, Wash.
Magill & Co., Fargo, N. Dak.
Magnesia Products Co., Milwaukee, Wis.
Mangelsdorf & Bro., Inc., Ed. F., St. Louis, Mo.
McCormick Sales Co., The, Baltimore, Md.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Olds Seed Co., L. L., Madison, Wis.
Paramount Seed Co., Stockton, Calif.
Peppard Seed Co., Kansas City, Mo.
Philadelphia Seed Co., Philadelphia, Pa.
Radwaner Seed Co., I. L., New York, N. Y.
Scarlett & Co., Wm. G., Baltimore, Md.
Seaboard Seed Co., Philadelphia, Pa.
Spratt's Patent, Ltd., Newark, N. J.
Standard Seed Farms Co., Stockton, Calif.
Twin City Seed Co., Minneapolis, Minn.
Wood & Sons, T. W., Richmond, Va.
Woodruff & Sons, Inc., F. H., Milford, Conn.

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Jerome B. Rice Seed Co., Cambridge, New York

DAHLIA ROOTS

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American Bulb Co., Chicago, Ill.
Burpee Co., W. Atlee, Philadelphia, Pa.
Cameron & Co., Seattle, Wash.
Condon Bros. Seedsmen, Rockford, Ill.
Germain Seed & Plant Co., Los Angeles, Calif.
Hallauer, N. A., Webster, N. Y.
Kendall's Dahlia Gardens, Troutdale, Ore.
Linton's Dahlia Farm, Brazil, Ind.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Olds Seed Co., L. L., Madison, Wis.
Schell, Inc., Walter S., Harrisburg, Pa.
Vaughan's Seed Store, Chicago, Ill.
Wayland Dahlia Gardens, Wayland, Mich.
Wood & Sons, T. W., Richmond, Va.

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Wayland Dahlia Gardens, Wayland, Mich.

EVERGREENS

Appalachian Evergreen Co., Doeville, Tenn.
Condon Bros., Seedsmen, Rockford, Ill.
Conwell, Inc., H. Ernest, Milton, Dela.
Cumberland Valley Nursery Co., Inc., McMinnville, Tenn.
Grassyfork Fisheries, Martinsville, Ind.
Ilgenfritz Sons Co., I. E., Monroe, Mich.
Jackson & Perkins Co., Newark, N. J.
Lagomarsino & Sons, F., Sacramento, Calif.

Mt. Arbor Nurseries, Shenandoah, Iowa
 Naperville Nurseries, Naperville, Ill
 Native Evergreens, Missoula, Mont.
 North-Eastern Forestry Co., Cheshire, Conn.
 Onarga Nursery, Onarga, Ill.
 Storrs & Harrison Co., The, Painesville,
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 Swedberg Bros. Nurseries, Battle Lake,
 Minn.
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Burgess Seed & Plant Co., Galesburg, Mich.
 Condon Bros., Seedsmen, Rockford, Ill.
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 Jackson & Perkins Co., Newark, N. Y.
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 ven, Conn.
 The Atlantic Seed Co., Inc., Philadelphia,
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 Belt Seed Co., The, Baltimore, Md.
 Bowman Seed Co., The, Concordia, Kans.
 Brent Seed Co., C. S., Lexington, Ky.
 Brown Seed Co., Alfred J., Grand Rapids,
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Buist Co., Robert, Philadelphia, Pa.
 Burpee Co., W. Atlee, Philadelphia, Pa.
 Cargill, Inc. (Seed Div.), Minneapolis, Minn.
 Carl & Son, Roscoe J., Lansing, Mich.
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 Condon Bros., Seedsmen, Rockford, Ill.
 Cornell Seed Co., St. Louis, Mo.
 Craver-Dickinson Seed Co., Buffalo, N. Y.
 Cuff-Archias Seed Co., Brawley, Calif.
 Dakota Improved Seed Co., Mitchell, S.
 Dak.

Dickinson Co., The Albert, Chicago, Ill.
 Donley & Bro., J. L., Ashland, Ohio
 Duryea Seed Co., Inc., New York, N. Y.
 Engbretson Seed Co., Astoria, Ore.
 Ertag, Inc., A., New York, N. Y.
 Ferry-Morse Seed Co., Detroit, Mich.
 Funk Bros. Seed Co., Bloomington, Ill.
 Germain Seed & Plant Co., Los Angeles,
 Calif.

Hamilton Seed & Coal Co., Cedar Rapids,
 Iowa
 Hart Seed Co., The Chas. C., Wethersfield,
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Holmes Seed Co., The, Canton, Ohio
 International Seed, Inc., New York, N. Y.
 Jenks-White Seed Co., Salem, Ore.
 Keller & Sons, Geo., Quincy, Ill.
 Kelly Seed Co., Peoria, Ill.

King & Sons, H. C., Battle Creek, Mich.
 Lagomarsino & Sons, F., Sacramento, Calif.
 Landreth Seed Co., D., Bristol, Pa.
 Lambert & Sons, R. E., Darlington, Ala.
 A. N. Levin, Seeds, Chattanooga, Tenn.
 Lewis & Clark Seed Co., Inc., Astoria, Ore.
 Lilly Co., The Chas. H., Seattle, Wash.
 Loewith, Inc., Julius, New York, N. Y.
 Louisville Seed Co., Louisville, Ky.
 Magill & Co., Fargo, N. Dak.
 Mangelsdorf & Bro., Inc., Ed. F., St Louis,
 Mo.

McCabe Bros. Grain Co., Ltd., Winnipeg,
 Man., Canada

McCullough Seed Co., The J. Chas., Cin-
 cinnati, Ohio

McHutchison & Co., New York, N. Y.
 Michael-Leonard Co., Sioux City, Iowa
 Moore, Charles R., Cincinnati, Ohio
 National Seed Co., Louisville, Ky.
 Nebraska Seed Co., The, Omaha, Nebr.
 Nicholson Seed Co., Robert, Dallas, Texas
 Nishna Valley Seed Co., Shenandoah, Iowa

Northrup, King & Co., Minneapolis, Minn.
 Northrup, King & Co. (Bomberger Div.),
 Berkeley, Calif.

O. & M. Seed Co., The, Green Springs,
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Olsen's Seed Farm, Olds, Alberta, Canada
 Olds Seed Co., L. L., Madison, Wis.

Ostberg Seed Co., Chicago, Ill.
 Ouren Seed Co., Council Bluffs, Iowa

Pacific Supply Cooperative Co., Walla
 Walla, Wash.

Page Seed Co., The, Greene, N. Y.
 Peppard Seed Co., Kansas City, Mo.

Peterson-Biddick Co., Wadena, Minn.
 Philadelphia Seed Co., Inc., The, Philadel-
 phia, Pa.

Prunty Seed & Grain Co., St. Louis, Mo.
 Purcell Seed Co., Evansville, Ind.

Radwaner Seed Co., Inc., I. L., New York,
 N. Y.

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Scott & Sons Co., O. M., Marysville, Ohio
 Seaboard Seed Co., Philadelphia, Pa.

Sexauer & Son, Geo. P., Brookings, S. Dak.
 Shultz Seed Co., Olney, Ill.

Stanford Seed Co., The, Buffalo, N. Y.
 Stoller's Seed House, Paulding, Ohio

Tobin Seed Co., Kansas City, Mo.
 Transcontinental Seed, Inc., New York,
 N. Y.

Twin City Seed Co., Minneapolis, Minn.
 Vaughan's Seed Store, Chicago, Ill.

Watts, Owen T., Louisville, Ky.
 Wilson & Sons, Jas. S., Paris, Ky.

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 Lagomarsino & Sons, F., Sacramento, Calif.

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Magill & Co., Fargo, N. Dak.
 Maxwell-Bowden, Inc., Geneva, N. Y.

Mount Arbor Nurseries, Shenandoah, Iowa
 Naperville Nurseries, Naperville, Ill.

North-Eastern Forestry Co., The, Cheshire,
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 Onarga Nursery Co., Inc., Onarga, Ill.

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 Scarff's Sons, W. N., New Carlisle, Ohio

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 swick, N. J.

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Rau, Lawrence, Chicago, Ill.

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Naperville Nurseries, Naperville, Ill.

Storrs & Harrison Co., The, Painesville, Ohio

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Cameron & Co., Seattle, Wash.

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Cottage Gardens, The (Peonies), Lansing, Mich.

Crosman Seed Corp., East Rochester, N. Y.

Ferry-Morse Seed Co., San Francisco, Calif.

Grassyfork Fisheries, Martinsville, Ind.

Hamilton Seed & Coal Co., Cedar Rapids, Iowa

Hart Seed Co., The Chas. C., Wethersfield, Conn.

Herbst Bros., New York, N. Y.

Holmes Seed Co., The, Canton, Ohio

Howard & Smith, Montebello, Calif.

Ilgenfritz Sons Co., I. E., Monroe, Mich.

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Lagomarsino & Sons, F., Sacramento, Calif.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Macdonald Seed Co., The Wm., Santa Maria, Calif.

Charles R. Moore, Cincinnati, Ohio

Mosbell Co., John, New York, N. Y.

Mount Arbor Nurseries, Shenandoah, Iowa

Naperville Nurseries, Naperville, Ill.

Nebraska Seed Co., The, Omaha, Nebr.

Nicholson Seed Co., Robert, Dallas, Texas

Olds Seed Co., L. L., Madison, Wis.

Onarga Nursery Co., Onarga, Ill.

Page Seed Co., The, Greene, N. Y.

Radwaner Seed Co., Inc., I. L., New York, N. Y.

Schell, Walter S., Inc., Harrisburg, Pa.

Somerset Rose Nursery, Inc., New Brunswick, N. J.

Storrs & Harrison Co., The, Painesville, Ohio

Vaughan's Seed Store, Chicago, Ill.

Waller-Franklin Seed Co., Guadalupe, Calif.

Wood & Sons, T. W., Richmond, Va.

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American Bulb Co., Chicago, Ill.

Cameron & Co., Seattle, Wash.

Capital Fuel, Feed & Seed Co., Phoenix, Ariz.

Condon Bros., Seedsmen, Rockford, Ill.

Howard & Smith, Montebello, Calif.

Ireland, Z. Jay, Pleasant Valley, N. Y.

Irwin, Inc., Roman J., New York, N. Y.

Lagomarsino & Sons, F., Sacramento, Calif.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

McHutchison & Co., New York, N. Y.

Myers & Scott, Van Buren, Ark.

Onarga Nursery Co., Onarga, Ill.

Skidelsky & Co., S. S., New York, N. Y.

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Alger, K. W. (Grower), Crystal City, Texas

Alvy, Jack, Van Buren, Ark.

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Butt's Plant Farms, Thorndale, Tex.

Carolina Plant Farms, Bethel, N. C.

Condon Bros., Seedsmen, Rockford, Ill.

Crecent Farms, Sumner, Ga.

Field's Nursery, Sewell, N. J.

Foulks Plant Farms, C. G., Amite, La.

Fulwood, P. D., Tifton, Ga.

Gantt Plant Farms, Magnolia, Ark.

Geraty & Co., Wm. C., Yonges Island, S. C.

Grossmann & Son, W., Petersburg, Va.

Hammell Seed Farms, Geo. Q., Cedarville, N. J.

Hoopes Co., J. E. (Plants and Asparagus Roots), Muscatine, Iowa

Irrigated Plant Farms, Thorndale, Texas

Jefferson Farms, The, Albany, Ga.

Keller Seed Store (Bermuda Onion), Shawnee, Okla.

Lagomarsino & Sons, F., Sacramento, Calif.

Legg, L. P., Ashburn, Ga.

Lehmann's Seed Store, Baton Rouge, La.

Leonard, I. & J. L., Iona, N. J.

Lockwood Greenhouses, Lockwood, Mo.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mosbell Co., John, Montvale, N. J.

Parks, Walter, Darien, Ga.

Patterson, Frank, Hawesville, Ky.

Pedrick & Sons, Geo. R., Pedricktown, N. J.

Piedmont Plant Co., Albany, Ga.

Quality Seed House, Chickasha, Okla.

Rochelle, Paul F., Morristown, N. J.

Ross Seed Co., Wichita, Kans.

Schutter, Fred H., Pleasant Valley, Iowa

Service Plant Co., Omega, Ga.

Sexton Seed Farm, Portales, N. Mex.

Shreve & Son, J. W., Andalusia, Ala.

Sims Plant Co., Pembroke, Ga.

Southern Plant Gardens, Ponta, Texas

Steiner Branch Seed Co., Grovetown, Ga.

Tidewater Plant Co., Franklin, Va.

Van Antwerp Seed Co., Mobile, Ala.

Vaughan's Seed Store, Chicago, Ill.

Vickery Plant Co., Ennis, Texas

Wards Gardens, Mobile, Ala.

Williams, W. W., Quitman, Ga.

Wood & Sons, T. W., Richmond, Va.

Woodard, Arlie, Dongola, Ill.

Wyatt & Sons Co., Job P., Raleigh, N. C.

POP CORN

Associated Seed Growers, Inc., New Haven, Conn.

Barteldes Seed Co., The, Lawrence, Kans.

Bowman Seed Co., The, Concordia, Kans.

Burgess Seed & Plant Co., Galesburg, Mich.

Buist Co., Robert, Philadelphia, Pa.

Burpee Co., W. Atlee, Philadelphia, Pa.

Condon Bros., Seedsmen, Rockford, Ill.

Corneli Seed Co., St. Louis, Mo.

Council Bluffs Seed Co., Council Bluffs, Iowa

Craver-Dickinson Seed Co., Buffalo, N. Y.

Dickinson Co., The, Albert, Chicago, Ill.

Farmer Seed & Nursery Co., Faribault, Minn.

Ferry-Morse Seed Co., San Francisco, Calif.

Hamilton Seed & Coal Co., Cedar Rapids, Iowa

Hart Seed Co., The Chas. C., Wethersfield, Conn.

Holmes Seed Co., The, Canton, Ohio

Jacques Seed Co., Prescott, Wis.

Kelly Seed Co., Peoria, Ill.

Lagomarsino & Sons, F., Sacramento, Calif.

Lambert & Sons, R. E., Darlington, Ala.

Lilly Co., Chas. H., Seattle, Wash.

Magill & Co., Fargo, N. Dak.

Mangelsdorf & Bro., Inc., Ed. F., St. Louis, Mo.

McCabe Bros. Grain Co., L'd., Winnipeg, Man., Canada

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Michael-Leonard Co., Sioux City, Iowa

Moore, Charles R., Cincinnati, Ohio

Nebraska Seed Co., The, Omaha, Nebr.

Nicholson Seed Co., Robert, Dallas, Texas

Nishna Valley Seed Co., Shenandoah, Iowa

Northrup, King & Co., Minneapolis, Minn.

Olds Seed Co., L. L., Madison, Wis.

O. & M. Seed Co., The, Green Springs, Ohio

Page Seed Co., The, Greene, N. Y.

Pedrick & Sons, Geo. R., Pedricktown, N. J.

Peppard Seed Co., Kansas City, Mo.

Prunty Seed & Grain Co., St. Louis, Mo.

Radwaner Seed Co., Inc., I. L., New York, N. Y.

Robinson Seed Co., The J. C., Waterloo, Nebr.

Russell-Heckle Seed Co., Memphis, Tenn.

Scarlett & Co., Wm. G., Baltimore, Md.

Schell, Inc., Walter S., Harrisburg, Pa.

Stoller's Seed House, Paulding, Ohio

U. S. Seed Co., St. Louis, Mo.

Vaughan's Seed Store, Chicago, Ill.

Wood & Sons, T. W., Richmond, Va.

Woodruff & Sons, Inc., F. H., Milford, Conn.

POTATOES, SEED

Advance Seed Co., Phoenix, Ariz.

Aggeler & Musser Seed Co., Los Angeles, Calif.

Boyce Co., J. A., Mt. Vernon, Wash.

Brent Seed Co., C. S., Lexington, Ky.

Burpee Co., W. Atlee, Philadelphia, Pa.

Carl & Son, Roscoe J., Lansing, Mich.

Condon Bros., Seedsmen, Rockford, Ill.

Davenport Seed Co., Davenport, Iowa

Farley-Clark, Inc., Bellingham, Wash.

Farmer Seed & Nursery Co., Faribault, Minn.

Far North Potato Ass'n, Park River, N. Dak.

Holmes Seed Co., The, Canton, Ohio

Interstate Seed & Grain Co., Fargo, N. Dak.

Lagomarsino & Sons, F., Sacramento, Calif.

Liefgreen Seed Co., Phoenix, Arizona

McCabe Bros. Grain Co., Ltd., Winn'peg, Man., Canada

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mixson Seed Co., W. H., Charleston, S. C.

Olds Seed Co., L. L., Madison, Wis.

Philadelphia Seed Co., Philadelphia, Pa.

Portland Seed Co., Portland, Ore.

Scarlett & Co., Wm. G., Baltimore, Md.

Schell, Inc., Walter S., Harrisburg, Pa.

Shuler & Smoak, Orangeburg, S. C.

Walker-Christensen Co., Minot, N. Dak.

Van Antwerp Seed Co., Mobile, Ala.

Vaughan's Seed Store, Chicago, Ill.

Washburn-Wilson Seed Co., Moscow, Idaho
 Wood & Sons, T. W., Richmond, Va.
 Woodruff & Sons, Inc., S. D., Orange, Conn.

ROSE BUSHES

American Bulb Co., Chicago, Ill.
 Condon Bros., Seedsmen, Rockford, Ill.
 Germain Seed & Plant Co., Los Angeles, Calif.
 Howard & Smith, Montebello, Calif.
 Howard Rose Co., Inc., Hemet, Calif.
 Ilgenfritz Sons Co., I. E., Monroe, Mich.
 Jackson & Perkins Co., Newark, N. Y.
 Lagomarsino & Sons, F., Sacramento, Calif.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Naperville Nurseries, Naperville, Ill.
 Onarga Nurseries, Onarga, Ill.
 Somerset Rose Nursery, Inc., New Brunswick, N. J.
 Storrs & Harrison Co., The, Painesville, Ohio
 Vaughan's Seed Store, Chicago, Ill.
 Wood & Sons, T. W., Richmond, Va.

SEED CORN

Associated Seed Growers, Inc., New Haven, Conn.
 Atlantic Seed Co., Inc., The, Philadelphia, Pa.
 Bonahoom Seed Co., N., Hastings, Nebr.
 Bowman Seed Co., The, Concordia, Kans.
 Brent Seed Co., C. S., Lexington, Ky.
 Brown Seed Co., Alfred J., Grand Rapids, Mich.
 Burpee Co., W. Atlee, Philadelphia, Pa.
 Cargill, Incorporated (Seed Division), Minneapolis, Minn.
 Carl & Son, Roscoe J., Lansing, Mich.
 Chambers Seed Co., Louisville, Ky.
 Clark & Sons, C. S., Wakeman, Ohio
 Comstock, Ferre & Co., Wethersfield, Conn.
 Condon Bros., Seedsmen, Rockford, Ill.
 Corneli Seed Co., St. Louis, Mo.
 Council Bluffs Seed Co., Council Bluffs, Iowa
 Davenport Seed Co., Davenport, Iowa
 Dickinson Co., The Albert, Chicago, Ill.
 Farmer Seed & Nursery Co., Faribault, Minn.
 Funk Bros. Seed Co., Bloomington, Ill.
 Germain Seed & Plant Co., Los Angeles, Calif.
 Goldberg Seed & Feed Co., Fargo, N. Dak.
 Griswold Seed & Nursery Co., Lincoln, Nebr.
 Hamilton Seed & Coal Co., Cedar Rapids, Iowa
 Hart Seed Co., The Chas. C., Wethersfield, Conn.
 Holmes Seed Co., The, Canton, Ohio
 Interstate Seed & Grain Co., Fargo, N. Dak.
 Jacques Seed Co., Prescott, Wis.
 Keller & Sons, Geo., Quincy, Ill.
 Kelly Seed Company, Peoria, Ill.
 King & Sons, H. C., Battle Creek, Mich.
 Lagomarsino & Sons, F., Sacramento, Calif.
 Landreth Seed Co., D., Bristol, Pa.
 Lambert & Sons, R. E., Darlington, Ala.
 Land O'Lakes Creameries, Inc., Minneapolis, Minn.
 Liefgreen Seed Co., Phoenix, Ariz.
 Lilly Co., Chas. H., Seattle, Wash.
 Magill & Co., "Fargo Seed House," Fargo, N. Dak.
 Mangelsdorf & Bro., Inc., Ed. F., St. Louis, Mo.
 McCabe Bros. Grain Co., Ltd., Winnipeg, Man., Canada
 McCoy Seed Co., Dan, Sikeston, Mo.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Michael-Leonard Co., Sioux City, Iowa
 Newday Seeds, Inc., Fargo, N. Dak.
 Nicholson Seed Co., Robert, Dallas, Texas
 Northrup, King & Co., Minneapolis, Minn.
 O. & M. Seed Co., The, Green Springs, Ohio
 Oakes & Co., Edgar L., Caldwell, Idaho
 Olds Seed Co., L. L., Madison, Wis.
 Ouren Seed Co., Council Bluffs, Iowa

Page Seed Co., Greene, N. Y.
 Peppard Seed Co., Kansas City, Mo.
 Peterson Biddick Co., Wadena, Minn.
 Philadelphia Seed Co., Philadelphia, Pa.
 Purcell Seed Co., Evansville, Ind.
 Riemers' Farms, Elberta, Ala.
 Robinson Seed Co., J. C., Waterloo, Nebr.
 Rogers Bros. Seed Co., Chicago, Ill.
 Russell-Heckle Seed Co., Memphis, Tenn.
 Scarlett & Co., Wm. G., Baltimore, Md.
 Schell, Inc., Walter S., Harrisburg, Pa.
 Scott & Sons, Co., O. M., Marysville, Ohio
 Seaboard Seed Co., Philadelphia, Pa.
 Sexauer & Son, Geo. P., Brookings, S. Dak.
 Shuler & Smoak, Orangeburg, S. Car.
 Shultz Seed Co., Olney, Ill.
 Stanford Seed Co., Buffalo, N. Y.
 Steele, Briggs Seed Co., Ltd., Toronto, Canada

Stoller's Seed House, Paulding, Ohio
 Strayer Seed Farms, Hudson, Iowa
 Twin City Seed Co., Minneapolis, Minn.
 Vaughan's Seed Store, Chicago, Ill.
 Wood & Sons, T. W., Richmond, Va.
 Woodruff & Sons, Inc., F. H., Millford, Conn.
 Woodruff & Sons, Inc., S. D., Orange, Conn.

TOBACCO SEED

Bowman Seed Co., The, Concordia, Kans.
 Brent Seed Co., C. S., Lexington, Ky.
 Buist Co., Robert, Philadelphia, Pa.
 Comstock, Ferre & Co., Wethersfield, Conn.
 Condon Bros. Seedsmen, Rockford, Ill.
 Corneli Seed Co., St. Louis, Mo.
 Ferry-Morse Seed Co., San Francisco, Calif.
 Hart Seed Co., The Chas. C., Wethersfield, Conn.
 Holmes Seed Co., The, Canton, Ohio
 Lagomarsino & Sons, F., Sacramento, Calif.
 Loewith, Inc., Julius, New York, N. Y.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Olds Seed Co., L. L., Madison, Wis.
 Shuler & Smoak, Orangeburg, S. C.
 Snapp & Son, J. P., Limestone, Tenn.
 Vaughan's Seed Store, Chicago, Ill.
 Wood & Sons, T. W., Richmond, Va.

TREE SEEDS

Albany Seed Co., Albany, Ore.
 Barteldes Seed Co., The, Lawrence, Kans.
 Bodger Seeds, Ltd., El Monte, Calif.
 Buckman, Denholm & Holden Seed Co., Lompoc, Calif.
 Burrell Seeds, Inc., Rocky Ford, Colo.
 Colorado Seed Co., Denver, Colo.
 Condon Bros. Seedsmen, Rockford, Ill.
 Germain Seed & Plant Co., Los Angeles, Calif.
 Herbst Brothers, New York, N. Y.
 Lagomarsino & Sons, F., Sacramento, Calif.
 Loewith, Inc., Julius, New York, N. Y.
 Nebraska Seed Co., The, Omaha, Nebr.
 Pearce, Rex D., Moorestown, N. J.
 Radwaner Seed Co., Inc., I. L., New York, N. Y.
 Rosebank Nursery Co., Huntsville, Ala.
 Schell, Inc., Walter S., Harrisburg, Pa.
 U. S. Seed Co., Inc., St. Louis, Mo.

VEGETABLE ROOTS

Burpee Co., W. Atlee, Philadelphia, Pa.
 Condon Bros., Seedsmen, Rockford, Ill.
 Corneli Seed Co., St. Louis, Mo.
 Lagomarsino & Sons, F., Sacramento, Calif.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Page Seed Co., The, Greene, N. Y.
 Schutter, Fred H., Pleasant Valley, Iowa
 Vaughan's Seed Store, Chicago, Ill.
 Wood & Sons, T. W., Richmond, Va.

WATER PLANTS

Aquatic Plant Nursery, New Orleans, La.
 Everglade Aquatic Nurseries, Inc., Tampa, Fla.
 Grassyfork Fisheries, Martinsville, Ind.
 Lakeview Ponds, The, Mt. Airy, Cincinnati, Ohio
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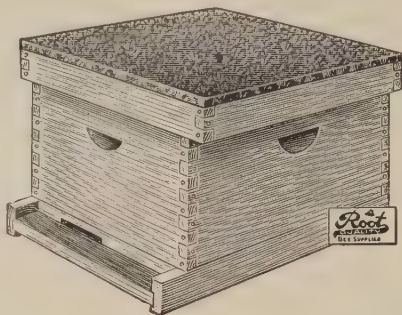
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Bonide Chem. Co., Inc., Utica, N. Y.
 California Spray Chemical Corp., Elizabeth, N. J.
 Carco Spray Co., Inc., Tacoma, Wash.
 Du Pont de Nemours & Co., Inc., E. I., Grasselli Chemicals Dept., Wilmington, Del.
 General Chemical Co., New York, N. Y.
 Good, Inc., James, Philadelphia, Pa.
 Goulard & Olena, Inc., New York, N. Y.
 Lee Co., Geo. H., Omaha, Nebr.
 LeGear Medicine Co., Dr. L. D., St. Louis, Mo.
 Nicotine Mfg. Co., St. Louis, Mo.
 Tobacco By-Products & Chem. Corp., Louisville, Ky.

AQUARIUMS AND SUPPLIES

Grassyfork Fisheries, Inc., Martinsville, Ind.
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 Morrison, J. Lester (Baby turtles, alligators, etc.), Florence, Ala.
 National Pet Shops, St. Louis, Mo.
 Schoemann & Mayer, Inc., New York, N. Y.
 Tamms Silica Co. (Pebbles), Chicago, Ill.
 Tricker, Inc., Wm., Independence, Ohio.
 Universal Crushed Shell Co., Muscatine, Iowa

AUGERS—TREE AND EARTH

Bartlett Mfg. Co., Detroit, Mich.
 Leonard & Son, A. M., Piqua, Ohio
 Vaughan's Seed Store, Chicago, Ill.

BAIT—CUT WORM

Goulard & Olena, Inc., New York, N. Y.

BAIT—INSECT—WEEVIL

Agricultural Laboratories, Inc., Columbus, Ohio

BAMBOO STAKES

American Florist Supply Co., Chicago, Ill.
 Holmes Seed Co., The, Canton, Ohio
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 McHutchison & Co., New York, N. Y.
 Schell, Inc., Walter S., Harrisburg, Pa.
 Vaughan's Seed Store, Chicago, Ill.

BANDS—LEG

Brower Mfg. Co., Quincy, Ill.
 Cyclone Mfg. Co., Urbana, Ind.
 Garden Industries, St. Louis, Mo.
 Illinois Supply Co., Aurora, Ill.
 Poultry Aid Products Co. (Delousing), Grand Rapids, Mich.

BANDS—PLANT

American Florist Supply Co., Chicago, Ill.
 Bird & Son, Inc., East Walpole, Mass.
 Germain Seed & Plant Co., Los Angeles, Calif.

BARROWS—GARDEN

American Florist Supply Co., Chicago, Ill.
 Leonard & Son, A. M., Piqua, Ohio
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Schell, Inc., Walter S., Harrisburg, Pa.
 Thompson & Sons, O. E., Ypsilanti, Mich.
 Vaughan's Seed Store, Chicago, Ill.

BASKETS

American Florist Supply Co., Chicago, Ill.
 Franklin Equipment Co. (Steel), Monticello, Iowa
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Planters Mfg. Co., Inc. (Field Tomato), Portsmouth, Va.
 Worcester Wire Novelty Co., Inc., Baltimore, Md.

Vaughan's Seed Store, Chicago, Ill.

BASKETS—HANGING

American Florist Supply Co., Chicago, Ill.
 Ionia Pottery Co., Ionia, Mich.
 Metal Products Co., Fredericksburg, Va.
 Michigan Wire Goods Co., Niles, Mich.
 Vaughan's Seed Store, Chicago, Ill.
 Western Stoneware Co., Monmouth, Ill.

BEE BOOKS

Dadant & Sons, Hamilton, Ill.
 Root Co., The A. I., Medina, Ohio
 Schell, Inc., Walter S., Harrisburg, Pa.

BEE SUPPLIES

American Cyanamid & Chemical Corp., New York, N. Y.
 Dadant & Sons, Hamilton, Ill.
 Falconer Mfg. Co., W. T., Falconer, N. Y.
 Hamilton Seed & Coal Co., Cedar Rapids, Iowa
 Kelley & Co., Walter T., Paducah, Ky.
 Leahy Mfg. Co., Higginsville, Mo.
 Lewis Co., G. B., Watertown, Wis.
 Root Co., The A. I., Medina, Ohio
 Schell, Inc., Walter S., Harrisburg, Pa.

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BIRD BOOKS

Flower's Tropical Bird Co., Van Nuys, Calif.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Schoemann & Mayer, Inc., New York, N. Y.
 Spratt's Patent, Ltd., Newark, N. J.

BIRD CAGES AND STANDS

Crown Products Co., Indianapolis, Ind.
 Flower's Tropical Bird Co., Van Nuys, Calif.
 Grand River Pet Supply Co., Detroit, Mich.
 Hendryx Co., Andrew B., New Haven, Conn.

National Pet Shops, St. Louis, Mo.

Schell, Inc., Walter S., Harrisburg, Pa.

Schoemann & Mayer, Inc. New York, N. Y.

BIRD FOOD

Audubon Workshop, Glencoe, Ill.
 Battle Creek Dog Food Co., Battle Creek, Mich.

Bishop, Welles L., Meriden, Conn.

Burnett's, Inc., Newark, N. J.

Dickinson Co., The Albert, Chicago, Ill.

Duryea Seed Co., Inc., New York, N. Y.

Ferry-Morse Seed Co., Detroit, Mich., San Francisco, Calif.

Garden Products Co., St. Louis, Mo.

Grand River Pet Supply Co., Detroit, Mich.

Hinton & Co., Inc., New York, N. Y.

Justrite Co., The, Milwaukee, Wis.

Loewith, Inc., Julius, New York, N. Y.

Mangelsdorf & Bro., Inc., Ed. F., St. Louis, Mo.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

National Pet Shops, St. Louis, Mo.

Petpak Products Co., Milwaukee, Wis.

Philadelphia Bird Food Co., Philadelphia, Pa.

Philadelphia Seed Co., Philadelphia, Pa.

Prunty Seed & Grain Co., St. Louis, Mo.

Scarlett & Co., Wm. G., Baltimore, Md.

Schell, Inc., Walter S., Harrisburg, Pa.

Spratt's Patent, Ltd., Newark, N. J.
Von Damm, F. H. (Bird Food), Brooklyn,
N. Y.

BIRD RAPE

Dickinson Seed Co., The Albert, Chicago,
Ill.
Duryea Seed Co., Inc., New York, N. Y.
Loewith, Inc., Julius, New York, N. Y.
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio
Philadelphia Seed Co., Philadelphia, Pa.
Scarlett & Co., William G., Baltimore, Md.
Schell, Inc., Walter S., Harrisburg, Pa.
Seaboard Seed Co., Philadelphia, Pa.

BIRDS

Bird Mart, Fort Lauderdale, Fla.
Flower's Tropical Bird Co., Van Nuys, Calif.
Geisler Bird Co., Max, New York, N. Y.
National Pet Shops, St. Louis, Mo.
Robison, Ansel W., San Francisco, Calif.
Schell, Inc., Walter S., Harrisburg, Pa.

BIRD SEED CARTONS

Disbrow Mfg. Co., Inc., Newark, N. J.
Schmidt Lithograph Co., San Francisco,
Calif.

BIRD SUPPLIES

Battle Creek Dog Food Co., Battle Creek,
Mich.
Hamilton Seed & Coal Co., Cedar Rapids,
Iowa
Holmes Seed Co., Canton, Ohio
Ken-L-Products Division, The Quaker Oats
Company, Rockford, Ill.
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio
Scarlett & Co., William G., Baltimore, Md.
Schell, Inc., Walter S., Harrisburg, Pa.
Schoemann & Mayer, Inc., New York, N. Y.
Spratt's Patent, Ltd., Newark, N. J.

BLEACHERS—CELERY

Ball-Biddle Co., Riverton, N. J.
Disbrow Mfg. Co., Inc., Newark, N. J.
Miller, Tompkins & Co., East Rutherford,
N. J.
Schell, Inc., Walter S., Harrisburg, Pa.

BOOK—FARMING AND GARDENING

American Florist Supply Co., Chicago, Ill.
DeLaMare Co., Inc., A. T., New York, N. Y.
Doubleday, Doran & Co., Inc., New York,
N. Y.
Hamilton Seed & Coal Co., Cedar Rapids,
Iowa
Lippincott Co., J. B., Philadelphia, Pa.
Little Brown & Co., Boston, Mass.
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio
Macmillan Co., The, New York, N. Y.
Page Seed Co., The, Greene, N. Y.
Orange-Judd Pub. Co., New York, N. Y.
Union Fork & Hoe Co., The, Columbus, Ohio

BOOKS ON TREES

American Florist Supply Co., Chicago, Ill.
Bartlett Mfg. Co., Detroit, Mich.
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Herbst Bros., New York, N. Y.
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio
Macmillan Co., The, New York, N. Y.

BOWLS—BULB

American Bulb Co., Chicago, Ill.
American Florist Supply Co., Chicago, Ill.
Block, Inc., J. & I., New York, N. Y.
Brush Pottery Co., Zanesville, Ohio
Created Ideas, Inc., Cincinnati, Ohio
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio
Metal Products Co., Fredericksburg, Va.
Morton Pottery Co., Morton, Ill.
Pittsburg Pottery Co., Pittsburg, Kansas
Vaughan's Seed Store, Chicago, Ill.
Western Stoneware Co., Monmouth, Ill.
Zane Pottery Co., So. Zanesville, Ohio

BOXES—FLOWER

American Bulb Co., Chicago, Ill.
American Florist Supply Co., Chicago, Ill.
Bird & Son, Inc., East Walpole, Mass.

Homecraft Specialty Mfg. Co., Mattoon, Ill.
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio

Unadilla Silo Co., Inc., Unadilla, N. Y.
Woodcraft Co., Dalton, N. Y.
Yoho & Hooker (Cypress), Youngstown,
Ohio

BOXES—PARCEL POST

Campbell Box & Tag Co., South Bend, Ind.
Container Corp. of America, Chicago, Ill.
Disbrow Mfg. Co., Inc., Newark, N. J.
Hinde & Dauch Paper Co., Sandusky, Ohio

BOXES—TRANSPLANTING

Ball-Biddle Co., Riverton, N. J.
Bird & Son, Inc., East Walpole, Mass.
The Osmo Garden Co., Philadelphia, Pa.

BRAIDS—TYING

Fricke Co., J. E., Philadelphia, Pa.

BROODERS

Brower Mfg. Co., Quincy, Ill.
Buckeye Incubator Co., Springfield, Ohio
Cyclone Mfg. Co., Urbana, Ind.
Hoeft & Co., North Chicago, Ill.
H. D. Hudson Mfg. Co., Chicago, Ill.
Makomb Steel Products Co., Macomb, Ill.
National Ideal Co., Toledo, Ohio
Oakes Mfg. Co., Tipton, Ind.
Poorman, John G. (Feather), Tinley Park,
Ill.

Royal Mfg. Co., Bowling Green, Ohio

BULB EDGE GLASS

Heller & Co., Montpelier, Ohio

BURNERS—WEED

Aerol Burner Co., Inc., West New York,
N. J.
American Florist Supply Co., Chicago, Ill.
Hauck Mfg. Co., Brooklyn, N. Y.

CANS—WATERING

American Florist Supply Co., Chicago, Ill.
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio
National Enameling & Stamping Co., Mil-
waukee, Wis.
Vaughan's Seed Store, Chicago, Ill.

CARTS—GARDEN OR LAWN

Budwig Mfg. Co., Burbank, Calif.
Leonard & Son, A. M., Piqua, Ohio
Masters Planter Co., Benton Harbor, Mich.
Schell, Inc., Walter S., Harrisburg, Pa.
Thompson & Sons, O. E., Ypsilanti, Mich.
Vaughan's Seed Store, Chicago, Ill.

CAT FOOD AND SUPPLIES

Battle Creek Dog Food Co., Battle Creek,
Mich.
Burnett's, Inc., Newark, N. J.
Gabriel's Laboratories, Tell City, Ind.
Ken-L-Products Division, The Quaker Oats
Company, Rockford, Ill.
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio
Perfection Foods Co., Battle Creek, Mich.
Reynolds Mfg. Co. (Catnip Mice), Frederick-
town, Ohio
Schell, Inc., Walter S., Harrisburg, Pa.
Spratt's Patent, Ltd., Newark, N. J.
Zenith Novelty Co., New York, N. Y.

CHARCOAL

American Florist Supply Co., Chicago, Ill.
Cliffs Dow Chem. Co., Marquette, Mich.
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio
Ouren Seed Co., Council Bluffs, Iowa
Scarlett & Co., Wm. G., Baltimore, Md.
Schell, Inc., Walter S., Harrisburg, Pa.

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Graf Hatcheries, E. J., Evansville, Ind.
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Carus Chemical Co., La Salle, Ill.
Chic-Tone Co., Bath, Pa.
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McCormick Sales Co., The, Baltimore, Md.
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio

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Mechling Bros. Chemicals, Philadelphia, Pa.
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Boyle Co., The A. S., Jersey City, N. J.
California Spray Chemical Corp., Elizabeth, N. J.
Douglas Chemical & Supply Co., Kansas City, Mo.
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Garden Products Co., St. Louis, Mo.
Goulard & Olena, Inc., New York, N. Y.
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Bonide Chem. Co., Inc., Utica, N. Y.
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Douglas Chem. & Supply Co., Kansas City, Mo.
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Quaker Oats Co., Chicago, Ill.
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Purcell Seed Co., Evansville, Ind.
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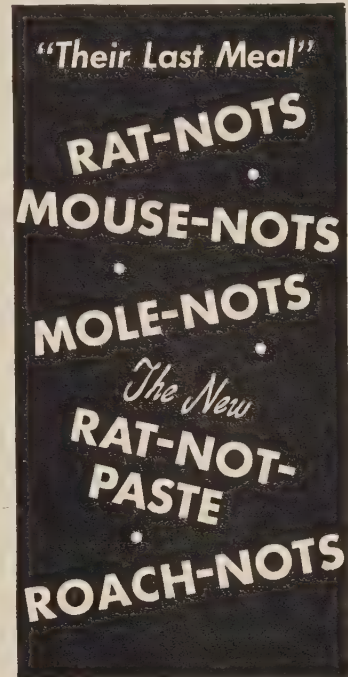
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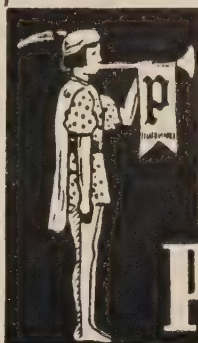
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California Spray Chemical Corp., Elizabeth, N. J.

Dickinson Seed Co., The Albert, Chicago, Ill.

Du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.

Ellis Associates, Inc., Montclair, N. J.
Garden Products Co., St. Louis, Mo.

Kem-ical Corporation (Liquid), Oradell, N. J.

Lilly Co., The Chas. H., Seattle, Wash.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mechling Bros., Chemicals, Philadelphia, Pa.

Plantabbs Co., Baltimore, Md.

Premier Peat Moss Corp., New York, N. Y.

Pulverized Manure Co., The, Chicago, Ill.

Rorer, Inc., Wm. H., Philadelphia, Pa.

Rose Mfg. Co., Beacon, N. Y.

Scarlett & Co., William G., Baltimore, Md.

Sewerage Commission, Milwaukee, Wis.

Shur-Gro Co., Pittsburgh, Pa.

Smith Agricultural Chemical Co., The, Columbus, Ohio

Summers Fertilizer Co., The, Baltimore, Md.

Swift & Co. (Vigoro), Chicago, Ill.

Tennessee Corp. (Loma), New York, N. Y.

Vaughan's Seed Store, Chicago, Ill.

Von Damm, F. H., Brooklyn, N. Y.

Wilson & Co., Chicago, Ill.

FISH FOODS

American Bird Products Co., Chicago, Ill.

Battle Creek Dog Food Co., Battle Creek, Mich.

Burnett's, Inc., Newark, N. J.

Grassyfork Fisheries, Inc., Martinsville, Ind.

Hinton & Co., New York, N. Y.

Justrite Co., Milwaukee, Wis.

Lakeview Ponds, Mt. Airy, Cincinnati, Ohio

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

National Pet Shops, St. Louis, Mo.

Ozark Fisheries, Inc., Stoutland, Mo.

Petpak Products Co., Milwaukee, Wis.

Philadelphia Bird Food Co., Philadelphia, Pa.

Scarlett & Co., Wm. G., Baltimore, Md.

Schoemann & Mayer, Inc., New York, N. Y.

Spratt's Patent, Ltd., Newark, N. J.

FLATS—SEED

American Florist Supply Co., Chicago, Ill.

Ball-Biddle Co., Riverton, N. J.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Norman Sheet Metal Mfg. Co., W. F., Nevada, Mo.

Perma Tag Co. (Plant), Grand Rapids, Mich.

Yoho & Hooker (Cypress), Youngstown, Ohio

FLORISTS' SUPPLIES

The American Agricultural Chemical Co., New York, N. Y.

American Chemical Paint Co., Ambler, Pa.

American Cyanamid & Chemical Corp., New York, N. Y.

American Florist Supply Co., Chicago, Ill.

Bird & Son, Inc., East Walpole, Mass.

Created Ideas, Inc., Cincinnati, Ohio

Dickinson Co., The Albert, Chicago, Ill.

Garden Products Co., St. Louis, Mo.

Hammond Paint & Chemical Co., Beacon, N. Y.

Hampden Mfg. Co. (Flower Holder), New York, N. Y.

Holmes Seed Co., The, Canton, Ohio

Hydroponic Chemical Co., Inc., New York, N. Y.

Kaufmann Seed Co., Seattle, Wash.

Leonard & Son, A. M. (Flower Holder), Piqua, Ohio

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mechling Bros. Chemicals, Philadelphia, Pa.

M & K, Ltd. (Flower Holder), Portland, Ore.

Plantabbs Co., Baltimore, Md.

Protex Industries, Inc., New York, N. Y.

Rorer, Inc., William H., Philadelphia, Pa.

Rotenone Products Co. (Tindust), East Orange, N. J.

Seaboard Seed Co., Philadelphia, Pa.

Thompson Co., Wm. T., Los Angeles, Calif.

Vaughan's Seed Store, Chicago, Ill.

FLOWERS—ARTIFICIAL

Adler-Jones Co., Chicago, Ill.

American Florist Supply Co., Chicago, Ill.

Cal. Artificial Flower Co., Providence, R. I.

New Art Flower Co. (Wax & Cloth), Brooklyn, N. Y.

Vaughan's Seed Store, Chicago, Ill.

FORCERS—SEED AND PLANT

American Fork & Hoe Co., Cleveland, Ohio

Ball-Biddle Co., Riverton, N. J.

Keene Mfg. Co., Racine, Wis.

FORKS—GARDEN

Field & Co., Alfred, New York, N. Y.

Geyer Mfg. Co., Rock Falls, Ill.

Leonard & Son, A. M., Piqua, Ohio

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Union Fork & Hoe Co., The, Columbus, Ohio

Vaughan's Seed Store, Chicago, Ill.

FORMALDEHYDE DUST

Du Pont de Nemours & Co., Inc., E. I., Grasselli Chemicals Dept., Wilmington, Del.

Hammond Paint & Chem. Co., Beacon, N. Y.

Merck & Co., Inc., Rahway, N. J.

Rohm & Haas Co., Philadelphia, Pa.

FOUNTAINS—DRINKING

Brower Mfg. Co., Quincy, Ill.

Cyclone Mfg. Co., The, Urbana, Ind.

Hoelt & Co., Inc., North Chicago, Ill.

Hudson Mfg. Co., H. D., Chicago, Ill.

Makomb Steel Products Co., Macomb, Ill.

National Ideal Co., Toledo, Ohio

Oakes Mfg. Co., Tipton, Ind.

Simplex Brooder Stove Co., Grand Rapids, Mich.

Thompson & Sons, O. E., Ypsilanti, Mich.

FRUIT DROP PREVENTION

American Chemical Paint Co., Ambler, Pa.

Dickinson Co., The Albert, Chicago, Ill.

Dow Chemical Co., Midland, Mich.

Merck & Co., Inc., Rahway, N. J.

FUMIGANTS

Agricultural Laboratories, Inc., Columbus, Ohio

American Fumigating Co., St. Louis, Mo.

American Cyanamid & Chem. Co., New York, N. Y.

American Florist Supply Co., Chicago, Ill.

Arrow Products Co. (also equipment), Carlstadt, N. J.

California Spray-Chem. Corp., Elizabeth, N. J.

Douglas Chemical & Supply Co., Kansas City, Mo.

Dow Chemical Co., Midland, Mich.

Du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.

Goulard & Olena, Inc., New York, N. Y.

Hammond Paint & Chem. Co., Beacon, N. Y.

Innis, Speiden & Co., New York, N. Y.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mallinckrodt Chemical Works, St. Louis, Mo.

Mechling Bros. Chemical Co., Philadelphia, Pa.

Merck & Co., Inc., Rahway, N. J.

Nicotine Mfg. Co., St. Louis, Mo.

Rose Mfg. Co., Beacon, N. Y.

Scarlett & Co., Wm. G., Baltimore, Md.

Tobacco By-Products & Chemical Corp., Louisville, Ky.

Vaughan's Seed Store, Chicago, Ill.

FUMIGANTS—GREENHOUSE

American Cyanamid & Chem. Corp., New York, N. Y.

American Florist Supply Co., Chicago, Ill.

Arrow Products Co., Carlstadt, N. J.

Douglas Chemical & Supply Co., Kansas City, Mo.

Innis, Speiden & Co., New York, N. Y.

Merck & Co., Inc., Rahway, N. J.

Vaughan's Seed Store, Chicago, Ill.

FUNGICIDES

The American Agricultural Chemical Co., New York, N. Y.

American Chemical Paint Co., Ambler, Pa.

American Cyanamid & Chem. Corp., New York, N. Y.

Ansbacher Siegle Corp., Brooklyn, N. Y.

Bonide Chem. Co., Inc., Utica, N. Y.

California Spray Chem. Corp., Elizabeth, N. J.

Carus Chemical Co., La Salle, Ill.

Chipman Chemical Co., Inc., Bound Brook, N. J.

Curex, Inc., Wood Ridge, N. J.

Dickinson Seed Co., The Albert, Chicago, Ill.

Dow Chemical Co., Midland, Mich.

Du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.

Du Pont Semesan Co., Inc., Wilmington, Del.

Garden Products Co., St. Louis, Mo.

Goulard & Olena, Inc., New York, N. Y.

Hammond Paint & Chemical Co., Beacon, N. Y.

Los Angeles Chemical Co., Los Angeles, Calif.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mallinckrodt Chemical Works, St. Louis, Mo.

Mechling Bros. Chemicals, Philadelphia, Pa.

Merck & Co., Inc., Rahway, N. J.

National Sulphur Co., New York, N. Y.

Nott Mfg. Co., New York, N. Y.

Prait Co., B. G., New York, N. Y.

Protex Industries, Inc., New York, N. Y.

Rohm & Haas Co., Inc., Philadelphia, Pa.

Rose Mfg. Co., Beacon, N. Y.

Seaboard Seed Co., Philadelphia, Pa.

Stauffer Chemical Co., New York, N. Y.

Tennessee Corp., New York, N. Y.

U. S. Rubber Co., Naugatuck Chemical Div., New York, N. Y.

Vaughan's Seed Store, Chicago, Ill.

Wilson, Inc., Andrew, Springfield, N. J.

Wood Ridge Mfg. Co., Wood Ridge, N. J.

FURNITURE—LAWN

Homecraft Specialty Mfg. Co., Mattoon, Ill.

Lannon Quarries Corp., Beaver Dam, Wis.

Unadilla Silo Co., Inc., Unadilla, N. Y.

Universal Wire & Iron Co. (Wire Garden Arches), Milwaukee, Wis.

Western Stoneware Co., Monmouth, Ill.

Woodcraft Co., Dalton, N. Y.

Woodworking Specialty Co., Crystal Lake, Ill.

GARDEN TRACTORS

Allen & Co., Inc., S. L., Philadelphia, Pa.

Field Force Mfg. Co., Potstow, Pa.

Ariens Company, Brillion, Wis.

Gilson-Bolens Mfg. Co., Port Washington, Wis.

Gravelly Motor Plow & Cultivator Co., Dunbar, W. Va.

Leroy Plow Co., Leroy, N. Y.

Pioneer Mfg. Co., West Allis, Milwaukee, Wis.

Tillavator Co., New York, N. Y.

Union Fork & Hoe Co., Columbus, Ohio

Utilitor Co., The, Miamisburg, Ohio

GLASS—GREENHOUSE

Metropolitan Greenhouse Mfg. Corp.,
Brooklyn, N. Y.
Yoho & Hooker, Youngstown, Ohio

GLASS SUBSTITUTE

Arvey Corp., Chicago, Ill.
Celluloid Corp., New York, N. Y.
Dow Chemical Co., Midland, Mich.
Flex-o-Glass Mfg. Co., Chicago, Ill.
Sol-O-Lite Mfg. Co., Chicago, Ill.
Warp Bros., Chicago, Ill.

GLOBES—GAZING

Lannon Quarries Corp., Beaver Dam, Wis.
Testrite Instrument Co., New York, N. Y.
Western Stoneware Co., Monmouth, Ill.
Woodworking Specialty Co., Crystal Lake,
Ill.

GLOVES—GARDEN

American Florist Supply Co., Chicago, Ill.
Edmont Mfg. Co., Coshocton, Ohio
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio
National Glove Co., The, Columbus, Ohio
Pioneer Rubber Co., Willard, Ohio
Schell, Inc., Walter S., Harrisburg, Pa.
Vaughan's Seed Store, Chicago, Ill.

GOLD FISH

Auburndale Goldfish Co., Chicago, Ill.
Battle Creek Dog Food Co., Battle Creek,
Mich.
Bruce Goldfish Fisheries, Thornburg, Iowa
Crescent Fish Farm, New Orleans, La.
Everglades Aquatic Nurseries, Inc., Tampa,
Fla.
Grassyfork Fisheries, Inc., Martinsville, Ind.
Japanese Goldfish Hatchery Co., North
Branch, N. J.
Lakeview Ponds, The, Mt. Airy, Cincinnati,
Ohio
Loveland Goldfish Farms, Loveland, Ohio
Mt. Parnell Fisheries, Mercersburg, Pa.
Ozark Fisheries, Inc., Stoutland, Mo.
Tricker, Inc., Wm., Independence, Ohio
Woodford Water Gardens, Van Nuys, Calif.

GOURDS

Bodger Seeds, Ltd., El Monte, Calif.
Burpee & Co., W. Atlee, Philadelphia, Pa.
Lagomarsino & Sons, F., Sacramento, Calif.
McCullough Seed Co., The J. Chas., Cin-
cinnati, Ohio
Macdonald Seed Co., The Wm., Santa
Maria, Calif.
Robinson Seed Co., J. C., Waterloo, Nebr.
Robinson & Sons, Lawrence, Modesto, Calif.
Waller-Franklin Seed Co., Guadalupe,
Calif.

GRAFTING TOOLS

Bartlett Mfg. Co., Detroit, Mich.
Leonard & Son, A. M., Piqua, Ohio
Schell, Inc., Walter S., Harrisburg, Pa.
Vaughan's Seed Store, Chicago, Ill.

GREENHOUSE MATERIAL

American Florist Supply Co., Chicago, Ill.
Dow Chemical Co., Midland, Mich.
Hammond Paint & Chem. Co., Beacon, N. Y.
Hydroponic Chemical Co., Inc., New York,
N. Y.
Loewith, Inc., Julius, New York, N. Y.
Protex Industries, Inc., New York, N. Y.
William H. Rorer, Philadelphia, Pa.
Thompson Co., Wm. T., Los Angeles, Calif.
Vaughan's Seed Store, Chicago, Ill.

GRINDERS—HAND

W. W. Feed Grinder Corp., Wichita, Kans.

GRIT

Dickinson Co., The Albert, Chicago, Ill.
Calcium Carbonate Co., Chicago, Ill.
Limestone Products Corp. of America, New-
ton, N. J.
Marblehead Lime Co., Chicago, Ill.
Ouren Seed Co., Council Bluffs, Iowa
Scarlett & Co., Wm. G., Baltimore, Md.

GUNS—SPRAY

Myers & Bro. Co., The F. E., Ashland, Ohio
Hudson Mfg. Co., H. D., Chicago, Ill.
Dobbins Mfg. Co., Elkhart, Ind.

HANGERS—DOOR

Myers & Bro. Co., F. E., Ashland, Ohio

HARROWS

Allen & Co., S. L., Philadelphia, Pa.
Empire Plow Co., Cleveland, Ohio
Case Co., J. I. (Horse Drawn), Racine, Wis.

HIVES—BEE

Root Co., The A. I., Medina, Ohio
Schell, Inc., Walter S., Harrisburg, Pa.

HOES

Allen & Co., S. L. (Wheel), Philadelphia,
Pa.
Field Force Mfg. Co., Pottstown, Pa.
American Fork & Hoe Company, Cleveland,
Ohio
Easyfold Manufacturer, Faribault, Minn.
Gardex, Inc., Michigan City, Ind.
Gilson Co., J. E., Port Washington, Wis.
Hamlin Metal Products Co., Akron, Ohio
Hudson Mfg. Co., H. D., Chicago, Ill.
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cin-
cinnati, Ohio
Union Fork & Hoe Co., The, Columbus,
Ohio
Vaughan's Seed Store, Chicago, Ill.

HORMONES—PLANT

Agricultural Laboratories, Inc., Columbus,
Ohio
American Chemical Paint Co., Ambler, Pa.
American Florist Supply Co., Chicago, Ill.
Dickinson Co., The Albert, Chicago, Ill.
Garden Products Co., St. Louis, Mo.
McCullough Seed Co., The J. Chas., Cincin-
nati, Ohio
Merck & Co., Inc., Rahway, N. J.
Nott Mfg. Co., New York, N. Y.
William H. Rorer, Philadelphia, Pa.
Schell, Inc., Walter S., Harrisburg, Pa.
Thompson Co., Wm. T., Los Angeles, Calif.
Vaughan's Seed Store, Chicago, Ill.

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Agricultural Laboratories, Inc., Columbus, Ohio
American Chemical Paint Co., Ambler, Pa.
Dickinson Co., The Albert, Chicago, Ill.
Dow Chemical Co., Midland, Mich.
Merck & Co., Inc., Rahway, N. J.

HORTICULTURAL BOOKS

Doubleday, Doran & Co., Inc., New York, N. Y.
Dow Chemical Co., Midland, Mich.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Macmillan Co., The, New York, N. Y.

HOSE—GARDEN

De Vilbiss Co., Toledo, Ohio
Fisk Rubber Corp., Chicopee Falls, Mass.
Goodrich Rubber Co., B. F., Akron, Ohio
Goodyear Rubber Co., Akron, Ohio
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Vaughan's Seed Store, Chicago, Ill.

HOSE HOLDERS

Anker-Holth Mfg. Co., Port Huron, Mich.
Lansing Specialties Mfg. Co., Lansing, Mich.
Hozon Co., Warrensville, Ohio

HOSE—SPRAYER

Bartlett Mfg. Co., Detroit, Mich.
"Friend" Mfg. Co., Gasport, N. Y.
G-L Products Co., Toledo, Ohio
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Pioneer Rubber Mills, San Francisco, Calif.
Seamlex Co., Long Island City, N. Y.
Thompson Co., Wm. T., Los Angeles, Calif.
Vaughan's Seed Store, Chicago, Ill.

HOSE SPRAYERS—CARTRIDGE

American Florist Supply Co., Chicago, Ill.
Hammond Paint & Chemical Co., Beacon, N. Y.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Schell, Inc., Walter S., Harrisburg, Pa.
Vaughan's Seed Store, Chicago, Ill.

HOTKAPS

Germain Seed & Plant Co., Los Angeles, Calif.

HOUSES—BIRD

Batcheller Associates, Fred E., Deland, Fla.
Bishop, Welles L., Meriden, Conn.
Dodson, Inc., Jos. H., Kankakee, Ill.
Hamilton Seed & Coal Co., Cedar Rapids, Iowa
Homecraft Specialty Mfg. Co., Mattoon, Ill.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Root Co., The A. I., Medina, Ohio
Schell, Inc., Walter S., Harrisburg, Pa.
Schoemann & Mayer, Inc., New York, N. Y.
Vaughan's Seed Store, Chicago, Ill.
Western Stoneware Co., Monmouth, Ill.
Woodcraft Co., The, Dalton, N. Y.
Woodworking Specialty Co., Crystal Lake, Ill.
Yoho & Hooker, Youngstown, Ohio

HUMUS

American Soil Sponge Selling Corp., New York, N. Y.
Florida Humus Co., Zellwood, Fla.
Hyper-Humus Co., Newton, N. J.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Sewerage Commission, Milwaukee, Wis.
Schell, Inc., Walter S., Harrisburg, Pa.
Vaughan's Seed Store, Chicago, Ill.

INCUBATORS

Brower Mfg. Co., Quincy, Ill.
Buckeye Incubator Co., Springfield, Ohio
Hoeft & Co., North Chicago, Ill.
Makomb Steel Products Co., Macomb, Ill.
Oakes Mfg. Co., Tipton, Ind.
Reliable Incubator & Brooder Co., Quincy, Ill.

INOCULANTS

Agricultural Laboratories, Inc., Columbus, Ohio

Craver-Dickinson Seed Co., Buffalo, N. Y.
Dickinson Co., The Albert, Chicago, Ill.
Earp-Thomas Laboratories, Inc., Bloomfield, N. J.

Hansen Inoculating Co., Urbana, Ill.
Kalo Inoculant Co., Quincy, Ill.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Nitragin Co., Inc., The, Milwaukee, Wis.
Peppard Seed Co., Kansas City, Mo.
Philadelphia Seed Co., Philadelphia, Pa.
Schell, Inc., Walter S., Harrisburg, Pa.
Urbana Laboratories, The, Urbana, Ill.
Vaughan's Seed Store, Chicago, Ill.
Woodruff & Sons, Inc., F. H., Milford, Conn.

INSECT BURNERS

Aeroil Burner Co., West New York, N. J.
Dobbins Mfg. Co., Elkhart, Ind.

INSECTICIDES—ANIMAL

Agricultural Laboratories, Inc., Columbus, Ohio
American Cyanamid & Chemical Corp., New York, N. Y.
Boyle Co., The A. S., Jersey City, N. J.
C-A-Wood Preserver Co., St. Louis, Mo.
Conkey Co., G. E., Cleveland, Ohio
Douglas Chemical & Supply Co., Kansas City, Mo.
Dow Chemical Co., Midland, Mich.
Hammond Paint & Chem. Co., Beacon, N. Y.
Lee Co., George H., Omaha, Nebr.
LeGear Medicine Co., Dr. L. D., St. Louis, Mo.

McCormick Sales Co., The, Baltimore, Md.
Mechling Bros. Chemicals, Philadelphia, Pa.
Merck & Co., Inc., Rahway, N. J.
Nott Mfg. Co., New York, N. Y.
One-Spot Co., Elkridge, Md.
Rotenone Products Co., Inc., East Orange, N. J.
Tobacco By-Products & Chem. Corp., Louisville, Ky.

INSECTICIDES—HOUSEHOLD

Agricultural Laboratories, Inc., Columbus, Ohio
American Cyanamid & Chemical Corp., New York, N. Y.
Boyle Co., The A. S., Jersey City, N. J.
Douglas Chemical & Supply Co., Kansas City, Mo.
Dow Chemical Co., Midland, Mich.
Hammond Paint & Chemical Co., Beacon, N. Y.
Innis, Speiden & Co., New York, N. Y.
McCormick Sales Co., The, Baltimore, Md.
Mechling Bros. Chemicals, Philadelphia, Pa.
Nott Mfg. Co., New York, N. Y.
Rose Mfg. Co., Beacon, N. Y.

INSECTICIDES—PLANT

Agricultural Laboratories, Inc., Columbus, Ohio
American Fumigating Co., St. Louis, Mo.
American Agricultural Chem. Co., The, New York, N. Y.
American Color & Chemical Co., Boston, Mass.
American Cyanamid & Chem. Corp., New York, N. Y.
American Florist Supply Co., Chicago, Ill.
Ansbacher Siegle Corp., Brooklyn, N. Y.
Arrow Products Co., Carlstadt, N. J.
Bonide Chem. Co., Inc., Utica, N. Y.
Boyle Co., The A. S., Jersey City, N. J.
Buckeye Chem. & Specialty Co., New York, N. Y.
Buist Co., Robert, Philadelphia, Pa.
Calif. Spray-Chemical Corp., Elizabeth, N. J.
Douglas Chemical & Supply Co., Kansas City, Mo.
Dow Chemical Co., Midland, Mich.
Du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.
Garden Hose Spray Co., Inc., Cambridge, Mass.
Hammond Paint & Chemical Co., Beacon, N. Y.

Henderson & Co., Peter, New York, N. Y.
Holmes Seed Co., The, Canton, Ohio
Kaufmann Seed Co., Seattle, Wash.
Kay Fries Chemicals, Inc., New York, N. Y.
Lethelin Products Co., Wood Ridge, N. J.
Lilly Co., The Chas. H., Seattle, Wash.
Los Angeles Chemical Co., Los Angeles, Calif.

McCormick Sales Co., The, Baltimore, Md.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Mechling Bros. Chemicals, Philadelphia, Pa.

Merck & Co., Inc., Rahway, N. J.
National Sulphur Co., New York, N. Y.
Nicotine Mfg. Co., St. Louis, Mo.
Nott Mfg. Co., New York, N. Y.
One-Spot Co., Elkridge, Md.
Pennick & Co., S. B., New York, N. Y.
Plantabbs Corp., Baltimore, Md.
Pratt Co., B. G., New York, N. Y.
Protex Industries, Inc., New York, N. Y.
Reade Mfg. Co., Jersey City, N. J.
Reade, Inc., Morris B., Belleville, N. J.
Rohm & Haas Co., Philadelphia, Pa.
Rose Mfg. Co., Beacon, N. Y.
Rotenone Products Co., Inc., East Orange, N. J.

Stauffer Chemical Co., New York, N. Y.
Tennessee Corp., New York, N. Y.
Tobacco By-Products & Chemical Corp., Inc. (Black Leaf 40), Louisville, Ky.
To-Na-Cide Sales Co., New York, N. Y.
U. S. Rubber Co., Naugatuck Chemical Div., New York, N. Y.

Vaughan's Seed Store, Chicago, Ill.
Wood Ridge Mfg. Co., Wood Ridge, N. J.

IRRIGATION SYSTEMS

The American Specialty Co., Amherst, Ohio
Campbell Irrigation Co., Woodbury, N. J.
Dayton-Irrigation Co., Dayton, Ohio
Hastings Canvas Co., Hastings, Nebr.
March Automatic Irrigation Co., Muskegon, Mich.

Myers & Bro. Co., The F. E., Ashland, Ohio
White Showers, Inc., Detroit, Mich.

JAPANESE BEETLE CONTROL

Arrow Products Co., Carlstadt, N. J.

KNEE PADS

American Florist Supply Co., Chicago, Ill.
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Salta Corp., Jersey City, N. J.
Schell, Inc., Walter S., Harrisburg, Pa.
Vaughan's Seed Store, Chicago, Ill.

KNIVES—HORTICULTURAL

Bartlett Mfg. Co., Detroit, Mich.
Johnson, Inc., Wm., Newark, N. J.
Leonard & Son, A. M., Piqua, Ohio
Union Fork & Hoe Co., Columbus, Ohio

LABELS—PLANT

American Bulb Co., Chicago, Ill.
American Florist Supply Co., Chicago, Ill.
Gogel Co., Walter A. (Plant & Tree), Toledo, Ohio
Lansing Specialties Mfg. Co., Lansing, Mich.
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Norman Sheet Metal Mfg. Co., W. F., Nevada, Mo.
Paxton Products Co., Riverside, Calif.
Perma Tag Co. (Wood, Metal & Paper Wired), Grand Rapids, Mich.
Schell, Inc., Walter S., Harrisburg, Pa.
Vaughan's Seed Store, Chicago, Ill.
Wilton Garden Label Co., Wilton, Conn.
Yoho & Hooker, Youngstown, Ohio

LAWN BURNERS

Aeroil Burner Co., West New York, N. J.
Dobbins Mfg. Co., Elkhart, Ind.

LAWN EDGE TRIMMERS

Allen & Co., Inc., S. L., Philadelphia, Pa.
American Florist Supply Co., Chicago, Ill.
Bartlett Mfg. Co., Detroit, Mich.
Gardex, Inc., Michigan City, Ind.
Leonard & Son, A. M., Piqua, Ohio

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**"The Victory Garden
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HERE'S the news you've been waiting for. The Government has released a limited amount of Rotenone to permit us to supply you with Red Arrow Garden Spray—for use on food crops only. For 1944, Red Arrow Garden Spray is a potent Rotenone-Soap concentrate—the only insecticide most Victory Gardeners need. Safe to humans, pets and birds when sprayed. Controls most types of insects commonly found on vegetables, greens and small fruits. Packed only in 1-ounce, 4-ounce and 1-pint sizes. Sells at regular peacetime prices.

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For Use on Non-Food Plants

Packed only in 1-gallon jugs, primarily for the greenhouse and nursery trade, there are no restrictions on the use of this "emergency" product. It is offered for use on flowers and shrubs until supplies and regulations again permit the use of Red Arrow Garden Sprays containing pyrethrum, rotenone or both. Controls Leaf Hoppers, Mealy Bugs, Thrips, Red Spiders, Lace Bugs, White Flies, Orthezia and Chrysanthemum Midge.

Plenty of Sales Help

As in the past, Red Arrow Garden Spray will be nationally advertised, and spray charts and other sales helps will be supplied free. For price lists and full information, ask your jobber, or write today to:

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 Schell, Inc., Walter S., Harrisburg, Pa.
 Union Fork & Hoe Co., The, Columbus, Ohio

LAWN FERTILIZERS

American Agricultural Chemical Co., The, New York, N. Y.
 Atkins & Durbrow, Inc., New York, N. Y.
 Albert Dickinson Co., The, Chicago, Ill.
 Hydroponic Chemical Co., Inc., New York, N. Y.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Mechling Bros. Chemicals, Philadelphia, Pa.



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Wizard Manures are highest quality, dehydrated pure manures, direct heat sterilized to kill all weed seeds. Attractively packed for the retail trade. These well known and effectively merchandised products have served the trade for more than 36 years.



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 Rorer, Inc., William H., Philadelphia, Pa.
 Scarlett & Co., William G., Baltimore, Md.
 Smith Agricultural Chemical Co., Columbus, Ohio
 Swift & Co., Chicago, Ill.
 Tennessee Corp., Loma Div., New York, N. Y.
 Vaughan's Seed Store, Chicago, Ill.
 Woodruff & Sons, Inc., F. H., Milford, Conn.

LEGUME INOCULANTS

Agricultural Laboratories, Inc., Columbus, Ohio
 Craver-Dickinson Seed Co., Buffalo, N. Y.
 Albert Dickinson Co., The, Chicago, Ill.
 Earp, Thomas, Laboratories, Inc., Bloomfield, N. J.
 Kalo Inoculant Co., Quincy, Ill.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Nitragin Co., Inc., The, Milwaukee, Wis.
 Nott Mfg. Co., New York, N. Y.
 Scarlett & Co., William G., Baltimore, Md.
 Schell, Inc., Walter S., Harrisburg, Pa.
 Urbana Laboratories, The, Urbana, Ill.
 Vaughan's Seed Store, Chicago, Ill.

LIME

American Florist Supply Co., Chicago, Ill.
 International Agricultural Corp., New York, N. Y.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Marble Cliff Quarries Co., Columbus, Ohio
 Mechling Bros. Chemicals, Philadelphia, Pa.
 Vaughan's Seed Store, Chicago, Ill.

LIQUID PLANT FOOD

The American Agricultural Chemical Co., New York, N. Y.
 American Florist Supply Co., Chicago, Ill.
 American Liquid Fertilizer Co., Marietta, Ohio
 Garden Products Co., St. Louis, Mo.
 Kem-ical Corporation, Oradell, N. J.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Nott Mfg. Co., New York, N. Y.
 Rorer, Inc., William H., Philadelphia, Pa.
 Thompson Co., William T., Los Angeles, Calif.
 Vaughan's Seed Store, Chicago, Ill.

LITTER—POULTRY

American Florist Supply Co., Chicago, Ill.
 Atkins & Durbrow, Inc., New York, N. Y.
 Dickinson Co., The Albert, Chicago, Ill.
 Goulard & Olena, Inc., New York, N. Y.
 Land O'Lakes Creameries, Inc., Minneapolis, Minn.
 National Ideal Co., Toledo, Ohio

New Amsterdam Import & Supply Co., Inc., New York, N. Y.

Julius Loewith, Inc., New York, N. Y.
 Premier Peat Moss Corp., New York, N. Y.
 Scarlett & Co., Wm. G., Baltimore, Md.

MANURE—COW

American Florist Supply Co., Chicago, Ill.
 Atkins & Durbrow, Inc., New York, N. Y.
 Goulard & Olena, Inc., New York, N. Y.
 Pulverized Manure Co., The, Chicago, Ill.
 Scarlett & Co., Wm. G., Baltimore, Md.
 Schell, Inc., Walter S., Harrisburg, Pa.
 Swift & Co., Chicago, Ill.
 Vaughan's Seed Store, Chicago, Ill.

MANURE—SHEEP

American Florist Supply Co., Chicago, Ill.
 Brent Seed Co., C. S., Lexington, Ky.
 Goulard & Olena, Inc., New York, N. Y.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Philadelphia Seed Co., Inc., Philadelphia, Pa.
 Pulverized Manure Co., The, Chicago, Ill.
 Scarlett & Co., Wm. G., Baltimore, Md.
 Schell, Inc., Walter S., Harrisburg, Pa.
 Shur-Gro Company, Pittsburg, Pa.
 Stockdale Fertilizer Co., Morris, Ill.
 Swift & Co., Chicago, Ill.
 Vaughan's Seed Store, Chicago, Ill.

MARKERS—PLANT

American Florist Supply Co., Chicago, Ill.
 Bartlett Mfg. Co., Detroit, Mich.
 Lansing Specialties Mfg. Co., Lansing, Mich.
 Leonard & Son, A. M., Piqua, Ohio
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Midwest Metal Specialties Co., Aurora, Ill.
 Norman Sheet Metal Mfg. Co., W. F., Nevada, Mo.
 Plantabbs Corp., Baltimore, Md.
 Smith Industries (Metal), Xenia, Ohio
 Wilton Garden Label Co., Wilton, Conn.
 Yoho & Hooker, Youngstown, Ohio
 Vaughan's Seed Store, Chicago, Ill.

MIXERS—SEED OR FEED

Brower Mfg. Co., Quincy, Ill.
 Ferrell & Co., A. T., Saginaw, Mich.
 Hart-Carter Co., Minneapolis, Minn.
 Howes Co., Inc., S., Silver Creek, N. Y.
 Majestic Huller & Mfg. Co., Minneapolis, Minn.
 Prater Pulverizer Co., Cicero, Ill.
 Sedberry, Inc., J. B., Franklin, Tenn.
 Sprout, Waldron & Co., Muncy, Pa.

MOSS—PEAT

American Bulb Co., Chicago, Ill.
 American Florist Supply Co., Chicago, Ill.
 American Soil Sponge Selling Corp., York, N. Y.
 Atkins & Durbrow, Inc. (Horticultural), New York, N. Y.
 Dickinson Co., The Albert, Chicago, Ill.
 Hamilton Seed & Coal Co., Cedar Rapids, Iowa
 Holmes Seed Co., The, Canton, Ohio
 Kaufmann Seed Co., Seattle, Wash.
 Loewith, Inc., Julius, New York, N. Y.
 Maine Peat Moss Co., Inc., Jonesport, Maine
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 McHutchison & Co., New York, N. Y.
 Michigan Peat Co., Buchanan, Mich.
 New Amsterdam Import & Supply Co., Inc., New York, N. Y.
 Ouren Seed Co., Council Bluffs, Iowa
 Philadelphia Seed Co., Inc., Philadelphia, Pa.
 Premier Peat Moss Corp., New York, N. Y.
 Scarlett & Co., Wm. G., Baltimore, Md.
 Schell, Inc., Walter S., Harrisburg, Pa.
 Snelson Co., Savannah, Ga.
 Vaughan's Seed Store, Chicago, Ill.

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 American Florist Supply Co., Chicago, Ill.
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 Holmes Seed Co., The, Canton, Ohio
 Loewith, Inc., Julius, New York, N. Y.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 McHutchison & Co., New York, N. Y.
 Premier Peat Moss Corp., New York, N. Y.
 Snelson Co., Savannah, Ga.
 Vaughan's Seed Store, Chicago, Ill.

MOTH KILLERS

Agricultural Laboratories, Inc., Columbus, Ohio
 American Cyanamid & Chem. Corp., New York, N. Y.
 California Spray Chemical Corp., Elizabeth, N. J.
 Douglas Chemical & Supply Co., Kansas City, Mo.
 Dow Chemical Co., Midland, Mich.
 Goulard & Olena, Inc., New York, N. Y.

Hammond Paint & Chemical Co., Beacon, N. Y.
 Innis, Speiden & Co., New York, N. Y.
 Killant Chem. Co., Ft. Worth, Texas
 Mallinckrodt Chem. Works, St. Louis, Mo.
 Mechling Bros. Chemicals, Philadelphia, Pa.
 Merck & Co., Inc., Rahway, N. J.
 Sollicide Laboratories, Upper Montclair, N. J.

MOWERS—LAWN

Allen & Co., Inc., S. L., Philadelphia, Pa.
 Clemson Bros., Inc., Middletown, N. Y.
 Coldwell Lawn Mower Co., Newburgh, N. Y.
 Cooper Mfg. Co. (Power), Marshalltown, Iowa
 Eclipse Lawn Mower Co., Prophetstown, Ill.
 Flex-Blade Works, New York, N. Y.
 Gilson-Bolens Mfg. Co. (Power), Port Washington, Wis.
 Jacobsen Mfg. Co., Racine, Wis.
 Leonard & Son, A. M., Piqua, Ohio
 Moto-Mower Co. (Power), Detroit, Mich.
 Robertson Mfg. Co., Michigan City, Ind.
 Shaw Mfg. Co. (Power), Galesburg, Kans.
 Yardman, Inc., Jackson, Mich.

MULCH

American Florist Supply Co., Chicago, Ill.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Redwood Fibre Prod. Co., Santa Cruz, Calif.
 Vaughan's Seed Store, Chicago, Ill.

MUSHROOM SPAWN

Chester County Mushroom Laboratories, West Chester, Pa.
 Lambert's Mushroom Laboratories, Coatesville, Pa.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Vaughan's Seed Store, Chicago, Ill.

NESTS—POULTRY

Brower Mfg. Co., Quincy, Ill.
 Cyclone Mfg. Co., Urbana, Ind.
 Hoeft & Co., North Chicago, Ill.
 Hudson Mfg. Co., H. D., Chicago, Ill.

NOVELTIES

Aerolux Light Corp., New York, N. Y.
 Carter Products Co., Cleveland, Ohio
 Created Ideas, Inc., Cincinnati, Ohio
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Shure Co., N., Chicago, Ill.
 Vaughan's Seed Store, Chicago, Ill.
 Worcester Wire Novelty Co., Inc., Baltimore, Md.

NOZZLES—HOSE

American Florist Supply Co., Chicago, Ill.
 Carter Products Corp., Cleveland, Ohio
 Leonard & Son, A. M., Piqua, Ohio
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio
 Perfection Sprinkler Co., Plymouth, Mich.

Smith & Co., D. B., Utica, N. Y.
 Vaughan's Seed Store, Chicago, Ill.

NUTRIENT SOLUTION TESTING

Urbana Laboratories, The, Urbana, Ill.

OYSTER SHELLS

Land O'Lakes Creameries, Inc., Minneapolis, Minn.
 Oyster Shell Prod. Corp., New Rochelle, N. Y.

Scarlett & Co., Wm. G., Baltimore, Md.
 Shell Builder, Inc., Houston, Texas
 Universal Crushed Shell Co., Muscatine, Iowa

Wood & Sons, T. W., Richmond, Va.

PAINTS—GREENHOUSE

Goulard & Olena, Inc., New York, N. Y.
 Hammond Paint & Chem. Co., Beacon, N. Y.

PEAT MOSS

(See Moss-Peat)

PENCILS—WATERPROOF LABEL

American Bulb Co., Chicago, Ill.
 American Florist Supply Co., Chicago, Ill.
 McCullough Seed Co., The J. Chas., Cincinnati, Ohio

PETS

Deedie's Pet Shop, Newark, N. J.
 National Pet Shops, St. Louis, Mo.
 So. Calif. Bird & Pet Exchange, Bell, Calif.
 Zenith Novelty Co., New York, N. Y.

PET SUPPLIES

Battle Creek Dog Food Co., Battle Creek, Mich.
 Dickinson Co., The Albert, Chicago, Ill.
 Holmes Seed Co., The, Canton, Ohio
 Ken-L-Products Division, The Quaker Oats Company, Rockford, Ill.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mechling Bros. Chemicals, Philadelphia, Pa.

National Pet Shops, St. Louis, Mo.
 Schoemann & Mayer, Inc., New York, N. Y.
 Spratt's Patent, Ltd., Newark, N. J.
 Vaughan's Seed Store, Chicago, Ill.

PLANT COVERS

Germain Seed & Plant Co., Los Angeles, Calif.
 Oldmill Paper Products Corp., Long Island City, N. Y.
 Paxton Products Co., Riverside, Calif.
 Vaughan's Seed Store, Chicago, Ill.

PLANTERS

Acmeline Mfg. Co., Traverse City, Mich.
 Allen & Co., Inc., S. L., Philadelphia, Pa.
 Case Co., J. I., Racine, Wis.
 Coleman Bros. Mfg. Co., New Albany, Ind.
 Dobbins Mfg. Co., Elkhart, Ind.
 Farquhar Co., Ltd., A. B., York, Pa.
 Field Force Mfg. Co., Pottstown, Pa.
 Gardex, Inc., Michigan City, Ind.
 G-L Products Co. (Bulb), Toledo, Ohio
 Holland Celery Planter Co., Holland, Mich.
 Magee Co., Thos. J., Germantown, Philadelphia, Pa.
 Masters Planter Co., Benton Harbor, Mich.

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Thompson's PREE-PLANT is a hormone-B-Complex vitamin powder. (Contains also an organic nitrogenous compound.) Simple to use; it's merely DUSTED on! Hastens germination and more rapid, sturdier root growth in flowers and grass seeds and bulbs. Effective in the field—and in sales!

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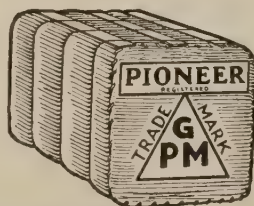
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Vaughan's Seed Store, Chicago, Ill.

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American Chemical Paint Co., Ambler, Pa.

American Florist Supply Co., Chicago, Ill.

Dickinson Co., The Albert, Chicago, Ill.

Floralife, Chicago, Ill.

Flower Foods, Inc., Maywood, Ill.

Garden Products Co., St. Louis, Mo.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Thompson Co., William T., Los Angeles, Calif.

Vaughan's Seed Store, Chicago, Ill.

PLANT FOODS

(See also Fertilizers)

Agricultural Laboratories, Inc., Columbus, Ohio

American Agricultural Chemical Co., The, New York, N. Y.

Atkins & Durbrow, Inc., New York, N. Y.

Garden Products Co., St. Louis, Mo.

Goulard & Olena, Inc., New York, N. Y.

Holmes Seed Co., The, Canton, Ohio

Hydroponic Chemical Co., Inc., New York, N. Y.

Kem-ical Corporation, Oradell, N. J.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mechling Bros. Chemicals, Philadelphia, Pa.

Nott Mfg. Co., Mt. Vernon, N. Y.

Plantabbs Co., Baltimore, Md.

Pulverized Manure Co., The, Chicago, Ill.

Rorer, Inc., William H., Philadelphia, Pa.

Schell, Inc., Walter S., Harrisburg, Pa.

Smith Agricultural Chem. Co., The, Columbus, Ohio

Swift & Co., Chicago, Ill.

Tennessee Corp., New York, N. Y.

Thompson Co., William T., Los Angeles, Calif.

Twin City Seed Co., Minneapolis, Minn.

Vaughan's Seed Store, Chicago, Ill.

PLANT STIMULANTS

Agricultural Laboratories, Inc., Columbus, Ohio

The American Agricultural Chemical Co., New York, N. Y.

American Chemical Paint Co., Ambler, Pa.

Dickinson Co., The Albert, Chicago, Ill.

Dow Chemical Co., Midland, Mich.

Goulard & Olena, Inc., New York, N. Y.

Garden Products Co., St. Louis, Mo.

Hydroponic Chemical Co., Inc., New York, N. Y.

Kaufmann Seed Co., Seattle, Wash.

Kem-ical Corporation, Oradell, N. J.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Merck & Co., Inc., Rahway, N. J.

Nott Mfg. Co., Mt. Vernon, N. Y.

Plantabbs Co., Baltimore, Md.

Pulverized Manure Co., The, Chicago, Ill.

Rorer, Inc., William H., Philadelphia, Pa.

Swift & Co., Chicago, Ill.

Thompson Co., William T., Los Angeles, Calif.

Twin City Seed Co., Minneapolis, Minn.

Vaughan's Seed Store, Chicago, Ill.

PLANT VITAMINS

Agricultural Laboratories, Inc., Columbus, Ohio

American Chemical Paint Co., Ambler, Pa.

American Florist Supply Co., Chicago, Ill.

Burgess Seed & Plant Co., Galesburg, Mich.

Dickinson Co., The Albert, Chicago, Ill.

Garden Products Co., St. Louis, Mo.

Goulard & Olena, Inc., New York, N. Y.

Hydroponic Chemical Co., Inc., New York, N. Y.

Kaufmann Seed Co., Seattle, Wash.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Merck & Co., Inc., Rahway, N. J.

Nott Mfg. Co., Mt. Vernon, N. Y.

Plantabbs Co., Baltimore, Md.

Rorer, Inc., William H., Philadelphia, Pa.

Schell, Inc., Walter S., Harrisburg, Pa.

Thompson Co., William T., Los Angeles, Calif.

Vaughan's Seed Store, Chicago, Ill.

PLOWS

Allen & Co., Inc., S. L., Philadelphia, Pa.

Gardex, Inc., Michigan City, Ind.

POLE PRUNERS

Bartlett Mfg. Co., Detroit, Mich.

Leonard & Son, A. M., Piqua, Ohio

POT COVERS—FLOWER

American Bulb Co., Chicago, Ill.

American Florist Supply Co., Chicago, Ill.

Bird & Son, Inc., East Walpole, Mass.

Oldmill Paper Products Corp., Long Island City, N. Y.

Vaughan's Seed Store, Chicago, Ill.

POT SAUCERS

American Florist Supply Co., Chicago, Ill.

Bird & Son, Inc., East Walpole, Mass.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Vaughan's Seed Store, Chicago, Ill.

Zane Pottery Co., Zanesville, Ohio

POTS—FLOWER

American Bulb Co., Chicago, Ill.

American Florist Supply Co., Chicago, Ill.

Ball-Biddle Co. (Fibre), Riverton, N. J.

Bird & Son, Inc. (Paper), East Walpole, Mass.

Fertile Products, Inc., Bridgeport, Conn.

Haeger Potteries, Dundee, Ill.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Schell, Inc., Walter S., Harrisburg, Pa.

Vaughan's Seed Store, Chicago, Ill.

Western Stoneware Co., Monmouth, Ill.

POTS—TRANSPLANTING

Ball-Biddle Co. (Fibre), Riverton, N. J.

Bird & Son, Inc., East Walpole, Mass.

Fertile Products, Inc., Bridgeport, Conn.

Goulard & Olena, Inc., New York, N. Y.

Iris Paper Flower Pot Co., Philadelphia, Pa.

Kervan Co., New York, N. Y.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

The Osmo Garden Co., Philadelphia, Pa.

Paxton Products Co., Riverside, Calif.

Vaughan's Seed Store, Chicago, Ill.

POSTERS

Burpee Co., W. Atlee, Philadelphia, Pa.

Central Tag Co., Chicago, Ill.

McFarland Publicity Service, Harrisburg, Pa.

Morse Co., A. B., St. Joseph, Mich.

Schmidt Litho. Co., San Francisco, Calif.

Stecher-Traung Litho. Corp., Rochester, N. Y.

POWER LAWN MOWERS

Allen & Co., Inc., S. L., Silver Creek, N. Y.

American Florist Supply Co., Chicago, Ill.

Eclipse Lawn Mower Co., Prophetstown, Ill.

Schell, Inc., Walter S., Harrisburg, Pa.

Vaughan's Seed Store, Chicago, Ill.

POWER SPRAYERS

Aerol Burner Co., West New York, N. J.

Bartlett Mfg. Co., Detroit, Mich.

Dobbins Mfg. Co., Elkhart, Ind.

Hudson Mfg. Co., H. D., Chicago, Ill.

Myers & Bro. Co., The F. E., Ashland, Ohio

PROTECTORS—LAWN

Gogel Co., Walter A., Toledo, Ohio

Lansing Specialties Mfg. Co., Lansing, Mich.

Merck & Co., Inc., Rahway, N. J.

Michigan Wire Goods, Niles, Mich.

PROTECTORS—PLANT

Ball-Biddle Co., Riverton, N. J.

California Fruit Wrapping Mills, Inc., Pomona, Calif.

Germain's Hotkaps Mfg. Div., Los Angeles, Calif.

Harris Mfg. Co., A. W., Sleepy Eye, Minn.

Oldmill Paper Products Corp., Long Island City, N. Y.

Paxton Products Co., Riverside, Cal.

Schell, Inc., Walter S., Harrisburg, Pa.

Vaughan's Seed Store, Chicago, Ill.

Woodruff & Sons, Inc., F. H., Milford, Conn.

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LIGHTWEIGHT STURDY CONSTRUCTION

BIRD NEPONSET RED POTS, made from specially strong paper and wax-treated for water resistance, are the ideal shipping pot for all types of plants. Light in weight, they will save you many dollars in shipping costs, yet their sturdy construction assures ample safety. Breakage is eliminated. They have been a standard for practical shipping convenience for many years. Your customers will like their attractive red color. They are shipped to you set up, ready for use, nested and packed in Bird Solid Fibre Cases which bring them to you in perfect condition. Bird Neponset Red Pots are available in the following sizes:

Sizes	Weight per case	Quantity per case
2"	10	1000
2 1/4"	12	1000
2 1/2"	16	1000
3"	25	1000
3 1/2"	35	1000
4"	21	500
5"	33	500
6"	48	500

BIRD PLANT BANDS

When starting plants in flats, you will find Bird Plant Bands efficient, economical and convenient. They make excellent cutworm guards. Easy to assemble. Made from specially strong, waterproof paper. Bird Plant Bands are available in the following sizes:

Sizes	Weight per case	Quantity per case
1 3/4"	14	1000
2"	16	1000
2 1/2"	22	1000
3"	29	1000

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EAST WALPOLE, MASS.

RAFFIA

GENUINE
MADAGASCAR
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EAST COAST—WEST COAST

COLORED
30 COLORS

GRASS MATS

3' x 6'



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Established 1909

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—he keeps right on with his annoyance making **DOGZOFF** a year round necessity.

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Shortages of many items makes empty spaces on your counters and shelves. Display **DOGZOFF**.

ORDER EARLY. Transportation is very slow this spring. If your order is to be shipped by freight, allow extra time.

Stock **DOGZOFF** Now

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The **GUARANTEED** Repellent

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Atkins & Co., E. C., Indianapolis, Ind.
Bartlett Mfg. Co., Detroit, Mich.
Clark & Son, Walter E., Milford, Conn.
Disston & Sons, Inc., Henry, Philadelphia, Pa.
Graham & Co., Inc., John H., New York, N. Y.
Johnson, Inc., Wm., Newark, N. J.
Leonard & Sons, A. M., Piqua, Ohio
Nagley Transplanter Co., Memphis, N. Y.
Peck, Stow & Wilcox Co., Southington, Conn.
Smith & Son, Inc., Seymour, Oakville, Conn.
Tiffany, Carroll R., Conklin, N. Y.
Vaughan's Seed Store, Chicago, Ill.

POTTERY

(See Bowls—Bulb)

PUMPS—HAND & POWER

Myers & Bro. Co., The F. E., Ashland, Ohio
PUMP JACKS

Myers & Bro. Co., The F. E., Ashland, Ohio
PUTTY

Hammond Paint & Chem. Co., Beacon, N. Y.
Metropolitan Greenhouse Mfg. Corp., Brooklyn, N. Y.

PYRETHRUM

The American Agricultural Chemical Co., New York, N. Y.

American Florist Supply Co., Chicago, Ill.
Boyle Co., The A. S., Jersey City, N. J.

Goulard & Olena, Inc., New York, N. Y.
Hammond Paint & Chem. Co., Beacon, N. Y.

McCormick Sales Co., The, Baltimore, Md.
McLaughlin Gormley King Co., Minneapolis, Minn.

Mechling Bros. Chemicals, Philadelphia, Pa.

Protex Industries, Inc., New York, N. Y.
Vaughan's Seed Store, Chicago, Ill.

RAFFIA

American Florist Supply Co., Chicago, Ill.
American Reedcraft Corp., New York, N. Y.

Buist Co., Robert, Philadelphia, Pa.
Goulard & Olena, Inc., New York, N. Y.

Holmes Seed Co., The, Canton, Ohio
Leonard & Son, A. M., Piqua, Ohio

Loewith, Inc., Julius, New York, N. Y.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

McHutchison & Co., New York, N. Y.
Meehan Co., Thomas B., Dresher, Pa.

Schell, Inc., Walter S., Harrisburg, Pa.
Vaughan's Seed Store, Chicago, Ill.

RAKES

American Florist Supply Co., Chicago, Ill.
Bartlett Mfg. Co., Detroit, Mich.

Gardex, Inc., Michigan City, Ind.
Hamlin Metal Products Co., Akron, Ohio

Kautenberg Co., W. E., Freeport, Ill.
Leonard & Son, A. M., Piqua, Ohio

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Union Fork & Hoe Co., The, Columbus, Ohio

Vaughan's Seed Store, Chicago, Ill.

REED MATS

Loewith, Inc., Julius, New York, N. Y.
McHutchison & Co., New York, N. Y.

Vaughan's Seed Store, Chicago, Ill.

REELS—GARDEN LINE

Johnson, Inc., Wm., Newark, N. J.
Leonard & Sons, A. M., Piqua, Ohio

REELS—HOSE

American Florist Supply Co., Chicago, Ill.
Anker-Holth Mfg. Co., Port Huron, Mich.

Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Schell, Inc., Walter S., Harrisburg, Pa.
Specialty Mfg. Co., St. Paul, Minn.

Vaughan's Seed Store, Chicago, Ill.

REMEDIES—PET

Battle Creek Dog Food Co., Battle Creek, Mich.

Boyle Co., A. S., Jersey City, N. J.
Hammond Paint & Chem. Co., Beacon, N. Y.
Justrite Co., Milwaukee, Wis.

Le Gear Medicine Co., Dr. L. D., St. Louis, Mo.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mechling Bros. Chemicals, Philadelphia, Pa.

One-Spot Co., Elkridge, Md.

Polk-Miller Products Corp., Richmond, Va.
Q-W Laboratories, Inc., Bound Brook, N. J.

Schoemann & Mayer, Inc., New York, N. Y.
Spratt's Patent, Ltd., Newark, N. J.

Vaughan's Seed Store, Chicago, Ill.

REMEDIES—POULTRY

Brower Mfg. Co., Quincy, Ill.
California Spray Chemical Corp., Elizabeth, N. J.

Chic-Tone Co., Inc., Bath, Pa.
Conkey Co., G. E., Cleveland, Ohio

Land O'Lakes Creameries, Inc., Minneapolis, Minn.

Lee Co., Geo. H., Omaha, Nebr.
Le Gear Medicine Co., Dr. L. D., St. Louis, Mo.

Mechling Bros. Chemicals, Philadelphia, Pa.

Merck & Co., Inc., Rahway, N. J.
One-Spot Co., Elkridge, Md.

Parke, Davis & Co., Detroit, Mich.
Pratt Food Co., Philadelphia, Pa.

Russell Co., I. D., Kansas City, Mo.
Salsbury's Laboratories, Dr., Charles City, Iowa

Standard Chem. Mfg. Co., Omaha, Nebr.
Tobacco By-Products & Chemical Corp., Louisville, Ky.

REMEDIES—STOCK

Chattanooga Medicine Co., Chattanooga, Tenn.

Dairy Association Co., Lyndonville, Vt.
Goulard & Olena, Inc., New York, N. Y.

Lee Co., Geo. H., Omaha, Nebr.

LeGear Medicine Co., Dr. L. D., St. Louis, Mo.

Lilly Co., The Chas. H., Seattle, Wash.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mechling Bros. Chemicals, Philadelphia, Pa.

Pratt Food Co., Philadelphia, Pa.
Scott Co., I. W., Pittsburgh, Pa.

REPELLENTS—CROW

Ansbacher-Siegle Corp., Brooklyn, N. Y.
Cedar Hill Formulæ Co., The, New Britain, Conn.

Goulard & Olena, Inc., New York, N. Y.
Hammond Paint & Chem. Co., Beacon, N. Y.

Holmes Seed Co., Canton, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Scarlett & Co., Wm. G., Baltimore, Md.
Schell, Inc., Walter S., Harrisburg, Pa.

Vaughan's Seed Store, Chicago, Ill.
Woodruff & Sons, Inc., F. H., Milford, Conn.

REPELLENTS—DOGS, ETC.

Bohlender Plant Chemicals, Inc., Tipp City, Ohio

California Spray Chemical Corp., Elizabeth, N. J.

Goulard & Olena, Inc., New York, N. Y.
Hammond Paint & Chem. Co., Beacon, N. Y.

Holmes Seed Co., Canton, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Mechling Bros. Chemicals, Philadelphia, Pa.

Nott Mfg. Co., Mt. Vernon, N. Y.
Protex Industries, Inc., New York, N. Y.

Sudbury Laboratory, South Sudbury, Mass.
Tobacco By-Products & Chem. Corp., Louisville, Ky.

Vaughan's Seed Store, Chicago, Ill.

REPELLENTS—INSECT

Agricultural Laboratories, Inc., Columbus, Ohio

Bohlender Plant Chemicals, Inc., Tipp City, Ohio

California Spray Chemical Corp., Elizabeth, N. J.

Goulard & Olena, Inc., New York, N. Y.

Hammond Paint & Chem. Co., Beacon, N. Y.
 LeGear Medicine Co., Dr. L. D., St. Louis,
 Mo.
 Mechling Bros. Chemicals, Philadelphia,
 Pa.
 National Carbon Co., Inc., New York, N. Y.
 Tanglefoot Co., The, Grand Rapids, Mich.
 Tobacco By-Products & Chemical Corp.,
 Inc., Louisville, Ky.
 Vaughan's Seed Store, Chicago, Ill.

REPELLENTS—RODENT

Agricultural Laboratories, Inc., Columbus,
 Ohio
 American Florist Supply Co., Chicago, Ill.
 Atkins & Durbrow, Inc., New York, N. Y.
 California Spray Chemical Corp., Elizabeth,
 N. J.
 Douglas Chemical & Supply Co., Kansas
 City, Mo.
 Hammond Paint & Chem. Co., Beacon, N. Y.
 Rat Lunches Co., Carroll, Iowa
 V & M Products, Galesburg, Mich.
 Vaughan's Seed Store, Chicago, Ill.

ROCK PHOSPHATE

American Agricultural Chemical Co., The,
 New York, N. Y.
 McCullough Seed Co., The J. Chas., Cincin-
 nati, Ohio
 Summers Fertilizer Co., The, Baltimore, Md.
 Vaughan's Seed Store, Chicago, Ill.

ROLLERS—LAWN

American Florist Supply Co., Chicago, Ill.
 Caledonia Bean Harvester Works, Caledo-
 nia, N. Y.
 Gardex, Inc., Michigan City, Ind.
 Graham & Co., John H., New York, N. Y.
 Holmes Seed Co., The, Canton, Ohio
 Jackson Mfg. Co., Harrisburg, Pa.
 Leonard & Son, A. M., Piqua, Ohio
 McCullough Seed Co., The J. Chas., Cincin-
 nati, Ohio
 Schell, Inc., Walter S., Harrisburg, Pa.
 Vaughan's Seed Store, Chicago, Ill.
 Worthington Mower Co., Stroudsburg, Pa.

ROOT FORMING HORMONES

Agricultural Laboratories, Inc., Columbus,
 Ohio
 American Chemical Paint Co., Ambler, Pa.
 American Florist Supply Co., Chicago, Ill.
 Dickinson Co., The Albert, Chicago, Ill.
 Garden Products Co., St. Louis, Mo.
 McCullough Seed Co., The J. Chas., Cincin-
 nati, Ohio
 Merck & Co., Inc., Rahway, N. J.
 Nott Mfg. Co., New York, N. Y.
 Rorer, Inc., William H., Philadelphia, Pa.
 Scarlett & Co., Wm. G., Baltimore, Md.
 Seaboard Seed Co., Philadelphia, Pa.
 Thompson Co., Wm. T., Los Angeles, Calif.
 Vaughan's Seed Store, Chicago, Ill.

ROTONONE

American Agricultural Chemical Co., New
 York, N. Y.
 American Florist Supply Co., Chicago, Ill.
 Goulard & Olen, Inc., New York, N. Y.
 Hammond Paint & Chem. Co., Beacon, N. Y.
 McCormick Sales Co., The, Baltimore, Md.
 McCullough Seed Co., The J. Chas., Cincin-
 nati, Ohio
 Mechling Bros. Chemicals, Philadelphia,
 Pa.
 Protex Industries, Inc., New York, N. Y.
 Schell, Inc., Walter S., Harrisburg, Pa.
 Vaughan's Seed Store, Chicago, Ill.

SALAMANDERS

Aeroil Burner Co., West New York, N. J.

SASH—HOT BED

Foley Greenhouse Mfg. Co., Chicago, Ill.
 Metropolitan Greenhouse Mfg. Corp., Brook-
 lyn, N. Y.
 Yoho & Hooker, Youngstown, Ohio

SCALES—EGG

Brower Mfg. Co., Quincy, Ill.
 Cyclone Mfg. Co., Urbana, Ind.
 Exact Weight Scale Co., Columbus, Ohio
 Hudson Mfg. Co., H. D., Chicago, Ill.
 Prospectus Mfg. Co., Minneapolis, Minn.
 Specialty Mfg. Co., St. Paul, Minn.

SCRAPERS—ROOST AND FLOOR

Brower Mfg. Co., Quincy, Ill.
 Cyclone Mfg. Co., Urbana, Ind.
 Hudson Mfg. Co., H. D., Chicago, Ill.
 Union Fork & Hoe Co., Columbus, Ohio

SCREW HOOKS—(LAG THREAD)

American Florist Supply Co., Chicago, Ill.
 Bartlett Mfg. Co., Detroit, Mich.
 Leonard & Son, A. M., Piqua, Ohio

SEDGEPEAT

American Soil Sponge Selling Corp., New
 York, N. Y.

SEED AND BULB STIMULANT

American Chemical Paint Co., Ambler, Pa.
 Dickinson Co., The Albert, Chicago, Ill.
 Dow Chemical Co., Midland, Mich.
 Garden Products Co., St. Louis, Mo.
 McCullough Seed Co., The J. Chas., Cincin-
 nati, Ohio
 Merck & Co., Inc., Rahway, N. J.
 Rorer, Inc., William H., Philadelphia, Pa.
 Seaboard Seed Co., Philadelphia, Pa.
 Thompson Co., William T., Los Angeles,
 Calif.
 Vaughan's Seed Store, Chicago, Ill.

SEEDERS

Allen & Co., S. L., Philadelphia, Pa.
 American Agricultural Chem. Co., New
 York, N. Y.
 American Florist Supply Co., Chicago, Ill.
 Cyclone Seeder Co., Urbana, Ind.
 Germain Seed & Plant Co., Los Angeles,
 Calif.
 Hudson Mfg. Co., H. D., Chicago, Ill.
 Leonard & Son, A. M., Piqua, Ohio
 McCullough Seed Co., The J. Chas., Cincin-
 nati, Ohio

Masters Planter Co., Benton Harbor, Mich.
 Schell, Inc., Walter S., Harrisburg, Pa.
 Scarlett & Co., Wm. G., Baltimore, Md.
 Smith Agri. Chem. Co., Columbus, Ohio
 Swift & Co., Chicago, Ill.
 Tennessee Corp., New York, N. Y.
 Thompson & Sons, O. E., Ypsilanti, Mich.
 Vaughan's Seed Store, Chicago, Ill.
 Woodruff & Sons, Inc., F. H., Milford, Conn.

SEED STORAGE AND DISTRIBUTION

Banks, Inc., Wm. H., Chicago, Ill.
 Binyon-O'Keefe Fireproof Storage Co., Ft.
 Worth, Texas
 Bush Terminal Co., New York, N. Y.
 Crooks Terminal Warehouse, Chicago, Ill.
 Douglas-Guardian Warehouse Corp., Chi-
 cago, Ill.
 Edgerton, Leslie, Minneapolis, Minn.
 General Storage Co., Cleveland, Ohio
 Inland Warehousing Co., Chicago, Ill.
 Lilly Co., Chas. H., Seattle, Wash.
 Nolin, W. T., Hamburg, La.
 Purcell Seed Co., Evansville, Ind.
 Shuler & Smoak, Orangeburg, S. C.
 Shultz Seed Co., Olney, Ill.

SETTERS—PLANT

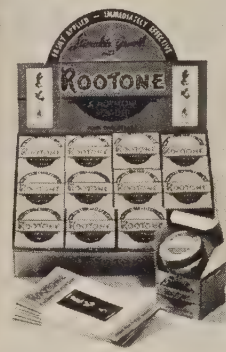
Acemline Mfg. Co., Traverse City, Mich.
 American Florist Supply Co., Chicago, Ill.
 Dobbins Mfg. Co., Elkhart, Ind.
 Hamilton Mfg. Co., Hamilton, Mich.
 Masters Planter Co., Benton Harbor, Mich.
 Nagley Transplanter Co., Memphis, N. Y.
 Oldmill Paper Products Corp., Long Island
 City, N. Y.
 S & H Set Onion Planter Co., Pleasant
 Valley, Iowa
 Vaughan's Seed Store, Chicago, Ill.

SHEARS—GRASS

Alliance Mfg. Co., Alliance, Ohio
 American Florist Supply Co., Chicago, Ill.
 Bartlett Mfg. Co., Detroit, Mich.
 Leonard & Son, A. M., Piqua, Ohio
 McCullough Seed Co., The J. Chas., Cincin-
 nati, Ohio
 North Wayne Tool Co., Oakland, Me.
 Peck, Stow & Wilcox Co., Southington,
 Conn.
 Smith & Son, Inc., Seymour, Oakville, Conn.
 Tiffany, Carroll R., Conklin, N. Y.
 Vaughan's Seed Store, Chicago, Ill.

SHOVELS

Baldwin-Wyoming Co., North Easton, Mass.



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 men, specialists, horticulturists,
 home gardeners, and home owners.
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 must have.

ROOTONE is now an accepted part
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 growers. It is a hormone powder
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 tens germination and tends to pro-
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 When cuttings are dipped in ROOT-
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 range of crops from the use of
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 plants after they have been trans-
 planted and, thus, reduces loss from
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Is the product that you have heard
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 holding fruit on the trees until it
 attains full size and color. Also,
 the solution sprayed on ornamental
 shrubs such as holly, snow-berry,
 etc., induces a heavier and showier
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 through national advertising.

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TRANSPLANTONE	3 oz. can	\$1.00
	1 lb. can	\$4.00
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	12 oz. can	\$5.00

Horticultural Div. Y-5

AMERICAN CHEMICAL PAINT COMPANY
 Ambler, Penna.

Hamlin Metal Products Co., Akron, Ohio.
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Union Fork & Hoe Co., The, Columbus, Ohio
Vaughan's Seed Store, Chicago, Ill.

SHREDDERS—SOIL

American Florist Supply Co., Chicago, Ill.
Kemp Mfg. Co. (Power), Erie, Pa.

SICKLES

American Florist Supply Co., Chicago, Ill.
Leonard & Son, A. M. (Sod), Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

North Wayne Tool Co., Oakland, Me.
Vaughan's Seed Store, Chicago, Ill.

SNAIL AND SLUG BAIT

Agricultural Laboratories, Inc., Columbus, Ohio

American Florist Supply Co., Chicago, Ill.
Boyle Co., The A. S., Jersey City, N. J.
California Spray Chemical Co., Elizabeth, N. J.

Goulard & Olena, Inc., New York, N. Y.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Vaughan's Seed Store, Chicago, Ill.

SODIUM FLUORIDE

Mallinckrodt Chemical Works, St. Louis, Mo.

Mechling Bros. Chemicals, Philadelphia, Pa.

Merck & Co., Inc., Rahway, N. J.
Nott Mfg. Co., New York, N. Y.

SOIL CONDITIONERS

American Soil Sponge Selling Corp., New York, N. Y.

Redwood Fibre Prod. Co., Santa Cruz, Calif.

SOIL INOCULANTS

Agricultural Laboratories, Inc., Columbus, Ohio

Craver-Dickinson Seed Co., Buffalo, N. Y.
Dickinson Co., The Albert, Chicago, Ill.
Earp-Thomas Lab. Inc., Bloomfield, N. J.
Kalo Inoculant Co., Quincy, Ill.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Nitratin Co., Inc., The, Milwaukee, Wis.
Urbana Laboratories, The, Urbana, Ill.
Vaughan's Seed Store, Chicago, Ill.

SOIL TESTING SOLUTIONS

American Florist Supply Co., Chicago, Ill.
Dickinson Co., The Albert, Chicago, Ill.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Soilicide Laboratories, Montclair, N. J.
Sudbury Soil Testing Labs., South Sudbury, Mass.

Urbana Laboratories, The, Urbana, Ill.
Vaughan's Seed Store, Chicago, Ill.

SPADES

American Florist Supply Co., Chicago, Ill.
Bartlett Mfg. Co., Detroit, Mich.
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Union Fork & Hoe Co., The, Columbus, Ohio
Vaughan's Seed Store, Chicago, Ill.

SPIKER AND TAMPER

Bartlett Mfg. Co., Detroit, Mich.
Leonard & Son, A. M. (Sod), Piqua, Ohio
Stoner-Maurer Co., Monroe, Mich.

SPRAYER NOZZLES

American Florist Supply Co., Chicago, Ill.
American Specialty Co., The, Amherst, Ohio
Dobbins Mfg. Co., Elkhart, Ind.
Hudson Mfg. Co., H. D., Chicago, Ill.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Myers & Bro. Co., The F. E., Ashland, Ohio
Vaughan's Seed Store, Chicago, Ill.

SPRAYERS

Acmeline Mfg. Co., Traverse City, Mich.
Aeroil Burner Co., West New York, N. J.
American Florist Supply Co., Chicago, Ill.
American Specialty Co., The, Amherst, Ohio
Bartlett Mfg. Co., Detroit, Mich.

Bean Mfg. Co., John, Lansing, Mich.
Boyle Co., The A. S., Jersey City, N. J.
Brown Co., E. C., Rochester, N. Y.
Budwig Mfg. Co., Burbank, Calif.
Campbell-Hausfeld Co., The, Harrison, Ohio
Champion Sprayer Co., Detroit, Mich.
Cyclone Mfg. Co., Urbana, Ind.
Dobbins Mfg. Co., Elkhart, Ind.
Feeny Mfg. Co., Muncie, Ind.
"Friend" Mfg. Co., Gasport, N. Y.
Germain Seed & Plant Co., Los Angeles, Calif.

Goulard & Olena, Inc., New York, N. Y.
Hudson Mfg. Co., H. D., Chicago, Ill.
Leonard & Son, A. M., Piqua, Ohio
Lowell Sprayer Co., Lowell, Mich.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Myers & Bro. Co., The F. E., Ashland, Ohio
Parco Products Co., Allentown, Pa.
Protex Industries, Inc., New York, N. Y.
Smith & Co., Inc., D. B., Utica, N. Y.
Thompson Co., William T., Los Angeles, Calif.

Universal Metal Products Co., Saranac, Mich.

U. S. Seed Co., St. Louis, Mo.
Vaughan's Seed Store, Chicago, Ill.

SPREADERS—FERTILIZER

Allen & Co., Inc., S. L., Philadelphia, Pa.
American Agricultural Chemical Co., The, New York, N. Y.

American Florist Supply Co., Chicago, Ill.

Case Co., J. I., Racine, Wis.
Cyclone Seeder Co., The, Urbana, Ind.
Germain Seed & Plant Co., Los Angeles, Calif.

Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Masters Planter Co., Benton Harbor, Mich.
Pioneer Thresher Co., Shortsville, N. Y.
Plantabbs Corp., Baltimore, Md.

Scarlett & Co., William G., Baltimore, Md.
Schell, Inc., Walter S., Harrisburg, Pa.
Smith Agri. Chem. Co., The, Columbus, Ohio

Swift & Co., Chicago, Ill.
Tennessee Corp., New York, N. Y.
Thompson & Sons, O. E., Ypsilanti, Mich.
Vaughan's Seed Store, Chicago, Ill.

SPRINKLERS—LAWN

American Florist Supply Co., Chicago, Ill.
Armstrong Electric Products Corp., Huntington, W. Va.

Campbell Irrigation Co., Woodbury, N. J.
Carter Products Co., Cleveland, Ohio
Coldwell Lawn Mower Co., Newburgh, N. Y.

Dayton Irrigation Co., Dayton, Ohio
Hozon Co., Warrensville, Ohio
Imperial Bit & Snap Co., Racine, Wis.
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

March Automatic Irrigation Co., Muskegon, Mich.

National Mfg. Co., Lincoln, Nebr.
Perfection Sprinkler Co., Plymouth, Mich.
Schell, Inc., Walter S., Harrisburg, Pa.
Turner Brass Works, Sycamore, Ill.
Vaughan's Seed Store, Chicago, Ill.
White Showers, Inc., Detroit, Mich.

STAKES—PLANT

American Florist Supply Co., Chicago, Ill.
American Reedcraft Corp. (Bamboo), New York, N. Y.

Growers Lumber Co., Tullytown, Pa.
Handle & Excelsior Co., Picture Rocks, Pa.
Lansing Specialties Mfg. Co., Lansing, Mich.

Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

McHutchison & Co., New York, N. Y.
Michigan Wire Goods Co., Niles, Mich.
Perma Tag Co., Grand Rapids, Mich.

Root Co., The A. I., Medina, Ohio
Schell, Inc., Walter S., Harrisburg, Pa.
Universal Wire & Iron Co., Inc., Milwaukee, Wis.

Vaughan's Seed Store, Chicago, Ill.

STERILIZERS—SOIL

Aeroil Burner Co., Inc., West New York, N. J.

American Florist Supply Co., Chicago, Ill.
Carus Chemical Co., La Salle, Ill.

Dow Chemical Co., Midland, Mich.
Du Pont de Nemours & Co., Inc., E. I., Wilmington, Del.

Du Pont Semesan Co., Inc., Wilmington, Del.

General Chemical Co., New York, N. Y.
Hammond Paint & Chem. Co., Beacon, N. Y.
Innis, Speiden & Co., New York, N. Y.

McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Wood Ridge Mfg. Co., Wood Ridge, N. J.
Vaughan's Seed Store, Chicago, Ill.

STRAW MATS

Loewith, Inc., Julius, New York, N. Y.

SULPHUR

Dow Chemical Co., Midland, Mich.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio

Protex Industries, Inc., New York, N. Y.
Schell, Inc., Walter S., Harrisburg, Pa.
Stauffer Fertilizer Co., New York, N. Y.
Summers Fertilizer Co., The, Baltimore, Md.
Vaughan's Seed Store, Chicago, Ill.

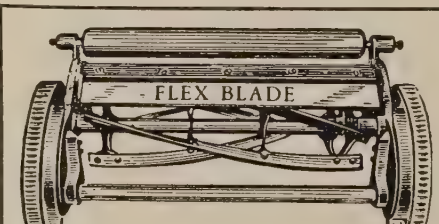
SULPHUR DUST

American Florist Supply Co., Chicago, Ill.
Goulard & Olena, Inc., New York, N. Y.
Hammond Paint & Chem. Co., Beacon, N. Y.
Mechling Bros. Chemicals, Philadelphia, Pa.

Merck & Co., Inc., Rahway, N. J.
Stauffer Chemical Co., New York, N. Y.

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- Unbreakable
- Insures Uniform Shear
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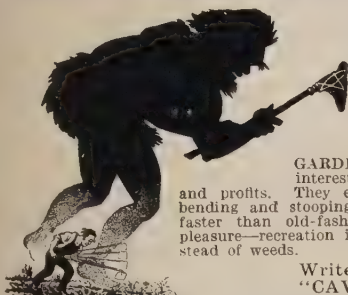
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Testrite Instrument Co., New York, N. Y.
Unadilla Silo Co., Unadilla, N. Y.
Woodworking Specialty Co., Crystal Lake, Ill.

SUPPLIES—HOT BED

American Bulb Co., Chicago, Ill.
American Florist Supply Co., Chicago, Ill.
Arvey Corp., Chicago, Ill.
Keene Mfg. Co. (Electric), Racine, Wis.
Leonard & Son, A. M., Piqua, Ohio
Metropolitan Greenhouse Mfg. Corp., Brooklyn, N. Y.
Vaughan's Seed Store, Chicago, Ill.

SUPPORTS—PLANT

American Florist Supply Co., Chicago, Ill.
American Reedcraft Corp., New York, N. Y.
Ball-Biddle Co., Riverton, N. J.
Field & Co., Alfred (Vine), New York, N. Y.
Germain Seed & Plant Co., Los Angeles, Calif.
Goulard & Olena, Inc., New York, N. Y.
Harris Mfg. Co., A. W., Sleepy Eye, Minn.
Lansing Specialties Mfg. Co., Lansing, Mich.

Leonard & Son, A. M., Piqua, Ohio
Loewith, Inc., Julius, New York, N. Y.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
McHutchison & Co., New York, N. Y.
Mauger, Louis S., Blackwood, N. J.
Michigan Wire Goods Co., Niles, Mich.
Star Expansion Bolt Co., New York, N. Y.
Unadilla Silo Co., Inc., Unadilla, N. Y.
Vaughan's Seed Store, Chicago, Ill.

TAGS—PLANT AND TREE

American Florist Supply Co., Chicago, Ill.
Chicago Car Seal Co., Chicago, Ill.
Leonard & Son, A. M., Piqua, Ohio
Goulard & Olena, Inc., New York, N. Y.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
McFarland Organizations, Harrisburg, Pa.
Midwest Metal Specialties Co., Aurora, Ill.
Morse Co., A. B., St. Joseph, Mich.
Vaughan's Seed Store, Chicago, Ill.

TAPE—NURSERY

Bartlett Mfg. Co., Detroit, Mich.
Leonard & Son, A. M., Piqua, Ohio

TAPES—TYING

Fricke Co., J. E., Philadelphia, Pa.
Germain's Hotkaps Mfg. Div., Los Angeles, Cal.
Leonard & Son, A. M., Piqua, Ohio
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Vaughan's Seed Store, Chicago, Ill.

TERMITE CHEMICALS

Arrow Products Co., Carlstadt, N. J.
C-A Wood Preserver Co., St. Louis, Mo.
Dow Chemical Co., Midland, Mich.
Goulard & Olena, Inc., New York, N. Y.
Mechling Bros. Chemicals, Philadelphia, Pa.
Nott Mfg. Co., New York, N. Y.
Protex Industries, Inc., New York, N. Y.

TESTERS—SOIL

American Florist Supply Co., Chicago, Ill.
Dickinson Co., The Albert, Chicago, Ill.
Edwards Laboratory, Lansing, Mich.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
Sudbury Soil Testing Laboratory, South Sudbury, Mass.
Urbana Laboratories, The, Urbana, Ill.
Vaughan's Seed Store, Chicago, Ill.

THERMOMETERS

American Florist Supply Co., Chicago, Ill.
Brower Mfg. Co., Quincy, Ill.
Cyclone Mfg. Co., Urbana, Ind.
Hudson Mfg. Co., H. D., Chicago, Ill.
Lyon Electric Co., San Diego, Calif.

TIES—PLANT

American Florist Supply Co., Chicago, Ill.
Germain's Hotkap Mfg. Div., Los Angeles, Calif.
Goulard & Olena, Inc., New York, N. Y.
McCullough Seed Co., The J. Chas., Cincinnati, Ohio
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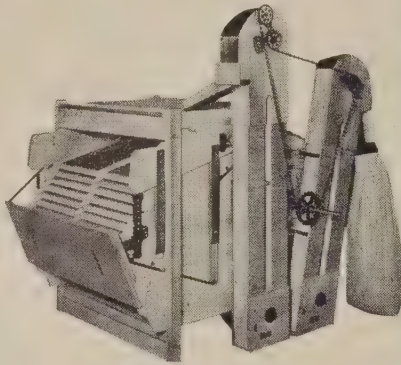
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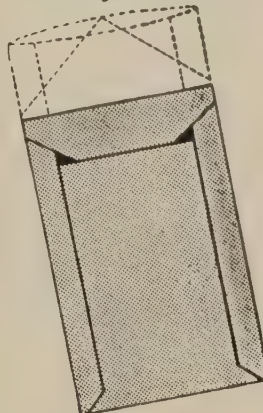
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Cleland Mfg. Co., Minneapolis, Minn.
 Ferrell & Co., A. T., Saginaw, Mich.
 Forsberg & Sons, Fred, Thief River Falls, Minn.
 Hance Mfg. Co., J. W., Westerville, Ohio
 Howes Co., Inc., S., Silver Creek, N. Y.
 Majestic Huller & Mfg. Co., Minneapolis, Minn.
Oliver Mfg. Co., St. Louis, Mo.
 Sidney Grain Machinery Co., Sidney, Ohio
 Steele, Walter N., San Francisco, Calif.
Superior Separator Co., Minneapolis, Minn.
 Du Bois Press, The, Rochester, N. Y.
 Genesee Valley Litho. Co., Rochester, N. Y.
 McFarland Co., J. Horace, Harrisburg, Pa.
 Morse Co., A. B., St. Joseph, Mich.
 Schmidt Litho. Co., San Francisco, Calif.
 Stecher-Traung Litho. Corp., Rochester, N. Y.

Sweeney, Straub & Dimm, Portland, Ore.

COMPOST MAKERS

American Florists Supply Co., Chicago, Ill.
 W-W Grinder Corp., Wichita, Kans.

CORN CRACKERS

Howes Co., Inc., S., Silver Creek, N. Y.
 Sedberry, Inc., J. B., Franklin, Tenn.

COUNTERS—STORE

Heller & Co., Montpelier, Ohio

CRUSHERS

Sedberry, Inc., J. B. (Oat), Franklin, Tenn.
 Straub Co., Philadelphia, Tenn.

DISPLAY RACKS—SEED PACKET

Easyfold Manufacturer, Faribault, Minn.
 Davis Metal Fixture Co., Lansing, Mich.
 Hamilton Mfg. Co., Two Rivers, Wis.
Heller & Co., Montpelier, Ohio
 Narragansett Machine Co., Pawtucket, R. I.

Union Steel Products Co., Albion, Mich.
 Walkerbilt, Penn Yan, N. Y.
 Worcester Wire Novelty Co., Inc., Baltimore, Md.

DISPLAYS—ILLUMINATED

Bodger Seeds, Ltd., El Monte, Calif.
 Rochester Horticultural Studios, Rochester, N. Y.

DOCKAGE TESTERS

Hart-Carter Co., Minneapolis, Minn.
 Seedburo Equipment Co., Chicago, Ill.

DRIERS—SEED

Howes Co., Inc., S., Silver Creek, N. Y.
 Randolph Co., O. W., Toledo, Ohio

DUST COLLECTORS

Howes Co., Inc., S., Silver Creek, N. Y.
 Huntley Mfg. Co., Brocton, N. Y.
 Ideal Commutator Dresser Co, Sycamore, Ill.

DUST PROTECTORS

Garnett, Herbert (Respirators), Maumee, Ohio

Seedburo Equipment Co., Chicago, Ill.

ELECTROTYPES OF FLOWERS

Bodger Seeds, Ltd., El Monte, Calif.
 Morse Co., A. B., St. Joseph, Mich.

ELEVATORS—AIR-LIFT

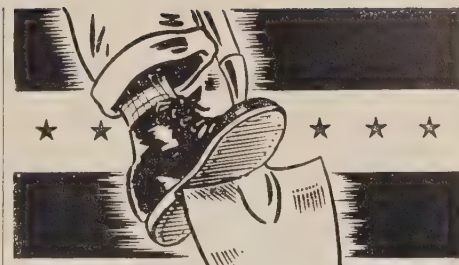
Oliver Mfg. Co., St. Louis, Mo.

ELEVATOR—ELECTRIC

Davis & Newcomer Electric Elev. Co., Fostoria, Ohio
 Farquhar Co., A. B., Troy, Pa.

ENVELOPES

American Paper Goods Co., Chicago, Ill.
 Berkowitz Envelope Co., Kansas City, Mo.
 Brown Bag Filling Machine Co., The, Fitchburg, Mass.



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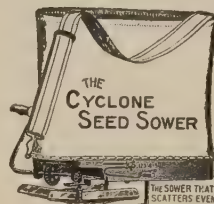
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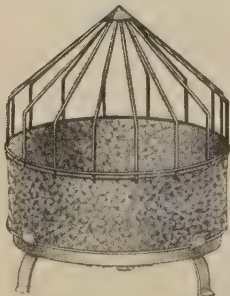
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Heinrich Envelope Co., Minneapolis, Minn.
Miller, Tompkins & Co., East Rutherford, N. J.
Outlook Envelope Co., Chicago, Ill.
Tension Envelope Co., Brooklyn, N. Y.
Weaver Mailing Envelope & Box Co., Philadelphia, Pa.
Wolf Brothers, Philadelphia, Pa.

ENVELOPE SEALERS

Arnold, Schuyler, Coldwater, N. Y.
Brown Bag Filling Machine Co., Fitchburg, Mass.
Ferguson Co., J. L. (Carton), Joliet, Ill.
Stokes & Smith Co., The, Philadelphia, Pa.
Wright-Dalton Machine Co., Durham, N. C.

FANNING MILLS

American Grain Separator Co., Minneapolis, Minn.
Cleland Mfg. Co., Minneapolis, Minn.
Ferrell & Co., A. T., Saginaw, Mich.
Forsberg & Sons, Fred, Thief River Falls, Minn.

Hance Mfg. Co., J. W., Westerville, Ohio
Howes Co., Inc., S., Silver Creek, N. Y.
Lewis Seed Co., Louisville, Ky.
Rice Seed Co., W. A., Jerseyville, Ill.
Sidney Grain Machinery Co., Sidney, Ohio

FARM IMPLEMENTS

Allen & Co., Inc., S. L., Philadelphia, Pa.
American Grain Separator Co., Minneapolis, Minn.
Ariens Co., Brillion, Wis.
Case Co., J. I., Racine, Wis.
Hance Mfg. Co., J. W., Westerville, Ohio

FIELD WAREHOUSING

Banks Warehouses (Inc.), Wm. H., Chicago, Ill.
Douglas-Guardian Warehouse Corp., Chicago, Ill.
St. Paul Terminal Warehouse Co., St. Paul, Minn.

FINANCING

Banks Warehouses (Inc.), Wm. H., Chicago, Ill.
Douglas-Guardian Warehouse Corp., Chicago, Ill.
St. Paul Terminal Warehouse Co., St. Paul, Minn.

FUMIGATION

(See Fumigants Under Resale Merchandise)

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Bridges Mfg. Co., Bedford, Iowa
Herbst Bros., New York, N. Y.
Seedburo Equipment Co., Chicago, Ill.
Specialty Mfg. Co., St. Paul, Minn.
Standard Scientific Supply Corp., New York, N. Y.

GRADERS—BEAN

Ferrell & Co., A. T., Saginaw, W. S., Mich.
Forsberg & Sons, Fred, Thief River Falls, Minn.

Hance Mfg. Co., J. W., Westerville, Ohio
Hart-Carter Co., Minneapolis, Minn.
Howes Co., Inc., S., Silver Creek, N. Y.
Oliver Mfg. Co., St. Louis, Mo.
Sutton Steele & Steele, Inc., Dallas, Texas

GRADERS—CORN

Auto Compressor Co., Wilmington, Ohio
Cleland Mfg. Co., Minneapolis, Minn.
Ferrell & Co., A. T., Saginaw, W. S., Mich.
Forsberg & Sons, Fred, Thief River Falls, Minn.
Hamilton Seed & Coal Co., Cedar Rapids, Iowa

Hance Mfg. Co., J. W., Westerville, Ohio
Hart-Carter Co., Minneapolis, Minn.
Hogmoe Mfg. Co., Minneapolis, Minn.
Howes Co., Inc., S., Silver Creek, N. Y.
Majestic Huller & Mfg. Co., Minneapolis, Minn.

Oliver Mfg. Co., St. Louis, Mo.
Superior Separator Co., Minneapolis, Minn.
Sutton Steele & Steele, Inc., Dallas, Texas

GRAIN MILLS

Ferrell & Co., A. T., Saginaw, Mich.
Forsberg & Sons, Fred, Thief River Falls, Minn.

Hart-Carter Co., Minneapolis, Minn.
Howes Co., Inc., S., Silver Creek, N. Y.
Oliver Mfg. Co., St. Louis, Mo.
Steele, Walter N., San Francisco, Calif.

GRAIN AND SEED TREATING EQUIPMENT

Du Pont Semesan Co., Inc., Wilmington, Del.

Hance Mfg. Co., J. W., Westerville, Ohio
Howes Co., Inc., S., Silver Creek, N. Y.
Oliver Mfg. Co., St. Louis, Mo.
Seedburo Equipment Co., Chicago, Ill.

GREENHOUSES

American-Moninger Greenhouse Mfg. Co., Brooklyn, N. Y.
Lord & Burnham Co., Irvington, N. Y.
Yoho & Hooker, Youngstown, Ohio

GRINDERS—FEED

Anglo-American Mill Co., Owensboro, Ky.
Case Co., J. I., Racine, Wis.
Fairbanks, Morse & Co., Chicago, Ill.
Hogmoe Mfg. Co., Minneapolis, Minn.
Patch, Inc., A. H., Clarksville, Tenn.
Sedberry, Inc., J. B., Franklin, Tenn.
Steele, Walter N., San Francisco, Calif.
Straub Co., Philadelphia, Pa.
W-W Grinder Corp., Wichita, Kans.

HAMMER MILLS

Case Co., J. I., Racine, Wis.
Sedberry, Inc., J. B., Franklin, Tenn.

HORTICULTURAL ADVERTISING

Hall Printing Co., W. F., Chicago, Ill.
McFarland Publicity Service, Harrisburg, Pa.

HORTICULTURAL COLOR CHART

Bodger Seeds, Ltd., El Monte, Calif.

HORTICULTURAL PRINTING

Du Bois Press, The, Rochester, N. Y.
Hall Printing Co., W. F., Chicago, Ill.
Hart Publications, Inc., Minneapolis, Minn.
McFarland Organizations, Harrisburg, Pa.
Morse Co., A. B., St. Joseph, Mich.
Schmidt Lithograph Co., San Francisco, Calif.

Sweeney, Straub & Dimm, Portland, Ore.

HULLERS

American Grain Separator Co., Minneapolis, Minn.
Cleland Mfg. Co., Minneapolis, Minn.
Ferrell & Co., A. T., Saginaw, Mich.
Hart-Carter Company, Minneapolis, Minn.
Howes Co., Inc., S., Silver Creek, N. Y.
Majestic Huller & Mfg. Co., Minneapolis, Minn.

Superior Separator Co., Minneapolis, Minn.

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Banks, Warehouses, Inc., Wm. H., Chicago, Ill.
Douglas-Guardian Warehouse Corp., Chicago, Ill.
St. Paul Terminal Warehouse Co., St. Paul, Minn.

KODACHROMES

Bodger Seeds, Ltd., El Monte, Calif.

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Du Bois Press, The, Rochester, N. Y.
Morse Co., A. B., St. Joseph, Mich.
Schmidt Lithograph Co., San Francisco, Calif.
Stecher-Traung Litho. Corp., Rochester, N. Y.

LABELS—CAN

Morse Co., A. B., St. Joseph, Mich.
Schmidt Lithograph Co., San Francisco, Calif.
Stecher-Traung Litho. Corp., Rochester, N. Y.

LABELS AND HANGERS—BOX

Genesee Valley Lithograph Co., Rochester, N. Y.
Morse Co., A. B., St. Joseph, Mich.
Schmidt Litho. Co., San Francisco, Calif.
Stecher-Traung Litho. Corp., Rochester, N. Y.

LABORATORY EQUIPMENT

Heller & Co., Montpelier, Ohio
 Howes Co., Inc., S., Silver Creek, N. Y.
 Seedburo Equipment Co., Chicago, Ill.
 Specialty Mfg. Co., St. Paul, Minn.
 Standard Scientific Supply Co., New York, N. Y.

Straub Co., Philadelphia, Pa.
 Torsion Balance Co., New York, N. Y.
 Troemner, Henry, Philadelphia, Pa.

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Chicago Car Seal Co., Chicago, Ill.

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 Miller Tompkins & Co., East Rutherford, N. J.

Outlook Envelope Co., Chicago, Ill.

MICE—PROOF SEED CASES

Heller & Co., Montpelier, Ohio

MIXERS—MOLASSES

Sedberry, Inc., J. B., Franklin, Tenn.

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Seedburo Equipment Co., Chicago, Ill.

NICKELTYPES

Bodger Seeds, Ltd., El Monte, Calif.
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American Paper Goods Co., Chicago, Ill.
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 Howes Co., Inc., S., Silver Creek, N. Y.
 Huntley Mfg. Co., Brocton, N. Y.
 Richardson Scale Co., Clifton, N. J.

PACKAGING SCALES

Detecto Scales, Inc., Brooklyn, N. J.
 Seedburo Equipment Co., Chicago, Ill.
 Troemner, Henry, Philadelphia, Pa.

PACKET FILLING

Brown Bag Filling Machine Co., The, Fitchburg, Mass.

Ferguson Co., J. L., Joliet, Ill.
 Frazier & Son, Belleville, N. J.
 Wright-Dalton Machine Co., Durham, N. C.

SAMPLE BAGS

Bemis Bro. Bag Co., St. Louis, Mo.
 Disbrow Mfg. Co., Newark, N. J.
 Miller, Tompkins & Co., East Rutherford, N. J.

Fulton Bag & Cotton Mills, Atlanta, Ga.

SAMPLE CASES

Hamilton Mfg. Co., Two Rivers, Wis.
 Heller & Co., Montpelier, Ohio
 Knickerbocker Case Co., Chicago, Ill.
 Seedburo Equipment Co., Chicago, Ill.

SAMPLE ENVELOPES—SEED

American Paper Goods Co., Chicago, Ill.
 Bemis Bro. Bag Co., St. Louis, Mo.
 Berkowitz Envelope Co., Kansas City, Mo.
 Brown Bag Filling Machine Co., Fitchburg, Mass.

Cupples-Hesse Corp., St. Louis, Mo.
 Disbrow Mfg. Co., Inc., Newark, N. J.
 Heco Envelope Co., Chicago, Ill.
 Heinrich Envelope Co., Minneapolis, Minn.
 Miller, Tompkins & Co., East Rutherford, N. J.

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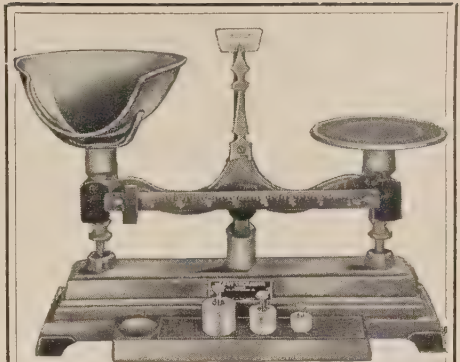
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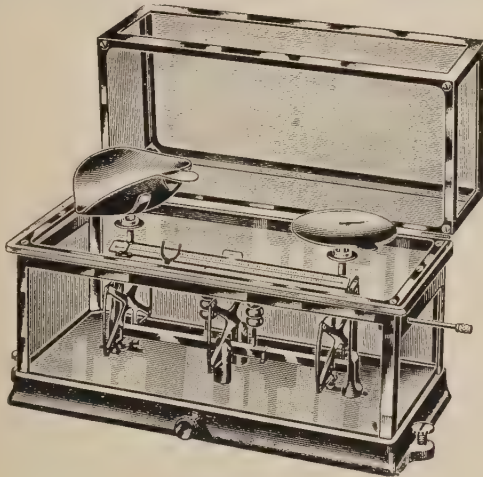
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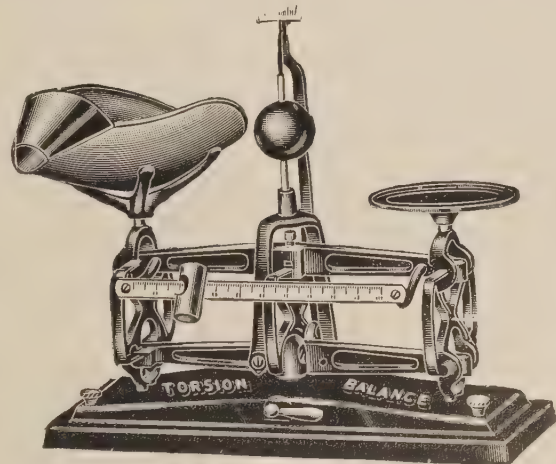
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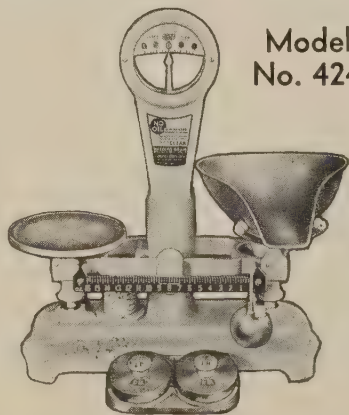
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Torsion Balance Co., New York, N. Y.
Troemner, Henry, Philadelphia, Pa.

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Exact Weight Scale Co., The, Columbus,
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Howes Co., Inc., S., Silver Creek, N. Y.
Ralston Scale Co., Columbus, Ohio
Seedburo Equipment Co., Chicago, Ill.
Toledo Scale Co., Toledo, Ohio
Torsion Balance Co., New York, N. Y.
Triner Sales Co., Chicago, Ill.
Troemner, Henry, Philadelphia, Pa.

SCALES—LABORATORY
Detecto Scales, Inc., Brooklyn, N. Y.
Exact Weight Scale Co., The, Columbus,
Ohio

Seedburo Equipment Co., Chicago, Ill.
Standard Scientific Supply Corp., New
York, N. Y.
Torsion Balance Co., New York, N. Y.
Troemner, Henry, Philadelphia, Pa.

SCARIFIERS
Allis-Chalmers Mfg. Co., Milwaukee, Wis.
American Grain Separator Co., Minneapo-
lis, Minn.

Cleland Mfg. Co., Minneapolis, Minn.
Ferrell & Co., A. T., Saginaw, Mich.
Howes Co., Inc., S., Silver Creek, N. Y.
Majestic Huller & Mfg. Co., Minneapolis,
Minn.
Savage Co., W. J., Knoxville, Tenn.
Steele, Walter N., San Francisco, Calif.
Superior Separator Co., Minneapolis, Minn.

SCOOPS
Detecto Scales, Inc., Brooklyn, N. Y.
Michigan Wire Goods Co. (Wire) (Potato,
Corn, Apple), Niles, Mich.

Seedburo Equipment Co., Chicago, Ill.
Troemner, Henry, Philadelphia, Pa.
Union Fork & Hoe Co., The, Columbus,
Ohio

SCREENS
Cleland Mfg. Co., Minneapolis, Minn.
Ferrell & Co., A. T., Saginaw, Mich.
Hance Mfg. Co., J. W., Westerville, Ohio
Howes Co., Inc., S., Silver Creek, N. Y.
Huntley Mfg. Co., Brocton, N. Y.
Oliver Mfg. Co. (Anti-Gravity), St. Louis,
Mo.

Seedburo Equipment Co., Chicago, Ill.
Sutton, Steele & Steele, Inc., Dallas, Texas

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American Casting & Mfg. Corp., Brooklyn,
N. Y.
Bates Valve Bag Corp. (Wire Tie), New
York, N. Y.

Brooks Co., E. J., Newark, N. J.
Chicago Car Seal Co., Chicago, Ill.
Porter Safety Seal Co., Chicago, Ill.
Protecto-Seal Co., Orchard Park, N. Y.
Stoffel Seals Co., Chicago, Ill.

SEED BINS
Heller & Co., Montpelier, Ohio

SEED CASES
Davis Metal Fixture Co., Lansing, Mich.
Heller & Co., Montpelier, Ohio

SEED CORN GRADERS
Hance Mfg. Co., J. W., Westerville, Ohio
Superior Separator Co., Minneapolis, Minn.

SEED EXTRACTORS—SPIRAL
Cleland Mfg. Co., Minneapolis, Minn.
Hance Mfg. Co., J. W., Westerville, Ohio
Howes Co., Inc., S., Silver Creek, N. Y.

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Seedburo Equipment Co., Chicago, Ill.

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American Paper Goods Co., The, Chi-
cago, Ill.
Brown Bag Filling Machine Co., The,
Fitchburg, Mass.
Cupples-Hesse Corp., St. Louis, Mo.
Disbrow Mfg. Co., Newark, N. J.

Miller, Tompkins & Co., East Rutherford,
N. J.

SEED SEPARATORS
Ferrell & Co., A. T., Saginaw, Mich.
Forsberg & Sons, Fred, Thief River Falls,
Minn.

Hance Mfg. Co., J. W., Westerville, Ohio
Hart-Carter Co., Minneapolis, Minn.
Howes Co., Inc., S., Silver Creek, N. Y.
Oliver Mfg. Co., St. Louis, Mo.
Rice Seed Co., W. A., Jerseyville, Ill.
Sidney Grain & Machinery Co., Sidney,
Ohio

Steele, Walter N., San Francisco, Calif.
Superior Separator Co., Minneapolis, Minn.
Sutton, Steele & Steele, Inc., Dallas, Texas

SEED SIEVES
Ferrell & Co., A. T., Saginaw, Mich.
Hance Mfg. Co., J. W., Westerville, Ohio
Howes Co., Inc., S., Silver Creek, N. J.
Seedburo Equipment Co., Chicago, Ill.

SEED TESTING—COMMERCIAL
Berkeley Seed Testing Service, Berkeley,
Calif.

Commercial Seed Laboratory, Washington,
D. C., and Toledo, Ohio
International Seed, Inc., New York, N. Y.
Standard Reference Laboratory, Ames,
Iowa

Montgomery Seed Laboratory, Montgom-
ery, Ala.
National Seed Laboratory, Toledo, Ohio
Ransom Seed Laboratory, Los Angeles,
Calif.

SEED TESTING EQUIPMENT
Hance Mfg. Co., J. W., Westerville, Ohio
Howes Co., Inc., S., Silver Creek, N. Y.
Seedburo Equipment Co., Chicago, Ill.

SEED TREATER
American Grain Separator Co., Minneapo-
lis, Minn.

Ben Gustafson Seed Grain Machinery Co.,
Fargo, N. Dak.
Hance Mfg. Co., J. W., Westerville, Ohio
Oliver Mfg. Co., St. Louis, Mo.
Seedburo Equipment Co., Chicago, Ill.

SEED TREATING EQUIPMENT
Du Pont Semesan Co., Inc., Wilmington,
Dela.

Hance Mfg. Co., J. W., Westerville, Ohio
Oliver Mfg. Co., St. Louis, Mo.
Seedburo Equipment Co., Chicago, Ill.

SEED TRIERS
Seedburo Equipment Co., Chicago, Ill.

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Forsberg & Sons, Fred, Thief River Falls,
Minn.

Oliver Mfg. Co., St. Louis, Mo.
Sutton, Steele & Steele, Inc., Dallas, Texas

SEWING MACHINES—BAG
Union Special Machine Co., Chicago, Ill.

SHAKING SHOES
Oliver Mfg. Co., St. Louis, Mo.

SHEETING AND BURLAP FOR SHADE
Bemis Bro. Bag Co., St. Louis, Mo.
Fulton Bag & Cotton Mills, Atlanta, Ga.

SHELLERS—CORN
Hamilton Seed & Coal Co., Cedar Rapids,
Iowa
Hart-Carter Co., Minneapolis, Minn.
Howes Co., Inc., S., Silver Creek, N. Y.
Messinger Mfg. Co., Tatamy, Pa.

SIEVE DRIVES
Howes Co., Inc., S., Silver Creek, N. Y.

SORTERS—BET SEED
Ferrell & Co., A. T., Saginaw, Mich.

SORTERS—CORN
Howes Co., Inc., S., Silver Creek, N. Y.
Universal Hoist & Mfg. Co., Cedar Falls,
Iowa

STORE FIXTURES
Davis Metal Fixtures Co., Lansing, Mich.
Heller & Co., Montpelier, Ohio
Narragansett Machine Co., Pawtucket,
R. I.
National Cash Register Co., Dayton, Ohio
Stackbin Corp., Providence, R. I.
Walkerbilt, Penn Yan, N. Y.

TABLES—BEAN HAND PICKING

Crippen Mfg. Co., Alma, Mich.
 Ferrell & Co., A. T. (Hand and Power),
 Saginaw, Mich.

TAGS—SHIPPING

American Florists Supply Co., Chicago, Ill.
 Benton Review Shop, Fowler, Ind.
 Campbell Box & Tag Co., South Bend, Ind.
 Central Tag Co., Chicago, Ill.
 Chicago Car Seal Co. (Plant and Tree),
 Chicago, Ill.

Cupples-Hesse Corp., St. Louis, Mo.
 Dennison Mfg. Co., Framingham, Mass.
 Disbrow Mfg. Co., Newark, N. J.
 Wm. D. Flemming, Minneapolis, Minn.
 Morse Co., A. B., St. Joseph, Mich.
 Perma Tag Co., Grand Rapids, Mich.

TARPAULINS

Bemis Bro. Bag Co., St. Louis, Mo.
 Fulton Bag & Cotton Mills, Atlanta, Ga.

TESTERS—SEED CORN

Howes Co., Inc., S., Silver Creek, N. Y.
 Seedburo Equipment Co., Chicago, Ill.
 Specialty Mfg. Co., St. Paul, Minn.

THERMOSTATS AND WAFERS

Brower Mfg. Co., Quincy, Ill.
 Cyclone Mfg. Co., Urbana, Ind.
 Hudson Mfg. Co., H. D., Chicago, Ill.
 Lyon Electric Co., San Diego, Calif.
 National Ideal Co., Toledo, Ohio

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Allis-Chalmers Mfg. Co., Milwaukee, Wis.
 American Grain Separator Co., Minneapolis,
 Minn.
 Caledonia Bean Harvester Works, Cale-
 donia, N. Y.
 Case Co., J. I., Racine, Wis.
 Howes Co., Inc., S., Silver Creek, N. Y.
 International Harvester Co., Chicago, Ill.
 Messinger Mfg. Co., Tatamy, Pa.
 Koger Pea & Bean Thresher Co., Morris-
 town, Tenn.
 Pioneer Thresher Co., Shortsville, N. Y.

TILLERS

Ariens Co., Brillion, Wis.

TRIERS—BAG OR CAR

Seedburo Equipment Co., Chicago, Ill.

TRUCKS—WAREHOUSE

Acro Tool & Die Works, Chicago, Ill.
 American Florists Supply Co., Chicago, Ill.
 Fairbanks Company, New York, N. Y.
 Nutting Truck Co., Faribault, Minn.
 Revolver Co., North Bergen, N. J.
 Seedburo Equipment Co., Chicago, Ill.
 Steubing Truck Co., Cincinnati, Ohio
 Thomas Truck & Caster Co., Keokuk, Iowa

TWINE—BAG CLOSING

American Florist Supply Co., Chicago, Ill.
 Bemis Bro. Bag Co., St. Louis, Mo.
 Fulton Bag & Cotton Mills, Atlanta, Ga.
 McCullough Seed Co., The J. Chas., Cin-
 cinnati, Ohio

Royal River Mills, Baltimore, Md.

TWINE—BINDER & WRAPPING

American Florist Supply Co., Chicago, Ill.
 Fricke Co., J. E., Philadelphia, Pa.
 Fulton Bag & Cotton Mills, Atlanta, Ga.
 International Harvester Co., Chicago, Ill.
 McCullough Seed Co., The J. Chas., Cin-
 cinnati, Ohio

TYING MACHINES

Bunn Co., B. H. (Package Tying Machines),
 Chicago, Ill.
 Felins Tying Machine Co., Milwaukee,
 Wis.

Tie Company, The, Unadilla, N. Y.

WAREHOUSING—FIELD..

Banks Warehouses (Inc.), Wm. H., Chi-
 cago, Ill.
 Douglas-Guardian Warehouse Corp., Chi-
 cago, Ill.
 St. Paul Terminal Warehouse Co., St. Paul,
 Minn.

WEEVIL KILLER

Agricultural Laboratories, Inc., Columbus,
 Ohio

American Cyanamid & Chemical Corp.,
 New York, N. Y.

Calif. Spray Chem. Corp., Elizabeth, N. J.
 Douglas Chemical & Supply Co., Kansas
 City, Mo.

Innis, Speiden & Co., New York, N. Y.
 Seedburo Equipment Co., Chicago, Ill.

WEIGHTS—TEST

Exact Weight Scale Co., The, Columbus,
 Ohio

Torsion Balance Co., The, New York, N. Y.
 Seedburo Equipment Co., Chicago, Ill.

Troemner, Henry, Philadelphia, Pa.

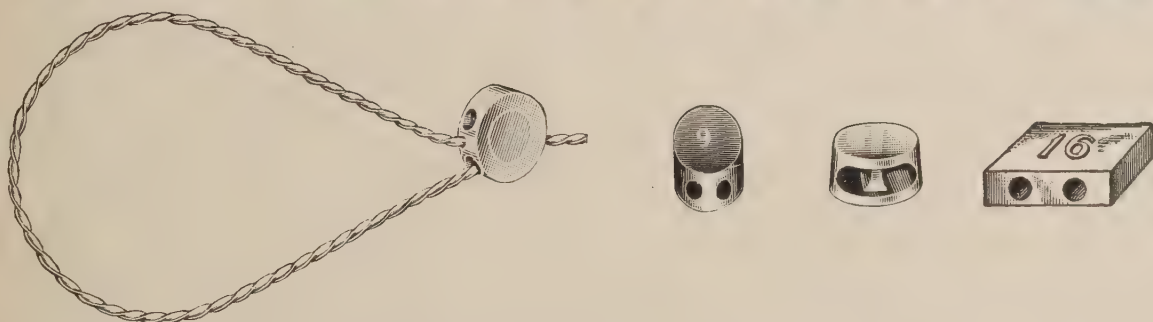
WRAPPING MACHINES—AUTOMATIC

American Machinery & Foundry Co.,
 Brooklyn, N. Y.

Ferguson Co., J. L., Joliet, Ill.

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Classifications Showing Specialties of Advertisers in Seed Trade Buyers Guide

Addresses Are Shown on Pages 240-242

Flower

ANNUALS

American Bulb Co.
Bodger Seeds, Ltd.
Jos. Breck & Sons
C. S. Brent Seed Co.
(Nasturtiums)
Buckman Denholm & Holden Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
D. Landreth Seed Co.
The Wm. Macdonald Seed Co.
J. Chas. McCullough Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
The Page Seed Co.
Rex D. Pearce
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co., Inc.
Vaughan's Seed Store
Waller-Franklin Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

PERENNIALS

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Buckman, Denholm & Holden Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Cameron & Co.
Condon Bros., Seedsmen
Comstock, Ferre & Co.
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Wm. Macdonald Seed Co.
McLaughlin's Seeds
The J. Chas. McCullough Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
The Page Seed Co.
Rex D. Pearce
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
Vaughan's Seed Store
U. S. Seed Co., Inc.
Waller-Franklin Seed Co.
T. W. Wood & Sons

SWEET PEAS

American Bulb Co.
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C. S. Brent Seed Co.
Buckman, Denholm & Holden Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Wm. Macdonald Seed Co.
J. Chas. McCullough Seed Co.
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The Nebraska Seed Co.

Robt. Nicholson Seed Co.
The Page Seed Co.
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Waldo Rohnert Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co., Inc.
Vaughan's Seed Store
The Wetsel Seed Co., Inc.
Waller-Franklin Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

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Burrell Seed, Inc.
Condon Bros., Seedsmen
Crosman Seed Corp.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Wm. Macdonald Seed Co.
J. Chas. McCullough Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Rex D. Pearce
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co., Inc.
Vaughan's Seed Store
Waller-Franklin Seed Co.
T. W. Wood & Sons

TREE SEEDS

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Buckman, Denholm & Holden Seed Co.
Burrell Seeds, Inc.

Wholesale Field Seed

ALFALFA

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Advance Seed Co.
The Atlantic Seed Co., Inc.
C. H. Appel Commission Co.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Belt Seed Co.
E. J. Beridon
N. Bonahoom Seed Co.
The Bowman Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robt. Buist Company
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Chambers Seed Co., Inc.
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Condon Bros., Seedsmen
Co-op. G. L. F. Mills, Inc.
Corneli Seed Co.
Crawfordsville Seed Co.
Courteen Seed Co.
Juan Curcija
Dakota Improved Seed Co.
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Davenport Seed Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
A. Ertag, Inc.
Farmers Union Grain & Supply Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Globe Seed & Feed Co.
Goldberg Seed & Feed Co.
The Gooding Seed Co.
Griscom & Co., Inc.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Idaho Grimm Alfalfa Seed Growers Assn., Inc.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
W. B. Johnston Seed Co.

Condon Bros., Seedsmen
Herbst Brothers
The Nebraska Seed Co.
Rex D. Pearce
I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co., Inc.

WILD FLOWERS

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Ferry-Morse Seed Co.
Herbst Brothers
Kelly Seed Co.
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Chas. H. Lilly Co.
Wm. Macdonald Seed Co.
J. Chas. McCullough Seed Co.
McLaughlin's Seeds
Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
Vaughan's Seed Store

ZINNIAS

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Bowman Seed Co.
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Robt. Buist Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Corneli Seed Co.
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Chas. C. Hart Seed Co.
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Wm. Macdonald Seed Co.
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John Mosbell Co.
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Seaboard Seed Co.
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Stollers Seed House
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Walker-Christensen Co.
Vaughan's Seed Store
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F. H. Woodruff & Sons, Inc.
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Yuma Co. Farmers Mktg. Assn.

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International Seed, Inc.
Jenks-White Seed Co.
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R. E. Lambert & Sons
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Reuter Seed Co., Inc.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
F. F. Smith & Co., Inc.
Snelson Seed Co.
Transcontinental Seed, Inc.
T. W. Wood & Sons

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Grand Island Nurseries
R. E. Lambert & Sons
Simpson Nursery Co.
T. W. Wood & Sons

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 Vaughan's Seed Store
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 Peppard Seed Co.
 Peterson-Biddick Co.
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 Goldberg Seed & Feed Co.
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 Henry Hirsch & Sons, Inc.

I. L. Radwaner Seed Co., Inc.
 Rudy-Patrick Seed Co.
 Wm. G. Scarlett & Co.
 Sedgwick Alfalfa Mills
 Geo. P. Sexauer & Son
 J. H. Speers & Co., Ltd.
 The Stanford Seed Co.
 Strayer Seed Farms
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 Twin City Seed Co.
 Valke-Christensen Co.
 Vaughan's Seed Store
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 Dessert Seed Co.
 Ferry-Morse Seed Co.
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 International Seed, Inc.
 Keller Seed Store
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 Chas. R. Moore
 Robt. Nicholson Seed Co.
 Northrup, King & Co. (Bom-
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 Ostberg Seed Co.
 Paramount Seed Co.
 Reuter Seed Co., Inc.
 Russell-Heckle Seed Co.
 F. F. Smith & Co., Inc.
 Snelson Seed Co.
 Stollers Seed House
 T. W. Wood & Sons

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 The Belt Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Robert Buist Company
 Capital Fuel, Feed & Seed Co.
 Chambers Seed Co., Inc.
 Condon Bros., Seedsmen

Holmes Seed Co.
 International Seed, Inc.
 Interstate Seed & Grain Co.
 Jenks-White Seed Co.
 Geo. Keller & Sons
 Kelly Seed Co.
 F. Lagomarsino & Sons
 Land O' Lakes Creameries,
 Inc.

D. Landreth Seed Co.
 The Chas. H. Lilly Co.
 Julius Loewith, Inc.
 Louisville Seed Co.
 McCabe Bros. Grain Co., Ltd.
 The J. Chas. McCullough
 Seed Co.
 Magill & Co.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 Mark Means Co.
 H. J. Mayer
 Chas. R. Moore
 National Seed Co., Inc.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northern Field Seed Co.
 Northrup, King & Co., (Bom-
 berger Div.)
 Northrup, King & Co., Mpls.
 Northwestern Seed Co.
 Northwestern Seed Growers,
 Inc.

Occidental Seed Co.
 L. L. Olds Seed Co.
 The O & M Seed Co.
 Ouren Seed Co.
 Pacific Supply Cooperative
 The Page Seed Co.
 Peppard Seed Co.
 Peterson-Biddick Co.
 The Philadelphia Seed Co.,
 Inc.
 Prunty Seed & Grain Co.
 Purcell Seed Co., Inc.
 I. L. Radwaner Seed Co., Inc.
 Ross Seed Co.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Wm. G. Scarlett & Co.
 Walter S. Schell, Inc.
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 Geo. P. Sexauer & Son
 Shultz Seed Co., Inc.
 Sommer Bros. Seed Co.
 Steele, Briggs Seed Co., Ltd.
 Stollers Seed House
 Strayer Seed Farms
 Transcontinental Seed, Inc.
 Twin City Seed Co.
 Vaughan's Seed Store
 Owen T. Watts
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
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 Young & Conway

CLOVER—BURRE
 Advance Seed Co.
 The Belt Seed Co.
 Capital Fuel, Feed & Seed Co.
 Dessert Seed Co.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
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 F. Lagomarsino & Sons
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 Chas. R. Moore
 Robt. Nicholson Seed Co.
 Northrup, King & Co. (Bom-
 berger Div.)
 Ostberg Seed Co.
 Paramount Seed Co.
 Reuter Seed Co., Inc.
 Russell-Heckle Seed Co.
 F. F. Smith & Co., Inc.
 Snelson Seed Co.
 Stollers Seed House
 T. W. Wood & Sons

CLOVER—CRIMSON
 Albany Seed Co.
 The Atlantic Seed Co., Inc.
 The Belt Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Robert Buist Company
 Capital Fuel, Feed & Seed Co.
 Chambers Seed Co., Inc.
 Condon Bros., Seedsmen

Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Ging & Company
Griscom & Co., Inc.
The Chas. C. Hart Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
A. N. Levin, Seeds
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
The J. Chas. McCullough
Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
Chas. R. Moore
National Seed Co., Inc.
Robt. Nicholson Seed Co.
Ostberg Seed Co.
The Philadelphia Seed Co.,
Inc.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co., Inc.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Seaboard Seed Co.
Shultz Seed Co., Inc.
Snelson Seed Co.
Transcontinental Seed, Inc.
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

CLOVER—LADINO

The Atlantic Seed Co., Inc.
The Belt Seed Co.
Jos Breck & Sons
Capital Fuel, Feed & Seed Co.
Arthur R. Cone
Co-op. G. L. F. Mills, Inc.
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Globe Seed & Feed Co.
The Gooding Seed Co.
Griscom & Co., Inc.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Josephine Growers Co-Op.
Assn.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Chas. R. Moore
Northrup, King & Co. (Bom-
berger Div.)
Ostberg Seed Co.
Pacific Supply Cooperative
Paramount Seed Co.
The Philadelphia Seed Co.,
Inc.
Russell-Heckle Seed Co.
William G. Scarlett & Co.
Walter S. Schell, Inc.
Seaboard Seed Co.
F. F. Smith & Co., Inc.
Transcontinental Seed, Inc.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

CLOVER—MAMMOTH RED

Ackerman Co.
Albany Seed Co.
C. H. Appel Commission Co.
The Atlantic Seed Co., Inc.
C. S. Brent Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Capital Fuel, Feed & Seed Co.
Chambers Seed Co., Inc.
Corneli Seed Co.
Courteen Seed Co.
Craver-Dickinson Seed Co.
Crawfordsville Seed Co.
Davenport Seed Co.
Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Funk Bros. Seed Co.
Ging & Company
Globe Seed & Feed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
International Seed, Inc.
Jenks-White Seed Co.
Geo. Keller & Sons
Kelly Seed Co.

H. C. King & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Chas. R. Moore
National Seed Co., Inc.
Nebraska Seed Co.
Northrup, King & Co.
Northwestern Seed Co., Inc.
Northwestern Seed Growers,
Inc.

L. L. Olds Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Page Seed Co.
Peppard Seed Co.
Philadelphia Seed Co., Inc.
Purcell Seed Co.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Transcontinental Seed, Inc.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.
Young & Conway

CLOVER—PERSIAN

Corneli Seed Co.
Duryea Seed Co., Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
W. T. Nolin

CLOVER—RED

The Ackerman Co.
C. H. Appel Commission Co.
The Atlantic Seed Co., Inc.
The Barteldes Seed Co.
The Belt Seed Co.
E. J. Beridon
Jos. Breck & Sons
C. S. Brent Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Chambers Seed Co., Inc.
Arthur R. Cone
Condon Bros., Seedsmen
Co-op. G. L. F. Mills, Inc.
Corneli Seed Co.
Courteen Seed Co.
Craver-Dickinson Seed Co.
Crawfordsville Seed Co.
Davenport Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co.
Leslie Edgerton
A. Ertag, Inc.
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Globe Seed & Feed Co.
The Gooding Seed Co.
Griscom & Co., Inc.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons, Inc.
Holmes Seed Co.
Idaho Grimm Alfalfa Seed
Growers Assn., Inc.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Kelly Seed Co.
Geo. Keller & Sons
Kellogg-Kelly Seed Co.
H. C. King & Sons, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Land O'Lakes Creameries,
Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
Dan McCoy Seed Co.
The J. Chas. McCullough
Seed Co.
Magill & Co.
H. J. Mayer
Montana Seed Co.
Chas. R. Moore

National Seed Co., Inc.
The Nebraska Seed Co.
Robert, Nicholson Seed Co.
W. T. Nolin
Northern Field Seed Co.
Northrup, King & Co. (Bom-
berger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
Edgar L. Oakes & Co.
Occidental Seed Co.
L. L. Olds Seed Co.
The O & M Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Pacific Supply Cooperative
The Page Seed Co.
A. S. Paterson & Coy, Ltd.
Peppard Seed Co.
Peterson-Biddick Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co., Inc.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Seaboard Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Strayer Seed Farms
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.
Young & Conway

CLOVER—STRAWBERRY

Blue Mountain Seed Growers
Assn.
F. Lagomarsino & Sons
The Chas. H. Lilly Co.
F. H. Woodruff & Sons, Inc.

CLOVER— SUBTERRANEAN

Law, Somner Pty., Ltd.

CLOVER—SWEET

The Ackerman Co.
The Atlantic Seed Co., Inc.
The Barteldes Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
Jos. Breck & Sons
Robt. Buist Co.
C. S. Brent Seed Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Chambers Seed Co., Inc.
Condon Bros., Seedsmen
Co-op. G. L. F. Mills, Inc.
Corneli Seed Co.
Courteen Seed Co.
Craver-Dickinson Seed Co.
Crawfordsville Seed Co.
Dakota Improved Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
Farmers Union Grain & Sup-
ply Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Ging & Company
Globe Seed & Feed Co.
Goldberg Seed & Feed Co.
Griscom & Co., Inc.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons
Holmes Seed Co.
Edgar F. Hurff Co.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
W. B. Johnston Seed Co.
Geo. Keller & Sons
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
Lakin Seed Co.
D. Landreth Seed Co.
Land O'Lakes Creameries,
Inc.
The Chas. H. Lilly Co.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
McCabe Bros. Grain Co., Ltd.

The J. Chas. McCullough
Seed Co.
Montana Seed Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Newday Seeds, Inc.
Northern Canadian Seed
Sales
Northern Field Seed Co.
Northrup, King & Co. (Bom-
berger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
Northwestern Seed Growers,
Inc.
Occidental Seed Co.
L. L. Olds Seed Co.
The O & M Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Pacific Supply Cooperative
Peppard Seed Co.
Peterson-Biddick Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Valker-Christensen Co.
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

CLOVER— YELLOW SWEET

Ackerman Co.
The Atlantic Seed Co., Inc.
Barteldes Seed Co.
Bowman Seed Co.
C. S. Brent Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Courteen Seed Co.
Corneli Seed Co.
Davenport Seed Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Goldberg Seed & Feed Co.
Ging & Company
Gooding Seed Co.
Griscom & Co., Inc.
Geo. Keller & Sons
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Land O'Lakes Creameries,
Inc.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed
Co.
Michael-Leonard Co.
Chas. R. Moore
Nebraska Seed Co.
Newday Seeds, Inc.
Northern Canadian Seed
Sales
Northrup, King & Co. (Bom-
berger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
Edgar L. Oakes & Co.
L. L. Olds Seed Co.
Pacific Supply Cooperative
Page Seed Co.
Peppard Seed Co.
Philadelphia Seed Co.
Purcell Seed Co.
Ross Seed Co.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Stoller's Seed House
Owen T. Watts
Young & Conway

CLOVER—WHITE

Albany Seed Co.
The Atlantic Seed Co., Inc.
The Belt Seed Co.
E. J. Beridon

The Bowman Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Robt. Buist Co.
 Capital Fuel, Feed & Seed Co.
 Cargill, Inc.
 Chambers Seed Co., Inc.
 Condon Bros., Seedsmen
 Co-op. G. L. F. Mills, Inc.
 Corneli Seed Co.
 Courteen Seed Co.
 Craver-Dickinson Seed Co.
 The Albert Dickinson Co.
 J. L. Donley & Bro.
 Duryea Seed Co., Inc.
 Leslie Edgerton
 A. Ertag, Inc.
 Ferry-Morse Seed Co.
 Funk Bros. Seed Co.
 Globe Seed & Feed Co.
 The Gooding Seed Co.
 Grisco & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 Hopson Planting Co.
 Edgar F. Hurff Co.
 International Seed, Inc.
 Jenks-White Seed Co.
 Kellogg Kelly Seed Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 Land O' Lakes Creameries,
 Inc.
 D. Landreth Seed Co.
 Law, Somner Pty., Ltd.
 A. N. Levin, Seeds
 The Chas. H. Lilly Co.
 Julius Loewith, Inc.
 Louisville Seed Co.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 H. J. Mayer
 McCabe Bros. Grain Co., Ltd.
 The J. Chas. McCullough
 Seed Co.
 Mark Means Co.
 Chas. R. Moore
 National Seed Co., Inc.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 W. T. Nolin
 Northern Field Seed Co.
 Northrup, King & Co. (Bom-
 berger Div.)
 Northwestern Seed Growers,
 Inc.
 Occidental Seed Co.
 L. L. Olds Seed Co.
 Ostberg Seed Co.
 Ouren Seed Co.
 Pacific Supply Cooperative
 The Page Seed Co.
 Peppard Seed Co.
 A. S. Paterson & Coy, Ltd.
 The Philadelphia Seed Co.,
 Inc.
 Prunty Seed & Grain Co.
 Purcell Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Ross Seed Co., Inc.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Wm. G. Scarlett & Co.
 Walter S. Schell, Inc.
 J. M. Schultz Seed Co.
 O. M. Scott & Sons Co.
 Seaboard Seed Co.
 Geo. P. Sexauer & Son
 Shultz Seed Co., Inc.
 Snelson Seed Co.
 The Stanford Seed Co.
 Stollers Seed House
 Transcontinental Seed, Inc.
 Twin City Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 Owen T. Watts
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Wright, Stephenson & Coy,
 Ltd.

CLOVER—YELLOW HOP

Albert Dickinson Co.
 Duryea Seed Co., Inc.
 Jenks-White Seed Co.
 R. E. Lambert & Sons
 Chas. H. Lilly Co.
 Julius Loewith, Inc.
 Robt. Nicholson Seed Co.
 W. T. Nolin

CLOVER—WILD WHITE

C. S. Brent Seed Co.
 Capital Fuel, Feed & Seed Co.
 Corneli Seed Co.
 Albert Dickinson Seed Co.
 Craver-Dickinson Seed Co.
 Duryea Seed Co., Inc.
 Ging & Company
 Jenks-White Seed Co.
 Kelly Seed Co.
 R. E. Lambert & Sons
 D. Landreth Seed Co.
 Chas. H. Lilly Co.
 Julius Loewith, Inc.

H. J. Mayer
 The J. Chas. McCullough Seed
 Co.
 Chas. R. Moore
 Ostberg Seed Co.
 Pacific Supply Cooperative
 Philadelphia Seed Co.
 Wm. G. Scarlett & Co.
 Seaboard Seed Co.
 The Stanford Seed Co.
 Transcontinental Seed, Inc.
 F. H. Woodruff & Sons, Inc.
 Wright, Stephenson & Coy.
 Ltd.

CORN—FIELD

C. H. Appel Commission Co.
 The Atlantic Seed Co., Inc.
 The Barteldes Seed Co.
 The Belt Seed Co.
 E. J. Beridon
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Robt. Buist Co.
 Cargill, Inc.
 Chambers Seed Co., Inc.
 C. S. Clark & Sons
 Arthur R. Cone
 Condon Bros. Seedsmen
 Corneli Seed Co.
 Council Bluffs Seed Co.
 Craver-Dickinson Seed Co.
 Dakota Improved Seed Co.
 The Albert Dickinson Co.
 J. L. Donley & Bro.
 Farmer Seed & Nursery Co.
 Ferry-Morse Seed Co.
 Hamilton Seed & Coal Co.
 Funk Bros. Seed Co.
 Grisco & Co., Inc.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 Edgar F. Hurff Co.
 Interstate Seed & Grain Co.
 Jacques Seed Co.
 Jenks-White Seed Co.
 Kellogg Kelly Seed Co.
 Keller Seed Store
 Kelly Seed Co.
 F. Lagomarsino & Sons
 Land O' Lakes Creameries,
 Inc.
 R. E. Lambert & Sons
 D. Landreth Seed Co.
 A. N. Levin, Seeds
 Lewis Seed Co.
 Louisville Seed Co.
 Magill & Co.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 McCabe Bros. Grain Co., Ltd.
 Dan McCoy Seed Co.
 The J. Chas. McCullough Seed
 Co.
 Michael-Leonard Co.
 Chas. R. Moore
 The Nebraska Seed Co.
 Newday Seeds, Inc.
 Robt. Nicholson Seed Co.
 Nishna Valley Seed Co.
 W. T. Nolin
 Northern Field Seed Co.
 L. L. Olds Seed Co.
 The O & M Seed Co.
 Ouren Seed Co.
 The Page Seed Co.
 Peppard Seed Co.
 Peterson-Biddick Co.
 The Philadelphia Seed Co.,
 Inc.
 Purcell Seed Co.
 Reuter Seed Co., Inc.
 Riemers' Farms
 Ross Seed Co., Inc.
 Russell-Heckle Seed Co.
 Wm. G. Scarlett & Co.
 Walter S. Schell, Inc.
 O. M. Scott & Sons Co.
 Seaboard Seed Co.
 Sedgwick Alfalfa Mills
 George P. Sexauer & Son
 Shultz Seed Co., Inc.
 Shuler & Smoak
 Snelson Seed Co.
 The Stanford Seed Co.
 Stollers Seed House
 Strayer Seed Farms
 Tracy & Son Farms
 Twin City Seed Co.
 Vaughan's Seed Store
 Owen T. Watts
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

CORN—FLINT

Cargill, Inc.
 C. S. Clark & Sons
 Comstock, Ferre & Co.
 Council Bluffs Seed Co.
 Jenks-White Seed Co.
 H. C. King & Sons
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 Land O' Lakes Creameries,
 Inc.

McCabe Bros. Grain Co., Ltd.
 Chas. R. Moore
 Nebraska Seed Co.
 Northrup, King & Co., Mpls.
 O. & M. Seed Co.
 Edgar L. Oakes & Co.
 L. L. Olds Seed Co.
 Page Seed Co.
 Philadelphia Seed Co.
 J. C. Robinson Seed Co.
 Wm. G. Scarlett & Co.
 Geo. P. Sexauer & Son
 The Stanford Seed Co.
 T. W. Wood & Sons

CORN (Hybrid)

The Atlantic Seed Co., Inc.
 Barteldes Seed Co.
 C. S. Brent Seed Co.
 Bowman Seed Co.
 Cargill, Inc.
 C. S. Clark & Sons
 Condon Bros. Seedsmen
 Corneli Seed Co.
 Council Bluffs Seed Co.
 Dakota Improved Seed Co.
 Davenport Seed Co.
 Funk Bros. Seed Co.
 Grisco & Co., Inc.
 Hamilton Seed & Coal Co.
 International Seed, Inc.
 Jacques Seed Co.
 Jenks-White Seed Co.
 Kellogg Kelly Seed Co.
 Kelly Seed Co.
 H. C. King & Sons
 F. Lagomarsino & Sons
 Land O' Lakes Creameries,
 Inc.
 R. E. Lambert & Sons
 Louisville Seed Co.
 Ed. F. Mangelsdorf & Bro. Inc.
 McCabe Bros. Grain Co., Ltd.
 Dan McCoy Seed Co.
 The J. Chas. McCullough Seed
 Co.
 Michael-Leonard Co.
 Chas. R. Moore
 National Seed Co.
 Nebraska Seed Co.
 Newday Seeds, Inc.
 Nishna Valley Seed Co.
 Northrup, King & Co., Mpls.
 Northwestern Seed Co.
 O. & M. Seed Co.
 Ouren Seed Co.
 Edgar L. Oakes & Co.
 L. L. Olds Seed Co.
 Page Seed Co.
 Peppard Seed Co.
 Philadelphia Seed Co.
 Purcell Seed Co.
 J. C. Robinson Seed Co.
 Ross Seed Co.
 Wm. G. Scarlett & Co.
 O. M. Scott & Sons Co.
 Seaboard Seed Co.
 Geo. P. Sexauer & Son
 Shultz Seed Co., Inc.
 Stollers Seed House
 Stanford Seed Co.
 Strayer Seed Farms
 Tracy & Son Farms
 Owen T. Watts
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

COTTON

E. J. Beridon
 Corneli Seed Co.
 Grisco & Co., Inc.
 Hopson Planting Co.
 Keller Seed Store
 R. E. Lambert & Sons
 Robt. Nicholson Seed Co.
 Reuter Seed Co., Inc.
 Russell-Heckle Seed Co.
 Shuler & Smoak
 Snelson Seed Co.
 (Sea Island Long Staple
 only)
 T. W. Woods & Sons

COWPEAS

C. H. Appel Commission Co.
 Associated Seed Growers, Inc.
 The Belt Seed Co.
 E. J. Beridon
 C. S. Brent Seed Co.
 Robert Buist Company
 Chambers Seed Co., Inc.
 Condon Bros. Seedsmen
 Corneli Seed Co.
 Ferry-Morse Seed Co.
 Funk Bros. Seed Co.
 Ging & Company
 Grisco & Co., Inc.
 The Chas. C. Hart Seed Co.
 Edgar F. Hurff Co.
 W. B. Johnston Seed Co.
 Kelly Seed Co.
 Keller Seed Store
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 D. Landreth Seed Co.
 A. N. Levin, Seeds
 Julius Loewith, Inc.
 Louisville Seed Co.

Ed. F. Mangelsdorf & Bro.,
 Inc.
 Dan McCoy Seed Co.
 The J. Chas. McCullough Seed
 Co.
 Chas. R. Moore
 National Seed Co., Inc.
 Robt. Nicholson Seed Co.
 Peppard Seed Co.
 The Philadelphia Seed Co.,
 Inc.
 Prunty Seed & Grain Co.
 Purcell Seed Co.
 Reuter Seed Co., Inc.
 Ross Seed Co.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Wm. G. Scarlett & Co.
 J. M. Schultz Seed Co.
 Seaboard Seed Co.
 Sedgwick Alfalfa Mills
 Shuler & Smoak
 Shultz Seed Co., Inc.
 Snelson Seed Co.
 Stollers Seed House
 Owen T. Watts
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Young & Conway

CRESTED DOGSTAIL

The Belt Seed Co.
 Craver-Dickinson Seed Co.
 Duryea Seed Co., Inc.
 The Chas. C. Hart Seed Co.
 International Seed, Inc.
 Jenks-White Seed Co.
 F. Lagomarsino & Sons
 Julius Loewith, Inc.
 The J. Chas. McCullough Seed
 Co.
 A. S. Paterson & Coy, Ltd.
 I. L. Radwaner Seed Co., Inc.
 Wm. G. Scarlett & Co.
 The Stanford Seed Co.
 Transcontinental Seed, Inc.
 F. H. Woodruff & Sons, Inc.
 Wright, Stephenson & Coy
 Ltd.

CRESTED WHEAT GRASS

Barteldes Seed Co.
 Bowman Seed Co.
 Cargill, Inc.
 Corneli Seed Co.
 The Albert Dickinson Co.
 Leslie Edgerton
 Farmers Union Grain & Sup-
 ply Co.
 Goldberg Seed & Feed Co.
 The Gooding Seed Co.
 Grisco & Co., Inc.
 Griswold Seed & Nursery Co.
 Jenks-White Seed Co.
 H. C. King & Sons
 F. Lagomarsino & Sons
 Lakin Seed Co.
 Land O' Lakes Creameries,
 Inc.
 The Chas. H. Lilly Co.
 Julius Loewith, Inc.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 Magill & Co.
 McCabe Bros. Grain Co., Ltd.
 The J. Chas. McCullough Seed
 Co.
 Montana Seed Co.
 Nebraska Seed Co.
 Newday Seeds, Inc.
 Robt. Nicholson Seed Co.
 Northern Canadian Seed
 Sales
 Northrup, King & Co. (Bom-
 berger Div.)
 Northrup, King & Co., Mpls.
 Edgar L. Oakes & Co.
 L. L. Olds Seed Co.
 Ouren Seed Co.
 Pacific Supply Cooperative
 Peppard Seed Co.
 Philadelphia Seed Co.
 Rudy-Patrick Seed Co.
 Geo. P. Sexauer & Son
 Steele, Briggs Seed Co., Ltd.
 Valer-Christensen Co.
 F. H. Woodruff & Sons, Inc.

CROTALARIA

The Belt Seed Co.
 Corneli Seed Co.
 D. H. Gilbert Seed Co., Inc.
 R. E. Lambert & Sons
 Julius Loewith, Inc.
 Robt. Nicholson Seed Co.
 Riemers' Farms
 Reuter Seed Co., Inc.
 Russell-Heckle Seed Co.
 Wm. G. Scarlett & Co.
 Simpson Nursery Co.
 Snelson Seed Co.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

DALLIS GRASS (Paspalum Dilatatum)

The Belt Seed Co.

E. J. Beridon
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hopson Planting Co.
 International Seed, Inc.
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 Law, Somner Pty., Ltd.
 A. N. Levin, Seeds
 Julius Loewith, Inc.
 Chas. R. Moore
 Robt. Nicholson Seed Co.
 W. T. Nolin
 Northrup, King & Co. (Bom-
 berger Div.)
 Riemers' Farms
 Reuter Seed Co., Inc.
 Russell-Heckle Seed Co.
 Wm. G. Scarlett & Co.
 Snelson Seed Co.
 Transcontinental Seed, Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Yuma Co. Farmers Mktg.
 Assn.

ESPARSETTE OR SANFOIN

Duryea Seed Co., Inc.
 Julius Loewith, Inc.

FESCUES

Albany Seed Co.
 Associated Seed Growers, Inc.
 The Atlantic Seed Co., Inc.
 The Belt Seed Co.
 C. S. Brent Seed Co.
 Jos. Breck & Sons
 Robt. Buist Co.
 Arthur R. Cone
 Craver-Dickinson Seed Co.
 Cornell Seed Co.
 The Albert Dickinson Co.
 J. L. Donley & Bro.
 Duryea Seed Co., Inc.
 Engbretson Seed Co.
 A. Ertag, Inc.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 International Seed, Inc.
 Jenks-White Seed Co.
 Kellogg-Kelly Seed Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Lewis & Clark Seed Co., Inc.
 The Chas. H. Lilly Co.
 Julius Loewith, Inc.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 McCabe Bros. Grain Co., Ltd.
 The J. Chas. McCullough Seed
 Co.
 Chas. R. Moore
 Northern Canadian Seed
 Sales
 Northrup, King & Co. (Bom-
 berger Div.)
 Northrup, King & Co., Mpls.
 Northwestern Seed Growers,
 Inc.
 L. L. Olds Seed Co.
 Olsen's Seed Farms
 Pacific Supply Cooperative
 A. S. Paterson & Coy, Ltd.
 Peppard Seed Co.
 The Philadelphia Seed Co.,
 Inc.
 Rudy-Patrick Seed Co.
 Wm. G. Scarlett & Co.
 O. M. Scott & Sons Co.
 Seaboard Seed Co.
 The Stanford Seed Co.
 Stollers Seed House
 Transcontinental Seed, Inc.
 Twin City Seed Co.
 Vaughan's Seed Store
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Wright, Stephenson & Coy,
 Ltd.

FETERITA

The Barteldes Seed Co.
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 Capital Fuel, Feed & Seed Co.
 Cornell Seed Co.
 W. B. Johnston Seed Co.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 The J. Chas. McCullough Seed
 Co.
 Robt. Nicholson Seed Co.
 L. L. Olds Seed Co.
 Peppard Seed Co.
 Reuter Seed Co., Inc.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Sedgwick Alfalfa Mills
 Geo. P. Sexauer & Son
 Snelson Seed Co.

FIELD PEAS

C. H. Appel Commission Co.
 The Belt Seed Co.
 E. J. Beridon

C. S. Brent Seed Co.
 Robt. Buist Co.
 Cargill, Inc.
 Arthur R. Cone
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Courteen Seed Co.
 Craver-Dickinson Seed Co.
 The Albert Dickinson Co.
 Duryea Seed Co., Inc.
 Leslie Edgerton
 A. Ertag, Inc.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 Edgar F. Hurff Co.
 International Seed, Inc.
 Interstate Seed & Grain Co.
 Jenks-White Seed Co.
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 Law, Somner Pty., Ltd.
 Leckenby Seed Co.
 A. N. Levin, Seeds
 The Chas. H. Lilly Co.
 Julius Loewith, Inc.
 Louisville Seed Co.
 Magill & Co.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 McCabe Bros. Grain Co., Ltd.
 Dan McCoy Seed Co.
 The J. Chas. McCullough Seed
 Co.
 Mark Means Co.
 Montana Seed Co.
 Chas. R. Moore
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 (Bomberger Div.)
 Northwestern Seed Growers,
 Inc.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Paramount Seed Co.
 A. S. Paterson & Coy, Ltd.
 Peterson-Biddick Co.
 The Philadelphia Seed Co.,
 Inc.
 Prunty Seed & Grain Co.
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Wm. G. Scarlett & Co.
 Sedgwick Alfalfa Mills
 Geo. P. Sexauer & Son
 Shuler & Smoak
 Shultz Seed Co., Inc.
 F. F. Smith & Co., Inc.
 Snelson Seed Co.
 J. H. Speers & Co., Ltd.
 The Stanford Seed Co.
 Stollers Seed House
 Transcontinental Seed, Inc.
 Twin City Seed Co.
 Owen T. Watts
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Wright, Stephenson & Coy,
 Ltd.

GRASSES—FANCY

The Atlantic Seed Co., Inc.
 The Belt Seed Co.
 The Bowman Seed Co.
 Jos. Breck & Sons
 Chambers Seed Co., Inc.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Craver-Dickinson Seed Co.
 The Albert Dickinson Co.
 J. L. Donley & Bro.
 Duryea Seed Co., Inc.
 Engbretson Seed Co.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 International Seed, Inc.
 Jenks-White Seed Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 Lewis & Clark Seed Co., Inc.
 The Chas. H. Lilly Co.
 Julius Loewith, Inc.
 Ed. F. Mangelsdorf & Bro.
 Inc.
 The J. Chas. McCullough Seed
 Co.
 Chas. R. Moore
 The Nebraska Seed Co.
 Newday Seeds, Inc.
 Northrup, King & Co.
 (Bomberger Div.)
 Northrup, King & Co., Mpls.
 L. L. Olds Seed Co.
 Olsen's Seed Farms
 Ostberg Seed Co.
 Ouren Seed Co.
 Pacific Supply Cooperative
 Peppard Seed Co.
 The Philadelphia Seed Co.,
 Inc.
 Prunty Seed & Grain Co.
 Purcell Seed Co.

I. L. Radwaner Seed Co., Inc.
 Ross Seed Co.
 Rudy-Patrick Seed Co.
 Wm. G. Scarlett & Co.
 O. M. Scott & Sons Co.
 Seaboard Seed Co.
 Shultz Seed Co., Inc.
 The Stanford Seed Co.
 Stollers Seed House
 Transcontinental Seed, Inc.
 Twin City Seed Co.
 Vaughan's Seed Store
 Owen T. Watts
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Yuma County Farmers Mktg.
 Assn.

GROHOMA

The Barteldes Seed Co.
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 Capital Fuel, Feed & Seed Co.
 Cornell Seed Co.
 Funk Bros. Seed Co.
 Griswold Seed & Nursery Co.
 W. B. Johnston Seed Co.
 Kelly Seed Co.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 The J. Chas. McCullough Seed
 Co.
 Robt. Nicholson Seed Co.
 Peppard Seed Co.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Sedgwick Alfalfa Mills
 Geo. P. Sexauer & Son
 Shultz Seed Co., Inc.
 Snelson Seed Co.
 Twin City Seed Co.

HEGARI

Advance Seed Co.
 The Barteldes Seed Co.
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 Capital Fuel, Feed & Seed Co.
 Cornell Seed Co.
 Funk Bros. Seed Co.
 Griswold Seed & Nursery Co.
 Hamilton Seed & Coal Co.
 W. B. Johnston Seed Co.
 Keller Seed Store
 R. E. Lambert & Sons
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 The J. Chas. McCullough
 Seed Co.
 Robt. Nicholson Seed Co.
 Northwestern Seed Co.
 Ouren Seed Co.
 Peppard Seed Co.
 Reuter Seed Co., Inc.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Sedgwick Alfalfa Mills
 Geo. P. Sexauer & Son
 Snelson Seed Co.
 Transit Grain & Com. Co.
 Twin City Seed Co.
 T. W. Wood & Sons
 Yuma Co. Farmers Mktg.
 Assn.

HEMP

C. S. Brent Seed Co.
 Chambers Seed Co., Inc.
 Cornell Seed Co.
 The Albert Dickinson Seed
 Co.
 Duryea Seed Co., Inc.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 Ed. Mangelsdorf & Bros., Inc.
 The J. Chas. McCullough
 Seed Co.
 The Philadelphia Seed Co.,
 Inc.
 Prunty Seed & Grain Co.
 Rudy-Patrick Seed Co.
 Wm. G. Scarlett & Co.
 The Stanford Seed Co.
 Twin City Seed Co.
 Owen T. Watts

JOHNSON GRASS

Capital Fuel, Feed & Seed
 Co.
 Cornell Seed Co.
 Griscom & Co., Inc.
 W. B. Johnston Seed Co.
 Keller Seed Store
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 Robt. Nicholson Seed Co.
 Reuter Seed Co., Inc.
 Snelson Seed Co.

KAFIR CORN

The Barteldes Seed Co.
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 Robert Buist Co.
 Cornell Seed Co.
 Duryea Seed Co., Inc.
 Griscom & Co., Inc.
 Griswold Seed & Nursery Co.
 Hamilton Seed & Coal Co.
 W. B. Johnston Seed Co.

Keller Seed Store
 Kelly Seed Co.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 The J. Chas. McCullough
 Seed Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 L. L. Olds Seed Co.
 Ouren Seed Co.
 Peppard Seed Co.
 The Philadelphia Seed Co.,
 Inc.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Wm. G. Scarlett & Co.
 Sedgwick Alfalfa Mills
 Geo. P. Sexauer & Son
 Snelson Seed Co.
 Stollers Seed House
 Transit Grain & Com. Co.
 T. W. Wood & Sons

KUDZU

C. S. Brent Seed Co.
 Cornell Seed Co.
 Duryea Seed Co., Inc.
 Griscom & Co., Inc.
 R. E. Lambert & Sons
 Julius Loewith, Inc.
 Peppard Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Wm. G. Scarlett & Co.
 Snelson Seed Co.

LAWN MIXTURES

Ackerman Co.
 American Bulb Co.
 Associated Seed Growers,
 Inc.
 The Atlantic Seed Co., Inc.
 The Barteldes Seed Co.
 The Belt Seed Co.
 The Bowman Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Robert Buist Co.
 Cargill, Inc.
 Chambers Seed Co., Inc.
 Arthur R. Cone
 Condon Bros., Seedsmen
 Cornell Seed Co.
 Craver-Dickinson Seed Co.
 Crawfordsville Seed Co.
 The Albert Dickinson Co.
 J. L. Donley & Bro.
 Duryea Seed Co., Inc.
 Ferry-Morse Seed Co.
 Funk Bros. Seed Co.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The Chas. H. Lilly Co.
 Louisville Seed Co.
 Magill & Co.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 McCabe Bros. Grain Co., Ltd.
 The J. Chas. McCullough
 Seed Co.
 Chas. R. Moore
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 (Bomberger Div.)
 Northrup, King & Co., Mpls.
 L. L. Olds Seed Co.
 O & M Seed Co.
 Ostberg Seed Co.
 Ouren Seed Co.
 The Page Seed Co.
 Peppard Seed Co.
 Peterson-Biddick Co.
 The Philadelphia Seed Co.,
 Inc.
 Prunty Seed & Grain Co.
 I. L. Radwaner Seed Co., Inc.
 Ross Seed Co.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Seaboard Seed Co.
 Wm. G. Scarlett & Co.
 Walter S. Schell, Inc.
 O. M. Scott & Sons Co.
 Sommer Bros. Seed Co.
 Shultz Seed Co., Inc.
 Geo. P. Sexauer & Son
 The Stanford Seed Co.
 Stollers Seed House
 Transcontinental Seed, Inc.
 Twin City Seed Co.
 Vaughan's Seed Store
 Owen T. Watts
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

LESPEDEZA

C. H. Appel Commission Co.
 The Barteldes Seed Co.
 The Belt Seed Co.
 E. J. Beridon
 The Bowman Seed Co.
 C. S. Brent Seed Co.
 Chambers Seed Co., Inc.
 Cornell Seed Co.
 Craver-Dickson Seed Co.
 Crawfordsville Seed Co.

Funk Bros. Seed Co.
The Albert Dickinson Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
International Seed, Inc.
Geo. Keller & Sons
Keller Seed Store
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
A. N. Levin, Seeds
Louisville Seed Co.
Lucas Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
D. R. Mayo Seed Co.
Dan McCoy Seed Co.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Company
Robt. Nicholson Seed Co.
Northwestern Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co., Inc.
Riemers' Farms
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Seaboard Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
Shultz Seed Co., Inc.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
J. P. Snapp & Son
Snelson Seed Co.
Standard Seed Co.
Stollers Seed House
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

LUPINES

Hijos de S. V. Bellotti
Corneli Seed Co.
Duryea Seed Co., Inc.
Griscom & Co., Inc.
R. E. Lambert & Sons
Julius Loewith, Inc.
I. L. Radwaner Seed Co., Inc.
Snelson Seed Co.
F. H. Woodruff & Sons, Inc.

MAPLE PEAS

Duryea Seed Co., Inc.
Julius Loewith, Inc.
F. Lagomarsino & Sons
Law, Somner Pty., Ltd.
The J. Chas. McCullough
Seed Co.
Pacific Supply Cooperative
Philadelphia Seed Co.
Wm. G. Scarlett & Co.
Wright, Stephenson & Coy,
Ltd.

MELILOTUS INDICA

Advance Seed Co.
C. S. Brent Seed Co.
Capital Fuel, Feed & Seed
Co.
Cargill, Inc.
Corneli Seed Co.
Cuff-Archias Seed Co.
Albert Dickinson Co.
Duryea Seed Co., Inc.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Chas. R. Moore
Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Paramount Seed Co.
Yuma Co. Farmers Mktg.
Assn.

MICHELS

Corneli Seed Co.
Duryea Seed Co., Inc.
Globe Seed & Feed Co.
The Gooding Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Leckenby Seed Co.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
Northwestern Seed Growers,
Inc.

Pacific Supply Cooperative
Rudy-Patrick Seed Co.
Stollers Seed House
F. H. Woodruff & Sons, Inc.

MILLETS

C. H. Appel Commission Co.
The Barteldes Seed Co.

The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Jos. Breck & Sons
Robert Buist Co.
C. S. Brent Seed Co.
Cargill, Inc.
Chambers Seed Co., Inc.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Interstate Seed & Grain Co.
W. B. Johnston Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
The Chas. H. Lilly Co.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
D. R. Mayo Seed Co.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.

Chas. R. Moore
The Nebraska Seed Co.
Newday Seeds, Inc.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
Reuter Seed Co., Inc.
Riemers' Farms
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Snelson Seed Co.
(Cattail and Brown Top)
The Stanford Seed Co.
Transcontinental Seed, Inc.
Twin City Seed Co.
Valker-Christensen Co.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

MILO MAIZE

Advance Seed Co.
The Barteldes Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
Jos. Breck & Sons
Capital Fuel, Feed & Seed Co.
Corneli Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
W. B. Johnston Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
L. L. Olds Seed Co.
Paramount Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
F. F. Smith & Co., Inc.
Snelson Seed Co.
Stollers Seed House
Transit Grain & Com. Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

MUNG BEANS

Corneli Seed Co.
R. E. Lambert & Sons
Julius Loewith, Inc.
The J. Chas. McCullough
Seed Co.
Robt. Nicholson Seed Co.
J. M. Schultz Seed Co.
Snelson Seed Co.

OAT GRASS

The Belt Seed Co.
E. J. Beridon
C. S. Brent Seed Co.
Cargill, Inc.
Corneli Seed Co.
Duryea Seed Co., Inc.
Griscom & Co., Inc.
The Chas. C. Hart Seed Co.
Jenks-White Seed Co.
F. Lagomarsino & Sons
The Chas. H. Lilly Co.
Julius Loewith, Inc.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
National Seed Co.
Northwestern Seed Growers,
Inc.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Stollers Seed House
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

OIL SEEDS

Chas. H. Lilly Co.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Wm. G. Scarlett & Co.

ORCHARD GRASS

The Atlantic Seed Co., Inc.
The Belt Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Cargill, Inc.
Chambers Seed Co., Inc.
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
A. N. Levin, Seeds
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Lucas Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
National Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northwestern Seed Growers,
Inc.
L. L. Olds Seed Co.
Ouren Seed Co.
Pacific Supply Cooperative
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Seaboard Seed Co.
Shultz Seed Co., Inc.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.
Young & Conway

PASTURE MIXTURES

The Atlantic Seed Co., Inc.
The Belt Seed Co.
E. J. Beridon
Jos. Breck & Sons
C. S. Brent Seed Co.
The Bowman Seed Co.
Robert Buist Co.
Cargill, Inc.
Condon Bros., Seedsmen
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Seed
Co.
J. L. Donlev & Bro.
Duryea Seed Co., Inc.

Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Chas. H. Lilly Co.
Louisville Seed Co.
McCabe Bros. Grain Co., Ltd
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
W. T. Nolin
Northrup, King & Co.
(Bomberger Div.)
Northwestern Seed Co.
Northwestern Seed Growers,
Inc.
L. L. Olds Seed Co.
Ouren Seed Co.
Pacific Supply Cooperative
Peppard Seed Co.
Peterson-Biddick Co.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
William G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seeds, Inc.
Twin City Seed Co.
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

PHALARIS TUBEROSE

Law, Somner Pty., Ltd.

POA TRIVIALIS

Ackerman Co.
Associated Seed Growers,
Inc.
Barteldes Seed Co.
C. S. Brent Seed Co.
Robert Buist Co.
Cargill, Inc.
Corneli Seed Co.
Albert Dickinson Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Funk Bros. Seed Co.
Hamilton Seed & Coal Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
D. Landreth Seed Co.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
John Mosbell Co.
National Seed Co., Inc.
Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
Philadelphia Seed Co., Inc.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Geo. P. Sexauer & Son
The Stanford Seed Co.
Stollers Seed House
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

RAPE

The Atlantic Seed Co., Inc.
The Belt Seed Co.
Bowman Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Chambers Seed Co., Inc.
Co-op. G. L. F. Mills, Inc.
Corneli Seed Co.
Courteen Seed Co.

Craver-Dickinson Seed Co.
Crawfordsville Seed Co.
Juan Curcija
Dakota Improved Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
A. N. Levin, Seeds
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Michael-Leonard Co.
Chas. R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co., Mpls.
Northwestern Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Shultz Seed Co., Inc.
Seaboard Seed Co.
Geo. P. Sexauer & Son.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

REDTOP

The Ackerman Co.
C. H. Appel Commission Co.
Associated Seed Growers, Inc.
The Atlantic Seed Co., Inc.
The Belt Seed Co.
The Bowman Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Chambers Seed Co., Inc.
Condon Bros., Seedsmen
Arthur R. Cone
Co-op. G. L. F. Mills, Inc.
Cornell Seed Co.
Courteen Seed Co.
Craver-Dickinson Seed Co.
Crawfordsville Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Ging & Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Kellogg Kelly Seed Co.
Kelly Seed Co.
Geo. Keller & Sons
F. Lagomarsino & Sons
D. Landreth Seed Co.
R. E. Lambert & Sons
A. N. Levin, Seeds
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.

Northern Field Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
L. L. Olds Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
J. M. Schultz Seed Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Shultz Seed Co., Inc.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Transit Grain & Com. Co.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

REED CANARY GRASS

The Belt Seed Co.
Cargill, Inc.
Cornell Seed Co.
Courteen Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
Holmes Seed Co.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Chas. R. Moore
The Nebraska Seed Co.
Newday Seeds, Inc.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.
Northwestern Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
Peterson-Biddick Co.
The Philadelphia Seed Co.,
Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Geo. P. Sexauer & Son
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Twin City Seed Co.
Vaughan's Seed Store
F. H. Woodruff & Sons, Inc.

RESCUE GRASS

The Belt Seed Co.
Duryea Seed Co., Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Julius Loewith, Inc.
Chas. R. Moore
Robt. Nicholson Seed Co.
A. S. Paterson & Coy, Ltd.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Snelson Seed Co.
Stollers Seed House
The Wetsel Seed Co., Inc.

RHODES GRASS

The Belt Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Julius Loewith, Inc.
Chas. R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.

William G. Scarlett & Co.
Snelson Seed Co.
Stollers Seed House
The Wetsel Seed Co., Inc.

RYE GRASS—DOMESTIC

The Ackerman Co.
Albany Seed Co.
Associated Seed Growers, Inc.
The Atlantic Seed Co., Inc.
The Belt Seed Co.
The Bowman Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Capital Fuel, Feed & Seed
Co.
Cargill, Inc.
Chambers Seed Co., Inc.
Arthur R. Cone
Co-op. G. L. F. Mills, Inc.
Cornell Seed Co.
Courteen Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
A. N. Levin, Seeds
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
H. J. Mayer
The J. Chas. McCullough
Seed Co.

RYE GRASS—ENGLISH

Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co., Mpls.
Northrup, King & Co.
(Bomberger Div.)
L. L. Olds Seed Co.
Ostberg Seed Co.
Ouren Seed Co.
Pacific Supply Cooperative
Paramount Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
F. F. Smith & Co., Inc.
Snelson Seed Co.
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

RYE GRASS—ITALIAN

Albany Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Juan Curcija
Dakota Improved Seed Co.
Griscom & Co., Inc.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
John Mosbell Co.
Nebraska Seed Co.
Northrup, King & Co. (Bom-
berger Div.)
Philadelphia Seed Co., Inc.
Wm. G. Scarlett & Co.
Geo. P. Sexauer & Son
O. M. Scott & Sons Co.
The Stanford Seed Co., Ltd.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

RYE GRASS—PERENNIAL

The Ackerman Co.
The Bowman Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Craver-Dickinson Seed Co.
Juan Curcija
Duryea Seed Co., Inc.
Funk Bros. Seed Co.
Griscom & Co., Inc.
International Seed, Inc.
Jenks-White Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
John Mosbell Co.
Nebraska Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Ostberg Seed Co.
Philadelphia Seed Co., Inc.
A. S. Paterson & Coy, Ltd.
Seaboard Seed Co.
Wm. G. Scarlett & Co.
O. M. Scott & Sons Co.
Geo. P. Sexauer & Son
Snelson Seed Co.
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

ROSEN RYE

The Belt Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Chambers Seed Co., Inc.
Arthur R. Cone
Cornell Seed Co.
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Farmer Seed & Nursery Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
A. N. Levin, Seeds
Louisville Seed Co.
The J. Chas. McCullough
Seed Co.

The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Geo. P. Sexauer & Son
J. H. Speers & Co., Ltd.
Stollers Seed House
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

RYE GRASS—ITALIAN

Albany Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Juan Curcija
Dakota Improved Seed Co.
Griscom & Co., Inc.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
John Mosbell Co.
Nebraska Seed Co.
Northrup, King & Co. (Bom-
berger Div.)
Philadelphia Seed Co., Inc.
Wm. G. Scarlett & Co.
Geo. P. Sexauer & Son
O. M. Scott & Sons Co.
The Stanford Seed Co., Ltd.
Steele, Briggs Seed Co., Ltd.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

RYE GRASS—PERENNIAL

The Ackerman Co.
The Bowman Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Craver-Dickinson Seed Co.
Juan Curcija
Duryea Seed Co., Inc.
Funk Bros. Seed Co.
Griscom & Co., Inc.
International Seed, Inc.
Jenks-White Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
John Mosbell Co.
Nebraska Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Ostberg Seed Co.
Philadelphia Seed Co., Inc.
A. S. Paterson & Coy, Ltd.
Seaboard Seed Co.
Wm. G. Scarlett & Co.
O. M. Scott & Sons Co.
Geo. P. Sexauer & Son
Snelson Seed Co.
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

ROSEN RYE

The Belt Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Chambers Seed Co., Inc.
Arthur R. Cone
Cornell Seed Co.
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Farmer Seed & Nursery Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
A. N. Levin, Seeds
Louisville Seed Co.
The J. Chas. McCullough
Seed Co.

Northrup, King & Co., Mpls.
The Page Seed Co.
The Philadelphia Seed Co.,
Inc.
Purcell Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Shultz Seed Co., Inc.
The Stanford Seed Co.
Stollers Seed House
Twin City Seed Co.
Owen T. Watts
F. H. Woodruff & Sons, Inc.

SAGRAIN

Cornell Seed Co.
R. E. Lambert & Sons
Robt. Nicholson Seed Co.

SEED GRAINS

Advance Seed Co.
Albany Seed Co.
C. H. Appel Commission Co.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Cargill, Inc.
Chambers Seed Co., Inc.
Arthur R. Cone
Condon Bros., Seedsmen
Cornell Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Funk Bros. Seed Co.
Globe Seed & Feed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
W. B. Johnston Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
A. N. Levin, Seeds
Louisville Seed Co.
Lucas Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
Dan McCoy Seed Co.
The J. Chas. McCullough
Seed Co.
Montana Seed Co.
The Nebraska Seed Co.
Northrup, King & Co., Mpls.
The O & M Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
Peterson-Biddick Co.
The Philadelphia Seed Co.,
Inc.
Purcell Seed Co.
Riemers' Farms
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Sedgwick Alfalfa Mills
Shuler & Smoak
Shultz Seed Co., Inc.
Snelson Seed Co.
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Stollers Seed House
Strayer Seed Farms
Tracy & Son Farms
Twin City Seed Co.
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

SERADELLA

Duryea Seed Co., Inc.
Julius Loewith, Inc.

SESBANIA

Advance Seed Co.
Capital Fuel, Feed & Seed Co.
Cuff-Archias Seed Co.
Dessert Seed Co.
Ferry-Morse Seed Co.
R. E. Lambert & Sons
Julius Loewith, Inc.
Northrup, King & Co.
(Bomberger Div.)
Reuter Seed Co., Inc.
Simpson Nursery Co.
Snelson Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma Co. Farmers Mktg.
Assn.

SLENDER WHEAT GRASS

Cargill, Inc.
Cornell Seed Co.
Albert Dickinson Co.
Farmers Union Grain & Sup-
ply Co.
F. Lagomarsino & Sons
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.

The J. Chas. McCullough
Seed Co.
Nebraska Seed Co.
Newday Seeds, Inc.
Pacific Supply Cooperative
Steele, Briggs Seed Co., Ltd.
Geo. P. Sexauer & Son
Stollers Seed House
Valker-Christensen Co.

SORGHUMS

Advance Seed Co.
The Barteldes Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Chambers Seed Co., Inc.
Condon Bros., Seedsmen
Cornell Seed Co.
The Albert Dickinson Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
Holmes Seed Co.
W. B. Johnston Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Northrup, King & Co.,
(Bomberger Div.)
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Purcell Seed Co.
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
F. F. Smith & Co., Inc.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Twin City Seed Co.
Valker-Christensen Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

SOYBEANS

The Ackerman Co.
C. H. Appel Commission Co.
The Atlantic Seed Co., Inc.
Hijos de S. V. Bellotti
The Belt Seed Co.
E. J. Beridon
N. Bonahoom Seed Co.
The Bowman Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Chambers Seed Co., Inc.
Arthur R. Cone
Condon Bros., Seedsmen
Cornell Seed Co.
Craver-Dickinson Seed Co.
Davenport Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Funk Bros. Seed Co.
Ging & Co.
Griscom & Co., Inc.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
A. N. Levin, Seeds
Julius Loewith, Inc.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
Dan McCoy Seed Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
National Seed Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
W. T. Nolin
Northwestern Seed Co.
L. L. Olds Seed Co.
The O & M Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed Co.
Peterson-Biddick Co.

The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
Riemers' Farms
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Schuler & Smoak
Shultz Seed Co., Inc.
Snelson Seed Co.
Sommer Bros. Seed Co.
The Stanford Seed Co.
Stollers Seed House
Strayer Seed Farms
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

SPURRY

Duryea Seed Co., Inc.
Julius Loewith, Inc.
Stollers Seed House

SUDAN GRASS

The Ackerman Co.
Advance Seed Co.
Albany Seed Co.
The Atlantic Seed Co., Inc.
The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
The Barteldes Seed Co.
Robert Buist Co.
C. S. Brent Seed Co.
Chambers Seed Co., Inc.
Dessert Seed Co.
The Albert Dickinson Co.
Capital Fuel, Feed & Seed
Co.
Cargill, Inc.
Arthur R. Cone
Cornell Seed Co.
Courteen Seed Co.
Craver-Dickinson Seed Co.
Crawfordsville Seed Co.
Juan Curcija
Dakota Improved Seed Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Jenks-White Seed Co.
W. B. Johnston Seed Co.
Keller Seed Store
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Land O'Lakes Creameries,
Inc.
Law, Somner Pty., Ltd.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bom-
berger Div.)
Northwestern Seed Co.
L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Paramount Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Sedgwick Alfalfa Mills
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
F. F. Smith & Co., Inc.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House

Transcontinental Seed, Inc.
Transit Grain & Com. Co.
Twin City Seed Co.
Valker-Christensen Co.
Vaughan's Seed Store
Owen T. Watts
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway
Yuma Co. Farmers Mktg.
Assn.

SUNFLOWER

C. H. Appel Commission Co.
Hijos de S. V. Bellotti
The Belt Seed Co.
The Bowman Seed Co.
Jos. Breck & Sons
Robert Buist Co.
Arthur R. Cone
Cornell Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
Dan McCoy Seed Co.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
Ouren Seed Co.
The Page Seed Co.
Paramount Seed Co.
The Philadelphia Seed Co.,
Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
Shultz Seed Co., Inc.
F. F. Smith & Co., Inc.
Snelson Seed Co.
The Stanford Seed Co.
Transcontinental Seed, Inc.
Twin City Seed Co.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

THISTLE

Cornell Seed Co.
Duryea Seed Co., Inc.
Chas. H. Lilly Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Robt. Nicholson Seed Co.
Wm. G. Scarlett & Co.

TIMOTHY

The Ackerman Co.
C. H. Appel Commission Co.
The Atlantic Seed Co., Inc.
The Barteldes Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Jos. Breck & Sons
Robt. Buist Co.
Cargill, Inc.
Roscoe J. Carl & Son
Chambers Seed Co., Inc.
Arthur R. Cone
Condon Bros., Seedsmen
Co-op. G. L. F. Mills, Inc.
Cornell Seed Co.
Courteen Seed Co.
Craver-Dickinson Seed Co.
Crawfordsville Seed Co.
Davenport Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
A. Ertag, Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Ging & Co.
Goldberg Seed & Feed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons, Inc.
Holmes Seed Co.
Edgar F. Hurff Co.
International Seed, Inc.
Jenks-White Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.

Land O'Lakes Creameries, Inc.
A. N. Levin, Seeds
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro., Inc.
H. J. Mayer
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough Seed Co.

Charles R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Newday Seeds, Inc.
Northern Canadian Seed Sales
Northern Field Seed Co.
Northrup, King & Co., Mpls.
Northrup, King, & Co., (Bomberger Div.)
Northwestern Seed Co., Inc.
Northwestern Seed Growers, Inc.

L. L. Olds Seed Co.
The O. & M. Seed Co.
Ouren Seed Co.
Pacific Supply Cooperative
The Page Seed Co.
Peppard Seed Co.
Peterson-Biddick Co.
The Philadelphia Seed Co., Inc.

Prunty Seed & Grain Co.
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed Co.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
The Stanford Seed Co.
Stollers Seed House
Strayer Seed Farms
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts

The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy, Ltd.
Young & Conway

TOBACCO SEED

C. S. Brent Seed Co.
Robt. Buist Co.
The Bowman Seed Co.
Corneli Seed Co.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Julius Loewith, Inc.
The J. Chas. McCullough Seed Co.
L. L. Olds Seed Co.
Shuler & Smoak
J. P. Snapp & Son
T. W. Wood & Sons

TREFOIL—BIRDSFOOT

The Belt Seed Co.
Arthur R. Cone
Duryea Seed Co., Inc.
A. Ertag, Inc.
Griscom & Co., Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro., Inc.
Northrup, King & Co.
(Bomberger Division)
Russell-Heckle Seed Co.
Snelson Seed Co.
Transcontinental Seed, Inc.
F. H. Woodruff & Sons, Inc.

TREFOIL—YELLOW

The Belt Seed Co.
C. S. Brent Seed Co.
Arthur R. Cone
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
A. Ertag, Inc.
International Seed, Inc.
Jenks-White Seed Co.
R. E. Lambert & Sons
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro., Inc.
H. J. Mayer
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Division)
Russell-Heckle Seed Co.
Snelson Seed Co.
The Stanford Seed Co.
Transcontinental Seed, Inc.
F. H. Woodruff & Sons, Inc.

VELVET BEANS

E. J. Beridon
Corneli Seed Co.
Griscom & Co., Inc.
R. E. Lambert & Sons
Robt. Nicholson Seed Co.
Reuter Seed Co., Inc.
Russell-Heckle Seed Co.
Shuler & Smoak
Snelson Seed Co.
T. W. Wood & Sons

VETCH—AUGUSTA

Duryea Seed Co., Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Simpson Nursery Co.

VETCH—HAIRY OR WINTER

Albany Seed Co.
The Atlantic Seed Co., Inc.
The Belt Seed Co.
E. J. Beridon
Jos. Breck & Sons
C. S. Brent Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Chambers Seed Co., Inc.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons
Holmes Seed Co.
Edgar F. Hurff Co.
International Seed, Inc.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Leckenby Seed Co.
A. N. Levin, Seeds
Lewis Seed Co.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro., Inc.

The J. Chas. McCullough Seed Co.
Chas. R. Moore
National Seed Co., Inc.
Robt. Nicholson Seed Co.
Northrup, King & Co.
(Bomberger Div.)

Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
Pacific Supply Cooperative
The Page Seed Co.
Paramount Seed Co.
The Philadelphia Seed Co., Inc.

I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
F. F. Smith & Co., Inc.
Snelson Seed Co.

The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

VETCH—SPRING OR COMMON

Albany Seed Co.
The Atlantic Seed Co., Inc.
The Belt Seed Co.
E. J. Beridon
Jos. Breck & Sons
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Chambers Seed Co., Inc.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Seed Co.

J. L. Donley & Bro.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
H. C. King & Sons, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Leckenby Seed Co.
A. N. Levin, Seeds

The Chas. H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro., Inc.
The J. Chas. McCullough Seed Co.
Charles R. Moore
National Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co., Mpls.
Northrup, King & Co.
(Bomberger Div.)

L. L. Olds Seed Co.
Pacific Supply Cooperative
The Page Seed Co.
Paramount Seed Co.
The Philadelphia Seed Co., Inc.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

VETCH—PANONICA

Albany Seed Co.
The Belt Seed Co.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Seed Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griscom & Co., Inc.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Leckenby Seed Co.
A. N. Levin, Seeds
The Charles H. Lilly Co.
Julius Loewith, Inc.
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro., Inc.

Charles R. Moore
National Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
The Page Seed Co.
Pacific Supply Cooperative
Paramount Seed Co.
The Philadelphia Seed Co., Inc.

I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

Charles R. Moore
National Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
The Page Seed Co.
Pacific Supply Cooperative
Paramount Seed Co.
The Philadelphia Seed Co., Inc.

I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

Charles R. Moore
National Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
The Page Seed Co.
Pacific Supply Cooperative
Paramount Seed Co.
The Philadelphia Seed Co., Inc.

I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

Charles R. Moore
National Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
The Page Seed Co.
Pacific Supply Cooperative
Paramount Seed Co.
The Philadelphia Seed Co., Inc.

I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

Charles R. Moore
National Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
The Page Seed Co.
Pacific Supply Cooperative
Paramount Seed Co.
The Philadelphia Seed Co., Inc.

I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

Charles R. Moore
National Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
The Page Seed Co.
Pacific Supply Cooperative
Paramount Seed Co.
The Philadelphia Seed Co., Inc.

I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
Seaboard Seed Co.
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Transcontinental Seed, Inc.
Twin City Seed Co.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

Charles R. Moore
National Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
The Page Seed Co.
Pacific Supply Cooperative
Paramount Seed Co.
The Philadelphia Seed Co., Inc.

Northern Canadian Seed Sales
Ouren Seed Co.
Pacific Supply Cooperative
Peppard Seed Co.
William G. Scarlett & Co.
Walter S. Schell, Inc.
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Sollers Seed House
Twin City Seed Co.
Valker-Christensen Co.
F. H. Woodruff & Sons, Inc.

YARROW

The Belt Seed Co.
Corneli Seed Co.
Duryea Seed Co., Inc.
Julius Loewith, Inc.
The J. Chas. McCullough Seed Co.
Chas. R. Moore
A. S. Paterson & Coy, Ltd.
I. L. Radwaner Seed Co., Inc.
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy, Ltd.

Wholesale Garden

ARTICHOKE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Robt. Buist Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co. (Jerusalem)
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Stollers Seed House
U. S. Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

ASPARAGUS

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Jos. Breck & Sons
Buckham Denholm & Holden Seed Co.
Robt. Buist Co.
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough Seed Co.

Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

BEANS—BUSH

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
C. S. Brent Seed Co.
Jos. Breck & Sons
The Bowman Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Co.
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Filer Seed Co.
G. E. Govier & Co., Ltd.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Haven Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.

Law, Somner Pty., Ltd.
Liefgreen Seed Co.
McCrea Seed Co., Inc.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Michael-Leonard Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Rogers Bros. Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
Washburn-Wilson Seed Co.
The Wetsel Seed Co., Inc.
Max F. Wilhelm, Seedsman
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.

BEANS—FAVA

Robt. Buist Co.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Corneli Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Chas. H. Lilly Co.
McCrea Seed Co., Inc.
Michael-Leonard Co.
Northrup, King & Co.
Stollers Seed House
U. S. Seed Co.
Zwaan & Van der Molen

BEANS—HORSE

Comstock, Ferre & Co.
Corneli Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Law, Somner Pty., Ltd.
The Chas. H. Lilly Co.
Northrup, King & Co.
A. S. Paterson & Coy, Ltd.
I. L. Radwaner Seed Co.
Rogers Bros. Seed Co.
Stollers Seed House
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

**BEANS—LIMA
(Bush and Pole)**

Associated Seed Growers,
Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Bowman Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robt. Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The Chas. H. Lilly Co.
McCrea Seed Co., Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Rogers Bros. Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
The Wetsel Seed Co., Inc.
Max F. Wilhelm, Seedsman
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.

BEANS—POLE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
Hijos de S. V. Bellotti
Jos. Breck & Sons
C. S. Brent Seed Co.

Alfred J. Brown Seed Co.
Robt. Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
McCrea Seed Co., Inc.
The J. Chas. McCullough
Seed Co.
Michael-Leonard Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Rogers Bros. Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
Washburn-Wilson Seed Co.
The Wetsel Seed Co., Inc.
Max F. Wilhelm, Seedsman
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

BEANS—RUNNER

Associated Seed Growers, Inc.
Barteldes Seed Co.
W. Atlee Burpee Co.
C. S. Brent Seed Co.
Comstock, Ferre & Co.
Corneli Seed Co.
Ferry-Morse Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
Law, Somner Pty., Ltd.
Chas. H. Lilly Co.
McCrea Seed Co., Inc.
Northrup, King & Co.
Shuler & Smoak
Max F. Wilhelm, Seedsman
T. W. Wood & Sons

BEET

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
Bodger Seeds, Ltd.
The Bowman Seed Co.
J. A. Boyce Co.
Braslan Seed Growers Co.,
Inc.
Jos. Breck & Sons
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robt. Buist Company
W. Atlee Burpee Co.
Alf. Christianson
Comstock, Ferre & Co.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
G. E. Govier & Co., Ltd.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
Leckenby Seed Co.
Liefgreen Seed Co.
The Chas. H. Lilly Co.
J. Chas. McCullough Seed Co.
Charles R. Moore
John Mosbell Co. (also Sugar
Beets)
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Waldo Rohnert Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Peter Sluis
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.

Vaughan's Seed Store
Washington Co-Oper. E. & P.
Assn.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
Zwaan & Van der Molen

BROCCOLI

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
J. A. Boyce Co.
Jos. Breck & Sons
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Liefgreen Seed Co.
J. M. Lupton & Son
The J. Chas. McCullough Seed
Co.
John Mosbell Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sluis & Groot of America, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
Zwaan & Van der Molen

BRUSSELS SPROUTS

Associated Seed Growers, Inc.
The Barteldes Seed Co.
J. A. Boyce Co.
Jos. Breck & Sons
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
J. M. Lupton & Son
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sluis & Groot of America, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

CABBAGE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
J. A. Boyce Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Alf. Christianson
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
G. E. Govier & Co., Ltd.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Bros.
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons

D. Landreth Seed Co.
Leckenby Seed Co.
Liefgreen Seed Co.
The Chas. H. Lilly Co.
J. M. Lupton & Son
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
The Page Seed Co.
Rex D. Pearce (Chinese)
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis
Sluis & Groot of America, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
Washington Coop. E. & P.
Assn.
The Wetsel Seed Co., Inc.
Wisconsin Cabbage Seed Co.
(Yellows Resistant)
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
Zwaan & Van der Molen

CANTALOUPE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Bowman Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robt. Buist Company
Burgess Seed & Plant Co.
Burrell Seeds, Inc.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
H. D. Garwood Seed Co.
D. H. Gilbert Seed Co., Inc.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
H. C. King & Sons
F. Lagomarsino & Sons
D. Landreth Seed Co.
Liefgreen Seed Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
The J. C. Robinson Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

CARROT

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
Bodger Seeds, Ltd.
The Bowman Seed Co.
Braslan Seed Growers Co.,
Inc.
Jos. Breck & Sons
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robt. Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
G. E. Govier & Co., Ltd.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Liefgreen Seed Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough Seed
Co.

Mark Means Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Paramount Seed Co.
 Geo. R. Pedrick & Sons
 Pieters-Wheeler Seed Co.
 L. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Waldo Rohnert Co.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Walter Schell, Inc.
 Sherwood Seed Co.
 Sluis & Groot of America, Inc.
 F. F. Smith & Co., Inc.
 Standard Seed Farms Co.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 Washington Coop. E. & P.
 Assn.
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 S. D. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

CAULIFLOWER

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Hijos de S. V. Bellotti
 J. A. Boyce Co.
 Jos. Breck & Sons
 Alfred J. Brown Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 Crosman Seed Corp.
 Dessert Seed Co.
 Ferry-Morse Seed Co.
 G. E. Govier & Co., Ltd.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 Kelly Seed Co.
 Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Liefgreen Seed Co.
 The Chas. H. Lilly Co.
 J. M. Lupton & Son
 The J. Chas. McCullough Seed
 Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Walter S. Schell, Inc.
 Sluis & Groot of America, Inc.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

CELERIAC

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Jos. Breck & Sons
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 Crosman Seed Corp.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 Kelly Seed Co.
 Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The J. Chas. McCullough Seed
 Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 L. L. Olds Seed Co.
 Geo. R. Pedrick & Sons
 Pieters-Wheeler Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Waldo Rohnert Co.
 Walter S. Schell, Inc.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

CELERY

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Braslan Seed Growers Co.,
 Inc.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 Chas. C. Hart Seed Co.
 Kelly Seed Co.
 H. C. King & Sons
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The J. Chas. McCullough Seed
 Co.

Michael-Leonard Co.
 John Mosbell Co.
 Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 Page Seed Co.
 Pieters-Wheeler Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Waldo Rohnert Co.
 Sherwood Seed Co.
 Shuler & Smoak
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

CHICORY

Aggeler & Musser Seed Co.
 Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 J. A. Boyce Co.
 Jos. Breck & Sons
 Robert Buist Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Crosman Seed Corp.
 Dessert Seed Co.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 Kelly Seed Co.
 Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 L. L. Olds Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Waldo Rohnert Co.
 Walter S. Schell, Inc.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 F. H. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

COLLARD

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Jos. Breck & Sons
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Crosman Seed Corp.
 Ferry-Morse Seed Co.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 Kelly Seed Co.
 Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The J. Chas. McCullough Seed
 Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 L. L. Olds Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 U. S. Seed Co.
 Vaughan's Seed Store
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

CORN SALAD

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Robert Buist Co.
 Comstock, Ferre & Co.
 Corneli Seed Co.
 Ferry-Morse Seed Co.
 Hamilton Seed & Coal Co.
 Kelly Seed Co.

Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The J. Chas. McCullough Seed
 Co.
 Michael-Leonard Co.
 Chas. R. Moore
 Nebraska Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 U. S. Seed Co.
 Vaughan's Seed Store
 T. W. Wood & Sons
 Zwaan & Van der Molen

CORN—SWEET

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 The Bowman Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Alfred J. Brown Seed Co.
 Robert Buist Company
 Burgess Seed & Plant Co.
 W. Atlee Burpee Co.
 C. S. Clark & Sons
 Comstock, Ferre & Co.
 Arthur R. Cone
 Condon Bros., Seedsmen
 Corneli Seed Company
 Council Bluffs Seed Co.
 Crosman Seed Corp.
 Farmer Seed & Nursery Co.
 Ferry-Morse Seed Co.
 G. E. Govier & Co., Ltd.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 Jacques Seed Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Liefgreen Seed Co.
 McCabe Bros. Grain Co., Ltd.
 The J. Chas. McCullough Seed
 Co.
 Michael-Leonard Co.
 Charles R. Moore
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 O & M Seed Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 J. C. Robinson Seed Co.
 Rogers Bros. Seed Co.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 S. D. Woodruff & Sons, Inc.

CORN (Hybrid)

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 The Bowman Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 C. S. Clark & Sons
 Condon Bros., Seedsmen
 Comstock, Ferre & Co.
 Corneli Seed Company
 Council Bluffs Seed Co.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 Chas. C. Hart Seed Co.
 Jacques Seed Co.
 Kelly Seed Co.
 H. C. King & Sons
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The J. Chas. McCullough Seed
 Co.
 Michael-Leonard Co.
 Chas. R. Moore
 Robt. Nicholson Seed Co.
 Nebraska Seed Co.
 Northrup, King & Co.
 O & M Seed Co.
 Edgar L. Oakes & Co.
 L. L. Olds Seed Co.
 Page Seed Co.
 I. L. Radwaner Seed Co., Inc.
 J. C. Robinson Seed Co.
 Rogers Bros. Seed Co.
 Stanford Seed Co.
 Stollers Seed House
 U. S. Seed Co.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

CRESS

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Jos. Breck & Sons
 Robert Buist Company
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen

Corneli Seed Co.
 Crosman Seed Corp.
 Ferry-Morse Seed Co.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 L. L. Olds Seed Co.
 Rex D. Pearce
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Walter S. Schell, Inc.
 Peter Sluis
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 T. W. Wood & Sons
 F. W. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

CUCUMBER

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Hijos de S. V. Bellotti
 The Bowman Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Alfred J. Brown Seed Co.
 Robert Buist Company
 Burgess Seed & Plant Co.
 W. Atlee Burpee Co.
 Burrell Seeds, Inc.
 Comstock, Ferre & Co.
 Arthur R. Cone
 Condon Bros., Seedsmen
 Corneli Seed Company
 Crosman Seed Corp.
 Ferry-Morse Seed Co.
 H. D. Garwood Seed Co.
 G. E. Govier & Co., Ltd.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 Edgar F. Hurff Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Liefgreen Seed Co.
 The J. Chas. McCullough
 Seed Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 The J. C. Robinson Seed Co.
 Lawrence Robinson & Sons
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 S. D. Woodruff & Sons, Inc.

DANDELION

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Jos. Breck & Sons
 Robert Buist Co.
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Crosman Seed Corp.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 L. L. Olds Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Walter S. Schell, Inc.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 F. H. Woodruff & Sons, Inc.

DILL

Associated Seed Growers, Inc.
 Pieters-Wheeler Seed Co.
 Waldo Rohnert Co.

EGG PLANT

Aggeler & Musser Seed Co.
 Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 The Bowman Seed Co.
 Jos. Breck & Sons
 Alfred J. Brown Seed Co.

Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crossman Seed Corp.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Rex D. Pearce
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
J. P. Snapp & Son
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.

ENDIVE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
Jos. Breck & Sons
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crossman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Company
Robert Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co., Inc.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Waldo Rohnert Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
Sluis & Groot of America, Inc.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

GOURD

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Bodger Seeds, Ltd.
Buckman, Denholm & Holden
Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crossman Seed Corp.
Ferry-Morse Seed Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough
Seed Co.
Charles R. Moore
The Nebraska Seed Company
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
The J. C. Robinson Seed Co.
Lawrence Robinson & Sons
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store

HERBS

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
Jos. Breck & Sons
Buckman, Denholm & Holden
Seed Co.
Robert Buist Company
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crossman Seed Corp.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Company
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Rex D. Pearce
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
(Dill only)
I. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co. (Dill)
Walter S. Schell, Inc.
Standard Seed Farms Co.
(Sweet Basil)
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

KALE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
J. A. Boyce Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crossman Seed Corp.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
The Chas. H. Lilly Co.
J. M. Lupton & Son
D. R. Mayo Seed Co.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Rex D. Pearce
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
Washington Coop. E & P.
Assn.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
Zwaan & Van der Molen

KOHLRABI

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
J. A. Boyce Co.
Jos. Breck & Sons
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crossman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby

F. Lagomarsino & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
The Chas. H. Lilly Co.
J. M. Lupton & Son
The J. Chas. McCullough
Seed Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Company
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sluis & Groot of America, Inc.
U. S. Seed Co.
Vaughan's Seed Store
Washington Coop. E. & P.
Assn.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

LEEK

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
Bodger Seeds, Ltd.
Jos. Breck & Sons
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crossman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
G. E. Govier & Co., Ltd.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Company
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co.
Walter S. Schell, Inc.
Sluis & Groot of America, Inc.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

LETTUCE

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Bowman Seed Co.
Braslan Seed Growers Co.,
Inc.
Jos. Breck & Sons
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Arthur R. Cone
Corneli Seed Company
Crossman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
G. E. Govier & Co., Ltd.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Liefgreen Seed Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.
Reuter Seed Co., Inc.
Waldo Rohnert Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sluis & Groot of America, Inc.

Sherwood Seed Co.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.

MANGEL

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
J. A. Boyce Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Robert Buist Company
Alf Christianson
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crossman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
The Chas. H. Lilly Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
John Mosbell Co.
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sluis & Groot of America, Inc.
Peter Sluis
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
Washington Coop. E. & P.
Assn.
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

MUSKMELON

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Bowman Seed Co.
Jos. Breck & Sons
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
Burgess Seed & Plant Co.
W. Atlee Burpee Co.
Burrell Seeds, Inc.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crossman Seed Corp.
Dessert Seed Co.
Ferry-Morse Seed Co.
H. D. Garwood Seed Co.
Griscom & Co., Inc.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth Seed Co.
Liefgreen Seed Co.
The J. Chas. McCullough Seed
Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
The Page Seed Co.
Paramount Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
The J. C. Robinson Seed Co.
Lawrence Robinson & Sons
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
The Wetsel Seed Co., Inc.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

MUSTARD

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Bowman Seed Co.
J. A. Boyce Co.

Jos. Breck & Sons
 C. S. Brent Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Crosman Seed Corp.
 A. Ertag, Inc.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 Edgar F. Hurff Co.
 Kelly Seed Co.
 Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Leckenby Seed Co.
 The Chas. H. Lilly Co.
 The J. Chas. McCullough Seed Co.
 Mark Means Co.
 D. R. Mayo Seed Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northwestern Seed Growers, Inc.
 L. L. Olds Seed Co.
 Geo. R. Pedrick & Sons
 Pieters-Wheeler Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Waldo Rohnert Co.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 Sherwood Seed Co.
 Standard Seed Farms Co.
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

MUSTARD—CHINESE

Associated Seed Growers, Inc.
 Barteldes Seed Co.
 C. S. Brent Seed Co.
 J. A. Boyce Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Corneli Seed Co.
 Ferry-Morse Seed Co.
 Hamilton Seed & Coal Co.
 Chas. C. Hart Seed Co.
 Herbst Brothers
 Kelly Seed Co.
 Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Michael-Leonard Co.
 Chas. R. Moore
 John Mosbell Co.
 Nebraska Seed Co.
 Robert Nicholson Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 Pieters-Wheeler Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Waldo Rohnert Co.
 Sherwood Seed Co.
 Stollers Seed House
 Vaughan's Seed Store
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

OKRA

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 Crosman Seed Corp.
 Dessert Seed Co.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The J. Chas. McCullough Seed Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 L. L. Olds Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 U. S. Seed Co.
 Vaughan's Seed Store
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

ONION SEED

Aggeler & Musser Seed Co.
 Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Bodger Seeds, Ltd.
 Hijos de S. V. Bellotti
 Braslan Seed Growers Co., Inc.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Alfred J. Brown Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Burrell Seeds, Inc.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 Crosman Seed Corp.
 Juan Curcija
 Dessert Seed Co.
 Ferry-Morse Seed Co.
 H. D. Garwood Seed Co.
 G. E. Govier & Co., Ltd.
 Griscom & Co., Inc.
 Hamilton Seeds & Coal Co.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Hollenbach's Seed Store
 Holmes Seed Co.
 Keller Seed Store
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Liefgreen Seed Co.
 The Chas. H. Lilly Co.
 The J. Chas. McCullough Seed Co.

Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Paramount Seed Co.
 Geo. R. Pedrick & Sons
 Pieters-Wheeler Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Martin Rispens Seed Store
 Waldo Rohnert Co.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 Sherwood Seed Co.
 Sluis & Groot of America, Inc.
 F. F. Smith & Co., Inc.
 Standard Seed Farms Co.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 Washington Coop. E. & P. Assn.
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 S. D. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

ONION SETS

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Alfred J. Brown Seed Co.
 Robert Buist Company
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 Dessert Seed Co.
 Ferry-Morse Seed Co.
 Griswold Seed & Nursery Co.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Hollenbach's Seed Store
 Holmes Seed Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Liefgreen Seed Co.
 The Chas. H. Lilly Co.
 The J. Chas. McCullough Seed Co.
 Michael-Leonard Co.
 Charles R. Moore
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Martin Rispens Seed Store
 Waldo Rohnert Co.
 (onion bulb)
 Russell-Heckle Seed Co.
 William G. Scarlett & Co.
 Walter S. Schell, Inc.
 J. P. Snapp & Son
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 S. D. Woodruff & Sons, Inc.

PARSLEY

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 The Bowman Seed Co.
 Jos. Breck & Sons

C. S. Brent Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Crosman Seed Corp.
 Dessert Seed Co.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 Kelly Seed Co.
 Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The J. Chas. McCullough Seed Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 The Page Seed Company
 Geo. R. Pedrick & Sons
 Pieters-Wheeler Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Waldo Rohnert Co.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 Sherwood Seed Co.
 Standard Seed Farms Co.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 S. D. Woodruff & Sons, Inc.
 Zwaan & Van der Molen.

PARSNIP

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 The Bowman Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Crosman Seed Corp.
 Dessert Seed Co.
 Ferry-Morse Seed Co.
 G. E. Govier & Co., Ltd.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 Kelly Seed Co.
 Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Law, Somner Pty., Ltd.
 The Chas. H. Lilly Co.
 The J. Chas. McCullough Seed Co.

Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Paramount Seed Co.
 Rex D. Pearce
 Geo. R. Pedrick & Sons
 Pieters-Wheeler Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Waldo Rohnert Co.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 Sherwood Seed Co.
 Standard Seed Farms Co.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 Washington Coop. E. & P. Assn.
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 S. D. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

PEANUTS

The Barteldes Seed Co.
 The Bowman Seed Co.
 W. Atlee Burpee Co.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Ferry-Morse Seed Co.
 Holmes Seed Co.
 Keller Seed Store
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The J. Chas. McCullough Seed Co.
 The Nebraska Seed Co.
 Robert Nicholson Seed Co.
 L. L. Olds Seed Co.

Geo. R. Pedrick & Sons
 Prunty Seed & Grain Co.
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 Snelson Seed Co.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons

PEAS

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Hijos de S. V. Bellotti
 The Bowman Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Alfred J. Brown Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Arthur R. Cone
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Crosman Seed Corp.
 A. Ertag, Inc.
 Ferry-Morse Seed Co.
 Filer Seed Co.
 G. E. Govier & Co., Ltd.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 Edgar F. Hurff Co.
 Keller Seed Store
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Law, Somner Pty., Ltd.
 The Chas. H. Lilly Co.
 McCabe Bros. Grain Co., Ltd.
 The J. Chas. McCullough Seed Co.

Mark Means Co.
 Charles R. Moore
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Paramount Seed Co.
 A. S. Paterson & Coy, Ltd.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Rogers Bros. Seed Co.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 Sherwood Seed Co.
 F. F. Smith & Co., Inc.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 Washburn-Wilson Seed Co.
 The Wetsel Seed Co., Inc.
 Max F. Wilhelm, Seedsmen
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 S. D. Woodruff & Sons, Inc.
 Wright, Stephenson & Coy, Ltd.
 Zwaan & Van der Molen

PEAS—BLACKEYE

Associated Seed Growers, Inc.
 The J. Chas. McCullough Seed Co.
 T. W. Wood & Sons

PEPPER

Aggeler & Musser Seed Co.
 Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Hijos de S. V. Bellotti
 The Bowman Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Alfred J. Brown Seed Co.
 Robert Buist Company
 Burgess Seed & Plant Co.
 W. Atlee Burpee Co.
 Burrell Seeds, Inc.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Crosman Seed Corp.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 Edgar F. Hurff Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The J. Chas. McCullough Seed Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Rex D. Pearce

Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 J. P. Snapp & Son
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 Joseph White Co.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 S. D. Woodruff & Sons, Inc.

POPPY SEED

Barteldes Seed Co.
 Alfred J. Brown Seed Co.
 Comstock, Ferre & Co.
 Corneli Seed Co.
 Ferry-Morse Seed Co.
 Hamilton Seed & Coal Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 Chas. H. Lilly Co.
 The J. Chas. McCullough Seed Co.
 Michael-Leonard Co.
 Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Shuler & Smoak
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 T. W. Wood & Sons

POTATO—SEED

The Barteldes Seed Co.
 Burgess Seed & Plant Co.
 Condon Bros., Seedsmen
 Ferry-Morse Seed Co.
 Hamilton Seed & Coal Co.
 Holmes Seed Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 Liefgreen Seed Co.
 McCabe Bros. Grain Co.
 The Nebraska Seed Co.
 L. L. Olds Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 S. D. Woodruff & Sons, Inc.

PUMPKIN

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 The Bowman Seed Co.
 Jos. Breck & Sons
 C. S. Brent Seed Co.
 Alfred J. Brown Seed Co.
 Robert Buist Company
 Burgess Seed & Plant Co.
 W. Atlee Burpee Co.
 Burrell Seeds, Inc.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 Crosman Seed Corp.
 Ferry-Morse Seed Co.
 H. D. Garwood Seed Co.
 G. E. Govier & Co., Ltd.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. Hart Seed Co.
 Holmes Seed Co.
 Edgar F. Hurff Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The J. Chas. McCullough Seed Co.
 Charles R. Moore
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 The J. C. Robinson Seed Co.
 Lawrence Robinson & Sons
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 J. P. Snapp & Son
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

RADISH

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Hijos de S. V. Bellotti
 The Bowman Seed Co.
 J. A. Boyce Co.

Jos. Breck & Sons
 C. S. Brent Seed Co.
 Alfred J. Brown Seed Co.
 Robert Buist Company
 Burgess Seed & Plant Co.
 W. Atlee Burpee Co.
 Burrell Seeds, Inc.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 Crosman Seed Corp.
 Dessert Seed Co.
 Ferry-Morse Seed Co.
 G. E. Govier & Co., Ltd.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 Kelly Seed Co.
 Norval E. Kirby
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 The Chas. H. Lilly Co.
 The J. Chas. McCullough Seed Co.
 Michael-Leonard Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Robt. Nicholson Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 The Page Seed Co.
 Paramount Seed Co.
 Geo. R. Pedrick & Sons
 Pieters-Wheeler Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Reuter Seed Co., Inc.
 Waldo Rohnert Co.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Walter S. Schell, Inc.
 Sherwood Seed Co.
 Standard Seed Farms Co.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 S. D. Woodruff & Sons, Inc.
 Zwaan & Van der Molen

RHUBARB

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 The Bowman Seed Co.
 Jos. Breck & Sons
 Robert Buist Company
 Burgess Seed & Plant Co.
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 Crosman Seed Corp.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Herbst Brothers
 Holmes Seed Co.
 Edgar F. Hurff Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Charles R. Moore
 John Mosbell Co.
 The Nebraska Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 Geo. R. Pedrick & Sons
 I. L. Radwaner Seed Co., Inc.
 Rudy-Patrick Seed Co.
 Walter S. Schell, Inc.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 The Wetsel Seed Co., Inc.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

ROOT SEEDS

Associated Seed Growers, Inc.
 J. A. Boyce Co.
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Corneli Seed Co.
 Ferry-Morse Seed Co.
 Hamilton Seed & Coal Co.
 Herbst Brothers
 Kelly Seed Co.
 F. Lagomarsino & Sons
 D. Landreth Seed Co.
 Chas. H. Lilly Co.
 The J. Chas. McCullough Seed Co.
 Michael-Leonard Co.
 Chas. R. Moore
 John Mosbell Co.
 Nebraska Seed Co.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 I. L. Radwaner Seed Co., Inc.
 Stollers Seed House
 U. S. Seed Co.
 Vaughan's Seed Store
 F. H. Woodruff & Sons, Inc.

RUTABAGA

Aggeler & Musser Seed Co.
 Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 J. A. Boyce Co.
 Jos. Breck & Sons
 Robert Buist Company
 W. Atlee Burpee Co.
 Alf Christianson
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Crosman Seed Corp.
 Dessert Seed Co.
 Ferry-Morse Seed Co.
 Griscom & Co., Inc.
 Hamilton Seed & Coal Co.
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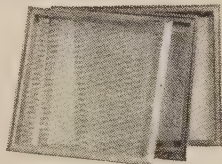


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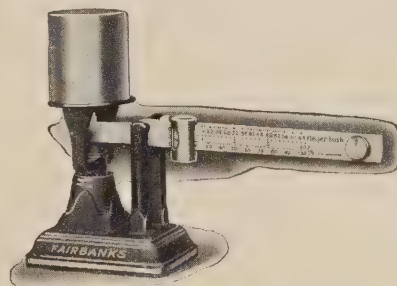
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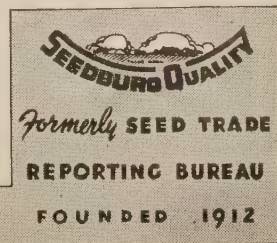
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Noxious Weeds of United States

The weeds considered noxious by the states and the District of Columbia are given in the following list. There is considerable variation in the common names used for the same weeds in different parts of the country and in all cases the scientific names given do not clear up this confusion. Listed under the most commonly used names will be found the states legislating against that particular weed or species (spp.) of weeds. No effort has been made to show how the weeds are classified or legislated against by the states, this may be obtained from the State Seed Laws (see page 106 and following).

Compiled by

L. J. LA PINE

Commercial Seed Analyst

A

- Alkali mallow (*Sida hederacea*). See Mallow, alkali.
 Alyssum, Hoary (*Berteroa incana*). See Hoary alyssum.
 Australian burnweed (*Erechtites prenanthoides*). See Burnweed, Australian.
 Austrian fieldcress (*Radicula austriaca*, *Rorippa austriaca*). See Fieldcress, Austrian.
 Austrian peaweed (*Swainsona salsula*). Colo., Wyo.

B

- Ball cress (*Hymenophyza pubescens*). See Hoary cress.
 Ball mustard (*Neslia paniculata*). See Mustard, ball.
 Barley, wild (*Hordeum jubatum*, *H. murinum*) Squirrel-tail grass. Ariz.
 Bassia, five-hook (*Bassia hyssopifolia*). Nev.
 Bearded darnell (*Lolium temulentum*). See Darnell, bearded.
 Bermuda grass (*Cynodon dactylon*, *Capriola dactylon*) Wire grass. Ala., Ark., Cal., Fla., Ga., Md., Miss., Tex., U., Va., D. C.
 Big mouse-ear (*Cerastium vulgatum*). See Chickweed, big mouse-ear.
 Bindweed, field (*Convolvulus arvensis*)
 Creeping Jennie, Morning-glory, Tievine, Wild morning-glory. Ala., Ariz., Ark., Cal., Colo., Fla., Ga. (spp), Ida., Ill., Ind., Ia., Kan., La., Me., Md., Mich., Minn., Miss., Mo., Mont., Neb., Nev., N. H., N. C., N. Dak., Okla., Ore., Pa. (spp), S. Dak., Tenn., Tex. (spp), U., Wash., Wis., Wyo., D. C.
 Bindweed, hedge (*Convolvulus sepium*)
 Wild morning-glory. Ark., Ga. (spp), Ida., Kan., Okla., Pa. (spp), S. Dak., Tex. (spp), Wash.
 Bitter dock (*Rumex obtusifolius*). See Dock, bitter.
 Bitterweed (*Helenium tenuifolium*). Ga.
 Bitter wintercress (*Campe barbarea*). See Wintercress, bitter.
 Black-eye Susan (*Rudbeckia hirta*) Ox-eye daisy. La.
 Black mustard (*Brassica nigra*). See Mustard, black.
 Black nightshade (*Solanum nigrum*). See Nightshade, black.
 Black seeded plantain (*Plantago rugelii*). See Plantain, black seeded.
 Bladder campion (*Silene latifolia*). See Campion, bladder.
 Blue bur (*Lappula echinata*). See Stickseed.

- Blue flowering lettuce (*Lactuca pulchella*). See Lettuce, blue flowering.
 Blue sunflower (*Helianthus ciliaris*). See Blueweed, Texas.
 Blueweed (*Echium vulgare*). Me.
 Blueweed, Texas (*Helianthus ciliaris*)
 Blue sunflower. Ariz., Cal., Okla., Tex.
 Bottle bush plantain (*Plantago aristata*). See Plantain, bracted.
 Bracted plantain (*Plantago aristata*). See Plantain, bracted.
 Buckhorn plantain (*Plantago lanceolata*) English plantain. Ala., Ariz., Ark., Colo., Del., Conn. (spp), Fla., Ga. (spp), Ida., Ill., Ind., Ia., Kan., Ky., La., Me., Mass., Minn., Miss. (spp), Mo. (spp), O. (spp), Okla., Ore., R. I., Tex., Tenn., Wash. (spp), W. Va., Wis.
 Buckwheat, wild (*Polygonum convolvulus*). Okla.
 Buffalo bur (*Solanum rostratum*). Nev., Okla. (spp).
 Bull nettle (*Solanum carolinense*). See Horse nettle.
 Bullthistle (*Cirsium lanceolatum*). U.
 Burdock, smaller (*Arctium minus*). U.
 Bur buttercup (*Ronuneulus testicalatus*). See Buttercup, bur.
 Bur grass (*Cenchrus pauciflorus*). See Sand bur.
 Burnweed, Australian (*Erechtites prenanthoides*) Fireweed. Ore.
 Buttercup, bur (*Ronuneulus testicalatus*). U.
 Butterprint (*Abutilon theophrasti*). Ia.

C

- Camelthorn (*Alhagi camelorum*). Ariz., Cal., Nev., Wash., Wyo.
 Campion, bladder (*Silene latifolia*). Me.
 Campion, white (*Lychnis alba*). Me.
 Canada thistle (*Cirsium arvense*, *Carduus arvensis*). Ariz., Cal., Colo., Conn., Del., Ga., Ida., Ill., Ind., Ia., Kan., Ky., Me., Md., Mass., Mich., Minn., Mo., Mont., Neb., Nev., N. H., N. J., N. Y., N. Dak., O., Okla., Ore., Pa., R. I., S. C., S. Dak., Tenn., U., Va., Wash., W. Va., Wis., Wyo., D. C.
 Carrot, wild (*Daucus carota*). Ill., Ind., Ia., Kan., Me., Mich., Mo., O., Okla., R. I., S. Dak., W. Va.
 Catchfly, night-flowering (*Silene noctiflora*). Me.
 Cats-ear, spotted (*Hypochaeris radicata*). Ore.
 Charlock (*Brassica arvensis*). See Mustard, wild.
 Cheat } (*Bromus secalinus*, *B. commu-*
 Chess }

- tatus). Ala., Ark., Fla., Ga. (spp), Kan. (spp), La., N. C., Okla., S. C., Tex.
 Chickweed, big mouse-ear (*Cerastium vulgatum*). Ore.
 Chicory, wild (*Circhorium intybus*). Me., O.
 Clustered dock (*Rumex conglomeratus*). See Dock, green.
 Cocklebur (*Xanthium*, spp.). U.
 Cocklebur (*Xanthium commune*). U. (spp).
 Coco grass (*Cyperus rotundus*). See Nutgrass.
 Coffee weed (*Cassia tora*). Ga.
 Common plantain (*Plantago major*). See Plantain, common.
 Common ragweed (*Ambrosia artemisiifolia*). See Ragweed, common.
 Common sowthistle (*Sonchus oleraceus*). See Sowthistle, common.
 Corncockle (*Agrostemma githago*). Ala., Ark., Del., Fla., Ga., Ida., Ind., Ky., Me., N. C., O., Okla., Ore., R. I., S. C., Tenn., Vt., Wash., W. Va.
 Cowcockle (*Saponaria vaccaria*, *Vaccaria pyramidata*) Cow-herb. Me., Ore.
 Cow-herb (*Saponaria vaccaria*). See Cowcockle.
 Crabgrass, smooth (*Digitaria ischaemum*). Nev., N. Y. (spp), U.
 Crabgrass (*Digitaria sanguinalis*). Nev., N. H., N. Y. (spp), R. I. (spp).
 Creeping Jennie (*Convolvulus arvensis*). See Bindweed, field.
 Cress, hoary (*Lepidium draba*, *L. repens*). See Hoary cress.
 Curly dock (*Rumex crispus*). See Dock, curly.

D

- Daisy fleabane (*Erigeron ramosus*). See Fleabane, daisy.
 Daisy, oxeye (*Chrysanthemum leucanthemum*). See Oxeye daisy.
 Dandelion (*Leontodon* spp). Ore.
 Darnel (*Lolium temulentum*). Ala., Ark., Fla., Ga., La., Me., Okla., Tex.
 Deathweed (*Iva axillaris*). See Povertyweed.
 Devil's paintbrush (*Hieracium aurantiacum*). See Hawkweed, orange.
 Dock, bitter (*Rumex obtusifolius*).
 Broad-leaf dock.
 Large dock. Ark., Fla., Kan. (spp), La., Me., Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), Okla. (spp), R. I. (spp), Wash. (spp).
 Dock, curly (*Rumex crispus*) Sour dock, Yellow dock. Ala., Ark., Colo., Conn.,

Fla., Ill., Ind., Ia., Kan. (spp), Me., Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), Okla. (spp), R. I. (spp), Tex., Wash. (spp).

Dock, green (*Rumex conglomeratus*). Clustered dock. Kan. (spp), Me., Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), Okla. (spp), R. I. (spp), Wash. (spp).

Dock, smooth (*Rumex altissimus*). Ia., Kan. (spp), Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), Okla. (spp), R. I. (spp), Wash. (spp).

Dock, sour (*Rumex acetosa*). Kan. (spp), Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), Okla. (spp), R. I. (spp), Wash. (spp).

Dock, yellow (*Rumex crispus*). See Dock, curly.

Dodder (*Cuscuta* spp). Ala., Ariz., Ark., Cal., Colo., Conn., Del., Fla., Ga., Ida., Ill., Ind., Ia., Kan., Ky., Me., Md., Mass., Mich., Minn., Miss., Mo., Mont., Neb., Nev., N. H., N. J., N. M., N. Y., N. C., N. Dak. (except coryli), O., Okla., Ore., Pa., R. I., S. C., S. Dak. (except coryli), Tenn., Tex., U., Vt., Va., Wash., W. Va., Wis., Wyo.

Dogbane, spreading (*Apocynum androsaemifolium*). Wyo.

Dog fennel, La.

E

Elder, Marsh. See Marsh elder.

English plantain (*Plantago lanceolata*). See Buckhorn.

English charlock (*Brassica arvensis*). See Mustard, wild.

Ergot (*Claviceps* spp). Vt.

F

False flax (*Camelina sativa*). Me.

False flax, small-seeded (*Camelina microcarpa*). Me.

Fanweed (*Thlaspi arvense*). See Pennycress, field.

Fennel, dog. See Dog fennel.

Fieldcress, Austrian (*Rorippa austriaca*, *Radicula austriaca*). Cal., Minn., Nev., Ore., Wash., Wyo.

Field madder (*Sherardia arvensis*). Ore.

Field pennycress (*Thlaspi arvense*). See Pennycress, field.

Field peppergrass (*Lepidium campentre*). See Peppergrass, field.

Fireweed (*Erechtites prenanthoides*). See Burnweed, Australian.

Five-hook Bassia (*Bassia hyssopifolia*). See Bassia, five-hook.

Fleabane, daisy (*Erigeron ramosus*, *E. strigosus*) White top. Me.

Flowering spurge (*Euphorbia corollata*). See Spurge, flowering.

Franseria povertyweed (*Franseria tenuifolia*). See Povertyweed, franseria.

Franseria, whiteleaved (*Franseria discolor*). See Povertyweed, silverleaf.

Frenchweed (*Thlaspi arvense*). See Pennycress, field.

G

Galinsoga (*Ginsoga parviflora*). W. Va.

Garlic, wild (*Allium vineale*). See Onion, wild.

Gaura, hairy (*Gaura villosa*). Cal.

Gaura, scarlet (*Gaura coccinea*). Cal.

Gaura, scented (*Gaura odorata*). Cal.

Gaura, wavy-leaved (*Gaura sinuata*). Cal.

Globe podded ball cress (*Hymenophyssa pubescens*). See Hoary cress.

Goat weed (*Hypericum perforatum*). See St. Johnswort.

Great ragweed (*Ambrosia trifida*). See Ragweed, great.

Groundcherry, perennial (*Physalis subglabrata*). Ida., Wash.

Ground-cherry, purple flowered (*Quin-cula lobata*). Colo.

H

Hairy gaura, (*Gaura villosa*). See Gaura, hairy.

Hare's-ear-mustard (*Conringia orientalis*). Me.

Hawkweed, orange (*Hieracium aurantiacum*) Devil's paintbrush. Conn. (spp), Me., Miss., Pa., Va. (spp), W. Va. (spp).

Hedge bindweed (*Convolvulus sepium*). See Bindweed, hedge.

Hemlock, poison (*Conium maculatum*). See Poison hemlock.

Hoary alyssum (*Berteroa incana*). Mich., Minn.

Hoary cress (*Lepidium draba*, *L. repens*) Perennial peppergrass, White top. Ariz., Cal., Colo., Ida., Ill., Ia., Kan., Minn., Mont., Neb., Nev., N. Dak., Ore., S. Dak., U., Wash., Wyo.

Hoary cress (*Hymenophyssa pubescens*) Ball cress, Globe podded ball cress, Hairy white top. Ariz., Cal., Colo., Ida., Mont., Nev., N. Dak., Ore., Wash.

Horsenettle (*Solanum carolinense*) Bull nettle. Ala., Ariz., Cal., Fla., Ill., Ind., Ia., Kan., Minn., Nev., N. J., Okla. (spp), Pa., S. D., Wyo.

Horsenettle, white (*Solanum elaeagnifolium*). Ariz., Cal., Colo., Nev., Okla. (spp).

I

Iberian star-thistle (*Centaurea iberica*). See Star-thistle, Iberian.

Indian mustard (*Brassica juncea*). See Mustard, Indian.

Ivy leaved morning-glory (*Ipomoea hederacea*). See Morning-glory, ivy leaved.

J

Johnson grass (*Sorghum halepense*). Ala., Ariz., Ark., Cal., Fla., Ga., Ill., Ind., Kan., Ky., La., Md., Miss., Mo., N. C., Okla., Ore., S. C., Tenn., Tex., Va., W. Va.

K

King devil weed (*Hieracium pratense*). Conn. (spp), Me., Miss. (spp), Pa. (spp), Va. (spp), W. Va. (spp).

Klamath-weed (*Hypericum perforatum*). See St. Johnswort.

Knapweed, Russian (*Centaurea picris*, *C. repens*). Ariz., Cal., Colo., Ida., Ill., Ia., Kan., Mont., Neb., Nev., N. J., N. Dak., Ore., S. Dak., U., Wash., Wyo.

L

Lanceleaved sage (*Salvia lanceolata*). See Sage, lanceleaved.

Large dock (*Rumex obtusifolius*). See Dock, bitter.

Larkspur (*Delphinium menziesii*, *D. cuculatum* *D. occidentale*). U.

Leafy spurge (*Euphorbia esula*). See Spurge, leafy.

Lettuce, blue flowering (*Lactuca pulchella*). Colo., Mont., Ore., U., Wash.

M

Madder, field (*Sherardia arvensis*). See Field madder.

Mallow, alkali (*Sida hederacea*). Ariz., Cal., Ore., Wash.

Malta star thistle (*Centaurea melitensis*). See Star thistle, Malta.

Marsh elder. La.

Milkweed, poison (*Asclepias galioides*). See Poison milkweed.

Milkweed, whorled (*Asclepias galioides*). See Poison Milkweed.

Morning-glory, Wild (*Convolvulus arvensis*). See Bindweed, field.

Morning-glory (*Ipomoea purpurea*). Ark. (spp), Kan. (spp), La., Okla. (spp).

Morning-glory, ivy leaved (*Ipomoea*

hederacea). Ark. (spp), Kan. (spp), Okla. (spp), S. Dak.

Mustard, ball (*Neslia paniculata*). Me.

Mustard, black (*Brassica nigra*). Ariz., Colo. (spp), Conn. (spp), Del. (spp), Ga. (spp), Ida. (spp), Ill. (spp), Ia. (spp), Kan. (spp), Me., Mass. (spp), Mich. (spp), N. M., N. Y. (spp), Okla. (spp), R. I. (spp), S. C., S. Dak., Vt. (spp), Wash. (spp).

Mustard, Indian (*Brassica juncea*). Ariz., Colo. (spp), Conn. (spp), Del. (spp), Ga. (spp), Ida. (spp), Ill. (spp), (spp), Ia. (spp), Kan. (spp), Me., Mass. (spp), Mich. (spp), N. M., N. Y. (spp), Okla. (spp), R. I. (spp), S. Dak., Vt. (spp), Wash. (spp), W. Va., Wis.

Mustard, tumble (*Sisymbrium altissimum*). Ariz., Me.

Mustard, wild (*Brassica arvensis*, *B. kabber*). Charlock, English charlock. Ariz., Colo. (spp), Conn., Del. (spp), Ga. (spp), Ida. (spp), Ill. (spp), Ind., Ia. (spp), Kan. (spp), Me., Mass. (spp), Mich. (spp), Mont., Neb., Nev., N. M., N. Y. (spp), Okla. (spp), R. I. (spp), S. C., S. Dak., Tex., Vt. (spp), Wash. (spp), W. Va., Wis.

N

Night-flowering catchfly (*Silene noctiflora*). See Catchfly, night-flowering.

Nightshade (*Physalis heterophylla*). See Groundcherry.

Nightshade, black (*Solanum nigrum*). Okla. (spp), U.

Nightshade, purple (*Solanum elaeagnifolium*). Okla. (spp), Tex.

Nightshade, three-flowered (*Solanum triflorum*). U.

Nutgrass (*Cyperus esculentus*). Ariz., Cal. (spp), Miss.

Nutgrass (*Cyperus rotundus*), Coco grass. Ala., Ariz., Ark., Cal. (spp), Fla., Ga., La., Miss., Okla., S. C., Wyo.

O

Oats, wild (*Avena fatua*). Ariz., Colo., Ida., Kan., Me., Mont., Neb., N. M., Okla., S. C., S. Dak., Tex.

Onion, wild (*Allium vineale*, *A. canadense*). Wild garlic. Ala., Ark., Del. (spp), Fla., Ga., Ill. (spp), Ind., Kan. (spp), Ky., La., Md., Miss., Mo., N. C., O., Okla. (spp), Ore., Pa. (spp), S. C. (spp), Tenn., Va., W. Va., D. C.

Orange hawkweed (*Hieracium aurantiacum*). See Hawkweed, orange.

Oxeye daisy (*Chrysanthemum leucanthemum*). Ill., Ind., Kan., Ky., Me., Minn., Mo., O., Okla., Ore., Tenn., W. Va., Wis., Wyo.

Oxeye daisy (*Rudbeckia hirta*). See Black-eye Susan.

P

Peaweed, Austrian (*Swainsona salsula*). See Austrian peaweed.

Pennycress, field (*Thlaspi arvense*). Frenchweed, Fanweed, Colo., Ida., Kan., Me., Minn., Mont., Nev., N. M., S. Dak., Wash.

Pepper cress, perennial (*Lepidium latifolium*). Cal., Wash.

Peppergrass, field (*Lepidium campentre*). Ind.

Peppergrass, perennial (*Lepidium draba*, *L. repens*). See Hoary cress.

Peppergrass, perennial (*Lepidium latifolium*). See Peppergrass, perennial.

Perennial ragweed (*Ambrosia Psilostachya*). See Ragweed, Western.

Perennial sowthistle (*Sonchus arvensis*). See Sowthistle, perennial.

Pigweed, rough (*Amaranthus retroflexus*). See Rough pigweed.
 Plantain, black seeded (*Plantago rugelii*). Conn. (spp), Ga. (spp), Ind., La., Miss. (spp), Mo. (spp), O. (spp), Wash. (spp).
 Plantain, bottlebush (*Plantago aristata*). See Plantain, bracted.
 Plantain, bracted (*Plantago aristata*). Bottle bush plantain. Ala., Ark., Conn. (spp), Fla., Ga. (spp), Ind., La., Miss. (spp), Mo. (spp), O. (spp), Okla., Wash. (spp).
 Plantain, buckhorn (*Plantago lanceolata*). See Buckhorn, plantain.
 Plantain, common (*Plantago major*). Rippleseed Plantain. Conn. (spp), Ga. (spp), Ind., Miss. (spp), Mo. (spp), O. (spp), Ore., U., Wash. (spp).
 Poison hemlock (*Conium maculatum*). U., Vt.
 Poison milkweed (*Asclepias galioides*). Whorled milkweed. Ariz., U.
 Povertyweed (*Iva axillaris*). Deathweed, Sumpweed. Ariz., Cal., Colo., Ore., U., Wash.
 Povertyweed, Franseria. (*Franseria tenuifolia*). Ariz., Colo.
 Povertyweed, silverleaf (*Franseria discolor*). Whiteleaved Franseria. Ariz., Colo., Wyo.
 Povertyweed, Wolly-leaved (*Franseria tementosa*). Colo.
 Prickly sowthistle (*Sonchus asper*). See Sowthistle, prickly.
 Puncture-vine (*Tribulus terrestris*). Ariz., Cal., Colo., Ida., Neb., Nev., Ore., U.
 Purple flowered Ground-cherry (*Quincula lobata*). See Ground-cherry, purple flowered.
 Purple nightshade (*Solanum elaeagnifolium*). See Nightshade, purple.
 Purple star thistle (*Centaurea calcitrapa*). See Star thistle, purple.

Q

Quackgrass (*Agropyron repens*). Witchgrass. Cal., Colo., Conn., Del., Ga., Ida., Ill., Ind., Ia., Kan., Ky., Me., Md., Mass., Mich., Minn., Mo., Mont., Neb., N. J., N. H., N. M., N. Y., N. Dak., O., Okla., Ore., Pa., R. I., S. Dak., Tenn., U., Vt., Va., Wash., W. Va., Wis., Wyo., D. C.

R

Radish, wild (*Raphanus raphanistrum*). Me.
 Ragweed, common (*Ambrosia artemisiifolia*). Me.
 Ragweed, great (*Ambrosia trifida*). Me.
 Ragweed, perennial (*Ambrosia psilostachya*). See Ragweed, western.
 Ragweed, western (*Ambrosia psilostachya*). Perennial ragweed. Ariz., Me., U., Wyo.
 Ragweed, white (*Franseria discolor*). See Povertyweed, silverleaf.
 Red rice (*Oryza sativa*). Ark.
 Red sorrel (*Rumex acetosella*). See Sheep sorrel.
 Ribgrass (*Plantago lanceolata*). See Buckhorn.
 Rippleseed plantain (*Plantago major*). See Plantain, common.
 Rough pigweed (*Amaranthus retroflexus*). Ga.

Rutabaga (*Brassica campestris*). Me.
 Russian Knapweed (*Centurea picris*, *C. repens*). See Knapweed, Russian.
 Russian thistle (*Salsola kali*). Ariz., Cal., Mo., Okla., Tex.

S

Sage, lanceleaved (*Salvia lanceolata*). Wyo.
 Sandbur (*Cenchrus pauciflorus*). Burgrass. Ariz., Cal., Ga., Nev., S. C.
 Scabious, sweet (*Erigeron annuus*). See Sweet scabious.
 Scarlet Gaura (*Gaura coccinea*). See Gaura, scarlet.
 Scented gaura (*Gaura odorata*). See Gaura, scented.
 Sheep sorrel (*Rumex acetosella*). Red sorrel. Ala., Ark., Fla., Ind., Ia., Kan., Ky. (spp), La., Miss. (spp), Mo., O., Okla., R. I. (spp), Wash. (spp).
 Silverleaf povertyweed (*Franseria discolor*). See Povertyweed, silverleaf.
 Smaller burdock (*Arctium minus*). See Burdock, smaller.
 Small-seeded false flax (*Camelina microcarpa*). See False flax, small-seeded.
 Sorrel, red and sheep (*Rumex acetosella*). See Sheep sorrel.
 Sowthistle, common (*Sonchus oleraceus*). Me., W. Va. (spp).
 Sowthistle, perennial (*Sonchus arvensis*). Field sowthistle. Ariz., Cal., Colo., Ida., Ill., Ind., Ia., Me., Mich., Minn., Mont., Nev., N. Dak., Okla., Ore., Pa., S. Dak., U., Wash., W. Va. (spp), Wis., Wyo.
 Sowthistle, prickly (*Sonchus asper*). Spiny-leaved sowthistle. Me., W. Va. (spp).
 Sowthistle, spiny-leaved (*Sonchus asper*). See Sowthistle, prickly.
 Spotted cats-ear (*Hypochaeris radicata*). See Cats-ear, spotted.
 Spreading dogbane (*Apocynum androsaemifolium*). See Dogbane, spreading.
 Spurge, flowering (*Euphorbia corollata*). Ida. (spp), Wyo.
 Spurge, leafy (*Euphorbia esula*). Ariz., Cal., Colo., Ida. (spp), Ill., Ia., Kan., Minn., Mont., Neb., Nev., N. Dak., Ore., S. Dak., U., Wash., Wis., Wyo.
 Squirrel-tail grass (*Hordeum jubatum*). See Barley wild.
 Star-thistle, Iberian (*Centaurea iberica*). Nev., Ore.
 Star-thistle, Malta (*Centaurea melitensis*). Ore.
 Star-thistle, purple (*Centaurea calcitrapa*). Nev.
 Star-thistle, yellow (*Centaurea solstitialis*). Cal., Nev., Ore., W. Va.
 Stickseed (*Lappula echinata*). Blue bur. Me.
 St. Johnswort (*Hypericum perforatum*). Goatweed, Klamath-weed. Cal., Nev., Ore., Wash., Wyo.
 Sumpweed (*Iva axillaris*). See Povertyweed.
 Sweet scabious (*Erigeron annuus*). Me.

T

Tansy Mustard (*Sisymbrium irio*, *S. sophia*). See Mustard, tansy.

Texas blueweed (*Helianthus ciliaris*). See Blueweed, Texas.
 Tie-vine (*Convolvulus arvensis*). See Bindweed, field.
 Thistle, bull (*Cirsium lanceolatum*). See Bull thistle.
 Thistle, Canada (*Cirsium arvense*). See Canada thistle.
 Thistle, Russian (*Salsola Kali*). See Russian thistle.
 Three-flowered nightshade (*Solanum triflorum*). See Nightshade, three-flowered.
 Toadflax, yellow (*Linaria vulgaris*). Ida., Ore., Wash.
 Tumble mustard (*Sisymbrium altissimum*). See Mustard, tumble.

W

Wavy-leaved Gaura (*Gaura sinuata*). See Gaura, wavy-leaved.
 Western ragweed (*Ambrosia psilostachya*). See Ragweed, western.
 White campion (*Lychnis alba*). See Campion, white.
 White horsetail (*Solanum elaeagnifolium*). See Horsetail, white.
 Whiteleaved Franseria (*Franseria discolor*). See Povertyweed, silverleaf.
 White top (*Hymenophyza pubescens*). See Hoary cress.
 White top (*Lepidium draba*, *L. repens*). See Hoary cress.
 Whorled milkweed (*Asclepias galioides*). See Poison milkweed.
 Wild Barley (*Hordeum jubatum*). See Barley, wild.
 Wild buckwheat (*Polygonum convolvulus*). See Buckwheat, wild.
 Wild carrot (*Daucus carota*). See Carrot, wild.
 Wild Chicory (*Cirrhodium intybus*). See Chicory, wild.
 Wild Garlic (*Allium vineale*). See Onion, wild.
 Wild morning-glory (*Convolvulus arvensis*). See Bindweed, field.
 Wild morning-glory (*Convolvulus sepium*). See Bindweed, hedge.
 Wild oats (*Avena fatua*). See Oats, wild.
 Wild onion (*Allium vineale*). See Onion, wild.
 Wild mustard (*Brassica arvensis*). See Mustard, wild.
 Wild radish (*Raphanus raphanistrum*). See Radish, wild.
 Wintercress, bitter (*Campe barbarea*). Ind.
 Wire grass (*Cynodon dactylon* and *capriola dactylon*). See Bermuda grass.
 Wire grass (*Paspalum distichum*). Tex.
 Witchgrass (*Agropyron repens*). See Quackgrass.
 Wolly-leaved Povertyweed (*Franseria tementosa*). See Povertyweed, wolly-leaved.

Y

Yarrow (*Achillea millefolium*). Ore.
 Yellow cress (*Rorippa sylvestris*). Wyo.
 Yellow dock (*Rumex crispus*). See Dock, curly.
 Yellow toadflax (*Linaria vulgaris*). See Toadflax yellow.
 Yellow star-thistle (*Centaurea solstitialis*). See Star-thistle, yellow.

SEED WORLD

The Industry's only A.B.C. paper

WHOLESALE SELLING PRICES FOR BEST GRADES OF FIELD SEEDS AT IMPORTANT MARKETS, 1930-1943

Compiled from office records, by the Division of Agricultural Statistics, Bureau of Agricultural Economics, U. S. Department of Agriculture.

(Per 100 pounds, except for last 8 kinds where prices per bushel are given.)

Kind of Seed	Market	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
Alfalfa.....	Kansas City.....	Dollars 22.55	Dollars 13.65	Dollars 13.60	Dollars 13.00	Dollars 19.80	Dollars 15.20	Dollars 29.60	Dollars 34.00	Dollars 24.75	Dollars 22.75	Dollars 19.00	Dollars 33.00	Dollars 40.50
Red clover.....	Chicago.....	25.05	16.35	11.40	14.75	23.65	20.90	38.25	40.00	18.00	18.70	14.00	22.50	30.50
Alsike clover.....	Chicago.....	23.50	15.05	11.95	16.25	28.65	23.30	25.95	33.00	16.25	23.00	14.50	22.50	31.50
Sweetclover.....	Minneapolis.....	9.20	5.50	4.50	6.50	10.40	6.25	17.00	11.35	7.75	6.90	6.60	13.00	12.70
White clover.....	Chicago.....	39.05	40.50	27.85	30.50	27.50	27.10	30.10	35.00	42.50	62.50	72.00	73.00	60.00
Crimson clover.....	Baltimore.....	9.00	6.75	9.20	9.20	12.05	7.55	7.80	10.35	12.70	11.60	10.85	11.50	12.50
Lespedeza.....	Louisville.....	14.70	8.10	7.50	5.00	10.50	5.65	15.60	5.45	3.50	5.55	5.40	7.10	7.75
Timothy.....	Chicago.....	10.55	4.30	3.25	8.50	22.80	3.65	6.95	4.00	4.00	6.35	5.25	9.00	6.75
Redtop.....	Chicago.....	24.20	8.70	5.30	8.40	13.95	9.35	21.50	11.50	11.15	11.35	10.25	11.50	10.25
Kentucky bluegrass.....	Kansas City.....	35.35	13.45	8.35	13.40	23.20	12.30	18.35	10.65	10.50	19.50	18.50	18.50	17.00
Orchard grass.....	Louisville.....	16.05	7.35	7.30	9.70	16.20	12.50	18.30	16.15	17.50	16.90	26.00	32.50	33.40
Meadow fescue.....	Kansas City.....	10.75	5.50	4.15	7.05	18.00	7.00	10.50	8.85	12.00	14.00	16.00	.....	25.00
Chewings fescue.....	Baltimore.....	36.00	22.65	11.75	19.35	55.45	41.90	31.80	39.75	60.00	51.00	32.90	35.00	48.10
Sheep's fescue.....	Baltimore.....	27.50	14.90	10.95	14.85	52.45	30.25	29.00	26.10	35.00	45.00	45.00	.....	.....
German mixed bent.....	Baltimore.....	85.00	71.60	62.00	72.15	85.90	52.70	45.00	58.10	55.00	59.00	.....	59.90	65.00
Bermuda grass.....	Baltimore.....	31.35	16.25	12.10	10.55	20.40	23.45	26.75	22.90	24.60	23.70	19.70	38.00	65.00
Bromus inermis.....	Minneapolis.....	20.00	14.00	8.00	16.20	26.00	13.45	26.00	19.45	17.05	16.60	19.00	19.00	13.20
Italian ryegrass.....	Baltimore.....	9.50	8.85	7.10	.....	.....	.....	7.10	7.50	7.80	.....	.....	.....	.....
Perennial ryegrass.....	Baltimore.....	10.00	8.85	7.10	11.40	11.90	10.20	11.30	9.00	11.00	11.00	12.40	14.50	17.30
Common ryegrass.....	Baltimore.....	5.00	3.45	3.70	6.70	5.20	4.50	7.10	7.55	6.25	6.00	5.00	7.75	9.25
German millet.....	Kansas City.....	3.70	1.80	1.55	3.35	7.00	2.70	4.90	3.25	1.85	2.60	3.25	3.25	3.60
Siberian millet.....	Minneapolis.....	3.40	2.60	2.40	3.65	6.10	2.75	3.40	2.35	2.50	3.75	4.25	4.00	3.40
Hungarian millet.....	Chicago.....	3.50	2.25	1.95	2.90	6.05	3.00	5.00	3.50	3.15	4.50	3.50	4.50	5.00
Japanese millet.....	Chicago.....	3.70	3.20	2.90	3.00	6.00	2.50	3.25	3.00	3.00	5.45	5.00	4.00	4.50
Broomcorn millet.....	Minneapolis.....	2.40	1.95	1.80	2.20	4.30	2.25	2.75	2.30	2.50	2.15	1.65	2.15	2.50
Amber sorgo.....	Kansas City.....	2.80	1.20	1.15	1.60	5.65	2.70	4.00	1.85	1.70	2.75	2.65	2.25	3.75
Orange sorgo.....	Kansas City.....	2.80	1.25	1.20	2.10	5.40	2.70	3.95	1.80	1.60	2.75	2.70	2.40	3.75
Sudan grass.....	Kansas City.....	7.40	1.75	2.05	5.50	12.30	3.15	4.60	3.25	3.55	3.50	3.85	3.00	6.00
Rape.....	Baltimore.....	4.30	4.15	3.75	4.30	3.60	4.00	5.95	6.55	6.35	7.30	16.50	16.00	10.30
Hairy vetch.....	Baltimore.....	8.45	7.50	7.00	8.75	11.50	9.75	8.85	8.50	8.20	10.80	10.00	10.75	13.30
Common vetch.....	Baltimore.....	4.50	4.00	3.50	5.00	3.50	3.75	5.00	4.65	5.00	6.75	6.00	7.50	8.10
Canada field peas.....	Minneapolis.....	3.85	4.80	4.50	3.85	3.85	4.00	5.15	5.35	4.85	5.85	5.20	5.50	6.10
Kafir.....	Kansas City.....	1.75	1.15	1.10	1.40	3.20	2.00	3.15	1.75	1.55	2.30	2.30	2.75	4.25
Cowpeas..... Bu.	Baltimore.....	2.70	1.05	.95	2.50	2.50	2.30	3.00	2.20	2.40	1.90	2.25	2.85	3.10
Soybeans..... "	Louisville.....	2.15	.75	.95	1.45	1.60	1.35	2.25	1.35	1.15	1.50	1.50	2.70	2.30
Seed corn..... "	Chicago.....	1.65	1.20	.85	1.00	1.75	2.95	2.50	1.50	1.25	1.40	1.35	1.60	2.10
Seed wheat..... "	Minneapolis.....	1.15	1.00	.90	1.25	1.50	1.65	2.00	1.35	1.25	1.40	1.30	1.70	1.90
Seed oats..... "	Minneapolis.....	.65	.55	.45	.65	.90	.70	.90	.75	.65	.75	.75	.90	1.35
Seed barley..... "	Minneapolis.....	.75	.75	.65	.95	1.45	1.00	1.70	1.15	.90	.90	.90	1.25	1.45
Seed rye..... "	Minneapolis.....	1.05	.90	.80	1.35	1.50	1.25	1.45	1.30	1.10	1.25	1.25	1.40	.....
Seed buckwheat..... "	Minneapolis.....	1.30	1.20	.95	1.20	1.15	1.85	1.75	1.35	1.10	1.10	1.00	1.20	4.25

**U. S. VERIFIED ORIGIN DEALERS IN
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A. & M. Blue-Green Blend—lawn grass—Aggeler & Musser Seed Co., Los Angeles, Calif.

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Anchor Brand—field and garden seeds—Arthur R. Cone, Buffalo, N. Y.

Antelope—seeds—The Nebraska Seed Co., Omaha, Nebr.

"A Premium Grade that Does Not Cost a Premium"—farm and field seeds—Davenport Seed Co., Inc., Davenport, Iowa.

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Arrow—field seeds—The Philadelphia Seed Co., Inc., Philadelphia, Pa.

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Atlantic Park Green—lawn grass seed—The Atlantic Seed Co., Philadelphia, Pa.

Atlantic Plaza—lawn grass seed—The Atlantic Seed Co., Philadelphia, Pa.

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Atlantic Shady Spot—lawn grass seed—The Atlantic Seed Co., Philadelphia, Pa.

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Atlantic Old Fashioned—lawn grass seed—The Atlantic Seed Co., Philadelphia, Pa.

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Atlas—field seeds—The Philadelphia Seed Co., Inc., Philadelphia, Pa.

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"At Your Service Since 1896"—garden, field and flower seeds—The Page Seed Co., Greene, N. Y.

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Barteldes—field and garden seeds—Barteldes Seed Co., Lawrence, Kan.

Beakon—"A Safe Guide to Better Crops"—field seeds—Gooding Seed Co., Gooding, Idaho.

Many seedsmen, as well as manufacturers, have spent years in building up a demand for their trade-marked merchandise and buyers have acquired the habit of calling for these brands. Sometimes a buyer will not remember the name of the manufacturer or seedsman who produces a certain brand. This alphabetical list of trade-marked brands should prove useful in such cases. These trade marks and slogans are printed as sent to us by seedsmen and manufacturers who advertise in this book. The publisher assumes no responsibility. For names of firms using trade marks not listed here, write us.

"Bear Our Name and Brand. Arco"—field and garden seeds—Arthur R. Cone, Buffalo, N. Y.

Beaver Brand—seeds—Sommer Bros. Seed Co., Pekin, Ill.

Beaver—timothy seed—Steele, Briggs Seed Co., Toronto, Ont., Canada.

Bee Hive—hardy Utah alfalfa seed—Peppard Seed Co., Kansas City, Mo.

"Belt's Better Grasses"—The Belt Seed Co., Inc., Baltimore, Md.

"Better Be Safe than Sorry"—field seeds—Ross Seed Co., Louisville, Ky.

"Be Satisfied—Use Brent's Premium Seeds"—C. S. Brent Seed Co., Lexington, Ky.

"Best at Any Price"—seeds—Keller Seed Store, Shawnee, Okla.

"Better Be Safe than Sorry"—field seeds—Ross Seed Co., Louisville, Ky.

"Better Seeds, Better Crops"—Ouren Seed Co., Council Bluffs, Iowa.

Big Buster—pop corn—The Albert Dickinson Seed Co., Chicago, Ill.

Big Chief—field seeds—Northwestern Seed Co., Keokuk, Iowa.

Bingo—timothy seed—The Philadelphia Seed Co., Inc., Philadelphia, Pa.

Bison—timothy seed—The Albert Dickinson Seed Co., Chicago, Ill.

Blackfoot Brand—alfalfa—Idaho Grimm Alfalfa Seed Growers Assn., Blackfoot, Idaho.

"Blizzard Belt Seeds Are the Best for All Climates"—garden seeds—Burgess Seed & Plant Co., Galesburg, Mich.

"Blood Tells"—garden seeds—Rogers Bros. Seed Co., Chicago, Ill.

Blue Label—dahlia roots—Wayland Dahlia Gardens, Wayland, Mich.

Blue Ribbon Brand—field seeds—Allied Seed, Div. of G. L. F. Mills Co-op., Inc., Ft. Wayne, Ind.

Blumont Brand—field seeds—Blue Mountain Seed Growers Assn., La Grande, Ore.

Bombshell—pop corn seed—The Barteldes Seed Co., Lawrence, Kan.

Bow Brand—field seeds—The Bowman Seed Co., Concordia, Kan.

"Bowman's Better Seeds"—field seeds—The Bowman Seed Co., Concordia, Kan.

Breck's—seeds—Joseph Breck & Sons, Boston, Mass.

"Breck's Seeds Are Tested"—Joseph Breck & Sons, Boston, Mass.

"Bred—Not Just Grown"—garden seeds—Associated Seed Growers, Inc., New Haven, Conn.

"Breeders and Growers of Fine Tomato Seed"—Francis C. Stokes Co., Vincentown, N. J.

Brent's Premium—field and garden seeds—C. S. Brent Seed Co., Lexington, Ky.

Brexone—seeds—Joseph Breck & Sons, Boston, Mass.

Brookside—lawn grass seed—Peppard Seed Co., Kansas City, Mo.

"Brown's Tested Seeds—They Grow"—garden seeds—Alfred J. Brown Seed Co., Grand Rapids, Mich.

Buckaroo Brand—garden seeds—Max F. Wilhelm, Seedsman, Lawrence, Kan.

Buckeye—seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Bugler Feeds—field seeds—Banner Mills, operated by Globe Seed & Field Co., Twin Falls, Idaho.

"Buist Bulbs Bloom"—Robert Buist Co., Philadelphia, Pa.

Buist's Prize Medal—garden seeds—Robert Buist Co., Philadelphia, Pa.

Burpee's—seeds—W. Atlee Burpee Co., Philadelphia, Pa.

Burpee-Gro—seeds—W. Atlee Burpee Co., Philadelphia, Pa.

"Burpee's Seeds Grow"—W. Atlee Burpee Co., Philadelphia, Pa.

"Buy at the Source of Supply"—alfalfa seed—Lakin Seed Co., Miles City, Mont.

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"California's Choicest Flower Seed Since 1890"—Bodger Seeds, Ltd., El Monte, Calif.

Capital Brand Seeds—field seeds and feeds—Capital Fuel, Feed & Seed Co., Phoenix, Ariz.

Capitol City Seeds—F. W. Bolgiano & Co., Inc., Washington, D. C.

Carlson Brand—field seeds—Roscoe J. Carl & Son, Lansing, Mich.

Carco Brand—field and garden seeds—Arthur R. Cone, Buffalo, N. Y.

Casco—field and garden seeds—Cuff-Archias Seed Co., Brawley, Calif.

Central Park—field seeds—I. L. Radwaner Seed Co., Inc., New York, N. Y.

Central States—grass seed—F. H. Woodruff & Sons, Inc., Milford, Conn.

Champion Brand—seeds—J. C. Olinger Seed Co., Akron, Ohio.

Charlie Ross' Long Green Grass Seed—lawn seeds—Ross Seed Co., Louisville, Ky.

Chieftain Brand—field and garden seeds—Michael-Leonard Co., Sioux City, Iowa.

Cloister—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.

Club Green—lawn seed—The Albert Dickinson Co., Chicago, Ill.

Colonial Boy—garden seeds—D. Landreth Seed Co., Bristol, Pa.

Colonial Brand—timothy seed—The Albert Dickinson Co., Chicago, Ill.

Columbia Park—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.

Compass Brand—field seeds—Davenport Seed Co., Davenport, Iowa.

Condon's Sure Crop Seeds. None Better at Any Price. Condon's Seeds Satisfy—Condon Bros., Seedsmen, Rockford, Ill.

"Continuously in the Seed Business Since 1872"—seeds—Chambers Seed Co., Inc., Louisville, Ky.

Corn Belt—field seeds—Northwestern Seed Co., Keokuk, Iowa.

Court—field seeds—Courteen Seed Co., Milwaukee, Wis.

Cream of the Crop—field seed, sun cured and field ripened blue grass—Peppard Seed Co., Kansas City, Mo.

Crebent—lawn seed—The Chas. H. Lilly Co., Seattle, Wash.

Crescent—lawn seed—The Chas. H. Lilly Co., Seattle, Wash.

"Crosman's Famous Seeds for More than a Hundred Years"—flower, vegetable and grass seeds—Crosman Seed Co., East Rochester, N. Y.

Crystal—field seeds—Cargill, Inc., Seed Div., Minneapolis, Minn.

Dakota Leader Brand—field seeds—Valker-Christensen Co., Minot, N. D.

Danco—quality seeds—Dan McCoy Seed Co., Inc., Sikeston, Mo.

Daybreak Quality—seeds—Chambers Seed Co., Inc., Louisville, Ky.

DeLuxe Brand—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.

Dependable Seeds—seeds—Alf Christianson, Mt. Vernon, Wash.

"Dependable Seeds Since 1911"—seeds—Wetzel Seed Co., Inc., Harrisonburg, Va.

- Disco**—field seeds—Dakota Improved Seed Co., Mitchell, S. D.
- Donley** "Super Cleaned"—field and lawn seeds—J. L. Donley & Bro., Ashland, Ohio.
- Double "K" Brand**—field seed—Kellogg-Kelly Seed Co., St. Joseph, Mo.
- Duryea's Central Park**—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.
- Duryea's Evergreen**—lawn grass—Duryea Seed Co., Inc., New York, N. Y.
- Duryea's Superior**—lawn grass—Duryea Seed Co., Inc., New York, N. Y.
- Eagle**—alsike seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.
- Echo Brand**—field seeds—Purcell Seed Co., Evansville, Ind.
- Eclipse**—field seeds—Keller Seed Store, Shawnee, Okla.
- "Emblem of Purity in Seeds"**—The Chas. H. Lilly Co., Seattle, Wash.
- Embro**—popcorn—Ed F. Mangelsdorf & Bro., Inc., St. Louis, Mo.
- Emerald**—field seeds—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.
- Emerald**—lawn seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- Emerald Green**—lawn seed—The Chas. H. Lilly Co., Seattle, Wash.
- Ermine**—timothy seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.
- Estate**—lawn seed—Wm. G. Scarlett & Co., Baltimore, Md.
- Evergreen Brand**—farm seeds—The Chas. H. Lilly Co., Seattle, Wash.
- Evergreen**—lawn seed—The Albert Dickinson Co., Chicago, Ill.
- Evergreen**—lawn dressing—Robert Nicholson Seed Co., Dallas, Texas.
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- Falcon**—field seeds—Cargill, Inc., Seed Div., Minneapolis, Minn.
- "Famous for Purity and Vitality"**—garden seeds—Robert Buist Co., Philadelphia, Pa.
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- Fargo Seed House**—field, garden seeds, seed grain—Magill & Co., Fargo, N. D.
- Faribo**—garden seeds—Farmer Seed & Nursery Co., Faribault, Minn.
- "Farmers Know Seeds That Grow"**—field and garden seeds—Arthur R. Cone, Buffalo, N. Y.
- Farmwell**—field seeds—Seaboard Seed Co., Philadelphia, Pa.
- Far West**—field seeds—Jenks-White Seed Co., Salem, Ore.
- "Favorably Known Idaho Grown Seed"**—field seeds—Filer Seed Co., Blackfoot, Idaho.
- Favorite**—field seeds—Seaboard Seed Co., Philadelphia, Pa.
- Ferry's Seeds**—field and garden seeds—Ferry-Morse Seed Co., Detroit, Mich.
- "Fewer—But Better Varieties"**—garden seeds—Zwaan & Van der Molen, Voorburg, Holland.
- "Field, Flower, Vegetable"**—seeds—Charles R. Moore, Cincinnati, Ohio.
- Fine Green**—lawn seed—F. H. Woodruff & Sons, Inc., Milford, Conn.
- "First in Quality, First in Price, First in Service"**—seeds—Chambers Seed Co., Inc., Louisville, Ky.
- "56 Years' Faithful Service"**—field seeds—E. F. Sanguinetti, Yuma, Ariz.
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- "Flower Seeds of Proven Quality"**—seeds—Buckman, Denholm & Holden Seed Co., Lompoc, Calif.
- "For Crop Insurance Insist Upon Cargill's Dependable Farm Seeds"**—Cargill, Inc., Seed Div., Minneapolis, Minn.
- For-Get-Me-Not Brand**—grass seeds—Julius Loewith, Inc., New York, N. Y.
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- Fordhook**—seeds—W. Atlee Burpee Co., Philadelphia, Pa.
- "For Land Sake Buy Land O'Lakes Seeds"**—Land O'Lakes Creameries, Inc., Minneapolis, Minn.
- "For Land's Sake Buy Landreth's Seeds"**—garden seeds—D. Landreth Seed Co., Bristol, Pa.
- "For Tops in Quality"**—seeds—J. C. Olinger Seed Co., Akron, Ohio.
- "Forty Years the Best"**—field seeds—Ross Seed Co., Louisville, Ky.
- Funk Farms**—field seeds—Funk Bros. Seed Co., Bloomington, Ill.
- Funk's**—soybean feeds—Funk Bros. Seed Co., Bloomington, Ill.
- Funk's Shadyside**—lawn seed—Funk Bros. Seed Co., Bloomington, Ill.
- Funk's Sunnyside**—lawn seed—Funk Bros. Seed Co., Bloomington, Ill.
- G Hybrids**—Funk Bros. Seed Co., Bloomington, Ill.
- "Gardeners Know Seeds that Grow Bear Our Name and Brand"**—field and garden seeds—Arthur R. Cone, Buffalo, N. Y.
- "Germain's Seeds Germinate"**—seeds—Germain Seed & Plant Co., Los Angeles, Calif.
- Gilbert's Dependable Seed**—field and garden seed—D. H. Gilbert Seed Co., Inc., Monticello, Fla.
- Gilt Edge Brand**—seeds—National Seed Co., Louisville, Ky.
- Gladflower**—flower seeds—W. Atlee Burpee Co., Philadelphia, Pa.
- Glenwood Park**—lawn seed—Northrup, King & Co., Berkeley, Calif.
- G. L. F.**—seeds and feed—Cooperative G. L. F. Mills, Inc., Buffalo, N. Y.
- Globe Brand**—pigeon, rabbit, goat, poultry mashes, and calf meal—The Albert Dickinson Co., Chicago, Ill.
- Globe Brand**—lawn seed—The Albert Dickinson Co., Chicago, Ill.
- Gold**—field seeds—The Ackerman Co., Lima, Ohio.
- Golden Gate**—grass mixture—Ferry-Morse Seed Co., San Francisco, Calif.
- Goldinhart**—seeds—W. Atlee Burpee Co., Philadelphia, Pa.
- Gold Medal**—field seeds—Louisville Seed Co., Louisville, Ky.
- Gold Standard**—red top seed—J. M. Schultz Seed Co., Dieterich, Ill.
- Gramercy Park**—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.
- Greenblade Brand**—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.
- Green Cover**—lawn seed—The Albert Dickinson Co., Chicago, Ill.
- Green Mantle Brand**—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.
- Greene Park**—lawn grass seed—The Page Seed Co., Greene, N. Y.
- Greenway**—lawn seed—Wm. G. Scarlett & Co., Baltimore, Md.
- Griscom's Seeds**—field and garden seeds—Griscom & Co., Inc., New York, N. Y.
- Griscom's Seeds Grow**—field and garden seeds—Griscom & Co., Inc., New York, N. Y.
- Gro-Green Brand**—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.
- Gro-Green Lawns**—lawn seed—The Chas. H. Lilly Co., Seattle, Wash.
- Gro-Sod**—lawn food—F. H. Woodruff & Sons, Inc., Milford, Conn.
- "Grown by Hurff"**—Edgar F. Hurff Co., Swedesboro, N. Y.
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- "Growers of Select Stocks"**—garden seeds—Pieters Wheeler Seed Co., Gilroy, Calif.
- "Growers of the Highest Quality Vine Seed"**—garden seeds—H. D. Garwood Seed Co., Rocky Ford, Colo.
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- "Grown Where Dahlias Grow Best"**—dahlias—Wayland Dahlia Gardens, Wayland, Mich.
- Hardi-Kan**—alfalfa—Standard Seed Co., Kansas City, Mo.
- "Hardy High Altitude Grown Seeds"**—garden and vine seeds—Burrell Seeds, Inc., Rocky Ford, Colo.
- Hart's**—garden and flower seeds—Chas. C. Hart Seed Co., Wethersfield, Conn.
- Harvest**—field seeds—Wm. G. Scarlett & Co., Baltimore, Md.
- Hawk**—alsike seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.
- Hawkeye**—field seeds—Hamilton Seed & Coal Company, Cedar Rapids, Iowa.
- Haymaker**—field seed—Peppard Seed Co., Kansas City, Mo.
- "Heart of the Clover District"**—farm seeds—The Ackerman Co., Lima, Ohio.
- Helderberg Birdsfoot Trefoil**—perennial herb—Eastern, N. Y. Birdsfoot Trefoil Co-op., Inc., Delmar, N. Y.
- Hiawatha**—field seeds—Cargill, Inc., Seed Div., Minneapolis, Minn.
- Hickory Tree**—field seeds—Shultz Seed Co., Inc., Olney, Ill.
- "Highest Quality Vine Seeds"**—seeds—H. D. Garwood Seed Co., Rocky Ford, Colo.
- Homelawn**—lawn seed—Northrup, King & Co., Berkeley, Calif.
- Honor**—field seeds—Stanford Seed Co., Buffalo, N. Y.
- Hoosier-Crost**—hybrid seed corn—Edw. J. Funk & Sons, Kentland, Ind.
- Hormolawn**—lawn seed—Seaboard Seed Co., Philadelphia, Pa.
- Horseshoe**—seeds—Corneli Seed Co., St. Louis, Mo.
- H P Co**—pedigreed seeds—Hopson Planting Co., Clarksdale, Miss.
- "Hungarian Grown Seeds"**—field seeds—Hungarian Farmers Co-op. Assn., Budapest, Hungary.
- Hurff**—garden seeds—Edgar F. Hurff Co., Swedesboro, N. J.
- Idaho Grown Seeds**—field seeds—Edgar L. Oakes & Co., Caldwell, Idaho.
- "If You Don't Know Your Seeds—Know Your Seedsman"**—Young & Conway, Morganfield, Ky.
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- Interstate Brand—Blue Seal**—Interstate Seed & Grain Co., Fargo, N. D.
- Interstate Brand—Red Seal**—Interstate Seed & Grain Co., Fargo, N. D.
- "In the Heart of the Clover Section"**—Stoller's Seed House, Paulding, Ohio.
- "In Seed There Is No Substitute for Dependability"**—field seeds—Twin City Seed Co., Minneapolis, Minn.
- lowealth**—field and garden seeds—Michael-Leonard Co., Sioux City, Iowa.
- Irish Green**—lawn grass seed—Peppard Seed Co., Kansas City, Mo.
- "It Fills the Bill"**—wild bird food—Joseph Breck & Sons, Boston, Mass.
- "It Pays to Sow 'Em"**—field seeds—Ross Seed Co., Louisville, Ky.
- IXL**—field seeds—The Philadelphia Seed Co., Inc., Philadelphia, Pa.
- Jacques—Proven Hybrids**—Jacques Seed Co., Prescott, Wis.
- Judge Brand**—field seeds—Purcell Seed Co., Evansville, Ind.
- Jumbo Brand**—popcorn—The Albert Dickinson Co., Chicago, Ill.
- Jumbo**—field seeds—Courteen Seed Co., Milwaukee, Wis.
- K**—brand seeds—Geo. Keller & Sons, Quincy, Ill.
- K Circle**—field seeds—Northern Field Seed Co., Winona, Minn.
- "Kelly's Seeds Grow"**—field seeds—Kelly Seed Co., Peoria, Ill.
- Keystone**—seeds—Corneli Seed Co., St. Louis, Mo.
- "Keystone Seeds for Bigger, Better Crops"**—seeds—Corneli Seed Co., St. Louis, Mo.
- Kingscrot**—field and sweet corn—Northrup, King & Co., Minneapolis, Minn.

- "King of All Hybrids—lowealth—the Wealth of Many Great Strains, Bred into One Truly Great Hybrid"**—field and garden seeds—Michael-Leonard Co., Sioux City, Iowa.
- "King's K-Brand Seeds Are Reliable"**—field and garden seeds—H. C. King & Sons, Battle Creek, Mich.
- "Known for Reliability Since 1888—Old Gold Brand Seeds"**—L. L. Olds Seed Co., Madison, Wis.
- Knox's Quality**—farm and garden seeds—Paramount Seed Co., Stockton, Calif.
- "Kow Salad"**—corn—Jacques Seed Co., Prescott, Wis.
- Lago**—garden and field seeds—F. Lagomarsino & Sons, Sacramento, Calif.
- "Largest Seed House Below Sea Level"**—field and garden seeds—Cuff-Archias Seed Co., Brawley, Calif.
- La. Grown Seeds**—field seeds—W. T. Nolin, Hamburg, La.
- Lake of the Woods Brand**—field seeds—Northern Field Seed Co., Winona, Minn.
- Lakes Brand**—field and garden seeds—L. L. Olds Seed Co., Madison, Wis.
- Lancashire**—field seeds—Seaboard Seed Co., Philadelphia, Pa.
- Land o' Lakes**—field seeds—Land o' Lakes Creameries, Inc., Minneapolis, Minn.
- Landreth's Seeds**—garden seeds—D. Landreth Seed Co., Bristol, Pa.
- "Leads in Seeds—That's Advance"**—field seeds—Advance Seed Co., Phoenix, Ariz.
- Leckstrain**—garden seeds—Leckenby Seed Co., Seattle, Wash.
- Leonard's Seeds**—Michael-Leonard Co., Sioux City, Iowa.
- Liberty**—field seeds—Stanford Seed Co., Buffalo, N. Y.
- Liefgreen**—seeds—Liefgreen Seed Co., Phoenix, Ariz.
- Lilly's Best Brand**—farm and garden seeds—The Chas. H. Lilly Co., Seattle, Wash.
- "Lilly's—The Emblem of Purity in Seeds"**—field and garden seeds—The Chas. H. Lilly Co., Seattle, Wash.
- "Lilly's Purity-Sealed Seeds"**—field and garden seeds—The Chas. H. Lilly Co., Seattle, Wash.
- Lion Brand**—clover and timothy seeds—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.
- Little Buster**—pop corn—The Albert Dickinson Seed Co., Chicago, Ill.
- Lone Star**—bulbs—American Bulb Co., Chicago, Ill.
- Lucky Strike**—field seeds—Shultz Seed Co., Olney, Ill.
- M**—all seeds—Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.
- M-1001 Hybrid Corn**—Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.
- M-1020 Hybrid Corn**—Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.
- "M Brand Seeds Are Selected for Quality"**—field seeds—Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.
- "Mark of Quality"**—garden seeds—Pieters-Wheeler Seed Co., Gilroy, Calif.
- Marvelawn**—grass seed—The Page Seed Co., Greene, N. Y.
- Master Farmer**—field seeds—Farmer Seed & Nursery Co., Faribault, Minn.
- Master Hybrids**—garden seeds—Farmer Seed & Nursery Co., Faribault, Minn.
- Maybell**—pure field seeds—Ross Seed Co., Louisville, Ky.
- "McLaughlin's Fine Seeds"**—McLaughlin's Seeds, Helena, Mont.
- McCullough's Seeds**—seeds—The J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- McCullough's Whiz Bang**—pop corn—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- Merit**—flower seed—Waller-Franklin Seed Co., Guadalupe, Calif.
- Merriwinkle**—seeds—W. Atlee Burpee Co., Philadelphia, Pa.
- Mica-Gro**—seeds—Joseph Breck & Sons, Boston, Mass.
- Milford**—grass seed—F. H. Woodruff & Sons, Inc., Milford, Conn.
- Milford Green**—lawn seed mixture—F. H. Woodruff & Sons, Inc., Milford, Conn.
- Minihybrid No. 250—Japanese Hulless Pop Corn**—Farmer Seed & Nursery Co., Faribault, Minn.
- Minn-Wisco**—field seeds—Northern Field Seed Co., Winona, Minn.
- Minrol—Soy Meal**—soybean feed—Funk Bros. Seed Co., Bloomington, Ill.
- "Mosbell—Seeds of Known Origin"**—garden seeds—John Mosbell Co., Montvale, N. J.
- "Nation-Wide Service from the Heart of the Bulb Industry"**—Cameron & Co., Seattle, Wash.
- National Farm (wholesale) Seed Distributors**—seeds—Advance Seed Co., San Francisco, Calif.
- NBSco Brand**—field seeds—N. Bonahoom Seed Co., Hastings, Neb.
- Newday**—farm and feed seeds—Newday Seeds, Inc., Fargo, N. D.
- New Idea Brand**—feed—Purcell Seed Co., Evansville, Ind.
- "New Jersey Certified Tomato Seed"**—Geo. R. Pedrick & Sons, Pedricktown, N. J.
- Nicholson's**—garden, field and flower seeds—Robert Nicholson Co., Dallas, Texas.
- "No Seeds Succeed Like Sam Brand Seeds"**—field seeds—Sedgwick Alfalfa Mills, Sedgwick, Kan.
- Nord**—farm seeds—Twin City Seed Co., Minneapolis, Minn.
- Nor-Minn**—field seeds—Cargill, Inc., Seed Div., Minneapolis, Minn.
- "Northern Grown Farm Seeds"**—Cargill, Inc., Minneapolis, Minn.
- "Northern Grown Quality Seeds"**—field seeds—Farmer's Union Grain & Supply Co., Wiliston, N. D.
- Northland Brand**—farm seeds—Northrup, King & Co., Minneapolis, Minn.
- No. 170**—lawn seed—F. H. Woodruff & Sons, Inc., Milford, Conn.
- No. 177**—lawn seed—F. H. Woodruff & Sons, Inc., Milford, Conn.
- "Now Is the Time to Plant Page's Seeds"**—garden seeds—The Page Seed Co., Greene, N. Y.
- N-P**—lawn seed—The Chas. H. Lilly Co., Seattle, Wash.
- Oh-Boy**—seeds—Rudy Patrick Seed Co., Kansas City, Mo.
- Old English**—lawn seed—Philadelphia Seed Co., Inc., Philadelphia, Pa.
- Old Gold**—field, flower and garden seeds—L. L. Olds Seed Co., Madison, Wis.
- Old Homestead**—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.
- Old Orchard Brand**—seeds—Rex D. Pearce, Moorestown, N. J.
- Olds**—field seeds—L. L. Olds Seed Co., Madison, Wis.
- O & M**—field, garden, lawn seeds and seed grains—O & M Seed Co., Green Springs, Ohio.
- "O & M Northern Grown Seed Corn and Seed Oats Always Give Best Results"**—field seeds—O & M Seed Co., Green Springs, Ohio.
- Olympic Brand**—true Colonial Bent—The Chas. H. Lilly Co., Seattle, Wash.
- Oregon Certified Brand**—bent grass seed—Lewis & Clark Seed Co., Astoria, Ore.
- Oriole**—field and bird seeds—Wm. G. Scarlett & Co., Baltimore, Md.
- Oscobrand**—field seeds—Ouren Seed Co., Council Bluffs, Iowa.
- "Our Business Is Growing"**—garden seeds—Waldo Rohnert Co., Gilroy, Calif.
- "Our Seeds Grow Friends"**—seeds—The J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- "Over 50 Years of Agricultural Achievement"**—Aggeler & Musser Seed Co., Los Angeles, Calif.
- P**—field seeds—A. S. Paterson & Co., Ltd., Dunedin, New Zealand.
- Pacific**—lawn seed—The Chas. H. Lilly Co., Seattle, Wash.
- "Page's Standard Quality Seeds"**—garden, field and flower seed—The Page Seed Co., Greene, N. Y.
- Paramount**—field and garden seeds—Paramount Seed Co., Stockton, Calif.
- Park Vale**—field seeds—Seaboard Seed Co., Philadelphia, Pa.
- Parkview**—lawn seed—Northrup, King & Co., Minneapolis, Minn.
- Pa-Se-Co**—seed corn—The Page Seed Co., Greene, N. Y.
- Patriot Brand**—field seeds—Seaboard Seed Co., Philadelphia, Pa.
- "Patriot—for the Good of the Country"**—field seeds—Seaboard Seed Co., Philadelphia, Pa.
- Peak of Perfection**—field and garden seeds—Paramount Seed Co., Stockton, Calif.
- Pedrick's**—high quality seeds—George R. Pedrick & Sons, Pedricktown, N. J.
- Pep**—lawn grass seed—Peppard Seed Co., Kansas City, Mo.
- Pep Pop**—pop corn—Peppard Seed Co., Kansas City, Mo.
- Pepseco**—"Cream of the Crop" field seeds—Peppard Seed Co., Kansas City, Mo.
- Perfection**—field seed—Geo. P. Sexauer & Son, Brookings, S. D.
- Permaturf**—lawn seed—Twin City Seed Co., Minneapolis, Minn.
- "Philadelphia's Oldest Seed House"**—garden and lawn seeds, bulbs—Robert Buist Co., Philadelphia, Pa.
- Pilgrim Brand**—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.
- Pine Tree**—farm seeds—The Albert Dickinson Co., Chicago, Ill.
- Pioneer**—alfalfa—Northrup, King & Co., Berkeley, Calif.
- "Plant Hart's Seeds"**—garden seeds—The Chas. C. Hart Seed Co., Wethersfield, Conn.
- "Plant Page's Seeds—They Grow"**—garden, field and flower seeds—The Page Seed Co., Greene, N. Y.
- Platte**—seeds—The Nebraska Seed Co., Omaha, Nebr.
- "Precision Performance"**—seed beans—McCrea Seed Co., Inc., Santa Barbara, Calif.
- Preferred**—seeds—T. W. Wood & Sons, Richmond, Va.
- Premier**—lawn seed—F. H. Woodruff & Sons, Inc., Milford, Conn.
- Premium**—seeds—Germain's Seed & Plant Co., Los Angeles, Calif.
- Premium Grade Seeds**—field seeds—The C. S. Brent Seed Co., Inc., Louisville, Ky.
- "Prices May Get Business But It Takes Quality to Hold It"**—field, flower and garden seeds—Robert Nicholson Seed Co., Dallas, Texas.
- Pride**—hybrid seed corn—Twin City Seed Co., Minneapolis, Minn.
- Pride Hybrids**—Interstate Seed & Grain Co., Fargo, N. D.
- Pride of the North**—field seeds and grain—Twin City Seed Co., Minneapolis, Minn.
- Puget Sound Grown**—seeds—Leckenby Seed Co., Seattle, Wash.
- Purcell's Feeds**—Purcell Seed Co., Evansville, Ind.
- Pure Bred Seeds Brand**—garden seeds—Condon Bros., Seedsmen, Rockford, Ill.
- "Pure Tested Seeds"**—Holmes Seed Co., Canton, Ohio.
- Purgain**—pigeon feed—The Philadelphia Seed Co., Inc., Philadelphia, Pa.
- Puritan**—field seed—Sphar & Co., Winchester, Ky.
- Purity**—field, flower and garden seed—Robert Nicholson Seed Co., Dallas, Texas.
- "Purity and Reliability Since 1907"**—seeds—J. P. Snapp & Sons, Limestone, Tenn.
- P-WSCO**—garden seeds—Pieters-Wheeler Seed Co., Gilroy, Calif.
- Quaker**—field seeds—The Philadelphia Seed Co., Philadelphia, Pa.
- "Quaker—The Finest of the Crop"**—field seeds—The Philadelphia Seed Co., Inc., Philadelphia, Pa.
- "Quality Always—Everything for the Farm and Garden"**—Liefgreen Seed Co., Phoenix, Ariz.
- "Quality H & T Seeds"**—Jacob Hartz Seed Co., Stuttgart, Ark.
- "Quality, Integrity, Service"**—seed—Geo. P. Sexauer & Son, Brookings, S. D.
- Quality Seeds**—field seeds—Stollers Seed House, Paulding, Ohio.
- "Quality Seeds Since 1869"**—seeds—Hamilton Seed & Coal Co., Cedar Rapids, Iowa.
- "Quality Seeds that Grow"**—field and garden seeds—Valker-Christensen Co., Inc., Minot, N. D.

- "Quality Since 1892"**—garden seeds—The Chas. C. Hart Seed Co., Wethersfield, Conn.
- Queen Brand**—field seeds—The Albert Dickenson Co., Chicago, Ill.
- Queen City**—lawn seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- Quicklawn Brand**—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.
- Radway's**—garden and field seeds—I. L. Radwaner Seed Co., Inc., New York, N. Y.
- Rainy Basin**—field seeds—Newday Seeds, Inc., Fargo, N. D.
- R B 1876**—garden seeds—Rogers Bros. Seed Co., Chicago, Ill.
- Rbest Feeds Brand**—feeds—The Bowman Seed Co., Concordia, Kans.
- "Red Top People—Tip Top Sales"**—seeds—Shultz Seed Co., Olney, Ill.
- Regal Brand**—seeds—Rudy-Patrick Seed Co., Kansas City, Mo.
- Reliable**—field seed—J. M. Schultz Seed Co., Dieterich, Ill.
- Reliable Brand**—field seeds—Advance Seed Co., Phoenix, Ariz.
- Reliable Garden Seeds**—Michael-Leonard Co., Sioux City, Iowa.
- Reliable Seeds Brand**—garden seeds—Waldo Rohnert Co., Gilroy, Calif.
- "Reliable Seed for the South Since 1900"**—field seed—R. E. Lambert & Sons, Darlington, Ala.
- Rex Brand**—seeds—Rudy-Patrick Seed Co., Kansas City, Mo.
- Robandsons**—garden seeds—Lawrence Robinson & Sons, Modesto, Calif.
- Robin-Seeds**—vine seeds—Lawrence Robinson & Sons, Modesto, Calif.
- Rob-See-Co**—garden seeds and seed corn—J. C. Robinson Seed Co., Waterloo, Nebr.
- Rohco Brand**—lettuce seed—Waldo Rohnert Co., Gilroy, Calif.
- Rose Brand**—field seeds—Crawfordsville Seed Co., Crawfordsville, Ind.
- Rose Bud**—garden seeds and bulbs—Robert Buist Co., Philadelphia, Pa.
- Royal**—field and grass seeds—Rudy-Patrick Seed Co., Kansas City, Mo.
- Sam Brand**—field seeds—The Sedgwick Alfalfa Mills, Sedgwick, Kan.
- Santa Barbara Seed Beans**—McCrea Seed Co., Santa Barbara, Calif.
- "Schultz's Seeds Satisfy"**—field seeds—J. M. Schultz Seed Co., Dieterich, Ill.
- Scott's**—lawn seed—O. M. Scott & Sons Co., Marysville, Ohio.
- "Seal of Quality Bulbs"**—bulbs—Cameron & Co., Seattle, Wash.
- Sealed Tag Brand**—seeds—A. N. Levin, Chattanooga, Tenn.
- Security**—field seeds—Cargill, Inc., Minneapolis, Minn.
- "Seedsmen for Over a Century"**—garden and lawn seeds, bulbs—Robert Buist Co., Philadelphia, Pa.
- "Seed Stoller Seed for All Your Needs"**—Stollers Seed House, Paulding, Ohio.
- "Seedsmen Since 1828"**—garden and lawn seeds, bulbs—Robert Buist Co., Philadelphia, Pa.
- Seeds Since 1845**—seeds—Corneli Seed Co., St. Louis, Mo.
- "Seed with a Background"**—pepper and tomato seed—Joseph White Co., Bridgeton, N. J.
- "Seeds of Rare Plants"**—seeds—Rex. D. Pearce, Moorestown, N. J.
- "Seeds that Grow"**—W. Atlee Burpee Co., Philadelphia, Pa.
- "Seeds that Grow"**—garden, field and flower seeds—The Chas. C. Hart Seed Co., Wethersfield, Conn.
- "Seeds that Satisfy"**—Strayer Seed Farms, Hudson, Iowa.
- "Seed that Succeed"**—garden, field and lawn seed—S. D. Woodruff & Sons, Inc., Orange, Conn.
- "Seeds that Grow, Need Any?"**—The Nebraska Seed Co., Omaha, Nebr.
- Seeds of True Value**—Purcell Seed Co., Evansville, Ind.
- Service**—field seeds—The Atlantic Seed Co., Inc., Philadelphia, Pa.
- Service First Brand**—field seeds—International Seed, Inc., New York, N. Y.
- "Serving the South Since 1919"**—Shuler & Smoak, Orangeburg, S. C.
- Shaditurf**—lawn seed—Twin City Seed Co., Minneapolis, Minn.
- Shady Lawn Brand**—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.
- Shady Nook**—lawn seed—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- Shadyplace**—lawn seed—Northrup, King & Co., Berkeley, Calif.
- Shady Spot**—lawn grass mixture—Duryea Seed Co., Inc., New York, N. Y.
- "Shields Sells Seeds"**—Shields, Buhl, Idaho.
- "Shurco Seed Sure Success"**—garden seeds—The John Mosbell Co., Montvale, N. J.
- S & S (Service & Satisfaction)**—field and garden seeds—Shuler & Smoak, Orangeburg, S. C.
- Silver Coin**—field seeds—Shultz Seed Co., Inc., Olney, Ill.
- "Since 1820"**—Comstock, Ferre & Co., Wethersfield, Conn.
- Sioux**—field, garden and flower seeds—Michael-Leonard Co., Sioux City, Iowa.
- Six (6)**—brands of lawn seed—The Albert Dickinson Co., Chicago, Ill.
- Six Green Stripes**—blue grass seed—The Nebraska Seed Co., Omaha, Nebr.
- Skaqit Valley Brand**—garden seeds—J. A. Boyce Co., Mt. Vernon, Wash.
- Solar Value**—field seeds—Henry Hirsch & Sons, Inc., Toledo, Ohio.
- Songster**—mixed bird seed—Ferry-Morse Seed Co., San Francisco, Calif.
- Soo-Bred**—bantam sweet corn—Michael-Leonard Co., Sioux City, Iowa.
- "Specializing in Sudan"**—field seeds—Transit Grain & Comm. Co., Ft. Worth, Texas.
- Square Deal**—timothy seed—The Albert Dickinson Co., Chicago, Ill.
- Star**—timothy seed—The Philadelphia Seed Co., Inc., Philadelphia, Pa.
- Sterling**—farm seeds and feeds—Northrup, King & Co., Minneapolis, Minn.
- Sterling**—lawn seed—Northrup, King & Co., Berkeley, Calif.
- Stokesdale**—tomato seed—Francis C. Stokes Co., Vincentown, N. J.
- "Stollers' Quality Seed for All Your Needs"**—Stollers Seed House, Paulding, Ohio.
- Stork**—field seeds—Cargill, Inc., Seed Div., Minneapolis, Minn.
- "Strictly High Grade Seeds"**—Martin Rispin Seed Store, Lansing, Ill.
- Suburban**—lawn seed—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- "Suc-Seed with Page's Seeds"**—field, flower and garden seeds—The Page Seed Co., Greene, N. Y.
- "Suhroco Seed Sure Success"**—garden seeds—John Mosbell Co., Montvale, N. J.
- Sunflower**—field and garden seeds—The Borteldes Seed Co., Lawrence, Kan.
- Sunnybrook**—seeds—W. Atlee Burpee Co., Philadelphia, Pa.
- Sunrise Brand**—strawberry clover—The Chas. H. Lilly Co., Seattle, Wash.
- "Super Cleaned"**—field seeds—J. L. Donley & Bro., Ashland, Ohio.
- Superior**—lawn grass mixture—Duryea Seed Co., Inc., New York, N. Y.
- Superfine Brand**—lawn seed—The J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- "Supplying Seeds of Highest Quality for 37 Years"**—field seeds—Dakota Improved Seed Co., Mitchell, S. D.
- Supreme**—seed grain, corn and grass seeds—Goldberg Seed & Feed Co., Fargo, N. D.
- Sycamore**—lawn seed—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- S-X Brand**—seeds—Geo. P. Sexauer & Son, Brookings, S. D.
- "Tested Radway Seeds—Always Dependable"**—seeds—I. L. Radwaner Seed Co., Inc., New York, N. Y.
- "The Best in Seed Corn Since 1878"**—C. S. Clark & Sons, Wakeman, Ohio.
- "The Mail Order Seed House"**—seeds—J. H. Speers & Co., Ltd., Saskatoon, Sask., Canada.
- "The Oldest and Largest Seed House in the South"**—T. W. Wood & Sons, Richmond, Va.
- "The Oldest Seed House in America"**—garden seeds—D. Landreth Seed Co., Bristol, Pa.
- "The Purity and Hardiness of America's Forefathers"**—Sphar & Co., Winchester, Ky.
- "The Red Top People of the World"**—field seeds—Shultz Seed Co., Inc., Olney, Ill.
- "The Seed with a Background"**—garden seeds—Joseph White Co., Bridgeton, N. J.
- "The Sure Growing Kind"**—field seeds—Louisville Seed Co., Inc., Louisville, Ky.
- "They Grow Better—They Yield Better"**—seeds—Walter S. Schell, Inc., Harrisburg, Pa.
- Thor-o-Brand**—seeds—Law, Sommer Pty., Ltd., Melbourne, Australia.
- Thunderbird Brand**—field seeds—Capital Fuel, Feed & Seed Co., Phoenix, Ariz.
- Tiger Brand**—seeds—Sommer Bros. Seed Co., Pekin, Ill.
- Tiger**—red clover seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.
- "Tiger Brand Seeds for All Your Needs"**—seeds—Sommer Bros. Seed Co., Pekin, Ill.
- Tip Top**—field seed—Shultz Seed Co., Olney, Ill.
- T.M.**—garden seeds—Thomas Madsen & Co., New York, N. Y.
- T-N-T Pop Corn**—The Barteldes Seed Co., Lawrence, Kans.
- Top Flight Bantam**—hybrid sweet corn—Michael-Leonard Co., Sioux City, Iowa.
- Trinity Brand**—field and grass seed—The Belt Seed Co., Inc., Baltimore, Md.
- Tru-Green**—lawn seed—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- Tru-Krost**—hybrid seed corn—Twin City Seed Co., Minneapolis, Minn.
- Tru-Shade**—lawn seed—F. H. Woodruff & Sons, Inc., Milford, Conn.
- Truval**—brand of true value—Purcell Seed Co., Evansville, Ind.
- Turf-Maker**—lawn seed mixture—F. H. Woodruff & Sons, Inc., Milford, Conn.
- U. S. Brand**—garden seeds—United States Seed Co., St. Louis, Mo.
- Utryit**—seeds—The Nebraska Seed Co., Omaha, Nebr.
- Valley**—seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- Value Brand**—field seeds—Henry Hirsch & Sons, Inc., Toledo, Ohio.
- Vaughan's**—field, garden and grass seeds, and bulbs—Vaughan's Seed Store, Chicago, Ill.
- Victory-Grow**—vegetable seeds—I. L. Radwaner Seed Co., Inc., New York, N. Y.
- Viking brand**—farm seeds—Northrup, King & Co., Minneapolis, Minn.
- Villa Green**—field seeds—Seaboard Seed Co., Philadelphia, Pa.
- Village Green**—lawn grass mixtures—Duryea Seed Co., Inc., New York, N. Y.
- WAB**—seeds—W. Atlee Burpee Co., Philadelphia, Pa.
- Waller's**—flower seeds—Waller-Franklin Seed Co., Guadalupe, Calif.
- Warbler**—mixed bird seed—Ferry-Morse Seed Co., San Francisco, Calif.
- Warrior Brand**—field and garden seeds—Michael-Leonard Co., Sioux City, Iowa.
- Washington Park**—lawn seed—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- "Watch Us Grow"**—bulbs and nursery stock—American Bulb Co., Chicago, Ill.
- W.D.G. Blue Label Dahlias**—Grown where Dahlias grow Best—Wayland Dahlia Gardens, Wayland, Mich.
- "Weather-pruf"**—hybrid corn—Jacques Seed Co., Prescott, Wis.
- Weenonah**—field seeds—Northern Field Seed Co., Winona, Minn.
- "We Grind—We Mix"**—field seeds—Banner Mills, operated by Globe Seed & Feed Co., Twin Falls, Idaho.
- "We Sow One of the World's Richest Valleys to Bring You Successful Seeds"**—garden seeds—F. Lagomarsino & Sons, Sacramento, Calif.
- Wesco**—seeds—Wetsel Seed Co., Inc., Harrisonburg, Va.
- "Western Headquarters for Quality Bulbs"**—Cameron & Co., Seattle, Wash.
- Westland**—farm seeds—Northrup, King & Co., Berkeley, Calif.
- "When in the Market 'For-get-Me-Not'"**—Julius Loewith, Inc., New York, N. Y.
- "White's Quality Seeds"**—garden seeds—Joseph White Co., Bridgeton, N. J.

Whiz-Bang—popcorn—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Wolf—red clover seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.

Woodco Brand—vegetable and grass seed—F. H. Woodruff & Sons, Inc., Milford, Conn.

Woodland Shade—lawn seed—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Wood's Dixie Lawn Grass—Grows Green in Dixie Sunshine—T. W. Wood & Sons, Richmond, Va.

Wood's Tested Seeds—field, garden and flower seeds—T. W. Wood & Sons, Richmond, Va.

Woodruff Seeds—vegetable seeds and grasses—F. H. Woodruff & Sons, Inc., Milford, Conn.

X. L. Quality—seeds—Chambers Seed Co., Inc., Louisville, Ky.

XX-1—hybrid seed corn—Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo.

Yellows Resistant—cabbage seed—Wisconsin Cabbage Seed Co., Racine, Wis.

Yorkshire Park—lawn grass seed—Duryea Seed Co., Inc., New York, N. Y.

"Your Garden Needs Barteldes Seeds"—field and garden seeds—The Barteldes Seed Co., Lawrence, Kan.

Zwaan's Snowdrift—cauliflower seed—Zwaan & Van der Molen, Voorburg, Holland.

Allied Trades

AA Quality—fertilizer—American Agricultural Chemical Co., New York, N. Y.

AA Westcoast—raffia—McHutchison & Co., New York, N. Y.

"Accepted by Millions as Standard for over 80 years"—seamless bags—Royal River Mills, Inc., Baltimore, Md.

"Ace of Bug Killers"—insecticide—One-Spot Co., Elkridge, Md.

Acidox—poultry remedies—Geo. H. Lee Co., Omaha, Neb.

Acme—insecticide—Acme White Lead & Color Works, Detroit, Mich.

Actiroie—insecticide—Hammond Paint & Chem. Co., Beacon, N. Y.

A & D—Peat moss stable bedding—Atkins & Durbrow, Inc., New York, N. Y.

Aeroil—oil burning equipment—Aeroil Burner Co., Inc., West New York, N. J.

Agate—seed scale—Henry Troemner, Philadelphia, Pa.

Agrico—fertilizer—American Agricultural Chemical Co., New York, N. Y.

Alfco—crab grass killer—American Liquid Fertilizer Co., Marietta, Ohio.

"A Hudson Sprayer for Everybody, Everywhere"—H. D. Hudson Mfg. Co., Chicago, Ill.

"A Live Line for Live Dealers"—garden sprays Calif. Spray Chemical Corp., Elizabeth, N. J.

All Purpose Hoe—garden tools—Easyfold Mfg., Faribault, Minn.

Amalead—bag seals—E. J. Brooks Co., Newark, N. J.

American—peat moss—American Soil Sponge Selling Corp., New York, N. Y.

American Bean and Pea Thresher—American Grain Separator Co., Minneapolis, Minn.

Ames—cotton bags—Ames Bag Co., Cleveland, Ohio.

Amesaks—cotton bags—Ames Bag Co., Cleveland, Ohio.

Annia-Germ—fumigant insecticide—Douglas Chem. & Supply Co., Kansas City, Mo.

Ant-B-Gon—Ant Control—Calif. Spray Chem. Corp., Elizabeth, N. J.

Ant Gas—ant and mole exterminator—Hammond Paint & Chemical Co., Beacon, N. Y.

Antrap—ant killer—Hammond Paint & Chem. Co., Beacon, N. Y.

Antrol—house and garden pest controls—The A. S. Boyle Co., Jersey City, N. J.

Antx—repellent—Nott Mfg. Co., Mt. Vernon, N. Y.

Ant-X Ant Traps—Nott Mfg. Co., Mt. Vernon, N. Y.

Ant-X Jelly Bait—Nott Mfg. Co., Mt. Vernon, N. Y.

A.P.G.—seed packets and catalog envelopes—American Paper Goods Co., Chicago, Ill.

"A Package Sealed is a Package Saved"—bag seals—E. J. Brooks Co., Newark, N. J.

App-I-Set—plant hormone—Dow Chemical Co., Midland, Mich.

Arason—seed treatment—Du Pont Semesan Co., Inc., Wilmington, Dela.

Ariens-Tiller—harrow—Ariens Co., Brillion, Wis.

Arrow—peat moss—New Amsterdam Import & Supply Co., Inc., New York, N. Y.

"A Scale for Every Seed Need"—scales—Detecto-Gram Scales, Brooklyn, N. Y.

"A Treatment for Every Major Crop"—Du Pont Semesan Co., Inc., Wilmington, Dela.

"Automatic Seed Packaging"—The Brown Bag Filling Machine Co., Fitchburg, Mass.

B & T Creosote—C.A. Wood Preserver Co., St. Louis, Mo.

Bacon—cleaning and scarifier equipment—A. T. Ferrell & Co., Saginaw, Mich.

Barkwool—insulation—Redwood Fibre Products Co., Inc., Santa Cruz, Calif.

"Battle Creek Health Foods for Dogs"—dog foods—Miller's Dog Foods, Battle Creek, Mich.

Bartlett—garden and lawn tools, sprayers, tree paints—Bartlett Mfg. Co., Detroit, Mich.

B-B—farm and garden specialties—Ball-Biddle Co., Riverton, N. J.

B-B Dust—bean beetle dust—Hammond Paint & Chem. Co., Beacon, N. Y.

B₁ plus Pellets—vitamins—Wm. T. Thompson Co., Los Angeles, Calif.

B₁ Vitamizer—Wm. T. Thompson Co., Los Angeles, Calif.

Bee Brand—insecticides and disinfectants—The McCormick Sales Co., Baltimore, Md.

Bemis "A's"—cotton seamless seed bag—Bemis Bro. Bag Co., St. Louis, Mo.

Bemis Special—threads for machine closing of bags—Bemis Bro. Bag Co., St. Louis, Mo.

Bemis Special Thread—non-stop thread—Bemis Bro. Bag Co., St. Louis, Mo.

Best on Earth—fertilizer—Summers Fertilizer Co., Baltimore, Md.

"Better Printing—Bigger Sales"—printing—A. B. Morse Co., St. Joseph, Mich.

Bighead—sprayers—Dobbins Mfg. Co., Elkhart, Ind.

Biotol—sardine oil—Atkins & Durbrow, Inc., New York, N. Y.

Bird Neponset—flower pots, covers and earth bands—Bird & Son, Inc., East Walpole, Mass.

Black Arrow No. 5000—insecticide—The McCormick Sales Co., Baltimore, Md.

Black Leaf 40—insecticide, poultry lice killer, worm remedy and dog repellent—Tobacco By-Products & Chemical Corp., Louisville, Ky.

Black Leaf Worm Powder and Pellets—poultry roundworm remedy—Tobacco By-Products & Chem. Corp., Louisville, Ky.

Bordow—insecticide—Dow Chemical Co., Midland, Mich.

Brite Weave Burlap—bags—Chase Bag Co., Chicago, Ill.

Brown—seed packet filling machines and seed packets—Brown Bag Filling Machine Co., Fitchburg, Mass.

Bug-Geta—insect control—Calif. Spray Chem. Corp., Elizabeth, N. J.

Buhler—patented vibrationless sieve drives—S. Howes Co., Inc., Silver Creek, N. Y.

Bulldozer—sprayers, pumps and farm equipment—The F. E. Myers & Bro. Co., Ashland, Ohio.

Burpee-Gro Tablets—plant food—W. Atlee Burpee Co., Philadelphia, Pa.

C-A—Wood Preserver—Carbolineum America—C.A. Wood Preserver Co., St. Louis, Mo.

Cap Brush—roost applicator for delousing poultry—Tobacco By-Products & Chem. Corp., Louisville, Ky.

Carbolineum America—C.A. Wood Preserver Co., St. Louis, Mo.

Cardinal Brand—wild bird food and suet cake—Garden Products Co., St. Louis, Mo.

Carter—disc separators, scalpels, aspirators and grain mills—Hart-Carter Co., Minneapolis, Minn.

Cascade—vertical seed mixers—S. Howes Co., Inc., Silver Creek, N. Y.

Cattle Comfort—stock spray—Hammond Paint & Chemical Co., Beacon, N. Y.

Ceresan—seed treatment—Du Pont Semesan Co., Inc., Wilmington, Del.

Certified Premier—Swedish Peat Moss—Premier Peat Moss Corp., New York, N. Y.

Champion—weighing and filling machines—S. Howes Co., Inc., Silver Creek, N. Y.

Chappel's Biskits—fresh meat biskits for dogs—Quaker Oats Co., Rockford, Illinois.

Chase—seed bags—Chase Bag Co., Chicago, Ill.

Chicago—seeder—Cyclone Mfg. Co., Urbana, Ind.

Chinchola—chinch bug exterminator—Hammond Paint & Chem. Co., Beacon, N. Y.

Cincinnati "A"—cotton seamless bags—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Clipper—seed and grain cleaning and grading equipment—A. T. Ferrell & Co., Saginaw, Mich.

Clipper Cleaners Clean Cleaner—A. T. Ferrell & Co., Saginaw, Mich.

Cloverleaf—horticultural printing—McFarland Adv. Service, Harrisburg, Pa.

Clute—air-lift elevators and fruit graders—Oliver Mfg. Co., St. Louis, Mo.

Combination—fertilizer spreader and seeder—Cyclone Seeder Co., Urbana, Ind.

"Complete Plant Food"—Swift & Co., Vigoro Dept., Chicago, Ill.

"Complete Seed Testing Equipment"—Seed-buro Equipment Co., Chicago, Ill.

Compound Lever—tree trimming equipment—Bartlett Mfg. Co., Detroit, Mich.

Congo—raffia—McHutchison & Co., New York, N. Y.

Copper-Rotenone—combined dust—Mechling Bros., Chemicals, Philadelphia, Pa.

Copper Solution—fungicide—Hammond Paint & Chem. Co., Beacon, N. Y.

Cornume—corn ear worm control—Arrow Products Co., Carlstadt, N. J.

Crinkle—"Plant covers give complete crop protection all season at the lowest cost"—plant protectors—Oldmill Paper Products Corp., Long Island City, N. Y.

Cyanogas—fumigant—American Cyanamid & Chemical Corp., New York, N. Y.

Cyclone—poultry supplies and broadcast seeder—Cyclone Mfg. Co., Urbana, Ind.

Cyclone Fruit Picker's Bag, No. 1—Cyclone Mfg. Co., Urbana, Ind.

Cyclone Fruit Picker's Bag, No. 10—Cyclone Mfg. Co., Urbana, Ind.

Cyclone Fruit Picker's Bucket—Cyclone Mfg. Co., Urbana, Ind.

Dandelion Killer—weed killer—Hammond Paint & Chem. Co., Beacon, N. Y.

Deltaseal—small package bag closure—Bemis Bro. Bag Co., St. Louis, Mo.

De Luxe Line—seed packets—Stecker-Traung Litho. Corp., Rochester, N. Y.

Detecto-Gram—scales—Detecto-Gram Scales, Brooklyn, N. Y.

Dickinson's—dog food—The Albert Dickinson Co., Chicago, Ill.

Disbrow—seed bags, packets, envelopes, paper boxes—Disbrow Mfg. Co., Inc., Newark, N. J.

DN—dust—Dow Chemical Co., Midland, Mich.

DN—dry-mix—Dow Chemical Co., Midland, Mich.

Dobbins—dusters and sprayers—Dobbins Mfg. Co., Elkhart, Ind.

Dog-Check—repellent—Nott Mfg. Co., Mt. Vernon, N. Y.

Dog Skat—dog and cat repellent—Hammond Paint & Chemical Co., Beacon, N. Y.

Dogzoff—dog repellent—Bohlender Plant Chemicals, Inc., Tipp City, Ohio.

Dowax—Dow Chemical Co., Midland, Mich.

Dowfume—Dow Chemical Co., Midland, Mich.

Dow Chloropicrin—Dow Chemical Co., Midland, Mich.

Dow Dichloroethyl Ether—Dow Chemical Co., Midland, Mich.

Dow Methal Bromide—fumigant—Dow Chemical Co., Midland, Mich.

Dowspray-Dormant—Dow Chemical Co., Midland, Mich.

Driconure—fertilizer—all organic fertilizer—Atkins & Durbrow, Inc., New York, N. Y.

Dri-Tite—waterproof tarpaulins—Bemis Bro. Bag Co., St. Louis, Mo.

Dritomic—wetttable sulfur—Mechling Bros. Chemicals, Philadelphia, Pa.

- DuBay New Improved "Ceresan"**—seed disinfectant—Du Pont-Semesan Co., Inc., Wilmington, Del.
- DuBay "Nu Green"**—seed disinfectant—Du Pont-Semesan Co., Inc., Wilmington, Del.
- DuBay 2% "Ceresan"**—seed disinfectant—Du Pont-Semesan Co., Inc., Wilmington, Del.
- DuBay "Semesan, Jr."**—seed disinfectant—Du Pont-Semesan Co., Inc., Wilmington, Del.
- DuBay "Semesan Bel"**—seed disinfectant—Du Pont-Semesan Co., Inc., Wilmington, Del.
- DuBay "Semesan"**—seed disinfectant—Du Pont-Semesan Co., Inc., Wilmington, Del.
- DuBay Special "Semesan"**—seed disinfectant—Du Pont-Semesan Co., Inc., Wilmington, Del.
- Ducky**—dog food—The Albert Dickinson Co., Chicago, Ill.
- D-X**—rotenone and pyrethrum spray—B. G. Pratt Co., New York, N. Y.
- Eagle Machine Thread**—twine—Fulton Bag & Cotton Mills, Atlanta, Ga.
- Eagle Sail Twine**—twine—Fulton Bag & Cotton Mills, Atlanta, Ga.
- Easyfold**—display equipment—Easyfold Mfg., Faribault, Minn.
- Economy**—mailing bags—Bemis Bro. Bag Co., St. Louis, Mo.
- Eddy-Giant**—scarifier—A. T. Ferrell & Co., Saginaw, Mich.
- Easy-Wear**—garden gloves—National Glove Co., Columbus, Ohio.
- Ejecto**—sprayers, pumps and farm equipment—The F. E. Myers & Bro. Co., Ashland, Ohio.
- Erosionet**—open-mesh for preventing soil and seed washing on lawns and terraces—Bemis Bro. Bag Co., St. Louis, Mo.
- Ethocil**—Dow Chemical Co., Midland, Mich.
- Eureka**—seed cleaners, separators and graders, lawn seed mixers, scarifiers and seed processing machinery—S. Howes Co., Inc., Silver Creek, N. Y.
- Everlastic**—glazing bedding putty—Hammond Paint & Chemical Co., Beacon, N. Y.
- Eveready**—power sprayer—Dobbins Mfg. Co., Elkhart, Ind.
- "Everything for the Dog"**—pet supplies—Spratt's Patent, Ltd., Newark, N. J.
- "Every Packaging Need"**—packets—Disbrow Mfg. Co., Newark, N. J.
- "Every Vitamin for Every Need"**—Wm. T. Thompson Co., Los Angeles, Calif.
- Exact Weight**—scales—Exact Weight Scale Co., Columbus, Ohio.
- Exadol**—cod liver oil—Atkins & Durbrow, Inc., New York, N. Y.
- Expan**—propagating pots—Paxton Products Co., Riverside, Calif.
- Expan**—tree protector—Paxton Products Co., Riverside, Calif.
- Expert Line**—grain and seed cleaners, corn sorters, hullers, scarifiers, fanning mills—Cleveland Mfg. Co., Minneapolis, Minn.
- Extrax**—complete organic insecticide—Calif. Spray Chem. Corp., Elizabeth, N. J.
- Eye-Identify**—seals—Stoffel Seals Co., Inc., Chicago, Ill.
- E-Z**—fertilizer spreader—Germain Seed & Plant Co., Los Angeles, Calif.
- "Farm Tested and Proved"**—H. D. Hudson Mfg. Co., Chicago, Ill.
- Farmogerm**—inoculant—Earp-Thomas Laboratories, Bloomfield, N. J.
- Fertil-Spray**—spraying device—Hydroponic Chemical Co., Inc., New York, N. Y.
- Ferto-Pots**—planting pots—The Allen Co., Pittstown, N. J.
- Fibo**—dog food—Spratt's Patent, Ltd., Newark, N. J.
- "Field Warehousing by Douglas-Guardian"**—Douglas-Guardian Whse. Corp., Chicago, Ill.
- Filmfast**—insecticide spreader—Mechling Bros. Chemicals, Philadelphia, Pa.
- "Fine Scale Makers Since 1900"**—scales—Detecto Scales, Inc., Brooklyn, N. Y.
- Fire Fly**—garden tools and power mowers—S. L. Allen & Co., Inc., Philadelphia, Pa.
- Flex-not**—repellent—Nott Mfg. Co., Mt. Vernon, N. Y.
- Flex-Beam**—garden tool handles—Union Fork & Hoe Co., Columbus, Ohio.
- Flex-O-Glass**—glass substitute—Flex-O-Glass Mfg. Co., Chicago, Ill.
- Flick**—tick and lice remedy for dogs—Garden Products Co., St. Louis, Mo.
- Fly-Away**—spray—Hammond Paint & Chemical Co., Beacon, N. Y.
- Flyzoff**—fly repellent—Bohlender Plant Chemicals, Inc., Tipp City, Ohio.
- Force's**—mole and gopher killer—Carajan Chemical Co., Inc., Fremont, Mich.
- For-Get-Me-Not**—natural and colored raffia and peat moss—Julius Loewith, Inc., New York, N. Y.
- "For Better Control Use Penetrol"**—Kay Fries Chemicals, Inc., New York, N. Y.
- Formacide**—fungicide—Hammond Paint & Chem. Co., Beacon, N. Y.
- "For the Land's Sake—Use Plantabbs"**—plant food—Plantabbs Co., Baltimore, Md.
- Four-In-One**—percentage scale—Seedburo Equipment Co., Chicago, Ill.
- Fruitone**—hormone spray—American Chemical Paint Co., Ambler, Pa.
- "Full Meal Plantabbs"**—plant food—Plantabbs Co., Baltimore, Md.
- Fultex**—waterproofed canvas tarpaulins and covers—Fulton Bag & Cotton Mills, Atlanta, Ga.
- Fulton "A"**—cotton seamless bags—Fulton Bag & Cotton Mills, Atlanta, Ga.
- Fulton's A-1**—insect spray—Plantabbs Co., Baltimore, Md.
- Fulton's Plantabbs**—plant food—Plantabbs Co., Baltimore, Md.
- Fulton Brown**—tarpaulins—Fulton Bag & Cotton Mills, Atlanta, Ga.
- Fulton Probe Stripe**—seed bags—Fulton Bag & Cotton Mills, Atlanta, Ga.
- Fumigato**—fumigant—Douglas Chem. & Supply Co., Kansas City, Mo.
- Fun-L-Fill**—sprayers—Dobbins Mfg. Co., Elkhart, Ind.
- G & O**—resale merchandise for seed stores—Goulard & Olena, Inc., New York, N. Y.
- Galloway**—seed packets—Schmidt Lithograph Co., San Francisco, Calif.
- Garden Volck**—positive contact insecticide with Nicotine—Calif. Spray Chem. Corp., Elizabeth, N. J.
- Gardex**—Soil-Flow Tools—Gardex, Inc., Michigan City, Ind.
- Gard-N-Cart**—garden implement—Masters Planter Co., Benton Harbor, Mich.
- Gat Spray**—lawn sprayer—The Chas. H. Lilly Co., Seattle, Wash.
- Germaco Products**—garden specialties—Germain Seed & Plant Co., Los Angeles, Calif.
- Geha**—fish food—Schoemann and Mayer, Inc., New York, N. Y.
- Germazone**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Giant**—scarifier—A. T. Ferrell & Co., Saginaw, Mich.
- Glass-O-Net**—mesh base glass substitute—Flex-O-Glass Mfg. Co., Chicago, Ill.
- Glass Valve**—sprayers, pumps and farm equipment—The F. E. Myers & Bro. Co., Ashland, Ohio.
- Goldena**—feeds—Goldberg Seed & Feed Co., Fargo, N. Dak.
- Gold Leaf**—tobacco powder—Tobacco By-Products & Chem. Corp., Louisville, Ky.
- Go-Nex**—insecticides—Goulard & Olena, Inc., New York, N. Y.
- "Good Advertising is an Investment—Poor Advertising is an Expense"**—printing—A. B. Morse Co., St. Joseph, Mich.
- Go-West**—the improved insect bait—Agricultural Laboratories, Inc., Columbus, Ohio.
- Go-West**—bait—The Chas. H. Lilly Co., Seattle, Wash.
- GPM**—granulated peat moss—Atkins & Durbrow, Inc., New York, N. Y.
- Grape and Rose Dust**—fungicide—Hammond Paint & Chemical Co., Beacon, N. Y.
- Graslets**—dog vitamins—Quaker Oats Co., Rockford, Ill.
- Greenol**—copper fungicide for mildews and other diseases—Calif. Spray Chem. Corp., Elizabeth, N. J.
- Grip-Lock**—bag seal—E. J. Brooks Co., Newark, N. J.
- Grisco Feeds**—poultry feeds—Griscom & Co., Inc., New York, N. Y.
- "Grow What You Eat"**—garden tools and power mowers—S. L. Allen & Co., Inc., Philadelphia, Pa.
- Guardnet**—protecting fabric for shading plants and balling roots—Bemis Bro. Bag Co., St. Louis, Mo.
- Gustafson**—seed treator—Ben Gustafson Seed Grain Machinery Co., Fargo, N. D.
- Hall**—printers—W. F. Hall Printing Co., Chicago, Ill.
- Hammond Weed Killer**—Hammond Paint & Chem. Co., Beacon, N. Y.
- Hammond's**—insecticides, fungicides, paints and putties—Hammond Paint & Chemical Co., Beacon, N. Y.
- Handy Andy**—weed cutters—Union Fork & Hoe Co., Columbus, Ohio.
- "Has Served the Farmers for Over 30 Years"**—The Nitragin Co., Inc., Milwaukee, Wis.
- Harco**—sprayer—Germain Seed & Plant Co., Los Angeles, Calif.
- Hart**—precision graders and uni-flow separators—Hart-Carter Co., Minneapolis, Minn.
- Heco**—envelopes—Heco Envelope Co., Chicago, Ill.
- Heinrich**—envelopes—Heinrich Envelope Co., Minneapolis, Minn.
- Heller**—store equipment—Heller & Co., Montpelier, Ohio.
- Henure**—fertilizer—Atkins & Durbrow, Inc., New York, N. Y.
- Hi-Lo-Fosphate**—soil test for available phosphates—Urbana Laboratories, Urbana, Ill.
- Hi-Wall**—tourists tents—Bemis Bro. Bag Co., St. Louis, Mo.
- Hoffer Test**—for nitrogen and potash—Urbana Laboratories, Urbana, Ill.
- Horicum Lime**—sulphur concentrate and fungicide—Hammond Paint & Chemical Co., Beacon, N. Y.
- Hormodin**—powders—Merck & Co., Inc., Rahway, N. J.
- Hormodin No. 1, No. 2 & No. 3 Powder**—root forming chemical—Merck & Co., Inc., Rahway, N. J.
- Horn**—seeder—Cyclone Mfg. Co., Urbana, Ind.
- Horticultural Printing Specialists**—printing—A. B. Morse Co., St. Joseph, Mich.
- Hotkaps**—plant protectors—Germain Seed & Plant Co., Los Angeles, Calif.
- Howes**—equipment for seed houses—S. Howes Co., Inc., Silver Creek, N. Y.
- Hudson**—garden equipment—H. D. Hudson Mfg. Co., Chicago, Ill.
- Humogerm**—inoculant—Earp-Thomas Laboratories, Bloomfield, N. J.
- H. W. K.**—weed killer—Hammond Paint & Chemical Co., Beacon, N. Y.
- Hydroxide**—double duty potato spray—Mechling Bros. Chemicals, Philadelphia, Pa.
- "Hyponex grows Superior Plants in Soil, Sand or Water"**—plant food—Hydroponic Chemical Co., Inc., New York, N. Y.
- Invincible**—bean polishers and bean cleaning and grading equipment—S. Howes Co., Inc., Silver Creek, N. Y.
- Isco Spray**—mill spray—Innis, Speiden & Co., New York, N. Y.
- Instant Weed-Cane**—Weed-Knell, Aurora, Ill.
- Iron King**—garden tools and power mower—S. L. Allen & Co., Inc., Philadelphia, Pa.
- Jak Tung**—trucks—Thomas Truck & Caster Co., Keokuk, Iowa.
- Japtox**—Japanese bean beetle destroyer—Mechling Bros. Chemicals, Philadelphia, Pa.
- JayBee**—world's standard grinder for capacity, economy and endurance—J. B. Sedberry, Inc., Franklin, Tenn.
- Kalo**—inoculant—Kalo Inoculant Co., Quincy, Ill.
- "Just Dust and Plant"**—hormones—American Chemical Paint Co., Ambler, Pa.
- "Just Say G & O"**—insecticides—Goulard & Olena, Inc., New York, N. Y.
- Kem**—liquid plant food—Kem-ical Corp., Oradell, N. J.
- Ken-L-Biskit**—dog food of champions—Quaker Oats Co., Rockford, Ill.
- Ken-L-Ration**—dog food of champions—Quaker Oats Co., Rockford, Ill.
- Ken-L-Worth**—fresh meat dog biskit—Quaker Oats Co., Rockford, Ill.
- Kerosene Emulsion**—insecticide—Hammond Paint & Chemical Co., Beacon, N. Y.
- "Kills the Moles in Their Holes"**—mole and gopher killer—Carajan Chemical Co., Inc., Fremont, Mich.

- Kilmice**—repellent—Nott Mfg. Co., Mt. Vernon, N. Y.
- Kix**—water conditioner, spreader and sticker—Hammond Paint & Chemical Co., Beacon, N. Y.
- Kleen-Ezy**—poultry equipment—H. D. Hudson Mfg. Co., Chicago, Ill.
- Knock Em Dead**—insecticides—Goulard & Olena, Inc., New York, N. Y.
- Kreme Skin**—beauty utility glove—The National Glove Co., Columbus, Ohio.
- Krussow**—double spiral seed separator—Cleveland Mfg. Co., Minneapolis, Minn.
- Kwik-Camp**—auto tents—Bemis Bro. Bag Co., St. Louis, Mo.
- "Laboratory accuracy for industrial weighing"**—scales—Exact Weight Scale Co., Columbus, Ohio.
- Lac-Hi-Potash**—soil test for available potassium—Urbana Laboratories, Urbana, Ill.
- Larvacide**—chlorpicrin fumigant for insect, soil and rodents—Innis, Speiden & Co., New York, N. Y.
- "Larvacide—The Safer Fumigant"**—Innis, Speiden & Co., New York, N. Y.
- Leemulsion**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Lee's Dip**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Lee's Dri-Rub**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Lee's Lice Killer**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Lee's Louse Powder**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Lee's Hog Oil Wormer**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Lee's Vet. Dosing Syringe**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Legume-Aid**—inoculant—Agricultural Laboratories, Inc., Columbus, Ohio.
- Leonard**—horticultural knives, nursery spades, arboricultural supplies—A. M. Leonard & Son, Piqua, Ohio.
- Lenonet**—consumer-size open-mesh bag for fruits and vegetables—Bemis Bro. Bag Co., St. Louis, Mo.
- Life-O-Plant**—plant food—Bohlender Plant Chemicals, Inc., Tipp City, Ohio.
- Lilly's**—calf meal and dog food—The Chas. H. Lilly Co., Seattle, Wash.
- Liqua-Vita**—liquid fertilizer—American Liquid Fertilizer Co., Marietta, Ohio.
- Liquid Slug Shot**—insecticide—Hammond Paint & Chem. Co., Beacon, N. Y.
- Little Giant**—seeder—Cyclone Mfg. Co., Urbana, Ind.
- Little Wonder**—hedge trimmer—Detco Mfg. Co., Oaks, Pa.
- Loma**—The perfect plant food—Tennessee Corp., New York, N. Y.
- Loma 2-1 Dust**—insecticide fungicide—Tennessee Corp., New York, N. Y.
- Low Down**—sprayers, pumps and farm equipment—The F. E. Myers & Bro. Co., Ashland, Ohio.
- Lyric**—mixed bird seed—Philadelphia Seed Co., Philadelphia, Pa.
- McCormick Greenhouse Spray**—insecticide—The McCormick Sales Co., Baltimore, Md.
- McCormick's Rotenone Dust**—dust—The McCormick Sales Co., Baltimore, Md.
- McQueen's**—legume bacteria—Agricultural Laboratories, Inc., Columbus, Ohio.
- Macmillan**—garden books—The Macmillan Co., New York, N. Y.
- Mainstay**—twine for hand closing of bags, not a "kink" in a carload—Bemis Bro. Bag Co., St. Louis, Mo.
- "Makes Things Grow"**—plant food—The Smith Agri. Chemical Co., Columbus, Ohio.
- Maro-Meat**—dog food—Quaker Oats Co., Rockford, Ill.
- McQueen's**—inoculator—"The Farmer's Friend Since 1908"—Agricultural Laboratories, Inc., Columbus, Ohio.
- Magnet**—gummed tape—The Tanglefoot Co., Grand Rapids, Mich.
- Mash Nic**—Tobacco By-Prod. & Chem. Corp., Louisville, Ky.
- Masters**—garden implements—Masters Planter Co., Benton Harbor, Mich.
- Mechling's Scale Oil**—insecticide—Mechling Bros. Chemicals, Philadelphia, Pa.
- Merck**—animal dips, disinfectants, fumigants, lice killers, seed disinfectants, fungicide—Merck & Co., Inc., Rahway, N. J.
- Mike Sulfur**—Dow Chemical Co., Midland, Mich.
- "Miller's Dog Foods"**—food for dogs—Miller's Dog Foods, Battle Creek, Mich.
- Miller's Kibbles**—Battle Creek Health food for dogs—Miller's Dog Foods, Battle Creek, Mich.
- "Mice Proof Seed Cases"**—Heller & Co., Montpelier, Ohio.
- Milorganite**—fertilizer—Sewerage Commission, Milwaukee, Wis.
- Mix**—bean sorters—S. Howes Co., Inc., Silver Creek, N. Y.
- Mole-Nots**—pest control—Nott Mfg. Co., Mt. Vernon, N. Y.
- Morcrop**—fertilizer—The Chas. H. Lilly Co., Seattle, Wash.
- Mor-Les-Nitrate**—soil test for nitrates—Urbana Laboratories, Urbana, Ill.
- Mosquitozoff**—mosquito exterminator—Bohlender Plant Chemicals, Inc., Tipp City, Ohio.
- Mt. Beacon**—green shading—Hammond Paint & Chemical Co., Beacon, N. Y.
- Mouse-Nots**—pest control—Nott Mfg. Co., Mt. Vernon, N. Y.
- Myers**—sprayers—F. E. Myers & Bro. Co., Ashland, Ohio.
- Naptoside**—insecticide and soil fumigant—Hammond Paint & Chem. Co., Beacon, N. Y.
- "Nation Wide Service"**—Stecher-Traung Lithograph Corp., Rochester, N. Y.
- Neponset**—flower pots, flower pot covers and earth bands—Bird & Son, Inc., East Walpole, Mass.
- New Idea**—knapsack sprayer—The F. E. Myers & Bro. Co., Ashland, Ohio.
- New Improved "Ceresan"**—seed treatment—Du Pont Sementes Co., Inc., Wilmington, Dela.
- Nico-Fume Liquid**—greenhouse spray and fumigant—Tobacco By-Products & Chem. Corp., Louisville, Ky.
- Nico-Fume Powder**—greenhouse fumigant—Tobacco By-Products & Chem. Corp., Louisville, Ky.
- Nicotine Soap**—insecticide—Hammond Paint & Chemical Co., Beacon, N. Y.
- Nicotrol**—aphicide—Kay-Fries Chemicals, Inc., New York, N. Y.
- Nitragin**—soil and legume inoculator—The Nitragin Co., Inc., Milwaukee, Wis.
- "Nitragin—the oldest and most widely used inoculator in America"**—inoculator—The Nitragin Co., Inc., Milwaukee, Wis.
- No Crow**—crow repellent—Hammond Paint & Chem. Co., Beacon, N. Y.
- Nod-O-Gen**—pretested inoculator—The Albert Dickinson Co., Chicago, Ill.
- Nursery Volck**—foliage oil spray—Calif. Spray Chem. Corp., Elizabeth, N. J.
- Nu-Vim**—vitamins and hormones—Garden Products Co., St. Louis, Mo.
- O.K.**—poultry litter—Atkins & Durbrow, Inc., New York, N. Y.
- Old English**—liquid putty—Hammond Paint & Chemical Co., Beacon, N. Y.
- Old English**—sheep manure—Philadelphia Seed Co., Philadelphia, Pa.
- Old English**—turf builder and plant food—Philadelphia Seed Co., Philadelphia, Pa.
- Old English Lawn Klenser**—Japanese beetle exterminator—Philadelphia Seed Co., Philadelphia, Pa.
- Oliver**—gravity separators, corn graders, aspirators, seed treaters, bag cleaners, shaking shoes and portable electric blowers—Oliver Mfg. Co., St. Louis, Mo.
- Original**—greenhouse white paint—Hammond Paint & Chem. Co., Beacon, N. Y.
- Oriole**—pigeon feeds—Wm. G. Scarlett & Co., Baltimore, Md.
- Ortho**—scientific pest control—Calif. Spray Chem. Corp., Elizabeth, N. J.
- Oxford**—cleaning and scarifier equipment—A. T. Ferrell & Co., Saginaw, Mich.
- "Packets That Sell the Seed"**—Stecher-Traung Litho. Corp., Rochester, N. Y.
- Paradow**—Dow Chemical Co., Midland, Mich.
- Peat O'Maine**—garden and poultry peat moss (Maine)—Atkins & Durbrow, Inc., New York, N. Y.
- Peerless**—gunning asbestos asphaltum—Hammond Paint & Chemical Co., Beacon, N. Y.
- Peerless**—poultry feed—Geo. P. Sexauer & Son, Brookings, S. Dak.
- Penetrol**—spreader nicotine, lead arsenate—Kay-Fries Chemicals, Inc., New York, N. Y.
- Perfection**—dog and fox food—Perfection Foods Co., Battle Creek, Mich.
- Perfection**—sprayers and garden tools—H. D. Hudson Mfg. Co., Chicago, Ill.
- Perfection Coliverol**—powdered cod liver oil—Perfection Foods Co., Battle Creek, Mich.
- Perfecto-Sote**—C-A-Wood Preserver Co., St. Louis, Mo.
- Perfect Dispersion**—aluminum paint for greenhouse use—Hammond Paint & Chem. Co., Beacon, N. Y.
- Pest-Kit**—kit containing material to combat insects and diseases—Hammond Paint & Chemical Co., Beacon, N. Y.
- Pickpaste**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Pinjectol**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Pioneer**—garden and poultry peat moss (Ontario, Canada)—Atkins & Durbrow, Inc., New York, N. Y.
- Planet, Jr.**—garden tools and power mowers—S. L. Allen & Co., Inc., Philadelphia, Pa.
- Plantgard**—insecticides—Garden Products Co., St. Louis, Mo.
- Plantabbs**—plant food and fertilizer—Plantabbs Corp., Baltimore, Md.
- "Plantabbs Plus Vitamin B"**—plant food—Plantabbs Co., Baltimore, Md.
- Plant Dinner**—plant food—William H. Rorer, Inc., Philadelphia, Pa.
- Plasti Chrome**—garden tools—Union Fork & Hoe Co., Columbus, Ohio.
- Plastic Screen**—transparent screen—Flex-O-Glass Mfg. Co., Chicago, Ill.
- Post-O-Meter Scales**—Detecto-Gram Scales, Brookline, N. Y.
- "Pratt's Oil Sprays for Every Need and Every Purse"**—B. G. Pratt Co., New York, N. Y.
- Premier**—Vacuum Cleaned Certified Swedish Peat Moss—Premier Peat Moss Corp., New York, N. Y.
- Free-Plant**—plant stimulant—Wm. T. Thompson Co., Los Angeles, Calif.
- "Printed Salesmakers"**—printing—A. B. Morse Co., St. Joseph, Mich.
- Purgain**—pigeon, poultry and rabbit feeds and pigeon health grit—Philadelphia Seed Co., Philadelphia, Pa.
- Pussy-Check**—repellent—Nott Mfg. Co., Mt. Vernon, N. Y.
- Pyrote**—Rotenone-Pyrethrum Liquid Spray—Mechling Bros. Chemicals, Philadelphia, Pa.
- "Quality Plant Food for Everything Green that Grows"**—Tennessee Corp., New York, N. Y.
- "Quality Seed Bags"**—Fulton Bag & Cotton Mills, Atlanta, Ga.
- Racine**—fanning mill type seed cleaners—S. Howes Co., Inc., Silver Creek, Mo.
- Rat Lunches**—exterminator—Rat Lunches Co., Carroll, Iowa.
- Rat-Nots**—repellent—Nott Mfg. Co., Mt. Vernon, N. Y.
- Rat-Not Paste**—Nott Mfg. Co., Mt. Vernon, N. Y.
- Rat-X**—rat exterminator—Douglas Chem. & Supply Co., Kansas City, Mo.
- Razor-Back Shovels**—"The only shovel with a backbone"—Union Fork & Hoe Co., Columbus, Ohio.
- Red Arrow**—garden spray—The McCormick Sales Co., Baltimore, Md.
- Red Head**—bag holder—Bemis Bro. Bag Co., St. Louis, Mo.
- Red Star Brand**—raffia—McHutchison & Co., New York, N. Y.
- Ree-Root**—root stimulant—Wm. T. Thompson Co., Los Angeles, Calif.
- "Reliability"**—McHutchison & Co., New York, N. Y.
- Rice**—seed mill—W. A. Rice Co., Jerseyville, Ill.
- Rich-or-Poor**—soil test for acidity—Urbana Laboratories, Urbana, Ill.
- Rid-O-Spot**—insecticides—Goulard & Olena, Inc., New York, N. Y.
- Rip-Cord**—quick opening closure for textile bags—Bemis Bro. Bag Co., St. Louis, Mo.

- Roach Flakes**—"It Get's 'Em' for roaches and waterbugs—Agricultural Laboratories, Inc., Columbus, Ohio.
- Roach-Nots**—Nott Mfg. Co., Mt. Vernon, N. Y.
- Rodopell**—bulb protector against moles, rats, mice, etc.—Atkins & Durbrow, Inc., New York, N. Y.
- Rootone**—the Hormone Powder—root stimulant, seed and bulb stimulant and fungicide—American Chemical Paint Co., Ambler, Pa.
- Root Quality**—bee supplies—A. I. Root Co., Medina, Ohio.
- Rose Dust**—fungicide—Hammond Paint & Chemical Co., Beacon, N. Y.
- Rotenone "400"**—insecticide—Mechling Bros. Chemicals, Philadelphia, Pa.
- Rotenone "75"**—insecticide—Mechling Bros. Chemicals, Philadelphia, Pa.
- Royal River A**—seamless cotton bags—Royal River Mills, Inc., Baltimore, Md.
- Sacco**—fertilizer, plant food, fertilizer spreader and seeder—Smith Agricultural Chemical Co., Columbus, Ohio.
- Sanahide**—mange lotion—Schoemann and Mayer, Inc., New York, N. Y.
- Sani-soil**—soil disinfectants—Redwood Fibre Products Co., Inc., Santa Cruz, Calif.
- Sanoseed**—seed disinfectant—Ansbacher-Siegle Corp., Brooklyn, N. Y.
- Scalecide**—complete dormant spray—B. G. Pratt Co., New York, N. Y.
- Scale Oil**—Mechling Bros. Chemicals, Philadelphia, Pa.
- Screen-Glass**—plastic covered wire cloth—Flex-O-Glass Mfg. Co., Chicago, Ill.
- Seal Brand Packet**—seed packets—The Durbrow Mfg. Co., Newark, N. J.
- "Sealed-Brooks"**—bag seals—E. J. Brooks Co., Newark, N. J.
- "Seed Worth Planting Is Worth Treating"**—DuBay Products—Du Pont Semesan Co., Inc., Wilmington, Del.
- Seedburo Quality**—grain, seed and flour grading equipment—Seedburo Equipment Co., Chicago, Ill.
- Select**—electronic weighing equipment—Exact Weight Scale Co., Columbus, Ohio.
- Semesan Jr.**—seed disinfectant—Du Pont Semesan Co., Inc., Wilmington, Del.
- Semesan Bel**—seed disinfectant—Du Pont Semesan Co., Inc., Wilmington, Del.
- Semesan Thiosan**—seed treatment—Du Pont Semesan Co., Inc., Wilmington, Del.
- Shadowgraph**—scale—Exact Weight Scale Co., Columbus, Ohio.
- Sho-Gro**—seed germinators—Seedburo Equipment Co., Chicago, Ill.
- Shuredry**—waterproof canvas tarpaulins and covers—Fulton Bag & Cotton Mills, Atlanta, Ga.
- Sidney**—cleaning equipment—Sidney Grain Machinery Co., Sidney, Ohio.
- Silver Prince**—portable sprayer—F. E. Myers & Bro. Co., Ashland, Ohio.
- Silver Seal**—aluminum paint for greenhouse use—Hammond Paint & Chem. Co., Beacon, N. Y.
- Slug Shot**—insecticide in dust form—Hammond Paint & Chemical Co., Beacon, N. Y.
- "Soil-Flow"**—garden tools—Gardex, Inc., Michigan City, Ind.
- Sorbex**—moss peat—Atkins & Durbrow, Inc., New York, N. Y.
- Spear**—sample grain envelopes—Heinrich Envelope Co., Minneapolis, Minn.
- Speedline**—garden tools—Union Fork & Hoe Co., Columbus, Ohio.
- Sperguson**—treatment for seed—U. S. Rubber Co., Naugatuck Chem. Div., New York, N. Y.
- Spix**—dog food—Spratt's Patent, Ltd., Newark, N. J.
- Spor-Go**—copper mildew spray—Mechling Bros. Chemicals, Philadelphia, Pa.
- Spratt's**—dog food and supplies—Spratt's Patent, Ltd., Newark, N. J.
- Spray Catalizer**—B. G. Pratt Co., New York, N. Y.
- Spraycide**—guaranteed household insecticide—Agricultural Laboratories, Inc., Columbus, Ohio.
- Stabilized Rotenone Dust**—insecticide—Hammond Paint & Chemical Co., Beacon, N. Y.
- Stand-Bill**—jar fount—Cyclone Mfg. Co., Urbana, Ind.
- Stanley's**—crow repellent—Cedar Hill Formulae Co., New Britain, Conn.
- Stauffer**—sulphur products—Stauffer Chemical Co., New York, N. Y.
- Stim-U-Plant**—"The modern Plant Food Tablet"—Agricultural Laboratories, Inc., Columbus, Ohio.
- "Stops Pre-Harvest Drop"**—hormones—American Chemical Paint Co., Ambler, Pa.
- Storm King**—greenhouse white paint and white glazing compound—Hammond Paint & Chemical Co., Beacon, N. Y.
- Styron**—Dow Chemical Co., Midland, Mich.
- Sulfocide**—fungicide—B. G. Pratt Co., New York, N. Y.
- Sulrote**—rotenone-sulfur dusting mixture—Mechling Bros. Chemicals, Philadelphia, Pa.
- Superbill**—sprayers and dusters—Dobbins Mfg. Co., Elkhart, Ind.
- Super-Copper**—fungicide—Hammond Paint & Chem. Co., Beacon, N. Y.
- Superior**—grain and seed cleaning machinery—Superior Separator Co., Minneapolis, Minn.
- Superior Scale Oil-spray**—Mechling Bros. Chemicals, Philadelphia, Pa.
- Sure Grip**—sprayers, pumps and farm equipment—The F. E. Myers & Bro. Co., Ashland, Ohio.
- Sure Shot**—concentrated pyrethrum soap spray—Hammond Paint & Chemical Co., Beacon, N. Y.
- "Take Off Your Hats to the Myers"**—sprayers, pumps and farm equipment—The F. E. Myers & Bro. Co., Ashland, Ohio.
- "Tampor Proof"**—car seals—Chicago Car Seal Co., Chicago, Ill.
- Tanglefoot**—insect repellent—The Tanglefoot Co., Grand Rapids, Mich.
- Terrafume D**—insect control—Arrow Products Co., Carlstadt, N. J.
- Terrafume D**—Japanese beetle control—Arrow Products Co., Carlstadt, N. J.
- Tetraflume**—rat exterminator—Douglas Chem. & Supply Co., Kansas City, Mo.
- "The Little Man with the Big Flower"**—plant foods—Wm. T. Thompson Co., Los Angeles, Calif.
- "The Original Legume Inoculator"**—The Nitragin Co., Inc., Milwaukee, Wis.
- "The Seeder that Scatters Seed evenly"**—Cyclone Mfg. Co., Urbana, Ind.
- "The Silent Salesman"**—seed packets—Stecher-Traung Litho. Corp., Rochester, N. Y.
- "The Standard of Comparison Wherever Grain Cleaning Equipment Is Discussed"**—Hart-Carter Co., Minneapolis, Minn.
- "The Mill with the Trouble Left Out"**—grinder—J. B. Sedberry, Inc., Franklin, Tenn.
- "The World Is Our Proving Ground"**—grain cleaning machinery—Hart-Carter Co., Minneapolis, Minn.
- "The World's Standard Grinder for Capacity, Economy and Endurance"**—J. B. Sedberry, Inc., Franklin, Tenn.
- "Their Last Meal"**—repellent—Nott Mfg. Co., Mt. Vernon, N. Y.
- "There's a Thompson Vitamin for Every Need"**—Wm. T. Thompson Co., Los Angeles, Calif.
- "There Is No Substitute for Exact Weight"**—scales—Exact Weight Scale Co., Columbus, Ohio.
- "They're Just Right Strong But Light"**—farm and garden tools—Union Fork & Hoe Co., Columbus, Ohio.
- "They Work with the Soil—Not Against It"**—garden tools—Gardex, Inc., Michigan City, Ind.
- Thompson's**—Vitamin B₁ pellets—Wm. T. Thompson Co., Los Angeles, Calif.
- Thompson's Vitamizer**—sprayer—Wm. T. Thompson Co., Los Angeles, Calif.
- Thrip Juice**—insecticide—Hammond Paint & Chemical Co., Beacon, N. Y.
- Tonax**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Torsion Balance**—laboratory scales—Torsion Balance Co., New York, N. Y.
- Train-etts**—weathered trellis netting—German Seed & Plant Co., Los Angeles, Calif.
- Transplantone**—the hormone-vitamin powder—American Chemical Paint Co., Ambler, Pa.
- Transplant Tablet**—root stimulant—Wm. T. Thompson Co., Los Angeles, Calif.
- "Treat Seed Every Year—It Pays"**—DuBay products—Du Pont Semesan Co., Inc., Wilmington, Del.
- Tree Band Paste**—tree protector—Hammond Paint & Chemical Co., Beacon, N. Y.
- Tree Tanglefoot**—insect control—The Tanglefoot Co., Grand Rapids, Mich.
- Triad**—insecticide—Hammond Paint & Chem. Co., Beacon, N. Y.
- Tri-ogen**—insecticide—Rose Mfg. Co., Beacon, N. Y.
- Troemner**—scales—Henry Troemner, Philadelphia, Pa.
- Try-Sax**—cotton bag with probe stripes—Bemis Bro. Bag Co., St. Louis, Mo.
- Twist-Ems**—plant ties—Germain Seed & Plant Co., Los Angeles, Calif.
- Two-In-One Mailing Bags**—sample mailing bags—Bemis Bro. Bag Co., St. Louis, Mo.
- 2% Ceresan**—seed treatment—Du Pont Semesan Co., Inc., Wilmington, Del.
- Uni-Culture**—inoculant—Kalo Co., Quincy, Ill.
- Union**—farm and garden tools—Union Fork & Hoe Co., Columbus, Ohio.
- Union Right Repair Handles**—The Union Fork & Hoe Co., Columbus, Ohio.
- Union Special**—bag closing machine—Union Special Machine Co., Chicago, Ill.
- Universal**—combination huller, scarifier, cleaner and grader—American Grain Separator Co., Minneapolis, Minn.
- Urbana Culture**—legume inoculator—Urbana Laboratories, Urbana, Ill.
- Urbana Humus**—legume inoculator—Urbana Laboratories, Urbana, Ill.
- Vacuum Cleaned Premier**—Swedish Peat Moss—Premier Peat Moss Corp., New York, N. Y.
- Vapo-Spray**—poultry remedies—Geo. H. Lee Co., Omaha, Neb.
- Veget-Aid**—complete plant food—Mechling Bros. Chemicals, Philadelphia, Pa.
- Vigoro**—plant food—Swift & Co., Chicago, Ill.
- Vi-o-tex**—violet ray material—Flex-O-Glass Mfg. Co., Chicago, Ill.
- Visinet**—shipping size open-mesh bags for fruit and vegetables—Bemis Bro. Bag Co., St. Louis, Mo.
- Vitality**—insecticides—The Chas. H. Lilly Co., Seattle, Wash.
- Vitamist**—"Vitamize As You Sprinkle"—Burgess Seed & Plant Co., Galesburg, Mich.
- Warp's Window Fabric**—waxed cloth—Flex-O-Glass Mfg. Co., Chicago, Ill.
- Wedo**—fertilizer and plant food—Smith Agricultural Chemical Co., Columbus, Ohio.
- Weed Killer**—weed exterminator—Hammond Paint & Chem. Co., Beacon, N. Y.
- Weed-Knell**—instant weed puller—Weed Knell, Aurora, Ill.
- Wenzelmann**—sprayers, pumps and farm equipment—The F. E. Myers & Bro. Co., Ashland, Ohio.
- Whale Oil Soap**—insecticide—Hammond Paint & Chem. Co., Beacon, N. Y.
- Window-Fabric**—waxed cloth—Flex-O-Glass Mfg. Co., Chicago, Ill.
- Winner Fanning Mills**—grain cleaner—American Grain Separator Co., Minneapolis, Minn.
- Wizard**—sheep and cow manure—Pulverized Manure Co., Chicago, Ill.
- Woodco**—lawn food—F. H. Woodruff & Sons, Inc., Milford, Conn.
- Wyr-O-Glass**—Wire Base Glass Substitute—Flex-O-Glass Mfg. Co., Chicago, Ill.
- Wyr-Kraft**—building paper—Flex-O-Glass Mfg. Co., Chicago, Ill.
- XX Superior Brand**—raffia—McHutchison & Co., New York, N. Y.
- XXX Superior Brand**—raffia—McHutchison & Co., New York, N. Y.
- "You get the Most for Your Money when you buy an Oliver"**—gravity separators—Oliver Mfg. Co., St. Louis, Mo.
- Zotox**—crab grass killer and chick weed killer—Garden Products Co., St. Louis, Mo.

ALFALFA SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

STATE	Acreage Harvested			Yield Per Acre			Production		
	Average 1932-41	1942	1943	Average 1932-41	1942	1943	Average 1932-41	1942	1943
	<i>Acres</i>			<i>Bushels</i>			<i>Bushels</i>		
Ohio	18,800	9,000	2,000	1.04	.75	.70	19,600	6,800	1,400
Indiana	9,830	2,000	1,500	.92	.85	.75	8,610	1,700	1,100
Michigan	77,400	38,000	25,000	1.02	.75	.65	75,800	28,000	16,200
Wisconsin	30,900	9,000	5,000	.99	.80	.70	31,400	7,200	3,500
Minnesota	85,930	25,000	55,000	1.27	.90	.90	106,040	22,000	50,000
Iowa	14,330	7,900	8,600	1.27	1.05	.90	17,150	8,300	7,700
North Dakota	17,490	8,000	24,000	.94	.80	.80	17,160	6,400	19,200
South Dakota	19,670	14,500	22,000	1.09	1.10	1.00	20,720	16,000	22,000
Nebraska	62,700	72,000	97,000	1.36	1.30	1.25	84,660	94,000	121,000
Kansas	80,500	120,000	142,000	1.60	1.30	1.40	126,120	156,000	199,000
Oklahoma	55,900	76,000	91,000	1.96	1.75	2.00	104,300	133,000	182,000
Texas	5,370	8,000	5,000	2.68	4.00	2.25	13,900	32,000	11,200
Montana	37,500	69,000	67,000	2.03	1.30	1.45	79,800	90,000	97,000
Idaho	47,400	21,000	32,000	2.24	1.70	1.60	103,450	36,000	51,000
Wyoming	17,450	22,000	21,000	2.02	1.50	1.80	34,690	33,000	38,000
Colorado	21,150	16,200	32,000	2.12	1.60	2.00	45,730	26,000	64,000
New Mexico	5,010	6,300	5,000	2.99	3.00	2.00	13,740	18,900	10,000
Arizona	27,000	33,000	31,000	4.30	4.10	3.20	107,000	135,000	99,000
Utah	34,400	27,000	33,000	1.82	1.50	1.85	64,300	40,000	61,000
Washington	13,580	2,300	1,700	1.60	3.30	2.70	15,660	7,600	4,600
Oregon	6,430	5,000	3,500	2.43	1.80	2.00	15,700	9,000	7,000
California	17,460	15,000	14,000	3.15	4.00	3.50	55,080	60,000	49,000
United States	694,410	606,200	718,300	1.69	1.60	1.55	1,147,780	966,900	1,114,900

¹ Short-time average.

TIMOTHY SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

STATE	Acreage Harvested			Yield Per Acre			Production		
	Average 1932-41	1942	1943	Average 1932-41	1942	1943	Average 1932-41	1942	1943
	<i>Acres</i>			<i>Bushels</i>			<i>Bushels</i>		
Pennsylvania	5,260	5,600	7,000	2.79	2.95	2.80	14,810	16,500	19,600
Ohio	41,500	53,000	50,000	3.22	3.35	2.90	142,100	178,000	145,000
Indiana	13,850	13,800	11,000	3.09	3.00	2.70	44,450	41,000	30,000
Illinois	57,080	30,000	24,000	2.52	2.80	2.80	153,070	84,000	67,000
Wisconsin	9,740	21,000	27,000	3.15	4.00	3.70	31,400	84,000	100,000
Minnesota	30,760	44,000	42,000	3.57	4.10	4.00	111,970	180,000	168,000
Iowa	226,900	210,000	178,000	3.39	4.30	4.40	862,020	903,000	783,000
Missouri	74,100	60,000	55,000	2.93	3.20	3.40	239,380	192,000	187,000
United States	460,070	437,400	394,000	3.21	3.84	3.81	1,601,180	1,678,500	1,499,600

RED CLOVER SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

STATE	Acreage Harvested			Yield Per Acre			Production		
	Average 1932-41	1942	1943	Average 1932-41	1942	1943	Average 1932-41	1942	1943
	<i>Acres</i>			<i>Bushels</i>			<i>Bushels</i>		
New York	7,530	9,600	12,000	1.19	1.00	1.30	9,110	9,600	15,600
Pennsylvania	23,700	13,000	28,000	.98	1.10	.85	23,080	14,300	24,000
Ohio	153,900	169,000	161,000	.98	.85	.70	145,500	144,000	113,000
Indiana	202,700	134,000	177,000	.93	.70	.60	182,000	94,000	106,000
Illinois	207,000	193,000	151,000	.95	.70	.70	199,200	135,000	106,000
Michigan	92,100	77,000	169,000	1.04	.95	.95	96,800	73,000	161,000
Wisconsin	77,300	120,000	235,000	1.18	.70	.80	88,500	84,000	188,000
Minnesota	32,150	42,000	48,000	1.36	1.00	1.20	43,120	42,000	58,000
Iowa	111,580	178,000	91,000	.79	.80	.70	93,620	142,000	64,000
Missouri	58,800	90,000	110,000	.99	1.10	1.10	62,330	99,000	121,000
Kansas	8,900	15,000	17,500	.79	1.00	.90	6,800	15,000	15,800
Maryland	25,300	14,000	18,000	1.14	.80	.80	27,540	11,200	14,400
Virginia	12,500	5,000	15,000	1.14	.80	1.10	14,520	4,000	16,500
Kentucky	14,000	18,200	20,000	1.43	1.65	1.00	20,240	30,000	20,000
Idaho	32,300	18,200	15,500	4.56	4.60	5.10	143,600	84,000	79,000
Washington	3,386	2,300	1,600	3.09	3.50	3.50	10,586	8,000	5,600
Oregon	17,430	12,000	10,000	2.54	3.10	3.50	43,900	37,000	35,000
United States	1,087,290	1,110,300	1,279,600	1.16	.92	.89	1,218,250	1,026,100	1,142,900

¹ Short-time average.

² Includes a small percentage of alsike clover seed.

ALSIKE CLOVER SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

STATE	Acreage Harvested			Yield Per Acre			Production		
	Average 1932-41	1942	1943	Average 1932-41	1942	1943	Average 1932-41	1942	1943
	Acres			Bushels			Bushels		
New York	1,340	1,000	1,000	1.57	1.80	1.80	2,160	1,800	1,800
Ohio	42,700	14,100	10,600	1.54	2.05	.90	61,300	29,000	9,500
Indiana	10,400	3,000	1,800	1.24	1.10	1.20	12,480	3,300	2,200
Illinois	15,750	7,000	6,000	1.45	2.00	1.60	23,020	14,000	9,600
Michigan	14,900	5,000	17,000	1.73	2.00	1.15	24,720	10,000	19,600
Wisconsin	12,640	8,000	14,000	1.92	2.50	2.40	25,140	20,000	34,000
Minnesota	26,790	22,000	26,000	2.56	2.40	2.30	70,100	53,000	60,000
Iowa	4,990	5,400	3,000	1.48	1.50	1.30	7,620	8,100	3,900
Missouri	1,680	1,000	1,000	1.33	1.20	1.30	2,210	1,200	1,300
Idaho	4,100	5,200	5,000	5.54	5.00	5.40	21,880	26,000	27,000
Oregon	15,500	17,500	16,000	4.28	4.90	4.40	68,100	86,000	70,000
United States	150,790	89,200	101,400	2.16	2.83	2.36	318,730	252,400	238,900

VELVETBEAN PRODUCTION¹

STATE	Total Average			Yield Per Acre			Production		
	Average 1932-41	1942	1943	Average 1932-41	1942	1943	Average 1932-41	1942	1943
	Thous. Acres			Pounds			Thous. Tons		
South Carolina	87	82	86	1,032	1,075	1,125	45	44	48
Georgia	1,195	1,009	1,030	837	810	820	498	409	422
Florida	204	197	205	575	540	600	59	53	62
Alabama	469	414	450	813	800	775	191	166	174
Mississippi	88	93	87	1,001	980	960	44	46	42
Louisiana	67	89	90	774	710	610	26	32	27
United States	2,109	1,884	1,948	820	796	796	862	750	775

¹ The figures refer to the yield and entire production of velvetbeans in the hull, whether grazed or harvested otherwise.

LESPEDEZA SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

STATE	Acreage Harvested			Yield Per Acre			Production		
	Average 1932-41	1942	1943	Average 1932-41	1942	1943	Average 1932-41	1942	1943
	Acres			Pounds			Thous. Pounds		
Indiana	122,800	14,800	22,500	1202	190	155	14,747	2,800	3,500
Illinois	120,250	8,600	15,000	1174	150	170	13,725	1,300	2,600
Missouri	115,875	180,000	290,000	1173	165	190	122,928	29,700	55,100
Kansas	125,750	46,000	53,000	1165	190	165	14,804	8,700	8,700
Virginia	21,500	34,000	25,000	226	270	200	4,756	9,200	5,000
North Carolina	114,300	150,000	135,000	169	230	230	19,727	34,500	31,000
South Carolina	124,000	37,000	38,000	1171	215	200	14,132	8,000	7,600
Georgia	116,000	35,000	40,000	1166	210	200	12,851	7,400	8,000
Kentucky	93,100	92,000	64,000	192	265	200	18,774	24,400	12,800
Tennessee	105,400	122,000	90,000	184	250	210	20,904	30,500	18,900
Alabama	110,000	16,000	10,000	1190	200	200	11,880	3,200	2,000
Mississippi	5,820	18,000	13,000	113	185	145	747	3,300	1,900
Arkansas	19,660	22,000	11,000	1190	275	185	11,939	6,000	2,000
Louisiana	4,510	11,600	7,500	110	130	110	524	1,500	820
United States	500,060	787,000	814,000	180.5	216.6	196.5	95,564	170,500	159,920

¹ Short-time average.

SWEETCLOVER SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

STATE	Acreage Harvested			Yield Per Acre			Production		
	Average 1932-41	1942	1943	Average 1932-41	1942	1943	Average 1932-41	1942	1943
	Acres			Bushels			Bushels		
Ohio	10,900	9,000	3,600	2.22	2.70	1.50	23,180	24,000	5,400
Indiana	6,070	5,900	4,000	2.24	1.90	2.40	13,290	11,200	9,600
Illinois	26,000	17,000	22,000	2.08	1.90	1.60	54,100	32,000	35,000
Michigan	110,200	5,000	5,000	12.90	3.30	2.50	129,880	16,500	12,500
Wisconsin	3,310	2,600	2,200	3.02	3.20	2.50	9,970	8,300	5,500
Minnesota	142,700	68,000	41,000	3.41	3.60	3.00	451,400	245,000	123,000
Iowa	26,800	9,300	6,000	2.31	2.00	1.70	57,180	18,600	10,200
Missouri	6,710	7,000	9,500	2.26	2.50	2.50	15,920	17,500	24,000
North Dakota	29,300	15,000	9,000	2.56	2.30	2.10	70,600	34,000	18,900
South Dakota	21,140	7,000	13,000	2.20	2.70	3.20	45,170	18,900	42,000
Nebraska	19,600	23,000	17,000	2.30	2.50	2.40	45,020	58,000	41,000
Kansas	24,400	32,000	35,000	2.57	2.50	2.60	64,430	80,000	91,000
Montana	4,420	5,400	4,500	2.78	3.70	3.50	12,520	20,000	15,800
Wyoming	2,880	3,000	1,600	3.31	3.10	3.00	9,570	9,300	4,800
Colorado	5,550	9,100	5,500	3.78	3.50	3.50	21,350	32,000	19,200
United States	334,880	218,300	178,900	2.81	2.86	2.56	908,640	625,300	457,900

¹ Short-time average.

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Banks Warehouses, Inc., William H., 209 S. La Salle St., Chicago 4, Ill.	208	Garwood Seed Co., H. D., Rocky Ford, Colo.	165
Barteldes Seed Co., The, Lawrence, Kan.	87	Germain Seed & Plant Co., 747 Terminal St., Los Angeles 21, Calif.	139
Belt Seed Co., Inc., The, Calvert & Pratt Sts., Baltimore, Md.	112	Gilbert Seed Co., D. H., Monticello, Fla.	174
Bemis Bros. Bag Co., 408 Pine St., St. Louis 2, Mo.	7	Ging & Co., Farina, Ill.	93
Beridon, E. J., Jr., Hamburg, La.	135	Globe Seed & Feed Co., Twin Falls, Idaho.	120
Bird & Son, Inc., Washington St., East Walpole, Mass.	197	Goldberg Seed & Feed Co., Fargo, N. Dak.	94
Bodger Seeds, Ltd., El Monte, Calif.	22, 23	Gooding Seed Co., The, Gooding, Idaho.	115
Bohlender Plant Chemicals, Inc., Tipp City, Ohio	198	Goulard & Olena, Inc., 140 Liberty St., New York, N. Y.	38
Bonahoom Seed Co., N., Hastings, Neb.	135	Govier & Co., Ltd., G. E., Howick, Quebec, Canada.	31
Bowman Seed Co., The, 5th & Broadway, Concordia, Kan.	48	Griscom & Co., Inc., 29 Broadway, New York, N. Y.	48, 177, 179, 183, 201, 203
Boyce Co., J. A., Box 324, Mt. Vernon, Wash.	173	Griswold Seed & Nursery Co., Lincoln, Neb.	94
Braslan Seed Growers Co., Inc., San Jose, Calif.	175	Hamilton Seed & Coal Co., 600 Oakland Ave., Cedar Rapids, Iowa.	96
Breck & Sons, Joseph, 85 State St., Boston 9, Mass.	38	Hammond Paint & Chemical Co., 100 Ferry St., Beacon, N. Y.	202
Brent Seed Co., Inc., The, C. S., 128 S. Broadway, Lexington, Ky.	91	Hart Seed Co., The Chas. C., 304 Main St., Wethersfield 9, Conn.	167
Brooks Co., E. J., 164 N. 13th St., Newark 7, N. J.	153	Hart-Carter Co., 684 19th Ave., N. E., Minneapolis, Minn.	111
Brown Bag Filling Machine Co., The, Fitchburg, Mass.	123	Haven Seed Co., Santa Ana, Calif.	191
Brown Seed Co., Alfred J., Grand Rapids, Mich.	10	Heinrich Envelope Co., 108 N. Washington St., Minneapolis 1, Minn.	204
Buckman, Denholm & Holden Seed Co., Lompoc, Calif.	52	Herbst Brothers, 92 Warren St., New York 7, N. Y.	161, 173
Buist Co., Robert, 4 and 6 S. Front St., Philadelphia 6, Pa.	42	Henry Hirsch & Sons, 110 S. Superior St., Toledo, Ohio.	140
Burgess Seed & Plant Co., Galesburg, Mich.	168	Hollenbach's Seed Store, 808 W. Lake St., Chicago 7, Ill.	172
Burpee Co., W. Atlee, Burpee Bldg., Philadelphia 32, Pa.	8, 9	Holmes Seed Co., The, 224 Cleveland Ave., N. W., Canton, Ohio.	96
Burrell Seeds, Inc., Rocky Ford, Colo.	78	Hopson Planting Co., Clarksdale, Miss.	131
Cameron & Co., 2134 Elliott Ave., Seattle 1, Wash.	178	Howes Co., Inc., S., Silver Creek, N. Y.	95
Capital Fuel, Feed & Seed Co., Box 1710, Phoenix, Ariz.	47	Hudson Mfg. Co., H. D., 589 E. Illinois St., Chicago, Ill.	71
Carajon Chemical Co., Inc., 26-34 W. Main St., Fremont, Mich.	175	Hurff Co., Edgar F., Swedesboro, N. J.	36
Cargill, Inc., Seed Division, P. O. Box 64, Minneapolis, Minn.	46	Idaho Grimm Alfalfa Seed Growers Assn., 395 S. Shillings Ave., Blackfoot, Idaho	126
Carl & Son, Roscoe J., 1115 Center St., Lansing, Mich.	128	Innis, Speiden & Co., 117 Liberty St., New York 6, N. Y.	65
Cedar Hill Formulae Co., The, P. O. Box 1129, New Britain, Conn.	Third Cover	International Seed, Inc., 11 Park Place, New York, N. Y.	136
Chambers Seed Co., Inc., Louisville 6, Ky.	47	Interstate Seed & Grain Co., Fargo, N. Dak.	140
Chicago Car Seal Co., 636-46 N. Western Ave., Chicago 12, Ill.	209	Jacques Seed Co., Prescott, Wis.	156
Christianson, Alf., Mt. Vernon, Wash.	172	Jenks-White Seed Co., Salem, Ore.	98
Clark & Sons, C. S., Wakeman, Ohio.	90	Johnston Seed Co., W. B., Enid, Okla.	229
Cleland Mfg. Co., 2900 Washington Ave., N., Minneapolis, Minn.	204	Josephine Growers' Cooperative Assn., Grants Pass, Ore.	98
Comstock, Ferre & Co., Wethersfield 9, Conn.	174	Kalo Inoculant Co., Quincy, Ill.	193
Condon Bros., Seedsmen, Rockford, Ill.	161	Kay-Fries Chemical Co., Inc., 180 Madison Ave., New York 16, N. Y.	203
Cone, Arthur R., 174 Gilbert St., Buffalo 5, N. Y.	90	Keller Seed Store, Shawnee, Okla.	99
Cooperative G. L. F. Mills, Inc., Buffalo, N. Y., Ft. Wayne, Ind., Plymouth, Ind.	145	Keller & Sons, Geo., 909 Maine St., Quincy, Ill.	117
Corneli Seed Co., 101 Chouteau St., St. Louis 2, Mo.	1	Kellogg-Kelly Seed Co., 725 South 4th St., St. Joseph 24, Mo.	132
Council Bluffs Seed Co., Council Bluffs, Iowa	92	Kelly Seed Co., 116 S. Washington St., Peoria, Ill.	116
Courteen Seed Co., 222 W. Pittsburgh Ave., Milwaukee 7, Wis.	58	Kem-ical Corp., 447 New Milford Ave., Oradell, N. J.	69
Craver-Dickinson Seed Co., P. O. Box 175, Buffalo, N. Y.	89	Ken-L-Products Div., Quaker Oats Co., Rockford, Ill.	105
Crawfordsville Seed Co., Crawfordsville, Ind.	117	King & Sons, Inc., H. C., Battle Creek, Mich.	127
Cuff-Archias Seed Co., 526 Main St., Brawley, Calif.	91	Kirby, Norval E., Chatham—20th & Walnut Sts., Philadelphia, Pa.	176
Cupples-Hesse Corp., 4175 Kingshighway Memorial Blvd., St. Louis, Mo.	206	Lagomarsino & Sons, F., 721 J St., Sacramento 5, Calif.	15
Curcija, Juan, 25 de Mayo 11, Buenos Aires, Argentina	56	Lakin Seed Co., Miles City, Mont.	44
Cyclone Seeder Co., Inc., The, Urbana, Ind.	206	Land O'Lakes Creameries, Inc., Seed Div., Minneapolis 13, Minn.	99
Dakota Improved Seed Co., Box 494, Mitchell, S. Dak.	156	Landreth Seed Co., D., Canal St., Bristol, Pa.	56
Davenport Seed Co., 317 E. 2nd St., Davenport, Iowa	92	Law Somner Pty. Ltd., Melbourne, Australia.	57
Dessert Seed Co., El Centro, Calif.	169	Lawler Bulb Grower, George, P. O. Box 107, Monroe, Wash.	178
Detecto Scales, Inc., 1 Main St., Brooklyn 1, N. Y.	208	Leckenby Seed Co., 1532 Fifth Ave., W., Seattle, Wash.	152
Dickinson Co., The Albert, Box 788, Chicago 90, Ill.	49, 109	Lee Co., Geo. H., Omaha 8, Neb.	60, 61
Disbrow Mfg. Co., 16-34 Nesbitt St., Newark 4, N. J.	3	Levin, A. N., 2703 Broad St., Chattanooga 1, Tenn.	149
Dobbins Mfg. Co., Elkhart, Ind.	155	Lewis & Clark Seed Co., Inc., Astoria, Ore.	100
Donley & Bro., J. L., Ashland, Ohio	50	Liefgreen Seed Co., 339 W. Van Buren, Phoenix, Ariz.	168
Dow Chemical Co., Midland, Mich.	28, 29	Lilly Co., The Chas. H., 1647 W. Hanford St., Seattle 4, Wash.	19
Du Pont Semesan Co., Inc., 101 W. 10th St., Wilmington 98, Dela.	113	Loewith, Inc., Julius, 120 E. 16th St., New York 3, N. Y.	50, 198
Duryea Seed Co., Inc., 18 Desbrosses St., New York 13, N. Y.	48		

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Lucas Seed Co., J. B., Franklin, Ky.	179	Ross Seed Co., 1501 Lytle St., Louisville 3, Ky.	86
Lupton & Son, J. M., Mattituck, L. I., N. Y.	164	Royal River Mills, Inc., 33 S. Charles St., Baltimore 1, Md.	58
McCabe Bros. Grain Co., Ltd., 980 Grain Exchange Bldg., Winnipeg, Canada	101	Rudy-Patrick Seed Co., 817 Santa Fe St., Kansas City 7, Mo.	51
McCormick Sales Co., The, McCormick Bldg., Baltimore, Md.	193	Russell-Heckle Seed Co., 16 S. Front St., Memphis, Tenn.	88
McCoy Seed Co., Inc., Dan, Dorothy St., Sikeston, Mo.	101	Sanguinetti, E. F., Yuma, Ariz.	113
McCrea Seed Co., Inc., Box 493, Santa Barbara, Calif.	25	Scarlett & Co., Wm. G., 729 E. Pratt St., Baltimore, Md.	89
McCullough Seed Co., The J. Chas., 3rd & Eggleston Ave., Cincinnati 1, Ohio.	141	Schell, Inc., Walter S., 10th & Market Sts., Harrisburg, Pa.	177
McFarland Advertising Service, Crescent & Mulberry Sts., Harrisburg, Pa.	34, 35	Schmidt Lithograph Co., 461 Second St., San Francisco 7, Calif.	205
McHutchison & Co., 95 Chambers St., New York, N. Y.	163	Schoemann & Mayer, Inc., 33 Union Sq., New York, N. Y.	184
McLaughlin's Seeds, Box 418, Helena, Mont.	136	Schultz Seed Co., J. M., Dieterich, Ill.	83
Macdonald Seed Co., Wm., Santa Maria, Calif.	53	Scott & Sons Co., O. M., Marysville, Ohio.	82
Magill & Co., Inc., Fargo, N. Dak.	142	Seaboard Seed Co., 701 S. Front St., Philadelphia 47, Pa.	87
Mangelsdorf & Bro., Inc., Ed. F., 1020 S. 4th St., St. Louis 4, Mo.	133	Sedberry, Inc., J. B., Franklin, Tenn.	157
Mayer, H. J., 99 Hudson St., New York, N. Y.	44	Sedgwick Alfalfa Mills, The, Sedgwick, Kan.	51
Mayo Seed Co., Inc., D. R., 419 Wall Ave., Knoxville, Tenn.	40	Seeburo Equipment Co., 611 Brooks Bldg., Chicago 6, Ill.	225
Means Co., Mark, Lewiston, Idaho.	175	Service Plant Co., Omega, Ga.	166
Mechling Bros. Chemicals, 12 S. 12th St., Philadelphia 7, Pa.	202	Sexauer & Son, Geo. P., Brookings, S. Dak.	118
Michael-Leonard Co., 21st & Clark Sts., Sioux City 6, Iowa.	119	Sheward Seed Co., 108 Davis St., San Francisco, Calif.	171
Miller's Dog Foods, Battle Creek, Mich.	186	Shuler & Smoak, 26 St. John St., Orangeburg, S. C.	146
Miller, Tompkins & Co., 513 Paterson Ave., East Rutherford, N. J.	205	Shultz Seed Co., Inc., Olney, Ill.	149
Moore, Charles R., Chamber of Commerce Bldg., Cincinnati, Ohio.	142	Simpson Nursery Co., Monticello, Fla.	158
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Mosbell Co., John, Montvale, N. J.	167	Sluis, Peter, Mt. Vernon, Wash.	177
Myers & Bro. Co., The F. E., Ashland, Ohio.	63	Smith & Co., Inc., F. F., 922 12th St., Sacramento, Calif.	85
National Glove Co., The, Columbus 5, Ohio.	185	Smith Agricultural Chemical Co., The, 618 N. Champion Ave., Columbus 16, Ohio.	97
National Seed Co., Inc., 101 W. Main St., Louisville 2, Ky.	120	Snapp & Son, J. P., Limestone, Tenn.	149
Nebraska Seed Co., The, Omaha, Neb.	49	Snelson Seed Co., 302 Williamson St., Savannah, Ga.	113
Newday Seeds, Inc., N. P. Ave. at 8th St., Fargo, N. Dak.	141	Sommer Bros. Seed Co., Box 230, Pekin, Ill.	85
Nicholson Seed Co., Robert, 2114 N. Lamar St., Dallas 2, Texas.	151	Speers & Co., Ltd., J. H., 238 1st Ave., S., Saskatoon, Sask., Canada	86
Nishna Valley Seed Co., Shenandoah, Iowa.	118	Sphar & Gay Seed Co., N. Main St., Winchester, Ky.	84
Nitragin Co., Inc., The, 3747 N. Booth St., Milwaukee 12, Wis.	74	Spratt's Patent, Ltd., 12 Congress St., Newark, N. J.	187
Nolin, W. T., Hamburg, La.	127	Standard Seed Co., 15 E. 5th St., Kansas City 6, Mo.	133
Northern Canadian Seed Sales, 131 Market Ave., Winnipeg, Man., Canada	128	Standard Seed Farms, Stockton, Calif.	171
Northern Field Seed Co., Winona, Minn.	159	Stanford Seed Co., The, 733 Perry St., Buffalo, N. Y.	84
Northrup, King & Co., 1500 Jackson St., N. E., Minneapolis 13, Minn.	5	Stecher-Traung Lithograph Corp., 274 N. Goodman St., Rochester 7, N. Y.	52
Northrup, King & Co., 8th & Parker Sts., Berkeley, Calif.	115	Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.	83
Northwestern Seed Co., Inc., Keokuk, Iowa.	118	Stokes Ltd., Francis C., Vincentown, N. J.	175
Nott Mfg. Co., Mt. Vernon, N. Y.	189	Stoller's Seed House, 211 W. Perry St., Paulding, Ohio.	82
Oakes & Co., Edgar L., Caldwell, Idaho.	114	Strayer Seed Farms, Hudson, Iowa.	135
Occidental Seed Co., Box 147, Salt Lake City 8, Utah.	150	Superior Separator Co., 1179 15th Ave., S. E., Minneapolis, Minn.	149
Olds Seed Co., L. L., 722 Williamson St., Madison 1, Wis.	50	Sutton, Steele & Steele, Inc., Dallas, Texas.	151
Oliver Seed Co., J. C., 36 Cherry St., Akron 8, Ohio.	143	Swift & Co., Vigoro Dept., U. S. Yards, Chicago 9, Ill.	67
Oliver Mfg. Co., 1409 S. 8th St., St. Louis 4, Mo.	21	Tennessee Corp., Loma Div., 61 Broadway, New York 6, N. Y.	195
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O & M Seed Co., The, Green Springs, Ohio.	124, 125	Tobacco By-Products & Chemical Corp., Inc., Louisville, Ky.	241
Oregon Bulb Farms, Inc., Sandy, Ore.	181	Torsion Balance Co., The, 92 Reade St., New York 13, N. Y.	207
Ostberg Seed Co., 7301 Woodlawn Ave., Chicago 19, Ill.	117	Tracy & Son Farms, Janesville, Wis.	154
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Pacific Supply Cooperative, Box 1004, Walla Walla, Wash.	80	Transit Grain & Comm. Co., Ft. Worth, Texas.	150
Page Seed Co., The, Greene, N. Y.	189	Troemner, Henry, 911 Arch St., Philadelphia 7, Pa.	207
Paramount Seed Co., Stockton, Calif.	27	Twin City Seed Co., 130 2nd St., N. E., Minneapolis 13, Minn.	130
Paterson & Co., Ltd., A. S., Box 496, Dunedin, New Zealand.	56	Union Fork & Hoe Co., The, 500 Dublin Ave., Columbus 15, Ohio.	58
Pedrick & Sons, Geo. R., Pedricktown, N. J.	40	United States Seed Co., 417 N. 3rd St., St. Louis, Mo.	163
P & E Farms & Hatchery, Maroa, Ill.	185	Urbana Laboratories, The, 406 N. Lincoln, Urbana, Ill.	121
Peppard Seed Co., Station A, Kansas City 7, Mo.	158	Valker-Christensen Co., Minot, N. Dak.	143
Perfection Foods Co., Dept. 10A, Battle Creek, Mich.	186	Vaughan's Seed Store, 601 W. Jackson Blvd., Chicago 6, Ill.	176
Peterson-Biddick Co., Wadena, Minn.	51	Walkers Gladiolus Farms, Mansfield, Mass.	180
Philadelphia Seed Co., Inc., The, Box 934, Philadelphia 5, Pa.	145	Waller-Franklin Seed Co., Guadalupe, Calif.	79
Pieters-Wheeler Seed Co., Gilroy, Calif.	39	Washburn, Jr., H. G., 2646 Parkside Dr., N. E., Atlanta, Ga.	154
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Pratt Co., B. G., 50 Church St., New York 7, N. Y.	163	Washington Co-operative Egg & Poultry Assn., 201 Elliott Ave., W., Seattle, Wash.	170
Premier Peat Moss Corp., 535 5th Ave., New York 17, N. Y.	194	Watts, Owen T., Box 955, Louisville, Ky.	120
Prunty Seed & Grain Co., 620 N. 2nd, St. Louis, Mo.	132	Wayland Dahlia Gardens, 702 S. Main St., Wayland, Mich.	181
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Purcell Seed Co., Inc., 301 E. Illinois St., Evansville 1, Ind.	117	White Co., Joseph, Bridgeton, N. J.	173
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Redwood Fibre Products Co., Inc., 260 Chestnut Ave., Santa Cruz, Calif.	80	Wilson & Sons, Jas. S., Paris, Ky.	146
Reuter Seed Co., Inc., 320 N. Carrollton Ave., New Orleans 9, La.	111	Wisconsin Cabbage Seed Co., Racine, Wis.	170
Rice Seed Co., W. A., Jerseyville, Ill.	45	Wood & Sons, T. W., 11 S. 14th St., Richmond, Va.	152
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Rispens Seed Store, Martin, Lansing, Ill.	175	Woodruff & Sons, Inc., S. D., Orange, Conn.	195
Robinson Seed Co., The J. C., Waterloo, Neb.	105	Wright, Stephenson & Co., Ltd., P. O. Box 1520, Wellington, C. 1, New Zealand.	57
Robinson & Sons, Lawrence, 1600 McHenry Ave., Modesto, Calif.	43	Young & Conway, Morganfield, Ky.	120
Rogers Bros. Seed Co., Inc., 308 W. Washington St., Chicago 6, Ill.	Second Cover	Yuma Co. Farmers Mktg. Assn., Yuma, Ariz.	122
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Root Co., The A. I., Medina, Ohio.	184		

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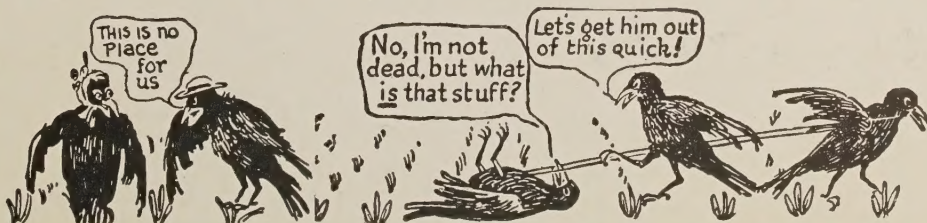
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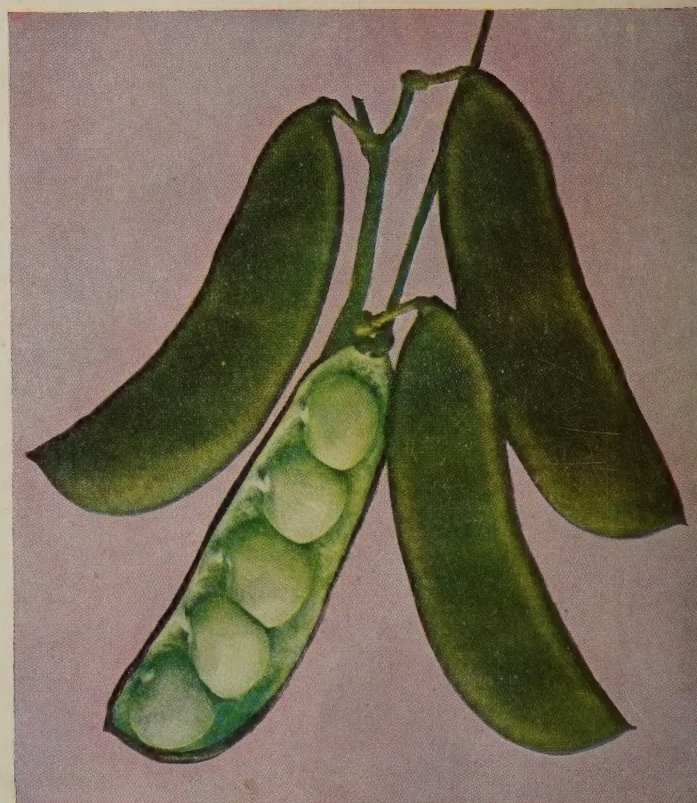
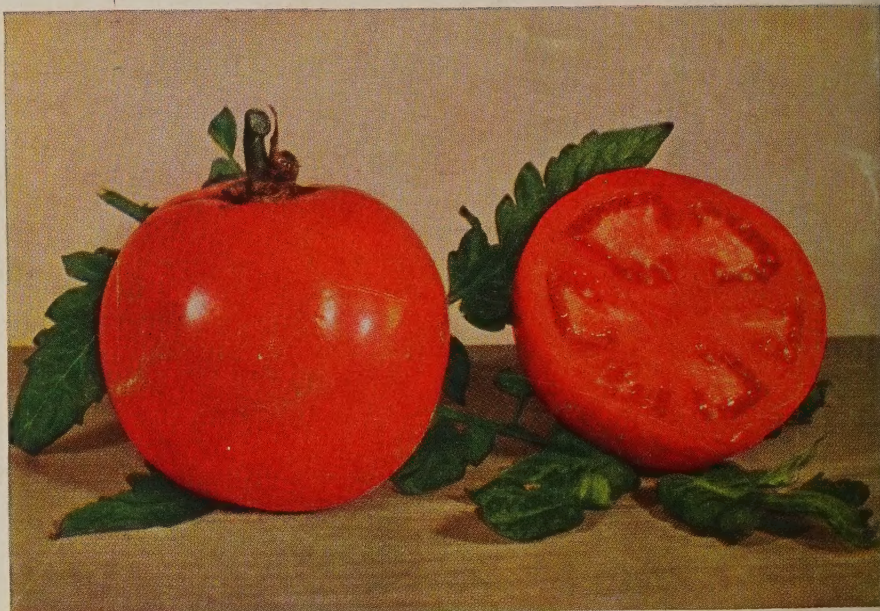
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