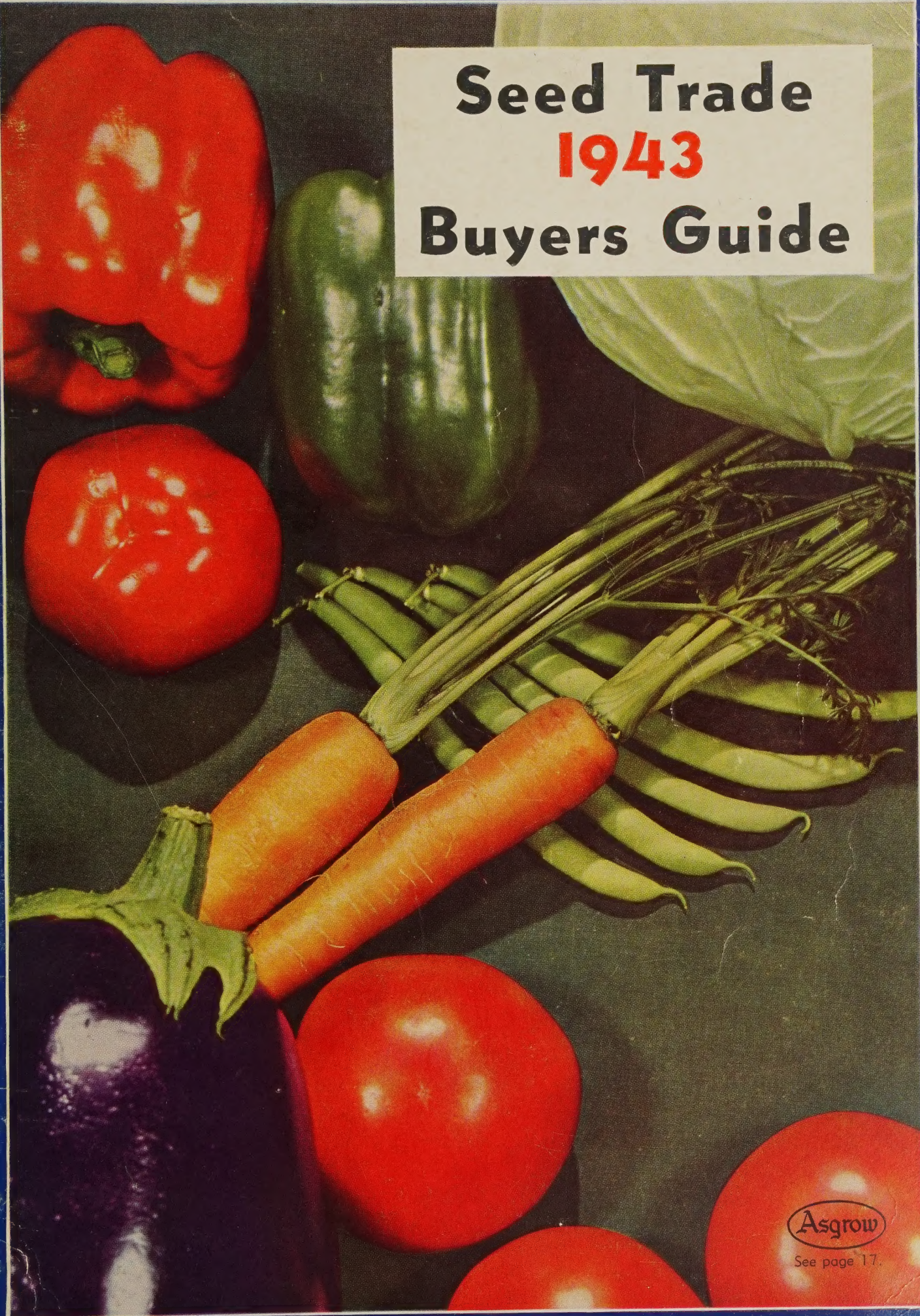


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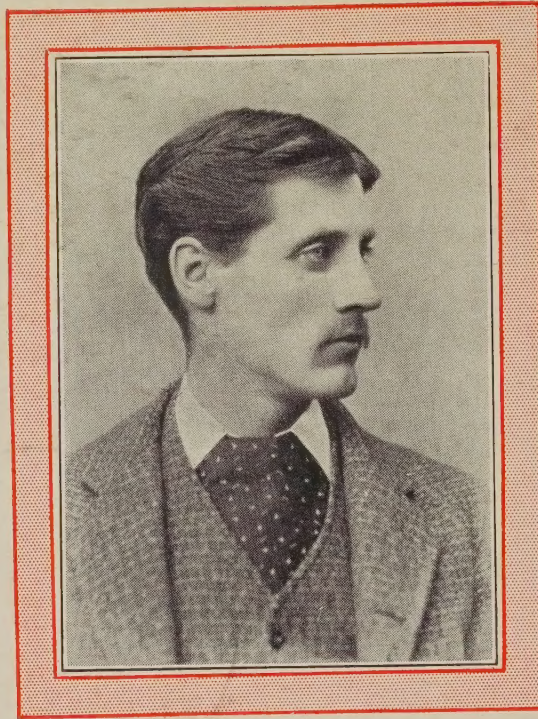


Seed Trade
1943
Buyers Guide

Asgrow

See page 17.

1855



1937

Austin L. Rogers

HE LEARNED as a boy that nothing is accomplished without a background of Quality. As a young man, nearly seventy years ago, he started his business on the same foundation.... Quality. Throughout the generations that foundation has never weakened, though it carries, today, a structure many times greater than any he envisioned.

BLOOD TELLS

ROGERS BROS. SEED CO.

BREEDERS and GROWERS

PEAS

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Chicago

Warp's Window Materials

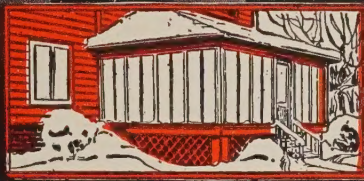
Increase Your Profits - Give Better Service

Poultry House Windows



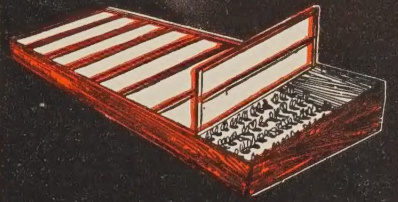
More Winter Eggs With No Extra Feed
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Porch Enclosures
and Covering Screen Doors



Save Fuel—Avoid Drafts
Just Nail on Over Screen

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Grow Hardier Plants Quicker
Holds in Heat Better than Glass

Genuine Extra Heavy FLEX-O-GLASS

GUARANTEED 2 FULL YEARS
Most Highly Approved by Leading Authorities



Retails @
35c
SQ. YD.

Pat. No.
1769611

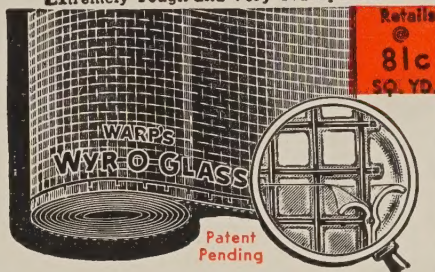
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- Lets Thru More Healthful Ultra-Violet Rays than other Substitutes (clear across the Spectrum) as proved in various Authentic Tests, and Holds in Heat Better Than Glass.
- Absolutely Waterproof — Unbreakable. Has 124 strong, preshrunk Threads per Square In. Impregnated with extra high M.P. Composition that will not run, discolor or melt in a Window.
- Extra Heavy — Extra Durable. Guaranteed 2 years by the Manufacturer.
- Most Widely used—Extensively advertised. Feet, Yards, and Inches plainly printed along Selvage for easy cutting.

| Cat. # | Yds. | Width | Sq. Ft. | Lbs. | Cost | Dealers |
|---------|----------|-------|---------|------|---------|---------|
| FOG-100 | 100 yds. | 36" | 900 | 56 | \$23.50 | |
| FOG-50 | 50 yds. | 36" | 450 | 32 | 11.75 | |
| FOG-25 | 25 yds. | 36" | 225 | 16 | 5.88 | |

Warp's WYR-O-GLASS

Wire Base Glass Substitute
Extremely Tough and Very Transparent



Retails @
81c
SQ. YD.

Patent
Pending

A WIRE BASE PLASTIC GLASS

- Tough Galvanized 1/4 Inch mesh Wire Base, drawn Tough and Thin to admit more light.
- Every Joint and Wire Imbedded in a cushion plastic, before final Transparent coating is applied, for double reinforcing and to eliminate air pockets.
- Plastic Glass applied to both sides, sealing wires inside. Everything fused 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.
- Very Transparent. Extra high in Ultra-Violet ray Transmission. Good Insulator.
- Double Thickness Coating along both edges. Feet and Inches plainly marked along Selvage.

| Cat. # | Yds. | Width | Sq. Ft. | Lbs. | Cost | Dealers |
|--------|---------|-------|---------|------|---------|---------|
| 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

Mesh Base Glass Substitute
Used Where Transparency Is Important



Retails @
57c
SQ. YD.

Patent
Pending

A PLASTIC GLASS COVERED NETTING

- Made on 1/4 Inch mesh Waterproofed Cords. Extra strong. Dyed Light Fast Green.
- Every Cord Imbedded in Cushion Plastic to eliminate air pockets where greatest strain occurs.
- Plastic glass applied over Cushion and Cords to seal everything together into one solid weather-proof 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.
- Double Thickness Coating along reinforced edges. Feet and inches plainly marked along selvage.

| Cat. # | Yds. | Width | Sq. Ft. | Lbs. | Cost | Dealers |
|--------|---------|-------|---------|------|---------|---------|
| 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 One Season
The Biggest Seller in the Low Price Field



Retails @
27c
SQ. YD.

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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.

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| Cat. # | Yds. | Width | Sq. Ft. | Lbs. | Cost | Dealers |
|--------|----------|-------|---------|------|---------|---------|
| 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 | |

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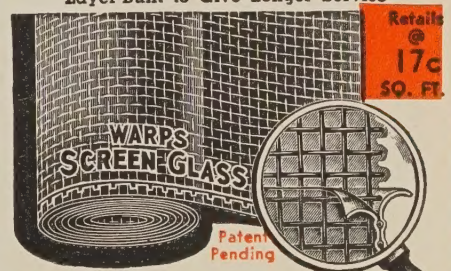
| | Sq. Ft. | Roll | Sells For |
|---------------------------|---------|------|-----------|
| 50 sq. yds. Flex-O-Glass | 36" | 450 | 35c yd. |
| 25 sq. yds. Window-Fabric | 36" | 225 | 27c yd. |
| 15 sq. yds. Glass-O-Net | 36" | 135 | 57c yd. |
| 10 sq. yds. Wyr-O-Glass | 36" | 90 | 81c yd. |

All Packed In One Box — Weight 65 Lbs. \$40.70

Cat. No. SPD200 Retails for

Warp's SCREEN-GLASS

Plastic Covered Wire Cloth
Layer-Built to Give Longer Service



Retails @
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Patent
Pending

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Fine Mesh Galvanized Wire Base, first dipped in a transparent pliable plastic, then laminations applied to both sides to give it greater wearing qualities.

Tough, Durable, Layer-Built Plastic Coating starts where others leave off, to make it last longer. Pliable and Transparent. Feet and Inches are marked along Selvage. (Ship. wt. 3 oz. per sq. ft.)

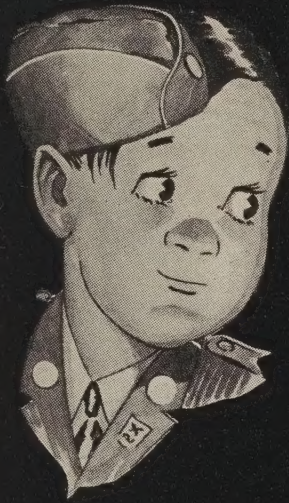
| Cat. # | Width | Roll | Roll | Roll |
|--------|-------|--------|---------|---------|
| 36SG | 36" | \$8.25 | \$16.50 | \$33.00 |
| 28SG | 28" | 6.75 | 13.50 | 27.00 |

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

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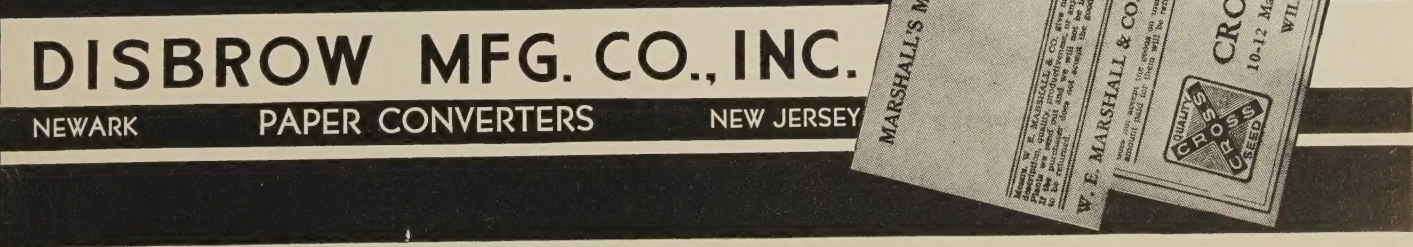
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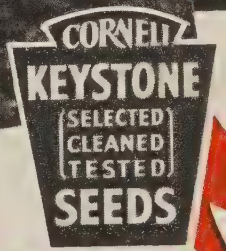


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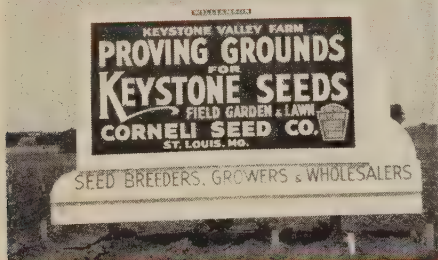


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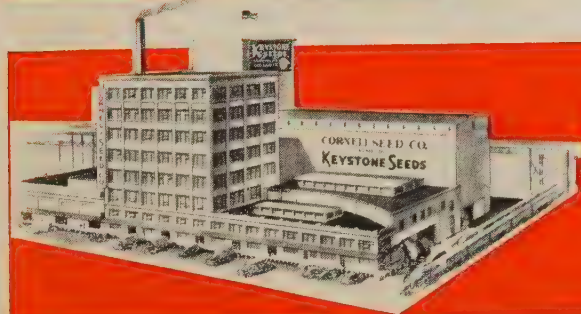
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Offer this Keystone Quality packaged under your own label. Let us grow for you. We have the select seed stocks. Contact us for growing contracts.



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

Seed Trade Buyers Guide

TWENTY-SIXTH EDITION

VOLUME XXVI

FOR THE YEAR OF 1943



WITH most of the world still at war, and the consequent demand for food and food crop seeds heavier than ever before, seedsmen this year occupy an extremely important position. A large percentage of the seed we produce is being sent, through Government Lend-Lease channels, to our Allied Nations. Every available pound, other than that exported, is expected to be spoken for by our own millions of Farmers, Home and War Gardeners, Truck Growers and Food Processors.

It is confidently expected that when peace returns seedsmen will be confronted with still greater demands if the hungry populations of former enemy and invaded countries are to be nourished. United States producers and wholesalers of vegetable, field and flower seeds, the grasses, bulbs and roots are approaching, therefore, the busiest and most difficult years in seed trade history.

The retail, mail-order and packet seed groups are today functioning smoothly under the severe handicaps of labor shortage, necessary rationing of many equipment items, and the complete discontinuance of certain allied lines, formerly very profitable.

All of these individual groups of seedsmen are today ably carrying on under war conditions, and in addition are charting their courses for the post-war period, a time which all hope is not far distant. To these competent and patriotic horticultural leaders we dedicate the 1943 SEED TRADE BUYERS GUIDE, doing so in the hope that its contents will prove of value during these trying times.

NATIONAL SEEDSMAN PUBLICATIONS

J. M. ANDERSON, *Publisher*

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H. B. OLSON, *Business Manager*

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

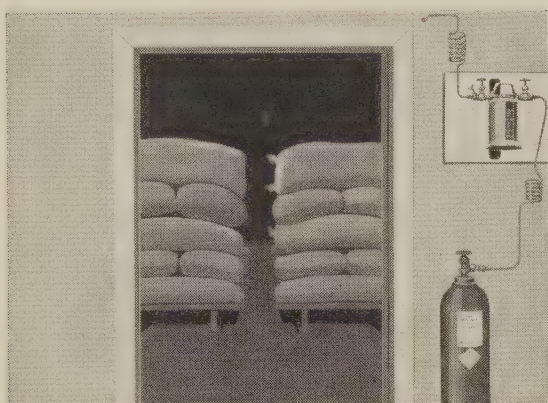
DOW FUMIGANTS

Dow Methyl Bromide

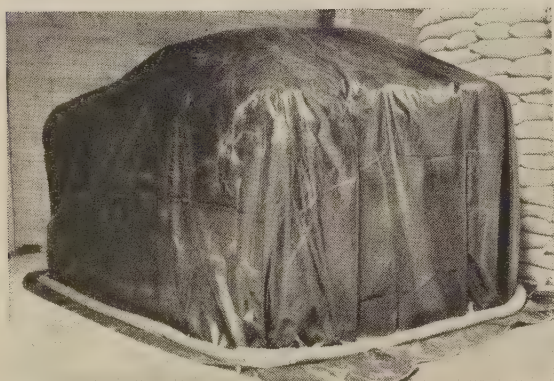
Dow Chloropicrin

Dow Dichlorethyl Ether

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

→ THAT PAYS!



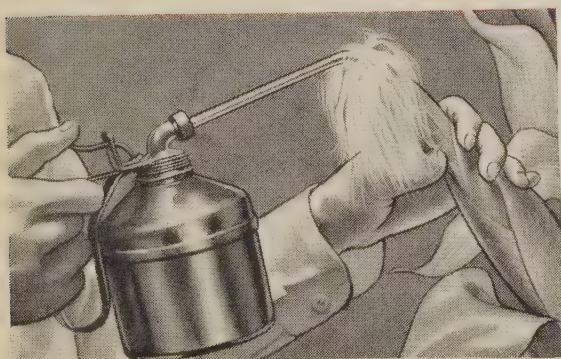
LARGE WAREHOUSE STOCKS are easily penetrated by Methyl Bromide. Kill is complete—in every stage of insect development.

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.



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930 Cambridge, Topeka, Kans.
Kansas State Horticultural Society
Pres., J. Homer Sharpe
Council Grove, Kans.
Sec'y, George W. Kinkead
State House, Topeka, Kans.

KENTUCKY

Dahlia Society of Kentucky
Pres., H. T. Kruse
997 Vine St., Louisville, Ky.
Sec'y, Mrs. W. F. Kleinjohn
726 Barrett Ave.,
Louisville, Ky.
The Garden Club of Kentucky
Pres., Mrs. H. Alvin Stiltz
269 West Main St.,
Lexington, Ky.
Sec'y, Mrs. James Chandler
3222 Wren Rd., Audubon Park,
Louisville, Ky.

Kentucky State Horticultural Society
Pres., Herman J. Yopp
Paducah, Ky.
Sec'y, Ted Cooper
Paducah, Ky.

LOUISIANA

Louisiana Garden Club Federation
Pres., Mrs. William Reed
Lake Charles, La.
Sec'y Mrs. Mack Bradley
Winnsboro, La.
Louisiana State Horticultural Association
Pres., Daniel A. Newsham
New Orleans, La.
Sec'y, George P. Dupuy
1838 Cambronne St.,
New Orleans, La.
North Louisiana Horticultural Association
Pres., William Fitzhugh
Merriweather Road,
Shreveport, La.
Sec'y, Ed. Sanders
P. O. Box 283, Shreveport, La.

MAINE

Garden Club Federation of Maine
Pres., Mrs. E. Stewart Orbeton
West Rockport, Maine
Sec'y, Miss Bessie Bowers
Camden, Maine
Maine Gladiolus Society
Pres., Walter B. Andrews
Oakland, Maine
Sec'y, Mrs. George J. Walenta
South China, Maine
Maine State Pomological Society
Pres., A. N. Blanchard
Cumberland Center, Maine
Sec'y, E. L. White
Bowdoinham, Maine

MARYLAND

Maryland Daffodil Society
Pres., Mrs. Luther Benton
201 St. Dunstons Rd.,
Baltimore, Md.
Sec'y, Mrs. George Cassels-Smith
Ruxton, Md.
Federated Garden Clubs of Maryland
Pres., Mrs. E. H. McKeon
The Belvedere, Room 300,
Baltimore, Md.
Sec'y, Mrs. Marshall A. Carlton
222 Oakdale Rd.,
Baltimore, Md.
Maryland Gladiolus Society, Inc.
Pres., Dr. G. A. Willis
Havre de Grace, Md.
Sec'y, H. V. Wright
Edgewood Arsenal,
Edgewood, Md.
Maryland State Horticultural Society
Pres., Stanley M. Fulton
Hancock, Md.
Sec'y, A. F. Vierheller
College Park, Md.
Maryland Vegetable Growers Association
Pres., H. J. W. Rayner
Salisbury, Md.
Sec'y, W. R. Ballard
College Park, Md.

MASSACHUSETTS

Massachusetts Forest & Park Association
Pres., William P. Wharton
Groton, Mass.
Sec'y, Harris A. Reynolds
1 Joy Street, Boston, Mass.
Massachusetts Fruit Growers Association
Pres., Dr. Ralph A. Van Meter
Mass. State College,
Amherst, Mass.
Sec'y, Prof. William R. Cole
Mass. State College,
Amherst, Mass.
Garden Club Federation of Massachusetts
Pres., Mrs. Robert M. Bowen
Hearthstone Farm,
Concord, Mass.
Sec'y, Mrs. Walter S. Williams
East Norton, Mass.
Massachusetts Horticultural Society
Pres., Edwin S. Webster
Chestnut Hill, Mass.
Sec'y, Edward I. Farrington
300 Mass. Ave., Boston, Mass.

Massachusetts Tree Wardens and Foresters Association
Pres., A. W. Stewart
Quincy, Mass.
Sec'y, Frank A. Babcock
Rockport, Mass.
Cape Cod Cranberry Growers Association
Pres., I. Grafton Howes
Dennis, Mass.
Sec'y, L. C. Hall
Wareham, Mass.

MICHIGAN

Michigan Blueberry Growers Association
Pres., William G. Riemer
Grand Junction, Mich.
Sec'y, Paul Brower
Hudsonville, Mich.
Michigan Certified Seed Potato Growers Association
Pres., Harold Bailey
Gaylord, Mich.
Sec'y, Lee C. Sneathen
Charlevoix, Mich.
Dahlia Society of Michigan
Pres., B. D. Collins
323 Stephenson Bldg.,
Detroit, Mich.
Sec'y, Thos. M. Place
176 Moross Ave.,
Mt. Clemens, Mich.
Michigan Bulb Growers Association
Pres., U. Nagle
R. F. D. 1, Kalamazoo, Mich.
Sec'y, Paul R. Krone
East Lansing, Mich.
Federated Garden Clubs of Michigan
Pres., Mrs. William Linn Wilson
1620 Niles Ave.,
St. Joseph, Mich.
Cor. Sec'y, Mrs. Bradley Patton
Highland Road,
Ann Arbor, Mich.
Garden Club of Michigan
Pres., Mrs. Phelps Newberry
Clovelly Rd.,
Grosse Pointe Farms, Mich.
Sec'y, Miss Elsie DuCharme
982 Burns Ave., Detroit, Mich.
Michigan Gladiolus Society
Pres., A. M. Grootendorst
Benton Harbor, Mich.
Sec'y, Paul R. Krone
Michigan State College,
East Lansing, Mich.
Michigan State Horticultural Society
Pres., J. J. Hill
Montrose, Mich.
Sec'y, H. D. Hootman
Horticultural Bldg.,
East Lansing, Mich.
Michigan Vegetable Growers Association
Pres., Condon Zant
Grand Rapids, Mich.
Sec'y, Keith Barrons
Michigan State College,
East Lansing, Mich.
Northeastern Michigan Gladiolus Society
Pres., Fred Loessel
809 Patterson St.,
Bay City, Mich.
Sec'y, James Van Laan
310 Hill St., Bay City, Mich.
Upper Peninsula Potato Growers Association
Pres., A. P. Kline
Stephenson, Mich.
Sec'y, D. L. Clanahan
Marquette, Mich.

MINNESOTA

Minnesota Dahlia Society
Pres., R. S. Bryant
R. F. D. 2, Hopkins, Minn.
Sec'y, Mrs. A. R. Owen
1856 Laurel Ave.,
St. Paul, Minn.
Minnesota Fruit Growers Association
Pres., Henry W. Leidel
La Crescent, Minn.
Sec'y, J. D. Winter
Mound, Minn.
Minnesota Garden Flower Society
Pres., Mrs. W. R. Wingate
3821 Zenith Ave.,
Minneapolis, Minn.
Sec'y, Mrs. F. S. Swisher
3025 Zarthon Ave.,
St. Louis Park, Minn.
Minnesota Gladiolus Society
Pres., A. J. Mandehr
1115 Goodrich Ave.,
St. Paul, Minn.
Sec'y, J. M. Law
692 Holly Ave.,
St. Paul, Minn.

Minnesota Greenkeepers Association
Pres., Joseph Rush
Country Club,
Minneapolis, Minn.
Sec'y, Stan Graves
Hillcrest G. & C. Co.,
St. Paul, Minn.
Minnesota Peony and Iris Society
Pres., R. C. Schneider
708 Osceola Ave.,
St. Paul Minn.
Sec'y, Mrs. H. B. Tillotson
1320—5th St., S. E.,
Minneapolis, Minn.
Minnesota Red River Valley Potato Improvement Association
Pres., Thomas Heneghan
East Grand Forks, Minn.
Sec'y, Carl G. Ash
Crookston, Minn.
Minnesota Rose Society
Pres., Dr. Joseph H. Vogel
New Ulm, Minn.
Sec'y, Dr. L. E. Longley
University Farm,
St. Paul, Minn.
Minnesota State Forestry Association
Pres., Parker O. Anderson
University Farm,
St. Paul, Minn.
Sec'y, Phil H. Hanson
State Office Bldg.,
St. Paul, Minn.
Minnesota State Horticultural Society
Pres., Benjamin F. Dunn
1115—8th Ave., S. E.,
Rochester, Minn.
Sec'y, R. S. Mackintosh
University Farm,
St. Paul, Minn.

MISSISSIPPI

Federation of Garden Clubs of Mississippi
Pres., Mrs. Harris Barksdale
Jackson, Miss.
Sec'y, Mrs. J. M. Holman
Jackson, Miss.

MISSOURI

Federated Garden Clubs of Missouri
Pres., Mrs. K. C. Weber
513 W. Columbia,
Farmington, Mo.
Sec'y, Mrs. L. B. Coghill
511 Doss, Farmington, Mo.
Missouri State Horticultural Society
Pres., H. W. Guengerich
Unity Farm, Lees Summit, Mo.
Sec'y, Prof. W. R. Martin, Jr.
Columbia, Mo.
Northwest Missouri Rose Club
Pres., Ronald A. Kennedy
1021 E. Linwood,
Kansas City, Mo.
Sec'y, C. A. Grove
1914 So. 12th St.,
St. Joseph, Mo.

MONTANA

Montana Federation of Garden Clubs
Pres., Mrs. S. H. Irvine
Stevensville, Mont.
Recording Sec'y, Mrs. C. A. Day
1039 No. 30th, Billings, Mont.
Montana Potato Improvement Association
Pres., H. G. Bosley
Savoy, Mont.
Sec'y, E. E. Isaac
Bozeman, Mont.
Montana Horticultural Society
Pres., George Thacher
Corvallis, Mont.
Sec'y, George L. Knight
Missoula, Mont.
Northern Montana Forestry Association
Pres., E. N. McDevitt
Somers, Mont.
Sec'y, A. E. Boorman
Kalispell, Mont.

NEBRASKA

Nebraska Certified Potato Growers
Pres., W. T. Young, Jr.
Kimball, Nebr.
Sec'y, William Morrow
Alliance, Nebr.
Federated Garden Clubs of Nebraska
Pres., Mrs. W. A. Cole
134 E. 4th, Hastings, Nebr.

Sec'y, Miss Lucia Dillenbach
900 N. Hastings Ave.,
Hastings, Nebr.
Nebraska Gladiolus Society
Pres., Verne C. Fuhlrott
1140 East 10th St.,
Fremont, Nebr.
Sec'y, Mrs. C. B. Alger
5102 North 50th St.,
Omaha, Nebr.
Nebraska Potato Improvement Association
Pres., Ted Currier
Morrill, Nebr.
Sec'y, H. O. Werner
College of Agriculture,
Lincoln, Nebr.
Nebraska State Horticultural Society
Pres., William Porter
Nebraska City, Nebr.
Sec'y, E. H. Hoppert
Nebr. College of Agriculture,
Lincoln, Nebr.

NEW HAMPSHIRE

New Hampshire Federation of Garden Clubs
Pres., Mrs. Charles J. Lincoln
Amherst, N. H.
Sec'y, Miss Marian Spaulding
Tamworth, N. H.
New Hampshire Horticultural Society
Pres., James W. Elton
Hampton Falls, N. H.
Sec'y, Alfred L. French
R. F. D. 2,
Contoocook, N. H.
Society for the Protection of New Hampshire Forests
Pres., Allen Hollis
17 Capitol St., Concord, N. H.
Sec'y, Edgar C. Hirst
20 No. Main St.,
Concord, N. H.

NEW JERSEY

Dahlia Society of New Jersey
Pres., Ray Smith
14 Eastwood Pl.,
Cedar Grove, N. J.
Sec'y, Mrs. F. S. Fisher
121 Abernethy Drive,
Trenton, N. J.
New Jersey Federation of Shade Tree Commissions
Pres., Prof. Oliver P. Medsger
9 Columbia Ave.,
Arlington, N. J.
Sec'y, Philip E. Alden
Municipal Bldg.,
Kearny, N. J.
New Jersey Fruit Institute
Pres., C. B. Lewis
Riverton, N. J.
Sec'y, L. N. Applegate
Freehold, N. J.
The Garden Club of New Jersey
Pres., Mrs. Kenneth V. C.
Wallace
310 Ridge St., Newark, N. J.
Sec'y, Mrs. Randall D. Warden
471 Ridge St., Newark, N. J.
New Jersey Peach Council
Pres., Lester Collins
Moorestown, N. J.
Sec'y, Arthur J. Farley
New Brunswick, N. J.
New Jersey Society of Certified Tree Experts
Pres., I. B. Dewson
45 N. Broad St.,
Ridgewood, N. J.
Sec'y, Ralph I. Kauffman
56 Sylvan St.,
Rutherford, N. J.
New Jersey State Horticultural Society
Pres., William K. Hookstra
Beverly, N. J.
Sec'y, Prof. Arthur J. Farley
New Brunswick, N. J.
New Jersey State Potato Association
Pres., J. Edw. Chamberlin
Cranbury, N. J.
Sec'y, Robert Ewing
Greenwich, N. J.
Sec'y (Corresp.) W. H. Martin
New Brunswick, N. J.
North Jersey Landscape Association
Pres., H. C. Koffler
54—41st St., Irvington, N. J.
Sec'y, Warren F. Schuch
19 Rowe St., East Orange, N. J.

NEW YORK

Empire State Gladiolus Society
Pres., Rev. Clayton H. Birch
Ludlowville, N. Y.

Sec'y, H. E. Hulbert
McGraw, N. Y.

Empire State Potato Club, Inc.
Pres., William Hodnett
Fillmore, N. Y.
Sec'y, M. F. Butts
Sodus, N. Y.

Federated Garden Clubs of
New York State, Inc.
Pres., Mrs. Clement Bowers
Maine, N. Y.
Sec'y, Mrs. Wirt Darrow
88-57—195th Place,
New York, N. Y.

The Horticultural Society of
New York
Pres., Henry F. Du Pont
598 Madison Ave.,
New York, N. Y.
Sec'y, Clarence L. Hay
598 Madison Ave.,
New York, N. Y.

New York State Fruit Testing
Co-operative Association
Pres., George A. Morse
Williamson, N. Y.
Sec'y, Richard Wellington
Geneva, N. Y.

New York State Horticultural
Society
Pres., Bruce P. Jones
Hall, N. Y.
Sec'y, Roy P. McPherson
LeRoy, N. Y.

New York State Vegetable
Growers Association
Pres., Fred S. Johnston
Pennellville, N. Y.
Sec'y, W. T. Tapley
Geneva, N. Y.

Eastern New York Gladiolus
Society
Pres., Clayton F. Toben
49 Saunders St.,
Whitehall, N. Y.
Sec'y, Olin E. Frisbee
198 Homer Ave.,
Comstock, N. Y.

Long Island Horticultural Society
Pres., E. L. D. Seymour
218 Hilton Ave.,
Hempstead, L. I., N. Y.
Sec'y, Joseph F. Roesch
N. Y. State Inst. of Agric.,
Farmingdale, L. I., N. Y.

NORTH CAROLINA

North Carolina Forestry Association
Pres., Colin G. Spencer
Carthage, N. C.
Sec'y, Mrs. Thelma Sabiston
Carthage, N. C.

The Garden Club of North Carolina
Pres., Mrs. D. J. Lybrook
Advance, N. C.
Sec'y, Mrs. Ned Smith
Hawthorne Rd.,
Winston-Salem, N. C.

NORTH DAKOTA

North Dakota Peony Society
Pres., R. J. Darling
231 Conklin Ave.,
Grand Forks, N. Dak.
Sec'y, Mrs. M. B. Kannowski
Box 63, Grand Forks, N. Dak.

North Dakota Potato Growers
Association
Pres., Peter J. Flaten
Hoople, N. Dak.
Sec'y, E. J. Taintor
Park River, N. Dak.

North Dakota State Horticultural
Society
Pres., P. R. Owens
Grand Forks, N. Dak.
Sec'y, Harry A. Graves
Fargo, N. Dak.

OHIO

The Ohio Association of Garden
Clubs
Pres., Mrs. Silas B. Waters
2005 Edgecliff Point,
Cincinnati, Ohio
Sec'y, Prof. Victor H. Ries
O. S. U., Columbus Ohio

Dahlia Society of Ohio, Inc.
Pres., Mrs. E. MacDowell
4479 W. 194th St.,
Fairview Village, Ohio
Cor. Sec'y, Edward A. Papesh
11108 Langton Ave.,
Cleveland, Ohio

Ohio Forestry Association
Pres., Hon. Guy B. Findley
Elyria, Ohio
Sec'y, Charles R. Page
Agric. Expt. Sta.,
Wooster, Ohio

Garden Club of Ohio
Pres., Mrs. Wm. A. Moeller
Arrow Cottage, Haughton Rd.,
Macedonia, Ohio
Cor. Sec'y, Mrs. S. H. Monson
2874 Chadbourne Rd.,
Shaker Heights, Ohio

Rock Garden Society of Ohio
Pres., Charles H. Smith
Box 73, Burnett Woods Sta.,
Cincinnati, Ohio
Sec'y, Mrs. Stephen E. Cone
194 East McMillan St.,
Cincinnati, Ohio

Ohio Small Fruit Improvement
Association
Pres., C. E. Drumheller
Buena Vista, Ohio
Sec'y, Mrs. Sara Norris
P. O. Box 308, Wooster, Ohio

Ohio State Gladiolus Society
Pres., Louis H. Esterline
E. 334th St., Willoughby, Ohio
Sec'y, W. W. Wood
Rudolph, Ohio

Ohio State Horticultural Society
Pres., H. L. Mantle
Painesville, Ohio
Sec'y, F. H. Beach
Horticulture Dept.,
Ohio State University
Columbus, Ohio

Ohio Student Horticultural Society
Pres., Jim Marine
Dept. of Horticulture,
Ohio State University,
Columbus, Ohio
Sec'y, Kenneth Varian
Dept. of Horticulture,
Ohio State University,
Columbus, Ohio

Ohio Vegetable & Potato Growers'
Association
Pres., Adam Fornof
Columbus, Ohio
Sec'y, Earl B. Tussing
Horticulture Dept.,
Ohio State University,
Columbus, Ohio

Ohio Vegetable Growers Association
—Women's Auxiliary
Pres., Mrs. Edward Seitz
Saylor Park Sta.,
Cincinnati, Ohio
Sec'y, Mrs. Joseph H. Boyd
2626 Wexford Road,
Columbus, Ohio

OKLAHOMA

Oklahoma Association of Garden
Clubs
Pres., Mrs. C. L. Chase
1609 N. W. 17th St.,
Oklahoma City, Okla.
Sec'y, Mrs. Edwin H. Hairston
223 So. 11th St.,
Muskogee, Okla.

Oklahoma Pecan Growers
Association
Pres., Vernon L. Kiker
Wewoka, Okla.
Sec'y, D. C. Mooring
Stillwater, Okla.

OREGON

Oregon Federation of Garden Clubs
Pres., Mrs. Ernest D. Lamb
Medical-Dental Bldg.,
Klamath Falls, Oreg.
Sec'y, Mrs. George Meredith
Gladstone, Oreg.

Oregon State Horticultural Society
Pres., Riddell Lage
Eugene, Oreg.
Sec'y, O. T. McWhorter
Agr. Hall, 136-B,
Oregon State College,
Corvallis, Oreg.

PENNSYLVANIA

American Dahlia Society—Western
Pennsylvania Branch
Pres., J. J. Englert, Jr.
437 Mansion St.,
Pittsburgh, Pa.
Sec'y, I. T. Fleck
862 Mirror St., Pittsburgh, Pa.

Botanical Society of Pennsylvania
Pres., Dr. Irwin Boeshore
Macfarlane Hall of Botany,
Univ. of Pa.,
Philadelphia, Pa.
Sec'y, Dr. John S. Penny
Macfarlane Hall of Botany,
Univ. of Pa.,
Philadelphia, Pa.

Council for Preservation of Natural
Beauty in Pennsylvania
Pres., Mrs. C. C. Zantzing
8500 Seminole Ave.,
Chestnut Hill,
Philadelphia, Pa.
Sec'y, Mrs. J. Bernard McGovern
Station Road, Wynnwood, Pa.

The Pennsylvania Forestry
Association
Pres., Wilbur K. Thomas
1008 Commercial Trust Bldg.,
Philadelphia, Pa.
Sec'y, H. Gleason Mattoon
1008 Commercial Trust Bldg.,
Philadelphia, Pa.

Garden Club Federation of
Pennsylvania
Pres., Mrs. Robert Hatfield Irons
1625 N. Front St.,
Harrisburg, Pa.
Sec'y, Mrs. Robert Fellows Wood
"Sedum Acre," Narberth, Pa.

Pennsylvania Gladiolus Society
Pres., R. C. Bayne
502—5th Ave.,
McKeesport, Pa.
Sec'y, J. R. McDowell
R. F. D. 9, So. Hills Branch,
Pittsburgh, Pa.

Pennsylvania Horticultural Society
Pres., C. Frederick C. Stout
Room 601, 1600 Arch St.,
Philadelphia, Pa.
Sec'y, John C. Wister
Room 601, 1600 Arch St.,
Philadelphia, Pa.

Pennsylvania Nut Growers
Association
Pres., H. Gleason Mattoon
1007 Commercial Trust Bldg.,
Philadelphia, Pa.
Sec'y, John W. Hershey
Downington, Pa.

State Horticultural Association of
Pennsylvania
Pres., H. M. Anderson
New Park, Pa.
Sec'y, J. U. Ruef
State College, Pa.

Pennsylvania Vegetable Growers
Association
Pres., Ray W. Wenker
Bustleton, Pa.
Sec'y, Jesse M. Huffington
625 Holmes St.,
State College, Pa.

Botanical Society of Western
Pennsylvania
Pres., Dr. O. E. Jennings
Carnegie Museum,
Pittsburgh, Pa.
Sec'y, Charles M. Boardman
6906 Thomas Blvd.,
Pittsburgh, Pa.

Chester-Delaware Counties (Pa.)
Fruit Growers Association
Pres., John Imes Wieler
W. Union St.,
West Chester, Pa.
Sec'y, Harvey Worthington
Glenn Mills,
Delaware County, Pa.

N. E. Pennsylvania Dahlia Society
Pres., Dr. R. H. Armstrong
517 Keystone Ave.,
Peckville, Pa.
Sec'y, R. W. Webb
1322 Schlager St.,
Scranton, Pa.

RHODE ISLAND

Rhode Island Arborists Association
Pres., Leander B. Spencer, Jr.
175 Taunton Ave.,
East Providence, R. I.
Sec'y, V. A. Hill
840 Hosp. Trust Bldg.,
Providence, R. I.

Rhode Island Federation of
Garden Clubs
Pres., Mrs. Charles M. Sears, Jr.
326 Wayland Ave.,
Providence, R. I.
Cor. Sec'y,
Mrs. John B. Carpenter
274 Brow St.,
East Providence, R. I.

Rhode Island Fruit Growers
Association
Pres., David Reid
John M. Dean Estate,
Meschanticut Park, R. I.
Sec'y, E. P. Christopher
Kingston, R. I.

Rhode Island Horticultural Society
Pres., Llewellyn W. Jones
Nayat, R. I.
Sec'y, E. K. Thomas
205 Benefit St.,
Providence, R. I.

Rhode Island Roadside Council
Pres., Mrs. Marjorie Chase
Sheldon
Spindrift, Saundertown, R. I.

Sec'y, Mrs. James R. Tillinghast
Treaty Rock Farm,
Wakefield, R. I.

SOUTH CAROLINA

Garden Club of South Carolina
Pres., Mrs. Albert F. Storm
"Thorogood," Mt. Holly, S. C.
Sec'y, Mrs. W. K. Fishburne
Pinopolis, S. C.

South Carolina Peach Growers
Association
Pres., W. C. Bishop
Inman, S. C.
Sec'y, A. E. Schilleter
Clemson College, S. C.

SOUTH DAKOTA

South Dakota Potato Growers
Association
Pres., E. A. Fletcher
Garden City, S. Dak.
Sec'y, John Noonan
Box 55, Watertown, S. Dak.

South Dakota State Horticultural
Society
Pres., George W. Gurney
Yankton, S. Dak.
Sec'y, W. A. Simmons
Court House,
Sioux Falls, S. Dak.

TENNESSEE

Tennessee Federation of Garden
Clubs
Pres., Mrs. L. E. Dickey
Germantown, Tenn.
Sec'y, Mrs. Hillman P. Rodgers
Davies Rd., Rt. 3,
Memphis, Tenn.

Tennessee State Horticultural
Society
Pres., D. E. Hedges
Chattanooga, Tenn.
Sec'y, G. M. Bentley
Univ. of Tenn.,
Knoxville, Tenn.

TEXAS

Texas Federation of Garden Clubs
See

Texas Garden Clubs, Inc.
Pres., Mrs. C. E. Beavers
1826 Pearl St.,
Wichita Falls, Tex.
Sec'y, Mrs. M. R. Garrison
2001 Huff Ave.,
Wichita Falls, Tex.

Texas Pecan Growers Association
Pres., W. M. Peters
106 Mills St., Bowie, Tex.
Sec'y, Andrew Winkler
Box 33, The Grove, Tex.

Central Texas Pecan Growers
Association
Pres., A. C. Amsler
McGregor, Tex.
Sec'y, J. C. Patterson,
County Agent
Waco, Tex.

East Texas Rose Growers
Association
Pres., J. A. Bostick
Box 927, Tyler, Tex.
Sec'y, T. W. Shank
Winona, Tex.

North Texas Pecan Growers
Association
Pres., J. F. Haas
509 Alcade, Dallas, Tex.
Sec'y, Prof. M. B. Lebo
Box 25, North Texas Agr.
College, Arlington, Tex.

West Texas Pecan Growers
Association
Pres., Bert Fletcher
Bronte, Tex.
Sec'y, Joseph Hamilton
Brownwood, Tex.

UTAH

Utah Associated Garden Clubs
Pres., Emil Feulner
R. D. 1, Magna, Utah
Sec'y, W. M. Keller
2862 S. 8th,
East Salt Lake City, Utah

Utah Gladiolus Society
Pres., George Soppe
1972—8th,
East Salt Lake City, Utah
Sec'y, F. E. Draper
1150 West 7th,
South Salt Lake City, Utah

Utah State Horticultural Society
Pres., Judge J. A. Howell
625 Esch Bldg., Ogden, Utah

Sec'y, A. Stark
Utah State Agr. College,
Logan, Utah

VERMONT

Vermont Certified Seed Potato
Growers Association
Pres., C. E. Cramton
Castleton, Vt.
Sec'y, H. L. Bailey
Dept. of Agriculture,
Montpelier, Vt.
Federated Garden Clubs of Vermont
Pres., Mrs. Levi P. Smith
322 S. Willard St.,
Burlington, Vt.
Cor. Sec'y, Mrs. Richard K. Miles
Tory Hollow House,
Arlington, Vt.
Vermont Horticultural Society
Pres., Paul W. Bohne
Springfield, Vt.
Sec'y, Charles H. Blasberg
481 Main St., Burlington, Vt.

VIRGINIA

Old Dominion Horticultural Society,
Inc.
Pres., Frederic Heutte,
Supt. of Parks
City Hall, Norfolk, Pa.
Sec'y, L. K. Payne
405 Duke St., Norfolk, Pa.
Virginia Dahlia Society
Pres., J. A. Millard
3803 Fauquier Ave.,
Richmond, Va.
Sec'y, C. P. Miller
Registry Division, U. S. P. O.,
Richmond, Va.
Virginia Federation of Garden Clubs
Pres., Mrs. L. R. Curry
Richmond, Va.
Cor. Sec'y, Mrs. W. S. Davis
Richmond, Va.
Garden Club of Virginia
Pres., Mrs. Powell Glass
Lee Circle, Lynchburg, Va.
Sec'y, Mrs. Harry Clemons
University Station,
Charlottesville, Va.
Men's Rose Club of Virginia
Pres., R. H. Anderson
Box 676, Lynchburg, Va.
Sec'y, Curtis O. Roberson
Box 2021, Roanoke, Va.
Virginia State Horticultural Society
Pres., Walker McC. Bond
Winchester, Va.
Sec'y, W. S. Campfield
Box 718, Staunton, Va.
Virginia State Horticultural Society
—Women's Auxiliary
Pres., Mrs. G. Dayton Hodges
Staunton, Va.
Sec'y, Mrs. Edith Cash
McGranahan
Staunton, Va.
James River Garden Club
Pres., Mrs. R. T. Barton, Jr.
1514 Park Ave., Richmond, Va.
Sec'y, Mrs. Douglas Freeman
Hampton Gardens,
Richmond, Va.
Southwest Virginia Gladiolus
Society
Pres., B. S. Williamson
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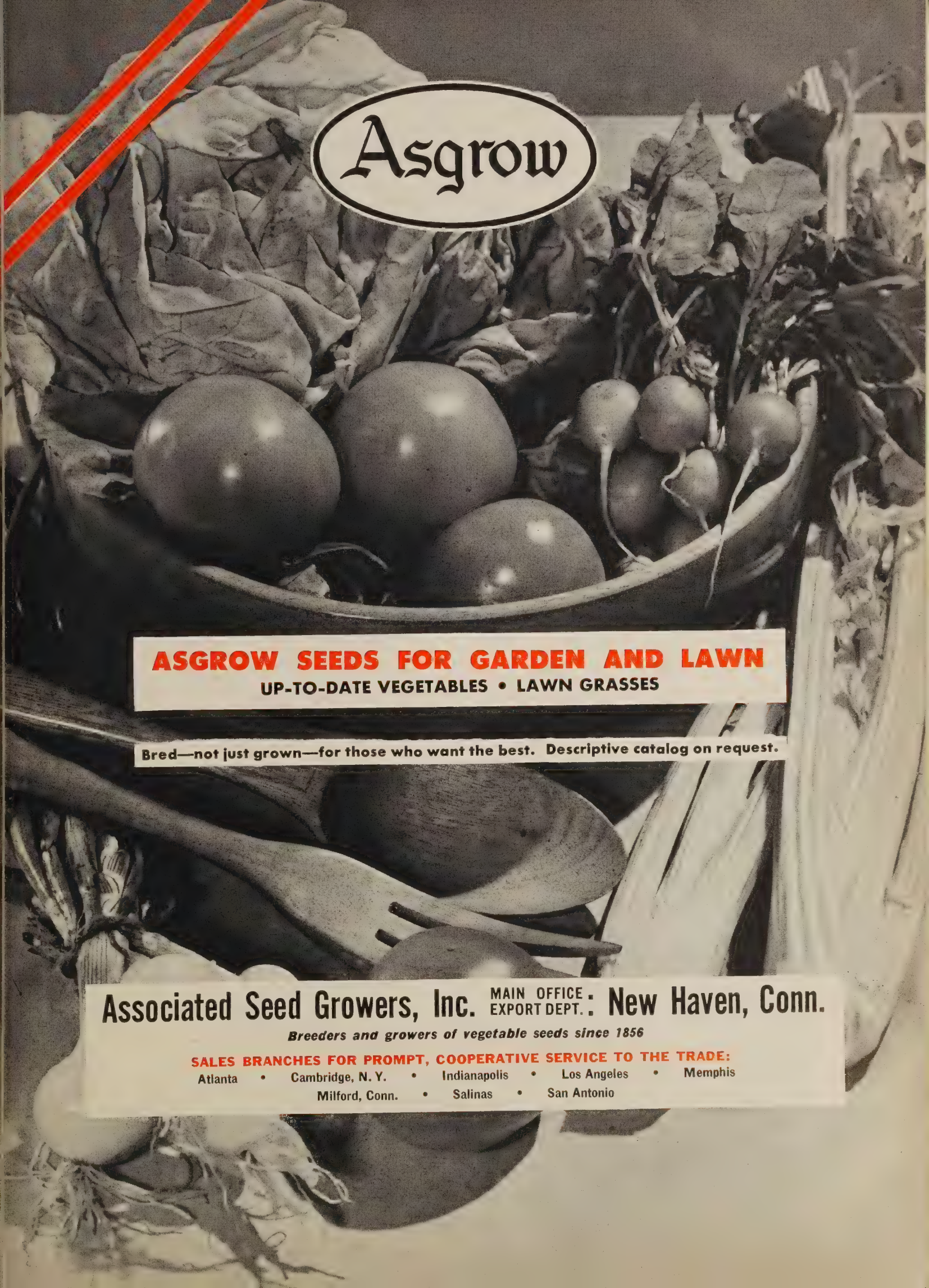
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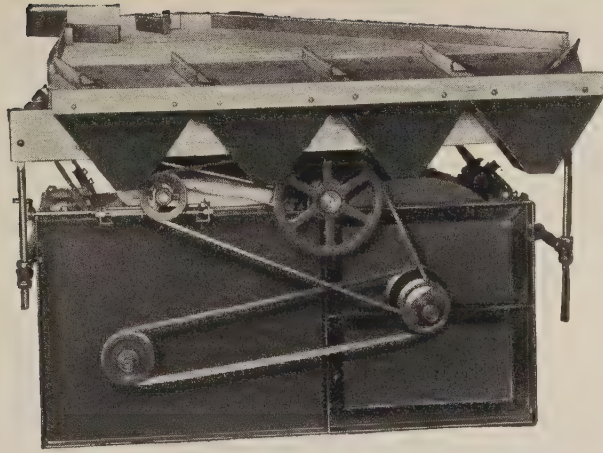
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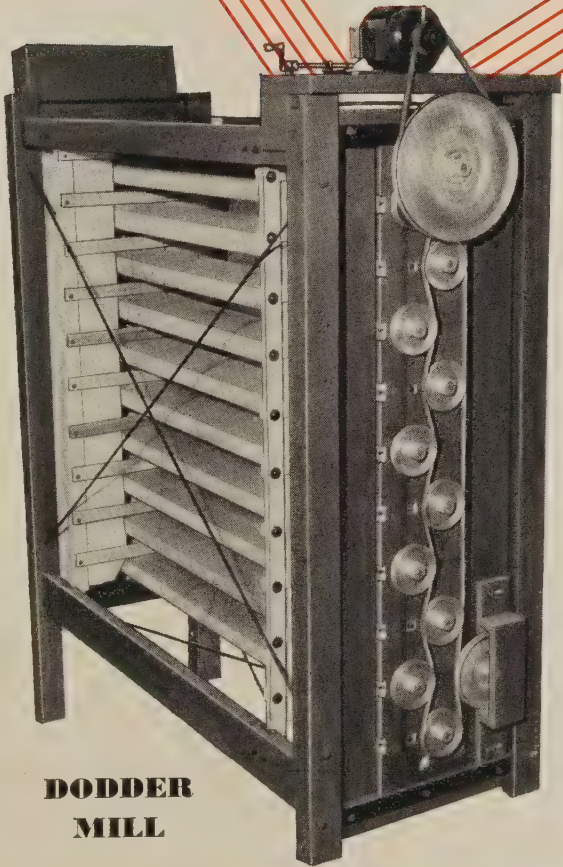
| Kind | SPOT | | GROWING | |
|----------------------|-----------|-----------|-----------|-----------|
| | Pounds | Dollars | Pounds | Dollars |
| Asparagus | 200 | 60 | 2,000 | 470 |
| Beans | 489,580 | 64,441 | 887,500 | 131,271 |
| Beets | 205,716 | 197,337 | 330,900 | 193,006 |
| Broccoli | 1,160 | 2,400 | | |
| Cabbage | 85,315 | 120,980 | 36,200 | 48,405 |
| Carrots | 196,664 | 620,079 | 163,500 | 197,973 |
| Cauliflower | 3,291 | 45,046 | 3,500 | 43,000 |
| Celery | 742 | 1,435 | 1,200 | 2,468 |
| Chard, Swiss | 13,460 | 11,285 | 1,000 | 400 |
| Corn, Sweet | 21,280 | 3,426 | | |
| Cucumber | 12,758 | 7,542 | 11,000 | 5,879 |
| Eggplant | 50 | 113 | | |
| Endive | 386 | 192 | 1,500 | 648 |
| Herbs | | | 10 | 23 |
| Kohlrabi | | | 400 | 490 |
| Leek | 580 | 4,480 | 5,650 | 14,050 |
| Lettuce, Heading | 49,738 | 30,770 | 225,600 | 161,074 |
| Lettuce, Leaf | 100 | 45 | | |
| Lettuce, Romaine Cox | 3,300 | 1,389 | 38,700 | 23,655 |
| Muskmelon | | | 500 | 275 |
| Onion | 96,610 | 365,932 | 88,350 | 186,298 |
| Parsley | 5,600 | 2,420 | 4,000 | 1,300 |
| Parsnip | 13,150 | 9,900 | 35,000 | 13,830 |
| Peas, Smooth | 65,000 | 6,077 | 277,000 | 31,120 |
| Peas, Wrinkled | 660,584 | 121,646 | 4,328,000 | 494,989 |
| Pumpkin | 250 | 106 | 300 | 135 |
| Radish | 54,518 | 19,298 | 629,860 | 195,012 |
| Rutabaga | 22,294 | 26,618 | 38,000 | 8,350 |
| Salsify | | | 500 | 260 |
| Spinach | 24,870 | 15,085 | 265,000 | 73,350 |
| Squash | 13,339 | 7,666 | 46,200 | 18,557 |
| Tomato | 4,643 | 7,586 | 7,600 | 17,240 |
| Turnip | 51,738 | 12,623 | 45,300 | 9,754 |
| | 2,096,916 | 1,704,977 | 7,489,270 | 1,874,359 |

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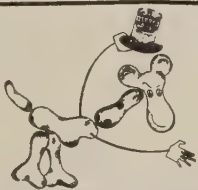
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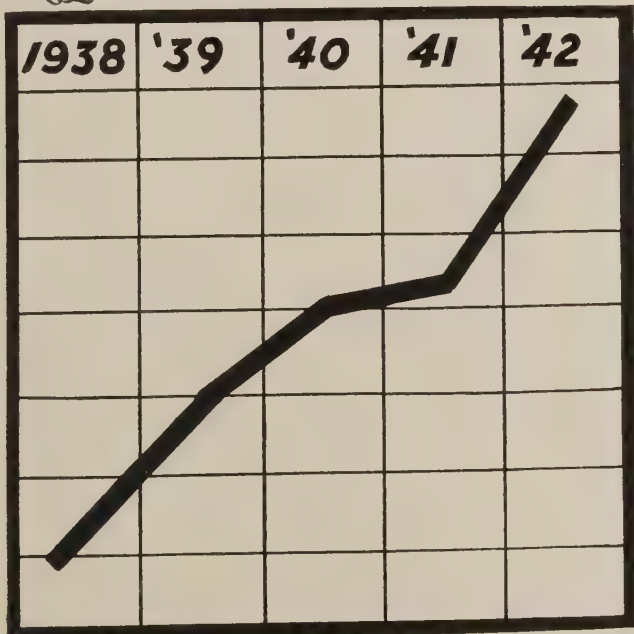
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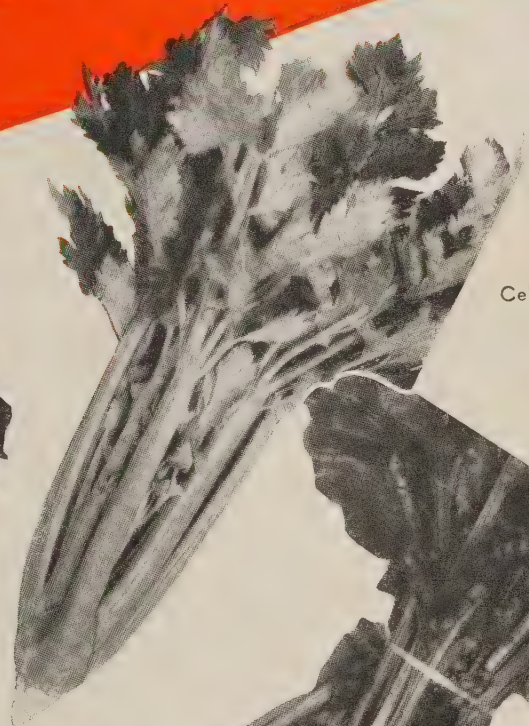


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Ibsen Seed Co.
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Vestergaards Seed Store
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Little Rock, Ark.

Cochran Co., H. K.
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Fish, Henry Berrien Seedsmen (Beans)
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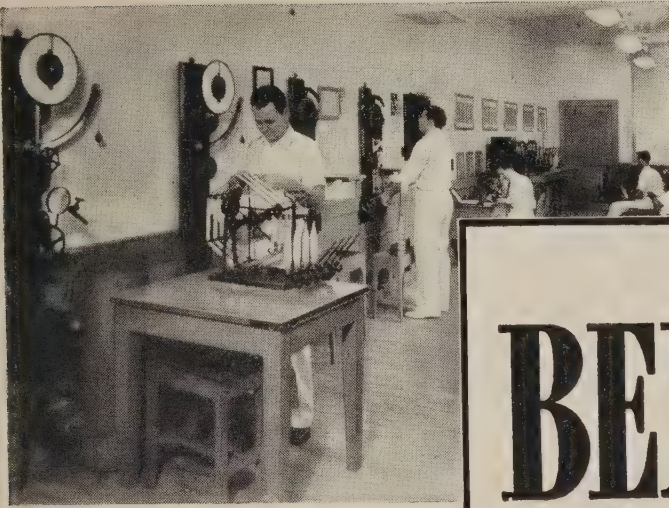
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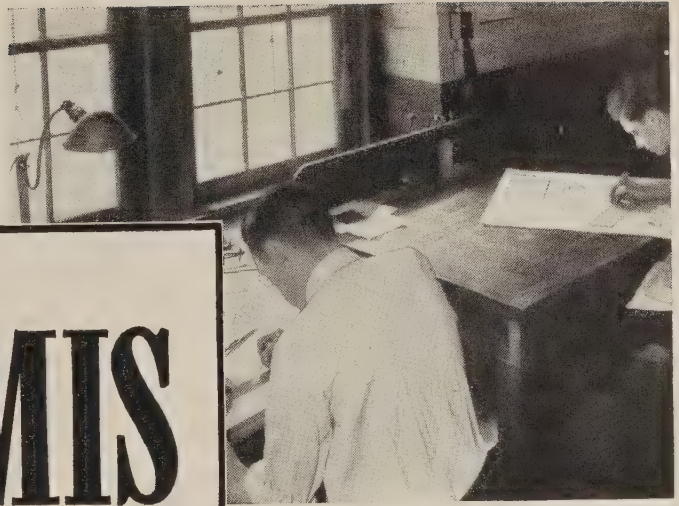
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Dallas, Texas
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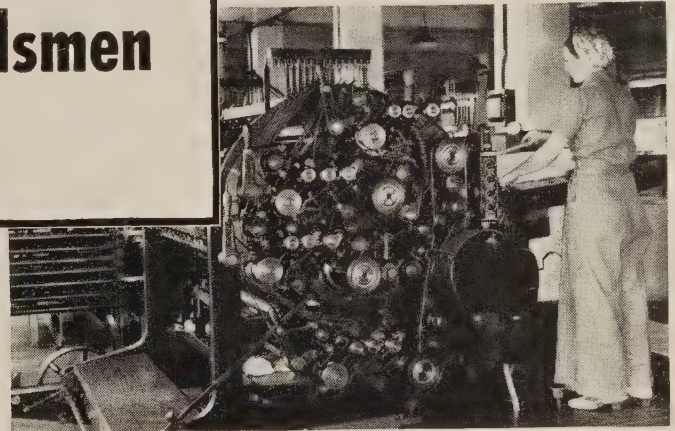
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Fumigate your stock with LARVACIDE. Penetrates kernels to kill egg life and larvae, as well as adult pests. Small lots are conveniently handled in vault or 55 gallon metal drum with tight cover.



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

RODENTS are killed by your fumigation for insects. For rodents alone, use light dosage, with overnight exposure. LARVACIDE drives rats out of retreats to die on the open floor without carcass nuisance.

Note that LARVACIDE is an *active control agent*. Instead of waiting for rodents to seek it out, it goes after them, killing by wholesale. Note too—with LARVACIDE, *small indoor rodent jobs may be handled without using gas mask*. LARVACIDE literature tells how.

For EASIER SOIL FUMIGATION

Chemical Soil Fumigation with LARVACIDE controls most damping-off and other harmful soil fungi . . . as well as nematodes, weed seeds, persistent weeds and insects. No steam boiler or other costly and cumbersome apparatus is required. LARVACIDE is injected below soil surface a week or two before planting, to allow time for soil aeration.

Selling top dressing and flatting soil essentially free of weeds and damping-off organisms can be a profitable specialty item.

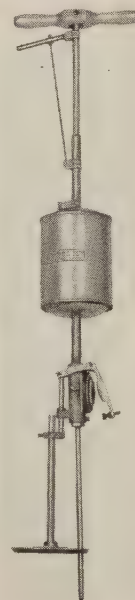
Use LARVACIDE in seed beds, frames, flats, greenhouses . . . also in compost soil (for weed control) to be drawn upon later.

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FARMERS will buy the 1 lb. bottle for use in farm bins and elsewhere around the farm, to control insects and rodents. GROWERS and HOME OWNERS buy LARVACIDE to fumigate their soil for weed control, etc., as above.

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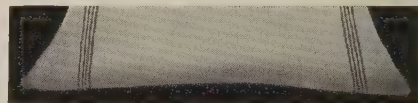
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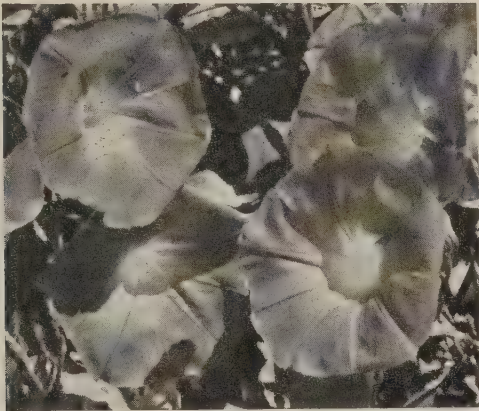
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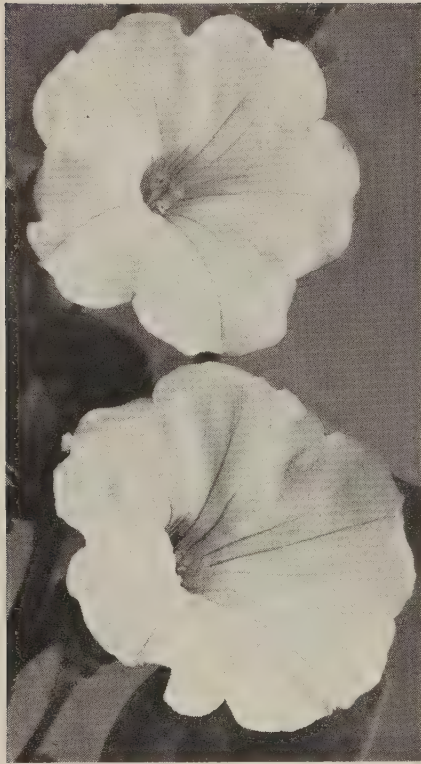
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PETUNIA IGLOO—Bronze Medal—Grown by Joseph Harris Co., Rochester, N. Y.

Ageratum

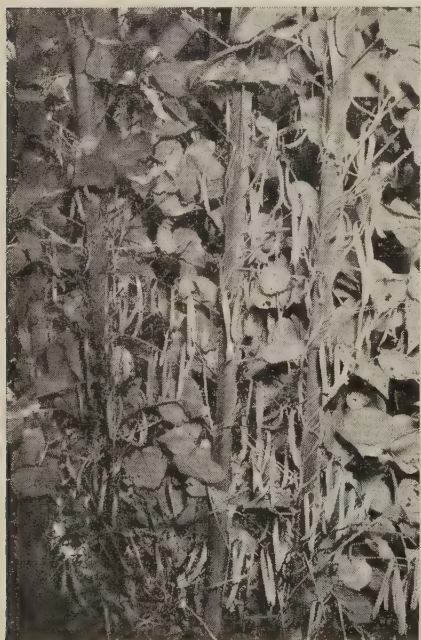
| Name | Award | Year | Introducer |
|-------------|-------|------|--------------------------|
| Midget Blue | S | 1940 | Waller-Franklin Seed Co. |

Anchusa

| | | | |
|-----------|---|------|-------------------|
| Blue Bird | B | 1935 | Watkins & Simpson |
|-----------|---|------|-------------------|

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 | E | 1936 | Hurst & Son |
| Rustproof | Special Award | 1935 | Univ. of California |
| St. George | B | 1936 | Hurst & Son |
| White Spire | B | 1937 | Sluis en Groot |



POLE SNAP BEAN POTOMAC—Bronze Medal—Grown by Associated Seed Growers, Inc., New Haven, Conn.

1933

All-America

G—Gold Medal, S—Silver Medal

Aster

| | | | |
|----------------------|---------------|------|---------------------------------|
| Early Giant | 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. |
| Silvery 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 | E | 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 |
|--------------|---|------|-------------|

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. |
|----------|---|------|--------------------|

Cleome

| | | | |
|------------|---|------|----------------------|
| Pink Queen | S | 1942 | Ferry-Morse Seed Co. |
|------------|---|------|----------------------|

Cornflower

| | | | |
|-------------|---|------|-------------|
| Jubilee Gem | S | 1937 | Hurst & Son |
|-------------|---|------|-------------|

Cosmos

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

Cynoglossum

| | | | |
|-----------|---|------|--------------|
| Firmament | E | 1939 | Ernst Benary |
|-----------|---|------|--------------|

Delphinium

| | | | |
|----------------|---|------|--------------------------|
| Cambridge Blue | S | 1933 | Waller-Franklin Seed Co. |
|----------------|---|------|--------------------------|

Dianthus

| | | | |
|----------------------|---|------|--------------------|
| Laciniatus Splendens | B | 1935 | Bodger Seeds, Ltd. |
|----------------------|---|------|--------------------|

Hollyhock

| | | | |
|---------------|---|------|----------------|
| Indian Spring | S | 1939 | Sluis en Groot |
|---------------|---|------|----------------|

Hunnemania

| | | | |
|---------|---|------|--------------------|
| Sunlite | S | 1934 | Bodger Seeds, Ltd. |
|---------|---|------|--------------------|

Larkspur

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

Linaria

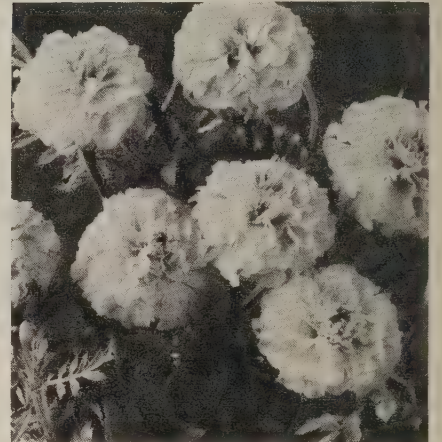
| | | | |
|---------------|---|------|-------------------|
| Fairy Bouquet | G | 1934 | Watkins & Simpson |
|---------------|---|------|-------------------|

Lupine

| | | | |
|------------|---|------|--------------------------|
| Giant King | S | 1933 | Waller-Franklin Seed Co. |
|------------|---|------|--------------------------|

Marigold

| | | | |
|------------------|---|------|--|
| Butterball | B | 1942 | Bodger Seeds, Ltd. |
| Chrys'm 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 | E | 1941 | Waller-Franklin Seed Co. |
| Guinea Gold | G | 1933 | Hurst & Son |
| Limelight | B | 1940 | W. Atlee Burpee Co. |
| Melody | B | 1942 | Ferry-Morse Seed Co. |
| Monarch Mixed | B | 1934 | Hurst & Son / Bodger Seeds, Ltd. |



MARIGOLD SUNKIST—Silver Medal—Grown by Bodger Seeds, Ltd., El Monte, Calif.

| | | | |
|----------------|---|------|--------------------------|
| 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 Pymg | 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. / Waller-Franklin Seed Co. |
| Scarlett O'Hara | G | 1939 | Dallas Seed Producing Co. |

Myositis

| | | | |
|--------|---|------|---------------------|
| Ingrid | M | 1938 | L. Daehnfeldt, Ltd. |
|--------|---|------|---------------------|

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. |
|-------------|---|------|--------------------|

Pansy

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



GIANT SENSATION COSMOS DAZZLER—Honorable Mention—Grown by Bodger Seeds, Ltd., El Monte, Calif.

Selections

1943

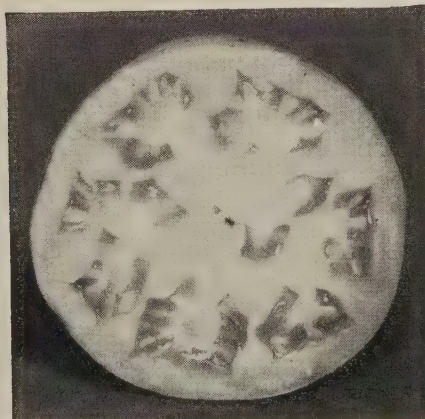
B—Bronze Medal, M—Honorable Mention



PETUNIA ALDDOUBLE AMERICA—Silver Medal—Grown by W. Atlee Burpee Co., Philadelphia.

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. |
| Cream Star | S | 1940 | W. Atlee Burpee Co. |
| Dainty 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 | S | 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 Gaiety | B | 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. |



TOMATO JUBILEE—Bronze Medal—Grown by W. Atlee Burpee Co., Philadelphia, Pennsylvania.

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. |
|---------------|---|------|---------------------|

Rudbeckia

| | | | |
|-----------|---|------|--------------------------------------|
| Starlight | M | 1942 | Buckman, Denholm and Holden Seed Co. |
|-----------|---|------|--------------------------------------|

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

| | | | |
|-----------|---|------|--------------------------|
| 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. |

Veridium

| | | | |
|-----------|---|------|--------------------|
| Fastuosum | S | 1933 | Bodger Seeds, Ltd. |
|-----------|---|------|--------------------|

Verbena

| | | | |
|------------------|---|------|---|
| Beauty of Oxford | S | 1933 | Waller-Franklin Seed Co. |
| Blue Sentinel | B | 1939 | W. Atlee Burpee Co. |
| Cerise Queen | E | 1934 | Waller-Franklin Seed Co. |
| Dannebrog | S | 1934 | { L. Daehfeldt, Ltd. Theodore Jensen |
| Floradale Beauty | E | 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. |
| Narajo, Mixed | M | 1938 | W. Atlee Burpee Co. |
| Royal Purple | M | 1942 | Ferry-Morse Seed Co. |

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 | B | 1941 | W. Atlee Burpee Co. |
| Granda | S | 1939 | Rudolph Schreiber & Sohne |
| Plentiful (Asgrow) Stringless | B | 1939 | Ferry-Morse Seed Co. |
| Black Valentine | S | 1933 | Associated Seed Growers, Inc. |
| Pole Snap, Decatur | S | 1942 | Associated Seed Growers, Inc. |
| Pole Snap, Potomac | E | 1943 | Associated Seed Growers, Inc. |
| The Commodore | B | 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 | B | 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. |
| Earliest of All (Red) | M | 1937 | Abraham Sluis, Ltd. |
| Just Right | B | 1935 | Sluis Bros., Ltd. |
| Moscow Market Pride | M | 1937 | Abraham Sluis, Ltd. |
| Penn State Ballhead | S | 1934 | { Penn State College J. M. Lupton & Son |
| Sauerkraut King | M | 1938 | Abraham Sluis, Ltd. |



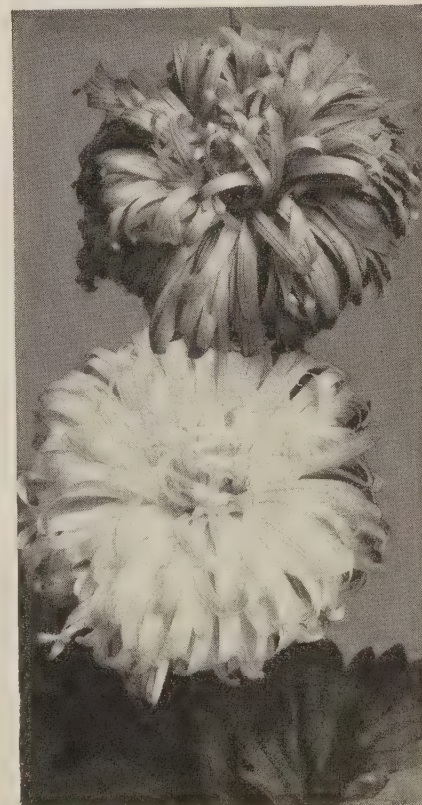
PETUNIA ENGLISH VIOLET—Honorable Mention—Grown by Joseph Harris Co., Rochester, N. Y.

Cantaloupe

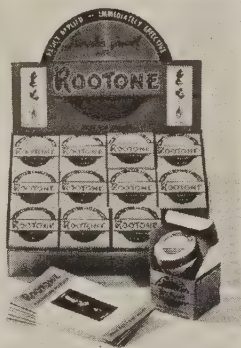
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|-------------------|---|------|-------------------------|
| Honey Gold | M | 1941 | Edward Lowden |
| Honey Rock | G | 1933 | J. C. Robinson Seed Co. |
| Imperial | S | 1935 | J. C. Robinson Seed Co. |
| Improved Perfecto | S | 1933 | Garwood & Woodside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



ASTER VICTORY GIANTS MIXED—Honorable Mention—Grown by Sluis en Groot of America, Inc., Washington, N. C.



Rootone Counter Display

**Now of all Times
YOU CAN MAKE MORE PROFITS**

**To pay your taxes and buy your bonds
from**



Here is a product used and demanded in increasing volume by farmers, market growers, nurserymen, specialists, horticulturists, home gardeners, and home owners. There are no priority restrictions on it. It is an important factor in producing the increased crops that we must have.

ROOTONE is now an accepted part of cultural technique for many plants by countless professional growers. It is a hormone powder which, when dusted on seeds, hastens germination and tends to produce more and stronger seedlings. When cuttings are dipped in ROOTONE powder before setting they are stimulated to quicker root formation. The experience of growers during the past four years has shown amazing increases on a wide range of crops from the use of ROOTONE. It is one item in a fast growing line. You will find equally active sales with



This powder when dissolved in water makes a solution that stimulates plants after they have been transplanted and, thus, reduces loss from shock and wilt. It is used and endorsed by plant growers in all sections of the country.



Is the product that you have heard so much about for its wide use on 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 crop of berries.

Eight out of every ten people who come into your store are prospects for one or all of these items... and most of them have been previously convinced of their value through national advertising.

| | | |
|----------------------|--------------|--------|
| ROOTONE | 1/4 oz. pkt. | 25c |
| | 2 oz. jar | \$1.00 |
| | 1 oz. can | \$5.00 |
| TRANSPLANTONE | 1/2 oz. pkt. | 25c |
| | 3 oz. can | \$1.00 |
| | 1 lb. can | \$4.00 |
| FRUITONE | 3/4 oz. pkt. | 25c |
| | 2 oz. can | \$1.00 |
| | 12 oz. can | \$5.00 |

Horticultural Div. Y-1

AMERICAN CHEMICAL PAINT COMPANY
Ambler, Penna.



ASTER EXTRA EARLY GIANT CREGO
NAVY BLUE—Honorable Mention—Grown
by W. Atlee Burpee Co., Philadelphia.

Corn, Sweet

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

Cucumber

| | | | |
|------------------------|---|------|-------------------------------|
| Barteldes | S | 1934 | Barteldes Seed Co. |
| Clark's Special | S | 1933 | Associated Seed Growers, Inc. |
| Colorado | S | 1935 | J. C. Robinson Seed Co. |
| Marketer (Blue Ribbon) | H | 1943 | Associated Seed Growers, Inc. |
| Straight-8 | H | 1935 | Ferry-Morse Seed Co. |



BUSH LIMA BEAN, GREEN SEEDED HENDERSON TYPE, CANGREEN—Honorable
Mention—Grown by F. H. Woodruff & Sons,
Inc., Milford, Conn.

Eggplant

| | | | |
|-------------------|---|------|--------------------------|
| New Hamps. Hybrid | S | 1939 | N. H. Experiment Station |
|-------------------|---|------|--------------------------|

Endive

| | | | |
|---------------------|---|------|-------------------------|
| Batavian 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. |
| Giant So. Curled, L.S. | G | 1935 | Abraham Sluis, Ltd. |
| 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. |

Okra

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

Photographs by J. Horace McFarland Co.,
Harrisburg, Pa., and growers.

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 | E | 1934 | Zwaan & Van der Molen |

Pea

| | | | |
|-------------|---|------|------------------------------|
| Canner King | E | 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 | B | 1938 | D. V. Burrell Co. |
| Sweet Banana | B | 1941 | Cornell Seed Co. |
| Windsor A | B | 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. |



PEPPER EARLY PIMIENTO—Honorable
Mention—Grown by W. Atlee Burpee Co., Phila-
delphia.

Spinach

| | | | |
|------------------|---|------|-------------------------|
| Bloomsdale No. 5 | E | 1937 | Sluis Brothers, Ltd. |
| Darkie | E | 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 | H | 1937 | Zwaan & Van der Molen |

Squash

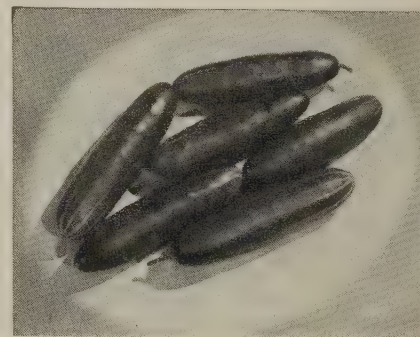
| | | | |
|----------------------|---|------|--------------------------|
| Conn. Straightneck | M | 1939 | Conn. Experiment Station |
| Ey. Prolific St'neck | S | 1938 | Ferry-Morse Seed Co. |
| Fordhook Zucchini | M | 1942 | W. Atlee Burpee Co. |
| Golden Table Queen | B | 1939 | J. C. Robinson Seed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

Tomato

| | | | |
|--------------|---|------|-------------------------------|
| Burpee Globe | S | 1936 | W. Atlee Burpee Co. |
| Cardinal | M | 1938 | Associated Seed Growers, Inc. |
| Harkness | M | 1938 | McFayden Seed Co. |
| Jubilee | H | 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 | H | 1935 | Associated Seed Growers, Inc. |
| Victor | B | 1941 | Keith Barrons |

Watermelon

| | | | |
|-----------|---|------|--------------------|
| Graystone | S | 1933 | H. G. Hastings Co. |
|-----------|---|------|--------------------|



CUCUMBER MARKETER, the Blue Ribbon
vegetable winner—Bronze Medal—Grown by
Associated Seed Growers, Inc., New Haven,
Conn.

"Until the Lights Go On Again"

OUR COUNTRY is in a desperate struggle to preserve the American way of life and our Government has asked that more and more land and manpower be devoted to the production of essential food crops and the growing of vegetable seed to produce these crops. Our business is the production of flower seeds, but in support of the all-out war effort, we shall, for the coming season, allocate a large percentage of our land and devote much of our effort to the production of vegetable seed and essential food crops.

Sufficient land will be devoted to the production of flower seeds to provide our regular customers with some seed on all of the important items that they normally buy from us and to maintain our present stocks at the usual high state of perfection.

For the duration it may be necessary for us to delete from our commercial production some of the less important items of flower seeds. On these we shall, of course, make plantings of sufficient size to insure ample planting stock of high vitality and high quality to again produce the usual quantities after the war.



Merit Flower Seed and Food Crops

WALLER-FRANKLIN SEED COMPANY
WHOLESALE GROWERS
GUADALUPE, CALIFORNIA

SALES OF 17 SEEDS ARE SMALLER BUT 6 ARE LARGER THAN IN 1941

WASHINGTON, D.C., August 1.—Retail sales of 17 field seeds during the past spring and early this summer were smaller than last year, while sales of 6 were larger. The total quantity of the 23 kinds sold by the 1,459 dealers reporting was 62,900,000 pounds, which is 3 percent more than was sold in 1941. If, however, sales of the larger seeds—corn, cowpeas, and soybeans—are excluded from the total, the sales of the remaining (smaller) seeds are 7 percent less than in 1941. Declines in sales ranged from 5 to 15 percent, with the sales this year compared with last year given in paren-

theses as follows: white (Dutch) clover (85), alfalfa (87), cowpeas (87), timothy (87), millet (88), sweetclover (89), crested wheatgrass (90), meadow fescue (90), orchard grass (90), Kentucky bluegrass (92), redtop (92), alsike clover (94), Korean lespedeza (94), ryegrass (94), sorgo (94), bromegrass (95), and Kobe lespedeza (95). On the other hand, sales of the following 6 seeds were 1 to 35 percent larger than in 1941: Ladino clover (135), soybeans (130), seed corn (124), red clover (103), Sudan grass (102), and rapeseed (101).

RETAIL SALES (TONNAGE) OF FIELD SEEDS IN SPRING, 1942, COMPARED WITH 1941

| State or States | No. of reports | Alfalfa | Red clover | Alsike clover | Sweet clover | White (Dutch) clover | Ladino | Lespedeza | | Cowpeas | Soybeans | Seed corn |
|--------------------|----------------|---------|------------|---------------|--------------|----------------------|--------|-----------|------|---------|----------|-----------|
| | | | | | | | | Kor. | Kobe | | | |
| | | % | % | % | % | % | % | % | % | % | % | % |
| New England..... | 33 | 95 | 110 | 95 | 115 | 50 | 130 | | | | 140 | 125 |
| New York..... | 64 | 105 | 100 | 95 | 90 | 70 | 160 | | | 90 | 130 | 100 |
| Pennsylvania..... | 136 | 100 | 110 | 100 | 95 | 70 | 160 | 120 | | 125 | 120 | 105 |
| New Jersey..... | 24 | 90 | 100 | 95 | 105 | 115 | 175 | | | 125 | 135 | 105 |
| Maryland..... | 24 | 90 | 135 | 100 | 95 | 100 | 165 | 110 | 90 | 115 | 170 | 170 |
| Virginia..... | 30 | 90 | 100 | 100 | 100 | 70 | | 115 | 90 | 90 | 130 | 130 |
| West Virginia..... | 15 | 110 | 100 | 100 | | | | 80 | | | 105 | 130 |
| Southeastern..... | 27 | 65 | 125 | 100 | 60 | 80 | | 90 | 100 | 85 | 110 | 130 |
| Tennessee..... | 10 | 100 | 115 | 90 | 70 | 100 | | 65 | 110 | 80 | 105 | 115 |
| Kentucky..... | 21 | 80 | 85 | 90 | 75 | 100 | | 115 | | 120 | 110 | 120 |
| Ohio..... | 91 | 100 | 105 | 90 | 95 | 105 | | 135 | | | 145 | 120 |
| Indiana..... | 69 | 100 | 115 | 100 | 80 | 75 | | 95 | | 75 | 85 | 120 |
| Illinois..... | 92 | 95 | 110 | 105 | 80 | 80 | | 95 | | 80 | 150 | 115 |
| Iowa..... | 112 | 90 | 105 | 90 | 95 | 80 | | 130 | | 90 | 140 | 110 |
| Missouri..... | 57 | 80 | 75 | 70 | 100 | 90 | | 65 | | 90 | 115 | 165 |
| Michigan..... | 98 | 100 | 105 | 100 | 90 | 85 | | 100 | | 100 | 135 | 130 |
| Wisconsin..... | 100 | 90 | 95 | 90 | 80 | 100 | | | | 110 | 50 | 125 |
| Minnesota..... | 80 | 65 | 70 | 80 | 95 | 50 | | | | 65 | 145 | 115 |
| North Dakota..... | 39 | 65 | 80 | 70 | 95 | 50 | | | | | 185 | 130 |
| South Dakota..... | 26 | 65 | 70 | 80 | 95 | 65 | | | | | 185 | 110 |
| Nebraska..... | 47 | 80 | 105 | 85 | 80 | 60 | | | | | 105 | 110 |
| Kansas..... | 54 | 80 | 105 | 150 | 105 | 60 | | 100 | | 130 | 250 | 130 |
| Oklahoma..... | 27 | 75 | | | 95 | 110 | | 125 | 100 | 110 | 140 | 175 |
| Arkansas..... | 8 | | 100 | | | | | 60 | 90 | 105 | 150 | 150 |
| Texas..... | 47 | 75 | | | 105 | 95 | | 130 | 110 | 75 | 130 | 160 |
| New Mexico..... | 6 | 75 | | | | 100 | | | | | | 120 |
| Montana..... | 20 | 90 | 140 | 100 | 120 | 75 | | | | | | 110 |
| Colorado..... | 26 | 65 | 175 | 115 | 95 | 75 | | 125 | | | 130 | 100 |
| Idaho..... | 12 | 100 | 100 | 85 | 95 | 85 | 100 | | | | | 115 |
| Washington..... | 18 | 85 | 85 | 90 | 85 | 60 | | | | | | 90 |
| Oregon..... | 15 | 80 | 115 | 100 | 95 | 110 | 120 | | | | | 75 |
| California..... | 21 | 90 | | | 120 | 90 | 115 | | | 110 | | 100 |
| U. S. Average..... | 1,459 | 87 | 103 | 94 | 89 | 85 | 135 | 94 | 95 | 87 | 130 | 124 |

| State or States | Timothy | Red-top | Ky. Bluegrass | Orchard grass | Meadow Fescue | Brome-grass | Crested wheat-grass | Rye-grass | Sudan grass | Sorgo ("Cane") | Millet | Rape-seed |
|--------------------|---------|---------|---------------|---------------|---------------|-------------|---------------------|-----------|-------------|----------------|--------|-----------|
| | % | % | % | % | % | % | % | % | % | % | % | % |
| New England..... | 65 | 80 | 80 | 110 | | | | 85 | 80 | | 90 | 120 |
| New York..... | 85 | 75 | 95 | 150 | 100 | | | 90 | 115 | 95 | 100 | 130 |
| Pennsylvania..... | 100 | 85 | 100 | 120 | 110 | | | 110 | 110 | 175 | 70 | 85 |
| New Jersey..... | 95 | 120 | 110 | | 90 | | | 95 | 95 | 160 | | 100 |
| Maryland..... | 60 | 65 | 100 | | | | | 110 | 110 | 150 | | 105 |
| Virginia..... | 85 | 90 | 100 | 115 | | | | 110 | 100 | 105 | 145 | 85 |
| West Virginia..... | 100 | 120 | 110 | 90 | | | | 110 | 140 | 105 | 105 | |
| Southeastern..... | | 115 | 115 | 105 | | | | 80 | 95 | 105 | 85 | 85 |
| Tennessee..... | 75 | 110 | 110 | 65 | | | | 70 | 130 | 160 | 120 | 110 |
| Kentucky..... | 95 | 100 | 85 | 65 | | | | 110 | 105 | 100 | 95 | 105 |
| Ohio..... | 95 | 100 | 85 | 125 | | 130 | | 130 | 130 | 110 | 100 | 120 |
| Indiana..... | 95 | 85 | 85 | 85 | 90 | 165 | | 110 | 145 | 130 | 90 | 125 |
| Illinois..... | 90 | 90 | 110 | 115 | | 110 | | 110 | 120 | 135 | 110 | 110 |
| Iowa..... | 95 | 85 | 105 | | 100 | 115 | 85 | 90 | 95 | 110 | 90 | 80 |
| Missouri..... | 60 | 90 | 80 | 105 | | 100 | | 90 | 105 | 110 | 90 | 75 |
| Michigan..... | 100 | 100 | 100 | 150 | 95 | 75 | | 95 | 115 | 125 | 130 | 130 |
| Wisconsin..... | 90 | 95 | 80 | 75 | 100 | 105 | | 120 | 115 | 95 | 100 | 105 |
| Minnesota..... | 80 | 80 | 75 | | | 55 | 50 | 75 | 95 | 105 | 75 | 75 |
| North Dakota..... | 60 | 85 | 100 | | | 70 | 60 | 110 | 115 | 70 | 75 | 130 |
| South Dakota..... | 115 | 120 | 110 | | | 80 | 90 | 100 | 110 | 100 | 100 | 70 |
| Nebraska..... | 90 | 100 | 80 | 100 | | 95 | 115 | 85 | 105 | 85 | 90 | 95 |
| Kansas..... | 85 | 75 | 95 | 60 | 75 | 145 | 150 | 90 | 95 | 90 | 90 | 70 |
| Oklahoma..... | | 100 | 110 | 100 | | | | 95 | 105 | 140 | 110 | 115 |
| Arkansas..... | | | | | | | | | 110 | 100 | 100 | |
| Texas..... | | | | | | | | 70 | 95 | 80 | 90 | 85 |
| New Mexico..... | | | | | | | | | 100 | 105 | 105 | |
| Montana..... | 100 | 85 | 100 | 100 | 105 | 115 | 160 | | 100 | 60 | 85 | |
| Colorado..... | 90 | | 80 | 90 | 120 | 110 | 75 | 100 | 60 | 70 | 80 | |
| Idaho..... | 95 | 100 | 100 | 100 | 90 | 120 | 100 | | | | | |
| Washington..... | 85 | 80 | 70 | 90 | 100 | 120 | 110 | 95 | 100 | | | |
| Oregon..... | 70 | 90 | 90 | 95 | 80 | 90 | 80 | 125 | 125 | | | 120 |
| California..... | | | 85 | 130 | | | | 100 | 105 | | | |
| U. S. Average..... | 87 | 92 | 92 | 90 | 90 | 95 | 90 | 94 | 102 | 94 | 88 | 101 |



Available for IMMEDIATE Delivery

in ALL Sizes—1 to 100 lb. pkgs.



Victory gardens, lawns and flowers will demand more plant food than ever in 1943. Make your plans early while you can be sure there's no waiting because of transportation delays.

Sacco's high quality—Sacco's low price—and Sacco's reputation as the all purpose plant food that gets results—assure a profitable 1943 season for Sacco dealers. Beautiful, new 4-color consumer folders, newspaper electros, and other strong sales support furnished free to help you get volume.

Stock Sacco and display it in your catalog.



THE SMITH AGRICULTURAL CHEMICAL CO.

630 N. Champion Ave., Columbus, Ohio.



115th
Year

WRITE FOR PRICES
BEFORE PLACING YOUR ORDER
VEGETABLE SEEDS
Idaho PEAS and BEANS

RELIABLE
SINCE 1828

ROBERT BUIST COMPANY

"Seedsman for over a Century"

PHILADELPHIA, PA.

--

ATLANTA, GA.

VERIFIED-ORIGIN ALFALFA AND RED CLOVER SEED DEALERS FOR 1943

*U. S. Seed Verification Service, Agricultural Marketing Administration,
U.S.D.A.*

| | | Alfalfa | Red Clover | | | Alfalfa | Red Clover |
|--|---|---------|---------------|---|---|---------|---------------|
| IDAHO | | | | MONTANA | | | |
| Mark Means Company, Lewistown..... | x | | | Michael-Leonard Seed Co., Billings..... | x | | |
| ILLINOIS | | | | *The Searle Seed Co., Lewistown..... | x | | |
| The Albert Dickinson Company, Chicago.... | x | | x | NEBRASKA | | | |
| Funk Bros. Seed Co., Bloomington..... | x | | x | N. Bonahoom Seed Co., Hastings..... | x | | |
| Kelly Seed Company, Peoria..... | x | | x | The Bowman Seed Company, Superior..... | x | | |
| Midwest Seed Co., Mt. Vernon..... | x | | x | Carberry Seed Company, Columbus..... | x | | |
| INDIANA | | | | Carberry Seed Company, Norfolk..... | x | | |
| Allied Seed Company, Inc., Fort Wayne.... | x | | x | Griswold Seed & Nursery Co., Lincoln..... | x | | |
| Crabbs Reynolds Taylor Co., Crawfordsville. | x | | x | Kollman-Warner Co., Inc., Norfolk..... | x | | x |
| Crawfordsville Seed Co., Inc., Crawfordsville | x | | x | Lauber Seed Company, York..... | x | | |
| Davis Seed Company, Lebanon..... | x | | x | Nebraska Seed Co., Omaha..... | x | | x |
| Foster-Kendall Co., Carmel..... | x | | x | Yager Seed Co., Fremont..... | x | | |
| Indiana Seed Company, Indianapolis..... | x | | x | NEW YORK | | | |
| IOWA | | | | Arthur R. Cone, Buffalo..... | x | | x |
| Davenport Seed Company, Inc., Davenport.. | x | | | Craver-Dickinson Seed Co., Inc., Buffalo.... | x | | x |
| Dubuque Seed Co., Dubuque..... | x | | x | The Stanford Seed Co., Inc., Buffalo..... | x | | x |
| Hamilton Seed & Coal Co., Cedar Rapids.... | x | | x | Whitney Seed Co., Inc., Buffalo..... | x | | x |
| Lynnville Seed Co., Lynnville..... | x | | | NORTH DAKOTA | | | |
| Michael-Leonard Seed Co., Sioux City..... | x | | | Goldberg Seed & Feed Company, Fargo..... | x | | x |
| Northwestern Seed Co., Inc., Keokuk..... | x | | x | Interstate Seed & Grain Co., Fargo..... | x | | |
| Ouren Seed Co., Council Bluffs..... | x | | | Newday Seeds, Inc., Fargo..... | x | | x |
| Standard Seed Co., Des Moines..... | x | | | OHIO | | | |
| Wertz and Company, Sioux City..... | x | | | The Ackerman Co., Lima, Ohio..... | x | | x |
| KANSAS | | | | Henry Hirsch & Sons, Inc., Toledo..... | x | | x |
| The L. C. Adam Merc. Co., Cedar Vale..... | x | | | The J. Chas. McCullough Seed Co., Cincinnati | x | | x |
| Assaria Hardware Co., Assaria..... | x | | | O. M. Scott & Sons Company, Marysville.... | x | | x |
| The Bowman Seed Co., Concordia..... | x | | | OKLAHOMA | | | |
| Frazier's Seed Store, Coffeyville..... | x | | | E. O. Billingslea Grain Co., Frederick..... | x | | |
| Hutchinson Feed & Seed Company, Hutchin- son | x | | | Hardeman-King Company, Oklahoma City.. | x | | |
| T. A. Kelley Company, Salina..... | x | | | W. B. Johnston Grain Company, Enid..... | x | | |
| Salina Seed Co., Salina..... | x | | | Keller Seed Store, Shawnee..... | x | | |
| Sedgwick Alfalfa Mills, Sedgwick..... | x | | | Oklahoma Improved Seed Co., Inc., Chickasha | x | | |
| MARYLAND | | | | PENNSYLVANIA | | | |
| The Belt Seed Co., Inc., Baltimore..... | x | | x | A. H. Hoffman, Inc., Landisville..... | x | | x |
| Wm. G. Scarlett & Co., Baltimore..... | x | | x | E. J. Houck & Son, Bangor..... | x | | x |
| MICHIGAN | | | | The Philadelphia Seed Co., Inc., Philadelphia | x | | |
| H. C. King & Sons, Inc., Battle Creek..... | x | | x | Seaboard Seed Company, Philadelphia..... | x | | x |
| McLaughlin, Ward & Co., Jackson..... | x | | x | SOUTH DAKOTA | | | |
| Parks Seed Company, Jackson..... | x | | x | Dakota Improved Seed Co., Mitchell..... | x | | |
| MINNESOTA | | | | General Sales, Inc., Sioux Falls..... | x | | |
| Cargill, Incorporated, Seed Division, Minne- apolis | x | | x | McMahon Company, Rapid City..... | x | | |
| Farmer Seed & Nursery Co., Faribault..... | x | | | Geo. P. Sexauer & Son, Brookings..... | x | | |
| Ira P. Hinman, Minneapolis..... | x | | x | TENNESSEE | | | |
| Land O'Lakes Creameries, Inc., Thief River Falls | x | | x | Green Brothers, Nashville..... | x | | |
| Northern Farmers Cooperative Exchange, Williams | x | | x | Russell-Heckle Seed Company, Memphis.... | x | | |
| Northern Field Seed Company, Winona..... | x | | x | TEXAS | | | |
| Northrup, King & Company, Minneapolis.... | x | | x | Martin-Lane Co., Vernon..... | x | | |
| Peterson-Biddick Co., Wadena..... | x | | | UTAH | | | |
| Seldon-Watts Seed Co., St. Paul..... | x | | x | Kelly-Western Company, Salt Lake City.... | x | | x |
| Twin City Seed Company, Minneapolis..... | x | | x | Occidental Seed Co., Salt Lake City..... | x | | x |
| MISSOURI | | | | WISCONSIN | | | |
| Corneli Seed Company, St. Louis..... | x | | x | Courteen Seed Co., Milwaukee..... | x | | x |
| Ed. F. Mangelsdorf & Bro., Inc., St. Louis.... | x | | x | Kellogg Seed Company, Milwaukee..... | x | | x |
| Peppard Seed Co., Kansas City..... | x | | | LaCrosse Seed Company, LaCrosse..... | x | | x |
| Rudy-Patrick Seed Co., Kansas City..... | x | | | L. L. Olds Seed Company, Madison..... | x | | x |
| | | | | Standard Seed & Feed Company, Madison... | x | | |
| | | | | L. Teweles Seed Co., Milwaukee..... | x | | x |

* Indicates dealer not in the service in 1941-42.

HENRY HIRSCH & SONS

INCORPORATED

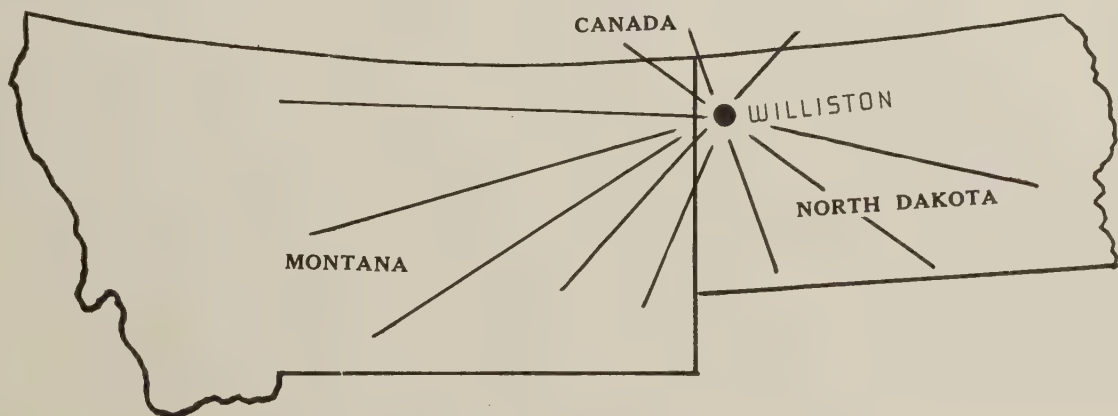
Wholesale

FIELD SEEDS

Buyers—Sellers

CLOVER, ALFALFA, ALSIKE & TIMOTHY

HENRY HIRSCH & SONS, INC. TOLEDO, O.



HARDY NORTHERN GROWN

BROME GRASS

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Farmers Union Grain and Supply Co.

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NORTH DAKOTA

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*). Wyo.

B

- Ball cress (*Hymenophysa pubescens*). See Hoary cress.
 Ball mustard (*Neslia paniculata*). See Mustard, ball.
 Barley, wild (*Hordeum jubatum*, *H. murinum*) Squirrel-tail grass. Ariz., Colo.
 Bassia, five-hook (*Bassia hyssopifolia*). Cal., Nev.
 Bearded darnell (*Lolium temulentum*). See Darnell, bearded.
 Bermuda grass (*Cynodon dactylon*, *Capriola dactylon*) Wire grass. Ala., Fla., Ga., La., Md., Miss., Okla., Tex., U., Va., D. C.
 Big mouse-ear (*Cerastium vulgatum*). See Chickweed, big mouse-ear.
 Bindweed, field (*Convolvulus arvensis*) Creeping Jennie, Morning-glory, Tie-vine, Wild morning-glory. Ala., Ariz., Ark., Cal., Colo., Ga. (spp), Ida., Ill., Ind., Ia., Kan., La., Me., Md., Mich., Minn., Miss., Mo., Mont., Neb., Nev., N. C., N. Dak., Okla., Ore., Pa. (spp), S. Dak., Tex. (spp), U., Wash., Wis., Wyo., D. C.
 Bindweed, hedge (*Convolvulus sepium*) Wild morning-glory. Ark., Ga. (spp), Ida., 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 pul-*

- chella*). See Lettuce, blue flowering.
 Blue sunflower (*Helianthus ciliaris*). See Blueweed. Texas.
 Blueweed (*Echium vulgare*). Me., Okla.
 Blueweed, Texas (*Helianthus ciliaris*) Blue sunflower. Ariz., Cal., 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. (spp), Conn. (spp), Ga. (spp), Ida., Ill., Ind., Ia., Kan., Ky., Me., Mass., Minn., Miss. (spp), Mo. (spp), O. (spp), Okla., Ore., R. I., Tex., U., Wash. (spp), W. Va., Wis.
 Buckwheat, wild (*Polygonum convolvulus*). Okla.
 Buffalo bur (*Solanum rostratum*). Nev., Okla.
 Bull nettle (*Solanum carolinense*). See Horse nettle.
 Bullthistle (*Cirsium lanceolatum*). U.
 Burdock, great (*Arctium lappa*). U.
 Burdock, smaller (*Arctium minus*). U.
 Bur grass (*Cenchrus pauciflorus*). See Sand bur.
 Burnweed, Australian (*Erechtites prenanthoides*) Fireweed. Ore.
 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*). Ala., Ariz., Cal., Colo., Conn., Del., Fla., Ga., Ida., Ill., Ind., Ia., Kan., Ky., Me., Md., Mass., Mich., Minn., Mo., Mont., Neb., Nev., N. J., N. Y., N. Dak., O., Okla., Ore., Pa., R. I., S. C., S. Dak., Tenn., U., Vt., Va., Wash., W. Va., Wis., Wyo., D. C.
 Carrot, wild (*Daucus carota*). Ill., Ind., Ia., Kan., Me., Mich., Mo., O., 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. comnutatus*). Ala., Ark., Colo., Ga. (spp), Kan. (spp), N. C., Okla., S. C., Tex.
 Chess }
 Chickweed, big mouse-ear (*Cerastium vulgatum*). Ore.
 Chicory, wild (*Cirrhodium intybus*). Me., O.
 Clustered dock (*Rumex conglomeratus*). See Dock, green.

- Cocklebur (*Xanthium canadense*). La.
 Cocklebur (*Xanthium commune*). Ia.
 Cocklebur (*Xanthium orientale*). U.
 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., Colo., Fla., Ga., Ida., Ind., Kan., Ky., Me., N. C., O., Okla., Ore., R. I., S. C., Tenn., Vt., Wash., W. Va.
 Cowcockle (*Saponaria vaccaria*, *Vaccaria pyramidata*) Cow-herb. Colo., Me., Ore.
 Cow-herb (*Saponaria vaccaria*). See Cowcockle.
 Crabgrass, smooth (*Digitaria ischaemum*). Cal., Colo., Nev., N. Y. (spp).
 Crabgrass (*Digitaria sanguinalis*). Cal., Colo., La., Nev., 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.
 Dandelion, false (*Pyrrophappus carolinianus*). La.
 Darnel (*Lolium temulentum*). Ala., Ark., Ga., Me., Tex.
 Deathweed (*Iva axillaris*). See Povertyweed.
 Devil's paintbrush (*Hieracium aurantiacum*). See Hawkweed, orange.
 Dock, bitter (*Rumex obtusifolius*). Large dock. Ala., Ark., Kan. (spp), La., Me., Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), R. I. (spp), Wash. (spp).
 Dock, curly (*Rumex crispus*) Sour dock, Yellow dock. Ala., Ark., Conn., Ill., Ind., Ia., Kan. (spp), Me., Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), Okla., R. I. (spp), Tex., Wash. (spp).
 Dock, green (*Rumex conglomeratus*) Clustered dock. Ark., Kan. (spp), Me., Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), R. I. (spp), Wash. (spp).



Especially **NOW**
BETTER CATALOGS
will pay out **BETTER**

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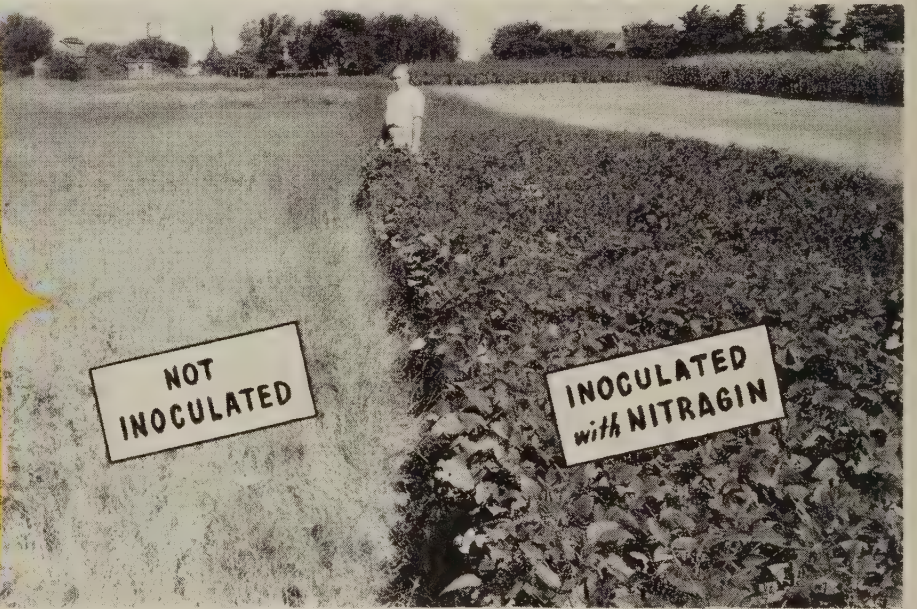
July 22

This photo of NITRAGIN test plots at a University Experiment Station, taken July 22, shows heavier growth and darker color due to good inoculation. Weeds are gaining rapidly on the thin, less vigorous stand of uninoculated soybeans.



35 days later

By September 1, weeds had completely smothered the nitrogen-hungry crop that was *not* inoculated. NITRAGIN that cost 12c an acre made this difference. On fertile land, uninoculated legumes may look about as good as an inoculated crop—but remember, legumes without inoculating bacteria must get their nitrogen by robbing the soil; inoculated legumes get theirs from the air.



One Way to Help Farmers Produce for Victory

Sell more **NITRAGIN**

Four-fifths of the air is nitrogen . . . vital element needed now to increase crop production. The one practical way to make this nitrogen available for plant growth is through legumes inoculated with effective strains of nitrogen-fixing bacteria. An acre of well-inoculated sweet clover, it is estimated, can gather as much nitrogen as is contained in 1,000 or more pounds of common mixed fertilizer.

This important ability of clover, alfalfa, peas, soybeans and other legumes depends on the presence of the *right* legume bacteria. That's why it is important that every planting of legumes be inoculated with NITRAGIN. NITRAGIN contains only selected, tested strains of bacteria produced in the largest, most complete laboratory of its kind in the world.



Your Protection!

The name NITRAGIN is a registered trade name. It identifies the oldest, most widely used brand of inoculation. When customers ask for NITRAGIN, be sure to supply them with NITRAGIN—do not confuse it with other inoculants.

THE NITRAGIN CO., INC., 3830 N. Booth St., MILWAUKEE, WIS.

- Dock, smooth (*Rumex altissimus*). Ia., Kan. (spp), Miss. (spp), Mo. (spp), N. Y. (spp), O. (spp), R. I. (spp), Wash. (spp).
- Dock, sour (*Rumex acetosa*). Ark., Kan. (spp), Miss. (spp), Mo. (spp), N. Y. (spp), O. (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., La., Me., Md., Mass., Mich., Minn., Miss., Mo., Mont., Neb., Nev., 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.
- Dogbane (*Apocynum cannabinum*). Cal.
- Dogbane, spreading (*Apocynum androsaemifolium*). Wyo.
- E
- 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.
- 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 campestris*). 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.
- Foxtail, water (*Alopecurus geniculatus*). La.
- 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, scarlet (*Gaura coccinea*). Cal.
- Gaura, wavy-leaved (*Gaura sinuata*). Cal.
- Globe podded ball cress (*Hymenophyza pubescens*). See Hoary cress.
- Goat weed (*Hypericum perforatum*). See St. Johnswort.
- Great burdock (*Arctium lappa*). See Burdock, great.
- Great ragweed (*Ambrosia trifida*). See Ragweed, great.
- Groundcherry, perennial (*Physalis subglabrata*). Ida., Wash.
- Groundcherry, perennial (*Physalis longifolia*). U.
- Groundcherry (*Physalis Heterophylla*) Nightshade. U.
- H
- Hare's-ear-mustard (*Conringia orientalis*). Me.
- Hawkweed, orange (*Hieracium aurantiacum*) Devil's paintbrush. Conn. (spp), Del., Me., Miss., Pa., Va. (spp), W. Va. (spp).
- Hedge bindweed (*Convolvulus sepium*). See Bindweed, hedge.
- Hemlock, poison (*Conium maculatum*). See Poison hemlock.
- Hemlock, water (*Cicuta maculata*). U.
- Hoary alyssum (*Berteroa incana*). Mich.
- Hoary cress (*Lepidium draba*, *L. repens*) Perennial peppergrass, White top. Ariz., Cal., Ida., Ill., Ia., Kan., Minn., Mont., Neb., Nev., N. Dak., Ore., S. Dak., U., Wash., Wyo.
- Hoary cress (*Hymenophyza pubescens*) Ball cress, Globe podded ball cress, White top. Ariz., Cal., Ida., Mont., Nev., N. Dak., Ore., Wash.
- Hop clover (*Trifolium procumbens*). Colo.
- Horsenettle (*Solanum carolinense*) Bull nettle. Ariz. Cal., Ill., Ind., Ia., Kan., Minn., Nev., N. J., Okla., Pa., S. D., Wyo.
- Horsenettle, white (*Solanum elaeagnifolium*). Ariz., Cal., Nev.
- 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.
- Italian thistle (*Carduus pycnocephalus*). See Thistle, Italian.
- 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 (*Centurea picris*, *C. repens*). Ariz., Cal., Ida., Ill., Ia., 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*). U.
- Leafy spurge (*Euphorbia esula*). See Spurge, leafy.
- Lettuce, blue flowering (*Lactuca pulchella*). 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.
- 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., Kan. (spp).
- Morning-glory, ivy leaved (*Ipomoea hederacea*). Kan. (spp), S. Dak.
- Mustard, ball (*Neslia paniculata*). Me.
- Mustard, black (*Brassica nigra*). Ariz., Colo. (spp), Conn. (spp), Ga. (spp), Ida. (spp), Ill. (spp), Ia. (spp), Kan. (spp), Me., Mass. (spp), Mich. (spp), N. M., N. Y. (spp), R. I. (spp), S. C., S. Dak., Vt. (spp), Wash. (spp).
- Mustard, Indian (*Brassica juncea*). Ariz., Colo. (spp), Conn. (spp), Ga. (spp), Ida. (spp), Ill. (spp), Ia. (spp), Kan. (spp), Me., Mass. (spp), Mich. (spp), N. M., N. Y. (spp), R. I. (spp), S. C., 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., Ga. (spp), Ida. (spp), Ill. (spp), Ind., Ia. (spp), Kan. (spp), La., Me., Mass. (spp), Mich. (spp), Mont., Neb., Nev., N. M., N. Y. (spp), Okla., R. I., 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*). Cal.
- Nightshade, perennial black (*Solanum douglasii*). Cal.
- Nightshade, purple (*Solanum elaeagnifolium*). Tex.
- Nutgrass (*Cyperus esculentus*). Ariz., Cal. (spp), Fla. (spp), Miss.
- Nutgrass (*Cyperus rotundus*), Coco grass. Ala., Ariz., Ark., Cal. (spp), Fla. (spp), Ga., La., Miss., Okla., S. C., Wyo.
- O
- Oats, wild (*Avena fatua*). Ariz., Colo., Del., Ida., Kan., Me., Mont., Neb., N. M., Okla., S. C., S. Dak., Tex.
- Onion, wild (*Allium vineale*, *A. canadense*). Wild garlic. Ala., Ark. (spp), Fla., Ga., Ill. (spp), Ind., Kan. (spp), Ky., Md., Miss., Mo., N. C., O., Okla., 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., 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, Ida., Kan., Me., Mont., Nev., N. M., S. Dak., Wash.
- Pepper cress, perennial (*Lepidium latifolium*). Cal., Wash.
- Peppergrass, field (*Lepidium campestris*). Ind.
- Peppergrass, perennial (*Lepidium draba*, *L. repens*). See Hoarv cress . . .
- Peppergrass, perennial (*Lepidium latifolium*). See Peppergrass, perennial.
- Perennial black nightshade (*Solanum douglasii*). See Nightshade, perennial black.
- Perennial groundcherry (*Physalis longifolia*). See Groundcherry, 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*). Colo. (spp), Conn. (spp), Ga. (spp), Ind., Miss. (spp), Mo. (spp), O. (spp), Wash. (spp).
- Plantain, bottlebush (*Plantago aristata*). See Plantain, bracted.

Plantain, bracted (*Plantago aristata*).
 Bottle bush plantain. Ala. (spp),
 Ark., Colo. (spp), Conn. (spp), Ga.
 (spp), Ind., Miss. (spp), Mo. (spp),
 O. (spp), Okla., Wash. (spp).
 Plantain, buckhorn (*Plantago lanceolata*).
 See Buckhorn, plantain.
 Plantain, common (*Plantago major*).
 Rippleseed Plantain. Colo. (spp),
 Conn. (spp), Ga. (spp), Ind., Miss.
 (spp), Mo. (spp), O. (spp), Ore.,
 Wash. (spp).
 Poison hemlock (*Conium maculatum*).
 Vt.
 Poison milkweed (*Asclepias galioides*).
 Whorled milkweed. Ariz., U.
 Povertyweed (*Iva axillaris*). Death-
 weed, Sumpweed. Ariz., Cal., Colo.
 (spp), Ore. U., Wash.
 Povertyweed, Franseria. (*Franseria*
tenuifolia). Ariz., Cal., Colo.
 Povertyweed, silverleaf (*Franseria dis-*
color). Whiteleaved Franseria. Ariz.,
 Colo., Wyo.
 Prickly sowthistle (*Sonchus asper*). See
 Sowthistle, prickly.
 Puncture-vine (*Tribulus terrestris*).
 Ariz., Cal., Ida., Neb., Nev., Ore., U.
 Purple nightshade (*Solanum elaeagni-*
folium). See Nightshade, purple.
 Purple star thistle (*Centaurea calci-*
trapa). See Star thistle, purple.

Q

Quackgrass (*Agropyron repens*). Witch-
 grass. Ala., Cal., Conn., Del., Fla., Ga.,
 Ida., Ill., Ind., Ia., Kan., Ky., Me., Md.,
 Mass., Mich., Minn., Mo., Mont., Neb.,
 N. J., N. M., N. Y., N. Dak., O., 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 psilos-*
tachya). See Ragweed, western.
 Ragweed, western (*Ambrosia psilos-*
tachya). Perennial ragweed. Ariz.,
 Cal., Me., U., Wyo.
 Ragweed, white (*Franseria discolor*).
 See Povertyweed, silverleaf.
 Red rice (*Oryza sativa*). Ark., Cal.
 Red sorrel (*Rumex acetosella*). See
 Sheep sorrel.
 Ribgrass (*Plantago lanceolata*). See
 Buckhorn.
 Rippleseed plantain (*Plantago major*).
 See Plantain, common.
 Rough pigweed (*Amaranthus retroflex-*
us). 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*). Bur
 grass. (Ariz., Cal., Ga., Nev., S. C.
 Scabious, sweet (*Erigeron annuus*). See
 Sweet scabious.
 Scarlet Gaura (*Gaura coccinea*). See
 Gaura, scarlet.
 Sheep sorrel (*Rumex acetosella*). Red
 sorrel. Ala., Ark., Ind., Ia., Kan., Ky.,
 (spp), Miss. (spp), Mo., O., Okla., R. I.
 (spp), Wash. (spp).
 Silverleaf povertyweed (*Franseria dis-*
color). See Povertyweed, silverleaf.
 Smaller burdock (*Arctium minus*). See
 Burdock, smaller.
 Small-seeded false flax (*Camelina mi-*
crocarpa). See False flax, small-seed-
 ed.
 Sorrel, red and sheep (*Rumex aceto-*
sella). See Sheep sorrel.
 Sowthistle, common (*Sonchus olera-*
ceus). La. (spp), Me., W. Va. (spp).
 Sowthistle, perennial (*Sonchus arven-*
sis). Field sowthistle. Ariz., Cal.,
 Colo., Ida., Ill., Ind., Ia., La. (spp),
 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. La. (spp),
 Me., W. Va. (spp).
 Sowthistle, spiny-leaved (*Sonchus as-*
per). See Sowthistle, prickly.
 Spotted cats-ear (*Hypochaeris radi-*
cata). See Cats-ear, spotted.
 Spreading dogbane (*Apocynum andro-*
saemifolium). See Dogbane, spread-
 ing.
 Spurge, flowering (*Euphorbia corol-*
lata). Ida. (spp), Wyo.
 Spurge, leafy (*Euphorbia esula*). Ariz.,
 Cal., Ida. (spp), Ill., Ia., 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 iber-*
ica). Cal., Nev., Ore.
 Star-thistle, Malta (*Centaurea meliten-*
sis). Ore.
 Star-thistle, purple (*Centaurea calci-*
trapa). Cal., Nev.
 Star-thistle, yellow (*Centaurea solsti-*
tialis). 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 Pover-
 tyweed.
 Sweet scabious (*Erigeron annus*). 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, Italian (*Carduus pycnoceph-*
alus). Cal.
 Thistle, Russian (*Salsola Kali*). See
 Russian thistle.
 Toadflax, yellow (*Linaria vulgaris*).
 Ida., Ore., Wash.
 Tumble mustard (*Sisymbrium alti-*
ssimum). See Mustard, tumble.

W

Waterhemlock (*Cicuta maculata*). U.
 Wavy-leaved Gaura (*Gaura sinuata*).
 See Gaura, wavy-leaved.
 Western ragweed (*Ambrosia psilostach-*
ya). See Ragweed, western.
 Whorled milkweed (*Asclepias gali-*
oides). See Poison milkweed.
 White campion (*Lychnis alba*). See
 Campion, white.
 White horenettle (*Solanum elaeagni-*
folium). See Horenettle, white.
 Whiteleaved Franseria (*Franseria dis-*
color). See Povertyweed, silverleaf.
 White top (*Hymenophyssa pubescens*).
 See Hoary cress.
 White top (*lepidium draba*, *L. repens*).
 See Hoary cress.
 Wild Barley (*Hordeum jubatum*). See
 Barley, wild.
 Wild buckwheat (*Polygonum convolvu-*
lus). See Buckwheat, wild.
 Wild carrot (*Daucus carota*). See Car-
 rot, wild.
 Wild Chicory (*Cirrhodium intybus*). See
 Chicory, wild.
 Wild Garlic (*Allium vineale*). See
 Onion, wild.
 Wild morning-glory (*Convolvulus ar-*
vensis). See Bindweed, field.
 Wild morning-glory (*Convolvulus sepi-*
um). 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 ca-*
priola dactylon). See Burmuda grass.
 Wire grass (*Paspalum distichum*). Tex.
 Witchgrass (*Agropyron repens*). See
 Quackgrass.

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 solsti-*
tialis). See Star-thistle, yellow.

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 ALSIKE
 SWEET CLOVER
 BLUE GRASS

RED-TOP

TIMOTHY
 COW PEAS
 SOY BEANS
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| Other Clovers | Other Grasses | Hybrid Corn |
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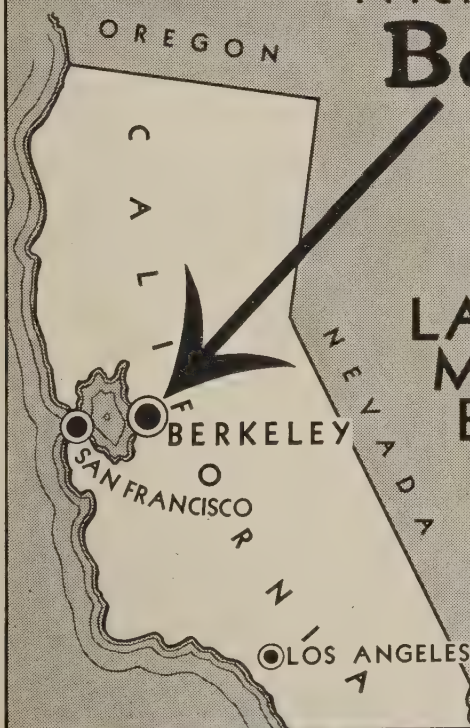
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| NUTRIENT | BEST SOURCES OF NUTRIENTS | | SOME CONDITIONS* WHICH HAVE BEEN CAUSED BY LACK OF NUTRIENT OR CURED BY FEEDING NUTRIENT | |
|--|--|--|--|---|
| | Plant Sources | Animal Sources | | |
| Vitamin A | Wild greens Leaf lettuce Green cabbage Sweet potatoes Mustard, turnip, and beet leaves | Escarole Spinach Collards Tomatoes Squash Kale | Liver Egg yolk Butter Cream Milk, whole | Night blindness, sensitivity of eyes to bright light. Dryness and scaliness of skin. "Goose-pimple" skin, ingrown hair. |
| Thiamin (vitamin B₁) | Whole-grain products—bread, flour, cereals Bran Wheat germ Beans—soy, navy, and lima Peas | Pork, lean Liver Kidney Heart Muscle meats Fish Eggs Milk | Poor appetite, constipation. Tiredness, low capacity to do work. Neuralgia, tingling in feet and hands; nervousness. Some types of heart trouble. Dropsy, sleeplessness, delirium tremens. | |
| Riboflavin | (None comparable to animal sources) | Milk Liver Kidney Heart Muscle meats Eggs | Eyes that burn, itch, tire easily or are sensitive to bright light; pink tinge surrounding iris. Blackheads and "whiteheads," oily skin, tiny blood vessels visible on face. Sore lips with cracks at corners. Purplish color of tongue. Decreased resistance to infections. | |
| Nicotinic acid | Spinach Kale Collards Leaf lettuce Green cabbage | Liver Kidney Muscle meats Fish Milk Eggs | Sore mouth and tongue, burning of throat, alternate constipation and diarrhea, pain in the region of the breast bone. Rough, chapped skin particularly in winter. Sleeplessness, emotional instability, hysteria, delirium. Decreased resistance to infections. | |
| Pyridoxin (vitamin B₆) | Whole-grain products—bread, flour, cereals Bran Wheat germ Beans and peas | Muscle meats Fish | Some types of shaking palsy, rigidity of muscles, lack of facial expression. Sleeplessness, nervousness, poor appetite. Weakness. | |
| Ascorbic acid (vitamin C) | Oranges Grapefruit Strawberries Tomatoes Sprouted beans Raw vegetables Potatoes, white | (None comparable to plant sources) | Tiredness, decreased capacity to do work, laziness, skin hemorrhages, spongy, bleeding gums. Poor healing of cuts and wounds. Serious after-effects of disease. | |
| Tocopherol (vitamin E) | Oils from seeds, corn, cottonseed Green leafy vegetables Whole-grain products Beans and peas | Egg yolk | Muscle weakness, some types of muscle paralysis. Sterility. | |
| Vitamin K | Spinach Kale Collards Green cabbage Tomatoes | (None comparable to plant sources) | Slow clotting of blood, particularly in first ten days of life and in obstructive jaundice. Excessive loss of blood at childbirth. Hemorrhages following operations. | |
| Unsaturated fatty acids | Oils from seeds | Lard Liver Fat pork Egg yolk | Eczema. Scaliness of skin. | |
| Protein | Dried peas and beans, particularly soybeans Corn, wheat, and oat products | Milk Cheese Eggs Liver Kidney Muscle meats | Tiredness, general weakness, laziness, anemia, dropsy. Serious after-effects of disease. | |
| Calcium | (None comparable to milk or cheese) | Milk and cheese | Poorly calcified bones and teeth. | |
| Iron | Whole-grain products Bran Green leafy vegetables | Liver Eggs Muscle meats | Tiredness, general weakness, laziness. Anemia. Slow progress in school and mental dullness. | |

* Many of these conditions can be caused by other means than faulty food habits.

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PROTEIN IN VEGETABLES

AVERAGE SERVINGS

BEANS - Soy, Dried

PEAS - Split, Dried

BEANS - Navy, Dried

BEANS - Lima, Dried

PEAS - Fresh

CORN - Dried

KALE

CORN - Fresh

POTATO - White

This and following charts prepared and copyrighted by Philadelphia Child Health Society

| Vegetable | Amount | Wt. in Grams | Grams of Protein** |
|---|------------------|--------------|--------------------|
| Beans, soy, dried | 3/4-1 cup cooked | 250 | 17.5 |
| Beans, soy, fresh | 1/2 cup cooked | 100 | 12.5 |
| Lentils, dried, whole | 3/4-1 cup cooked | 250 | 12.4 |
| Peas, dried, split | 3/4-1 cup cooked | 250 | 12.3 |
| Beans, mung, dried | 3/4-1 cup cooked | 250 | 12.2 |
| Lentils, dried, split | 3/4-1 cup cooked | 250 | 12.0 |
| Peas, dried, whole | 3/4-1 cup cooked | 250 | 11.9 |
| Beans, navy, pinto, red kidney or pea beans | 3/4-1 cup cooked | 250 | 11.0 |
| Beans, lima, dried | 1/2 cup cooked | 100 | 10.4 |
| Beans, lima, fresh | 1/2 cup cooked | 100 | 7.5 |
| Peas, fresh | 1/2 cup cooked | 100 | 6.7 |
| Corn, dried | 3/4-1 cup cooked | 250 | 6.4 |
| Kale | 3/4 cup cooked | 100 | 3.0 |
| Collards | 3/4 cup cooked | 100 | 3.0 |
| Lambquarters | 3/4 cup cooked | 100 | 3.8 |
| Corn, fresh | 1 ear | 100 | 3.7 |
| Peas, canned | 1/2 cup cooked | 100 | 3.3 |
| Potato, white | 1 medium | 150 | 3.0 |
| Turnip greens, fresh | 1/2 cup cooked | 100 | 2.9 |
| Potato, sweet | 1 medium | 150 | 2.7 |
| Beans, snap or string, fresh | 1/2 cup cooked | 100 | 2.4 |
| Beets | 1/2 cup cooked | 100 | 1.6 |
| Onions, mature | 1/2-3/4 small | 100 | 1.4 |
| Turnips, white | 1/2 cup cubed | 100 | 1.1 |
| Potato, fresh or canned | 1 medium | 100 | 1.0 |

RECOMMENDED DAILY ALLOWANCES FOR PROTEIN

| | |
|-----------|--------------|
| Adults | 60-70 grams |
| Pregnancy | 85 grams |
| Lactation | 100 grams |
| Children | 50-100 grams |

* Dry weight before cooking.
** These figures are for fresh raw or dried vegetables before cooking. To retain all the protein in fresh vegetables, avoid soaking in water before cooking. If boiled in water, use all the protein in dried vegetables. To release thoroughly in several hours or before soaking. Soak for several hours or overnight in water and cook the vegetable in this water, containing soluble proteins as well as minerals and vitamins.

Data from Proximate Composition of American Food Materials, Chatfield and Adams, June, 1940. United States Department of Agriculture.

VITAMIN C IN VEGETABLES

AVERAGE SERVINGS

MUSTARD GREENS

CABBAGE

TURNIP - White

TOMATO - Red

ONIONS - Green, Young

WATER CRESS

RADISHES

LETTUCE

CUCUMBER

| Vegetable | Amount | Wt. in Grams | Milligrams of Ascorbic Acid** Reported | Figure Used |
|---------------------------|-------------------------------|--------------|--|-------------|
| Mustard greens | 1/2 cup chopped | 50 | 63 | 63 |
| Sprouts, bean, mung | 1/2 cup | 50 | 45-115 | |
| Pepper, green | 1/2 empty shell | 50 | 45-75 | |
| Kale | 1/2 cup chopped | 50 | 25-50 | 35 |
| † Cabbage, head or leaf | 1/2 cup chopped | 50 | 20-45 | 25 |
| Turnip, white | 1/2 large | 100 | 20-30 | 23 |
| Tomato, red | 1 medium | 100 | 21-24 | |
| Rutabaga | 1/2 large | 100 | 20 | |
| Cabbage, Chinese | 1/2 cup chopped | 50 | 20 | |
| Turnip greens | 1/2 cup chopped | 50 | 10-30 | |
| Spinach | 1/2-3/4 cup chopped | 50 | 7-25 | |
| Parsley | 10 sprigs | 10 | 10 | |
| Potato, white, cooked | 1 medium | 150 | 37-15 | 7 |
| Onions, green, young | 5, 5 1/4" long, 1/2" diameter | 50 | 7 | |
| Onions, mature | 2-3 small | 100 | 7-11 | |
| Water cress | 10 sprigs | 10 | 4.3-66 | 5.5 |
| Radishes, red | 1 small | 30 | 3.6-6.0 | 4.8 |
| Carrot | 1 large | 100 | 3-5 | |
| Escarole | 2-3 large leaves | 50 | 3-5 | |
| Celery | 2 stalks or hearts | 50 | 3-4 | |
| Romaine | 3 large leaves or 6 small | 30 | 3 | |
| Lettuce, green or iceberg | 3 large leaves or 6 small | 30 | 1.8-6.3 | 4.1 |
| Cucumber | 8 slices, peeled | 50 | 1-6.5 | 3.8 |
| Sauerkraut | 3/4 cup | 50 | 0-5 | |

RECOMMENDED DAILY ALLOWANCES FOR ASCORBIC ACID

| | |
|-----------|-------------------|
| Adults | 70-75 milligrams |
| Pregnancy | 100 milligrams |
| Lactation | 150 milligrams |
| Children | 30-100 milligrams |

* After deducting 50% loss for cooking.
* The size of serving is one which many people could enjoy if the vegetable were eaten raw, the best way to retain ascorbic acid in vegetables. Therefore potatoes, which are a good source of vitamin C even after cooking losses, are the only vegetable listed in cooked form.

** Ascorbic acid is more seriously affected by temperature, oxidation, solubility, the presence of alkalies and storage than the other known vitamins. Thin, leafy raw vegetables as spinach may use 50% of their vitamin content for steaming two or three days. Chopping and shredding vegetables also causes rapid loss. Serve immediately, if possible, after chopping or shredding.

† Green cabbage in maximum amounts of ascorbic acid are much more in leafy greens and vitamins are in the blanched leaves within the head. Consumers should be certain, however, that arsenical insecticides have not been applied to them in the course of their growth. Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

CALCIUM IN VEGETABLES

AVERAGE SERVINGS

TURNIP GREENS

MUSTARD GREENS

COLLARDS

KALE

BROCCOLI

ONIONS - Green, Young

DANDELION

CABBAGE

CARROT

| Vegetable | Amount | Wt. in Grams | Grams of Calcium** |
|-------------------------------|--------------------------|--------------|--------------------|
| ‡ Cabbage, loose outer leaves | ¾ cup cooked | 100 | .429 |
| Broccoli leaves | ½ cup scant, cooked | 100 | .314 |
| Turnip greens | ½ cup cooked | 100 | .254 |
| Mustard greens | ½ cup cooked | 100 | .250 |
| Collards | ½ cup cooked | 100 | .202 |
| Kale | ½ cup cooked | 100 | .181 |
| Broccoli | ½ cup scant, cooked | 100 | .146 |
| Onions, young, green | 5, 5¼" long, ½" diameter | 50 | .135 |
| Dandelion greens | ½ cup cooked | 100 | .113 |
| Beans, dried | ½-1 cup cooked | 50 | .074 |
| Rutabaga | ½ cup cooked | 100 | .074 |
| Leeks | ½ cup cooked | 100 | .065 |
| Beans, snap or string | 3-4, 5" long, raw | 100 | .058 |
| Parsnip | ½ large | 100 | .057 |
| Cabbage, headed | ½ cup cooked | 100 | .045 |
| Carrot | 1 large, ¾ cup cubes | 100 | .042 |
| Escarole | 2 large leaves | 50 | .037 |
| Endive | 15 inner leaves | 50 | .037 |
| Celery stalks | 2 stalks or hearts, raw | 50 | .036 |
| Celery, fresh, raw | ½-¾ cup, chopped, raw | 50 | .022 |
| Potato, white | 1 medium large | 150 | .020 |
| Cauliflower | 4 rounded tablespoons | 70 | .018 |
| Lettuce, green | 3 large leaves | 30 | .015 |
| Lettuce, iceberg | 3 large leaves | 30 | .006 |

RECOMMENDED DAILY ALLOWANCES FOR CALCIUM
National Research Council, May, 1941
Adults 0.8 grams
Pregnancy 1.5 grams
Lactation 2.0 grams
Children 1.0-1.4 grams

* Dry weight before cooking.
* Recent research indicates that the calcium in spinach, New Zealand spinach, beet greens, swiss chard, dock and sorrel is either nutritionally not available or of doubtful availability. Therefore, these vegetables have not been included on this chart as sources of calcium.
** These figures are for edible portion of fresh or dried vegetables before cooking. Allowances of 10% to 35% loss should be made if vegetables are allowed to soak or stand in water or if cooked in water and the cooking water is discarded.
‡ Green cabbage leaves outside of the head are much higher in minerals and vitamins than are the blanched leaves within the head. Consumers should be certain, however, that arsenical insecticides have not been applied to them in the course of their growth.
Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

PHOSPHORUS IN VEGETABLES

AVERAGE SERVINGS

BEANS - Dried

PEAS - Fresh

CORN - Fresh

POTATO - White

BROCCOLI

KALE

MUSTARD GREENS

TURNIP GREENS

CELERY

| Vegetable | Amount | Wt. in Grams | Grams of Phosphorus** |
|-------------------------|---------------------------|--------------|-----------------------|
| Beans, dried | ¾-1 cup cooked | 250 | .232 |
| Peas, dried | ¾-1 cup cooked | 250 | .199 |
| Beans, dried, lima | ¾-1 cup cooked | 250 | .190 |
| Peas, fresh, shelled | ½ cup scant | 100 | .122 |
| Corn, sweet, fresh | 1 medium ear | 100 | .120 |
| Potato, white | 1 medium | 150 | .080 |
| Broccoli | ½ cup scant, cooked | 100 | .072 |
| ‡ Cabbage, outer leaves | ½ cup cooked | 100 | .067 |
| Kale | ½ cup cooked | 100 | .066 |
| Mustard greens | ½ cup cooked | 100 | .058 |
| Turnip greens | ½ cup cooked | 100 | .048 |
| Spinach, fresh | ½ cup cooked | 100 | .048 |
| Peas, canned | ½ cup scant | 100 | .046 |
| Onions, mature | 2-3 small, 1 large | 100 | .044 |
| Dandelion greens | ½ cup cooked | 100 | .041 |
| Carrot, fresh | 1 large, ¾ cup cubes | 100 | .040 |
| Beets, fresh | ½-¾ cup diced | 100 | .039 |
| Cabbage, headed | ½ cup cooked | 100 | .028 |
| Asparagus | 4-5 stalks, 4" long | 50 | .026 |
| Onions, young, green | 5, 5¼" long, ½" diameter | 50 | .023 |
| Celery, fresh, raw | 2 stalks or hearts | 50 | .019 |
| Escarole | 2 large leaves | 50 | .019 |
| Romaine | 3 large leaves or 6 small | 30 | .015 |
| Lettuce, iceberg | 3 large leaves | 30 | .012 |
| Lettuce, leaf | 3 large leaves | 30 | .009 |

TENTATIVE DAILY ALLOWANCES FOR PHOSPHORUS
Bureau of Home Economics, U. S. Department of Agriculture, March, 1941
Adults 1.32 grams
Children 1.0-1.32 grams

* Dry weight before cooking.
** These figures are for edible portion of fresh or dried vegetables before cooking. Allowances of 10% to 35% loss should be made if vegetables are allowed to soak or stand in water or if cooked in water and the cooking water is discarded.
‡ Green cabbage leaves outside of the head are much higher in minerals and vitamins than are the blanched leaves within the head. Consumers should be certain, however, that arsenical insecticides have not been applied to them in the course of their growth.
Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

VITAMIN A IN VEGETABLES

AVERAGE SERVINGS

BEE GREENS

KALE

TURNIP GREENS

DANDELION

MUSTARD GREENS

ESCAROLE

CARROT

ONIONS-Green, Young

BEANS-String or Snap

| Vegetable | Amount | Wt. in Grams | International Figures Reported | Units ** Figure Used |
|----------------------|--------------------|--------------|--------------------------------|----------------------|
| Spinach | 1/2 cup cooked | 100 | 10,000-25,000 | 16,100 |
| Beet greens | 1/2 cup cooked | 100 | 15,000 | 15,250 |
| Dock or Sorrel | 1/2 cup cooked | 100 | 10,000-15,700 | 12,850 |
| Kale | 1/2 cup cooked | 100 | 9,000-12,000 | 10,200 |
| Turnip greens | 1/2 cup cooked | 100 | 10,000 | 7,500 |
| Dandelion greens | 1/2 cup cooked | 100 | 3,000-9,000 | 6,050 |
| Mustard greens | 1/2 cup cooked | 100 | 2,100-10,000 | |
| Escarole | 1/2 cup cooked | 100 | 2,000-6,000 | |
| Carrot | 1/2 cup cooked | 100 | 2,000-4,000 | |
| Onions-Green, Young | 1/2 cup cooked | 100 | 1,800 | 1,800 |
| Beans-String or Snap | 1/2 cup cooked | 100 | 1,200 | 1,200 |
| Spinach | 10 small leaves | 25 | 963 | |
| Beet greens | 1 medium ear | 100 | 550-1,150 | |
| Squash, summer | 1/2 cup cooked | 100 | 500 | |
| Water cress | 10 average sprigs | 10 | 200-400 | |
| Beets, fresh | 1/2-3/4 cup, diced | 100 | 80-300 | |
| Lettuce, iceberg | 3 large leaves | 30 | 100 | |

RECOMMENDED DAILY ALLOWANCES FOR VITAMIN A
 National Research Council, May, 1941
 Adults 5,000 I. U.
 Pregnancy 6,000 I. U.
 Lactation 8,000 I. U.
 Children 1,500-6,000 I. U.

* Vitamin A does not occur in plants. The vitamin A value of plants is due to certain orange yellow substances called carotenoids or "precursors" of vitamin A. Of the four known precursors only beta-carotene yields approximately its own weight of vitamin A. Each of the other three precursors has only one-half as much vitamin A value as has beta-carotene.
 ** These figures are for fresh, raw vegetable. Vitamin A is not soluble in water. Boiling, steaming or canning of vegetables causes little loss of vitamin A. Freezing causes little loss even during storage for 11 months if the vegetable is held at a very low temperature -40° F.
 Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

VITAMIN B₂ IN VEGETABLES

AVERAGE SERVINGS

TURNIP GREENS

BEE GREENS

KALE

BEANS-Lima, Dried

MUSTARD GREENS

SPINACH

PEAS-Fresh

TURNIP-White

TOMATO-Red

| Vegetable | Amount | Wt. in Grams | Micrograms of Riboflavin ** Reported | Figure Used |
|--------------------|----------------|--------------|--------------------------------------|-------------|
| Turnip greens | 1/2 cup cooked | 100 | 750 | 750 |
| Beet greens | 1/2 cup cooked | 100 | 625 | 625 |
| Kale | 1/2 cup cooked | 100 | 400-600 | 500 |
| Beans, lima, dried | 1/2 cup cooked | 100 | 385 | 385 |
| Mustard greens | 1/2 cup cooked | 100 | 375 | 375 |
| Spinach | 1/2 cup cooked | 100 | 300-400 | 350 |
| Peas, fresh | 1/2 cup cooked | 100 | 250 | 250 |
| Turnip-White | 1/2 cup cooked | 100 | 225 | 225 |
| Tomato-Red | 1/2 cup cooked | 100 | 200-500 | 225 |
| Turnip greens | 1/2 cup cooked | 100 | 120-150 | 130 |
| Beet greens | 1/2 cup cooked | 100 | 95 | 95 |
| Kale | 1/2 cup cooked | 100 | 65-150 | 100 |
| Beans, lima, dried | 1/2 cup cooked | 100 | 60-120 | 60-120 |
| Mustard greens | 1/2 cup cooked | 100 | 57 | 57 |
| Spinach | 1/2 cup cooked | 100 | 50 | 50 |
| Peas, fresh | 1/2 cup cooked | 100 | 30 | 30 |
| Turnip-White | 1/2 cup cooked | 100 | 25 | 25 |
| Tomato-Red | 1/2 cup cooked | 100 | 15 | 15 |

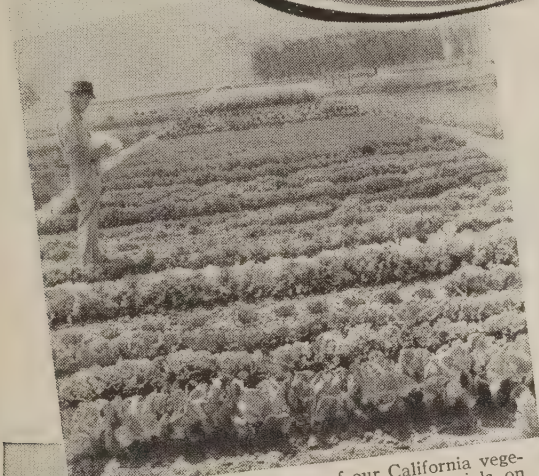
RECOMMENDED DAILY ALLOWANCES OF RIBOFLAVIN
 National Research Council, May, 1941
 Adults 1,800-3,300 micrograms (1.8-3.3 mg.)
 Pregnancy 2,500 micrograms (2.5 mg.)
 Lactation 3,000 micrograms (3.0 mg.)
 Children 600-3,000 micrograms (0.6-3.0 mg.)

* Dry weight before cooking.
 ** These figures are for the edible portion of fresh or dried vegetables before cooking. Riboflavin or vitamin B₂ is soluble in water. Soaking fresh vegetables in water and cooking in water cause considerable losses but less than for vitamin B₁. The cooking water should be saved and used.
 In preparing dried vegetables, wash thoroughly in several waters before soaking. Soak overnight. Cook in the same water in which the vegetable has soaked to prevent loss through solubility.
 Canning and storage do not seem to reduce riboflavin to any marked extent.
 Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

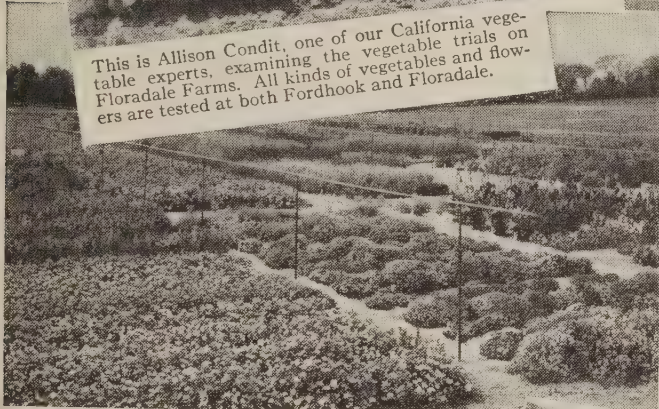
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Burpee's Seeds

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This is Allison Condit, one of our California vegetable experts, examining the vegetable trials on Floradale Farms. All kinds of vegetables and flowers are tested at both Fordhook and Floradale.



All kinds of flowers that grow from seed are tested each year for both germination and purity. The above picture shows only a small section of the Fordhook trials.



Our vegetable experts, Condit and Pride, are carefully examining and making notes of the table beet trials on Burpee's Floradale Farms in California.

Burpee's Fordhook Farms in Pennsylvania are the most famous seed-breeding and testing farms in the world; they were founded by W. Atlee Burpee before the U. S. Government had any experiment stations. Many leading vegetables bear the name of Burpee or Fordhook.

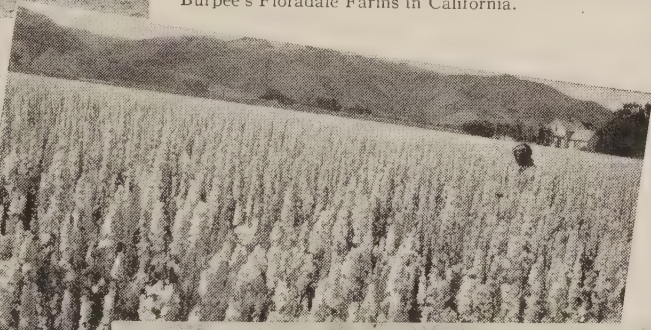
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For the most dependable stocks of all leading flowers and vegetables, also the unusual—send your want-lists to Burpee for a sure source of supply.



Tall giant larkspur growing for seed in Floradale Seed Farms. Floradale still produces the finest flower seeds, though much of the acreage is now devoted to vegetables.

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W. Atlee Burpee Co.

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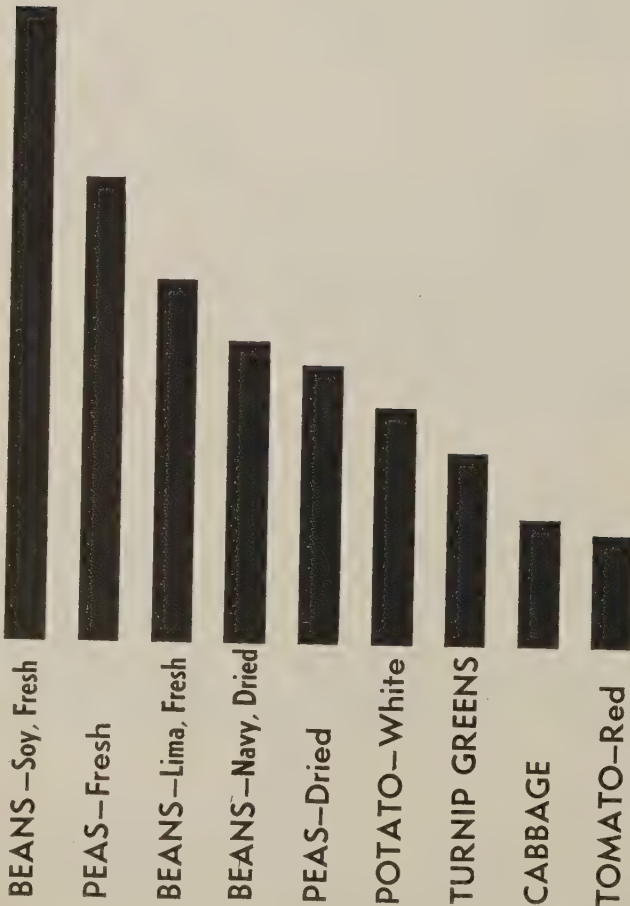
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VITAMIN B₁ IN VEGETABLES

AVERAGE SERVINGS

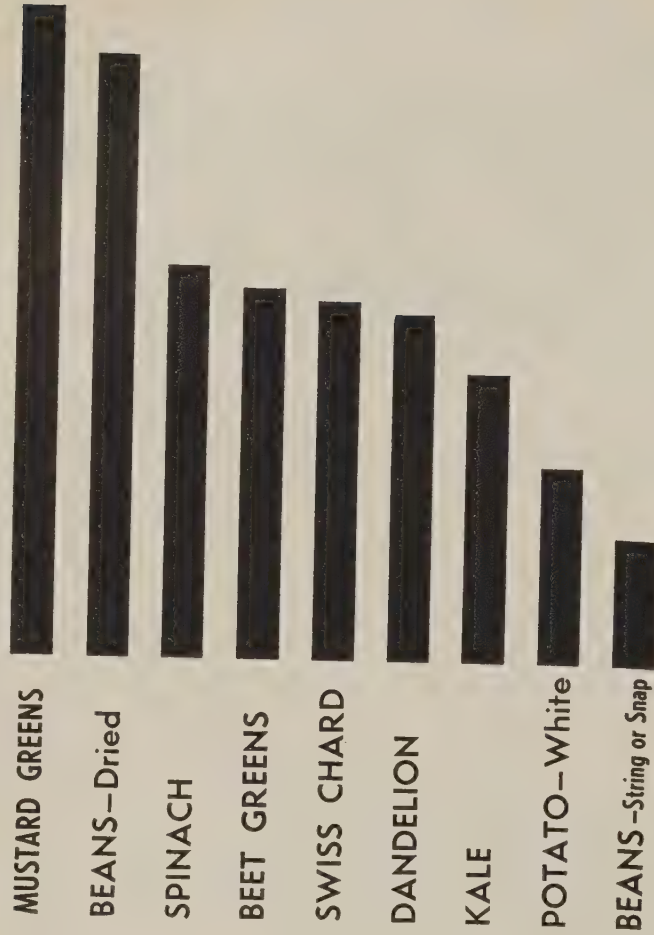


Dry weight before cooking.
* These figures are for edible portion of fresh or dried vegetables before cooking. Thiamin is soluble in water. Soaking of fresh vegetables in water may cause considerable loss. In boiling vegetables, 50% of the original content of thiamin has been reported in the cooking water. If this water is discarded there will be little loss. The use of soda in the cooking water causes extensive destruction of B₁.

To retain thiamin in dried vegetables, wash thoroughly in several waters before soaking. Soak for several hours or overnight and cook in the same water.
Freezing causes little or no loss. Canning causes various losses.
Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

IRON IN VEGETABLES

AVERAGE SERVINGS



| Vegetable | Amount | Wt. in Grams | Milligrams of Iron |
|-----------------------|---------------------------|--------------|--------------------|
| Mustard greens | 1/2 cup cooked | 100 | 5.6 |
| Beans, dried | 3/4-1 cup cooked | 250 | 3.2 |
| Turnip greens | 1/2 cup cooked | 100 | 3.5 |
| Spinach | 1/2 cup cooked | 100 | 3.4 |
| Beet greens | 1/2 cup cooked | 100 | 3.2 |
| Swiss chard | 1/2 cup cooked | 100 | 3.1 |
| Dandelion greens | 1/2 cup cooked | 100 | 2.5 |
| Kale | 1/2 cup cooked | 100 | 2.5 |
| † Potato, sweet | 1 medium | 150 | 1.8 |
| † Potato, white | 1 medium large | 150 | 1.7 |
| Broccoli | 1/2 cup, scant, cooked | 100 | 1.4 |
| Onions, young, green | 1/2 cup cooked | 50 | 1.2 |
| Beans, snap or string | 3/4, 5/8" long | 100 | 1.1 |
| Endive, curled | 10-15 inner leaves | 50 | 0.9 |
| Escarole | 2-3 large leaves | 50 | 0.9 |
| Beets, fresh | 1/2-3 cup, diced | 100 | 0.9 |
| Carrot | 1 large, 3/8 cup cubes | 100 | 0.7 |
| Leeks | 3-4, 5/8" long | 100 | 0.7 |
| Asparagus | 4-5 stalks, 4" long | 50 | 0.6 |
| Onions, mature | 2-3 small or 1 large | 100 | 0.5 |
| Cabbage, headed | 3/8 cup cooked | 100 | 0.4 |
| Celery | 2 stalks or hearts | 50 | 0.4 |
| Lettuce, green | 3 large leaves or 6 small | 50 | 0.35 |
| Lettuce, iceberg | 3 large leaves or 6 small | 50 | 0.3 |

RECOMMENDED DAILY ALLOWANCES FOR IRON
National Research Council, May, 1941
Adults 12 milligrams
Pregnancy 15 milligrams
Lactation 15 milligrams
Children 6-15 milligrams

Dry weight before cooking.
* These figures are for edible portion of fresh or dried vegetables before cooking. All iron losses of 25% to 50% should be made if vegetables are allowed to soak or stand in water or if cooked in water and the cooking water is discarded.
† Potatoes retain practically all their iron if cooked and eaten with the skin. If peeled thickly, practically all the iron is lost.
† Green cabbage leaves outside of the head are much higher in minerals and vitamins than are the blanched leaves within the head. Consumers should be certain, however, that arsenical insecticides have not been applied to them in the course of their growth.
Data from Food Values of Portions Commonly Used, Bowes and Church, 4th edition, 1942.

CROSMAN'S FAMOUS SEEDS

HAVE SHOWN STEADILY INCREASED
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A Digest of Little Known Crops

Compiled by S. H. YARNELL
Chief, Texas Division of Horticulture



THERE has been an increasing interest in recent months in a miscellaneous group of plants—those for the most part whose import has been restricted, or substitutes for these. The herbs, spices and drug plants make up the bulk of the group, but inquiries have also been received in regard to fiber and oil plants, rubber crops and others. A good many of these are strictly tropical and for this reason unsuited to commercial production. Many of the herbs are well adapted to our conditions and might be grown commercially.

Three important limiting factors in the production of these crops are degree of adaptability, market de-

mand, and availability of propagating material. Growing conditions vary considerably. Information in the last four columns should indicate the chance of success in any particular region. The column giving data on recent imports gives an idea of the crop's market importance. With a few exceptions, such as tung oil and guayule, the market demand for most of the crops that can be grown in this country could be satisfied with a relatively small acreage. This means that only the most favored localities should attempt such crops commercially. As the commercial production of many of them has heretofore been outside of this country, seed and other

propagating materials are usually very scarce or unavailable.

The scientific name and type of plant have been included to help identify the crop. These will be found useful in securing further information on any crop that may seem promising. The scientific name consists of two parts. In some cases, where the first part (genus name) is the same as the common name, its initial letter is used alone. The second part (species name) is always written out. The drugs are listed alphabetically by common name in Table 1. The herbs and spices, which are somewhat hard to distinguish are presented in Table 2. Table 3 includes many crops.

SERVICE..QUALITY..APPEARANCE

The Three Musketeers of FULTON Quality SEED BAGS

FULTON COTTON BAGS FOR HYBRID SEED CORN . . . FULTON "A" SEAMLESS BAGS . . . FULTON PROBE STRIPE BAGS. Each bag is made of top **quality** material to protect your **quality** seed. You may be sure of protection and a better looking bag when you use FULTON products. Manufactured in our own mills from the raw cotton

to the finished bag. Buy FULTON Seed Bags for service and long wear. They are used by particular seedsmen who want the finest and strongest bag possible to carry their seed. Printed by FULTON artcraft methods which enhance their sales appeal. **Write to our plant nearest you for samples and prices.**

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Fulton QUALITY BRAND SEED

Fulton Bag & Cotton Mills
Manufacturers Since 1870
ATLANTA ST. LOUIS DALLAS
MINNEAPOLIS NEW YORK NEW ORLEANS KANSAS CITY, KAN.

Table 1. Drug Crops

| Common Name | Scientific Name | Imports (Pounds)* | Commercial Areas | Type Plant | Soils | Culture | Notes |
|-------------|---|-------------------|----------------------------------|----------------------|-------------------------------|-----------------------------------|--|
| Aconite | <i>Aconitum napellus</i> | 10,000 to 12,000 | Europe | Herbaceous perennial | Well drained gravelly loam | Seed or divisions | Cool climate. Not promising |
| Agar | (<i>Marine algae</i>) | 451,399 | East coast Asia | Sea weed | | Collected and dried | Culture medium, laxative, etc. |
| Aloe | <i>A. vera</i> <i>A. Perryi</i> <i>A. ferox</i> | 882,399 | W. Indies, W. and S. Africa | Perennial | Well drained light soil; lime | Sun. Juice from leaves evaporated | <i>A. vera</i> grows wild in South Texas |
| Belladonna | <i>Atropa Belladonna</i> | 207,694 | Italy, Russia, S. Calif. 1918 | Perennial to 3 feet | Deep, moist loam | Set plants 20"x30" | Temperature under 80° F. best |
| Buchu | <i>Barosma betulina</i> , <i>other sp.</i> | 138,938 | South Africa | Heath-like shrub | Dry gravelly | Mature wood cuttings | Native to hot dry mountains of S. Africa |
| Chamomile | <i>Matricaria chamomilla</i> | 139,440 | Eastern U. S. | Daisy-like annual | "Garden" soil | Wild in East | Flower heads contain an essential oil |
| Derris | <i>D. elliptica</i> <i>D. trifoliata</i> | 226,598 | East Indies Philippines | Climbing shrub | | | Tropical |
| Digitalis | <i>D. purpurea</i> | 50,200 | Eu.; Pacific Northwest | Biennial | Well drained loam | Set plants 12"x36" | Red spider bad in Southwest. Not promising |
| Ephedrine | <i>Ephedra sinica</i> , <i>others</i> | 1,948,011 | China | Leafless shrub | Dry, sandy | Seed or suckers | Four species in W. Texas. Promising |
| Gentian | <i>Gentiana lutea</i> | 351,806 | Europe | Perennial | Well drained light loam | Seed in coldframe in fall | Not very promising. Hard to transplant |
| Henbane | <i>Hyoscyamus niger</i> | 102,529 | Egypt, Russia, Calif. 1918 | Annual or biennial | Deep moist loam | Set plants 15"x30" | Seed scarce in 1942. Potato beetle bad |
| Hoarhound | <i>Marrubium vulgare</i> | 92,375 | Europe | Herbaceous perennial | Sandy, fairly dry, sun | Divisions or seeds, 12"x18" | Widely naturalized |
| Hops | <i>Humulus Lupulus</i> | 5,248,208 | Northern U. S., England, Germany | Climbing herb | Loam | Cuttings and from seed | Wild in North and mts. south to Fla. and Arizona |
| Licorice | <i>Glycyrrhiza glabra</i> | 59,731,292 | Spain, Italy, Turkey | Perennial herb | Deep, moist, mellow, rich | Uncultivated after 1st yr. | Grow some in California |
| Mayapple | <i>Podophyllum peltatum</i> | | Native to Texas | Herbaceous perennial | Deep, moist loam | Collected | Market limited. Drug from dried roots |
| Menthol | <i>Mentha arvensis</i> <i>var. piperascens</i> | | Northern Japan and U. S. | Perennial | Rich, moist loam | Rootstocks, 2-3 crops yearly | |
| Nux vomica | <i>Strychnos Nux-vomica</i> | 2,888,450 | India, Australia | Tree | | | Tropical. Seeds contain strychnine |
| Orris | <i>Iris florentina</i> | 486,208 | S. Europe, Persia, India | Perennial | Rather dry, gravelly | Divisions, 12"x36" | Insects bad in storage |
| Psyllium | <i>Plantago Psyllium</i> | 2,158,375 | France, Spain | Annual to 8 inches | Loam | 2 crops per year | Laxative, 18 species in Texas mostly weeds |
| Puccoon | <i>Lithospermum officinale</i> | | | Herbaceous perennial | Not particular | Divisions or seeds | Grows wild in Texas |

*1935 or a recent average—crude drug.

Table 2. Herbs, Spices, Etc.

| Common Name | Scientific Name | Imports (Pounds)* | Commercial Areas | Type Plant | Soils | Culture | Notes |
|-----------------------------------|--|-------------------|------------------------------|-------------------------------|-------------------------------------|--------------------------------|--|
| Allspice | <i>Pimenta officinalis</i> | 4,127,822 | W. Indies, S. America | Evergreen tree | Too common to cultivate | | Tropical |
| Ambrosia | <i>Chenopodium Botrys</i> | | | Annual to 2 feet | Loam | Seed. Not difficult | Jerusalem-Oak Feather Geranium |
| Angelica | <i>A. archangelica</i> | | | Biennial or perennial | Low ground | Seed in fall, plants in spring | Set plants 3x3 feet in full sun. Herb |
| Anise | <i>Pimpinella Anisum</i> | 490,627 | Europe, India, South America | Annual long season | Light to medium loam | Seed in field 6"x30" | Successful in Lower valley |
| Basil Sweet Bush | <i>ocimum basilicum</i> <i>O. minum</i> | | | Annual to 2 feet To 1 foot | Light, medium fertile, well drained | Set plants 12"x18", sun | Widely adapted An ornamental |
| Bergamot Bee Balm Horsemint | <i>Monarda didyma</i> <i>M. fistulosa</i> | | | Perennial | Any moist sandy soil | Seeds or divisions. 12"x18" | Herb. Leaves used in drinks |
| Borage | <i>Borago officinalis</i> | | | Annual to 2 feet | Light, "dry" med. fertility | Set plants 12"x15", sun | Herb. Leaves used in salad |
| Capsicum | <i>C. annuum</i> , <i>other species</i> | 1,611,654 | Eu., Asia, America | Annual | Widely adapted | Set plants 12"x30" | Includes the garden peppers |
| Caraway | <i>Carum Carvi</i> | 6,168,202 | Europe | Annual or biennial | Light, "dry" soil | Seed in spring | Second year. Fruit is used |
| Cassia | <i>Cinnamomum Cassia</i> , <i>other species</i> | 10,093,196 | India, East Indies, China | Evergreen tree | Moist, rich soil | From seed in China | Subtropical. Bark stripped from trees 6-10 years old |

*1935 or a recent average—crude product.

Table 2. Herbs, Spices, Etc. (Continued)

| Common Name | Scientific Name | Imports (Pounds)* | Commercial Areas | Type Plant | Soils | Culture | Notes |
|--|---|-------------------------|--|--|---|--|---|
| Catnip | <i>Nepeta Cataria</i> | | | Perennial to 3 feet | Not particular | Seed 18"x24" sun | Herb. Sometimes used in tea |
| Chamomile | <i>Anthemis nobilis</i> | | | Perennial to 8 inches | Any soil | Full sun | Dried flower heads used for tea |
| Chervil | <i>Anthriscus cerefolium</i> | | | Annual to 2 feet | Light loam | Reseeds, 3"x18" shade | Needs cool weather. Herb |
| Chives | <i>Allium schoenoprasum</i> | | | Perennial to 2 feet | Rich loam | Divisions in fall or early spring | Milder than onion. Used in salad, soup, dressing |
| Cinnamon Saigon C. | <i>Cinnamomum zeylanicum</i> <i>C. Loureirii</i> | 850,356 | E. and W. Indies, Cochin China, S. America | Tree | | Cut back twice a year | Tropical |
| Clary | <i>Salvia Sclarea</i> | | | Biennial to 4 feet | Well drained loam, sun | Seed or cuttings, 10"x20" | Leaves used as seasoning |
| Clove | <i>Eugenia aromatica</i> | 3,744,555 | Zanzibar | Evergreen tree | | | Tropical. Unopened flower buds |
| Coriander | <i>Coriandrum sativum</i> | 1,618,322 | Europe, India, Morocco | Perennial to 3 feet | Good garden soil, sun | Seed, 6"x15" annual | Fruits are dried |
| Cudweed | <i>Artemisia Purshiana</i> | | | Perennial to 3 feet | Not particular | Seed, full sun | For winter bouquets |
| Cumin | <i>Cuminum cyminum</i> | 986,283 | Southern Europe | Small annual | Well drained, med. fertile | Seed, 18"x36", sun | Seeds used in bread, cheese, liquor, etc. |
| Dill | <i>Anethum graveolens</i> | | | Annual or longer | Sandy garden soil | Seed 9"x18", full sun | Seeds sometimes shatter. Herb |
| Dittany | <i>Dictamnus albus</i> | | | Perennial to 3 feet | Light loam | Full sun | Flowers ornamental. Herb |
| Fennel Sweet | <i>Foeniculum vulgare</i> <i>F. dulce</i> | 310,989 | Widely cultivated | Tall perennial. Annual | Not particular. Rich, moist | Annual, seed sun, 18"x24". 6"x12" | May become a pest in pastures |
| Fenugreek | <i>Trigonella Foenum-graecum</i> | 511,732 | Southern Europe, Asia | Annual legume | Well drained loam | Seed in field | Grown for seeds, also forage; ornamental |
| Germander Small-leaved Large-leaved | <i>Teucrium Chamaedrys</i> <i>T. flavum</i> | | | Perennial to 1 foot to 2 feet | Light loam | Set plants, sun | An edging plant. Can be clipped |
| Ginger | <i>Zingiber officinale</i> | 3,404,069 | China, Japan, Jamaica | Perennial to 3 feet | Rich, moist soil, shade | Divide rhizomes | Tropical |
| Hoarhound | See Table 1 | | | | | | |
| Hyssop | <i>Hyssopus officinalis</i> | | | Perennial to 2 feet | Well drained, mod. fertile | Seed, this to 6"x18" shade | For soups. Herb |
| Lavender | <i>Lavandula vera</i> <i>L. spica</i> | | | Small shrub | Well drained, sandy | Seeds, divisions, cutting set 18"x36" | Harvest blooms 2nd, 3rd and 4th years. Distil without drying |
| Lemon Balm | <i>Melissa officinalis</i> | | | Herbaceous perennial | Well drained mod. fertile | Seeds, cuttings set 12"x18" | Cut in full flower, dry. Only flowers distilled |
| Mace | <i>Myristica fragrans</i> | 702,627 4,420,911 | Tropics (nutmeg) | Evergreen tree to 60 feet | Moist, rich loam | Hot, moist climate | Tropical. Seed yields nutmeg |
| Marjoram Sweet Dittany of Crete | <i>Majorana hortensis</i> <i>Origanum Dictamnus</i> | | | Perennial to 2 feet Perennial to 1 foot | Well drained loam Light loam | Annual, seed 12"x18" sun Seed or Division in fall | For flavoring stews, etc. |
| Mint Peppermint Pennyroyal Spear-mint Horse-mint | <i>Mentha piperita</i> <i>M. Pulegium</i> <i>M. Spicata</i> <i>M. sylvestris</i> | | Mich., Ind., New York | Perennial | Moist soils high in organic matter muck | Cuttings or divisions, keep free of weeds | Mow when in bloom, haul to distillery when dry. Fresh leaves used in drinks |
| Mustard White Black | <i>Brassica hirta</i> <i>B. nigra</i> | 7,770,861 1,025,580 | (seeds) Europe (ground m.) | Annual to 6 feet | Not particular | Seed in rows | Leaves used as greens, seed as condiment, oil |
| Pepper | <i>Piper nigrum</i> | 33,085,593 4,748,307 | (black) East (white) Indies | Climbing shrub | Not particular, moist | Seeds, cuttings pruned at 2', bears at 3 years | Tropical. Black from unripe, white from nearly ripe fruit |
| Pyrethrum | <i>Chrysanthemum cinerariaefolium</i> , other species | 15,811,329 | Austria, Japan, U. S. (experiment) | Perennial | Deep, rich loam | Seeds, harvest flowers | Cool growing season needed. Not promising |
| Quassia Jamaican Surinam | <i>Picraena excelsa</i> <i>Quassia amara</i> | 625,151 | West Indies W. Indies, Tropical America | Tree Tree | | | Drug made from chips, tropical Tropical |
| Quinine | <i>Cinchona Ledgeriana</i> , other species | 1,618,252 | Java, India, Jamaica | Evergreen tree | | | Tropical |
| Rosemary | <i>Rosmarinus officinalis</i> | | | Perennial to 4 feet | Well drained light soils | Cuttings, divisions, seed | 18"x24", sun. Perfumes, preserves. Herb |
| Santonin | <i>Artemisia Cina</i> | | Turkestan | Semi-shrubby perennial | Dry, poor soil | Divisions | Dried unopened flowers used for worms |

*1935 or a recent average—crude product.

McCULLOUGH'S SEEDS

FROM THE HEART OF THE PRODUCING SECTIONS

SINCE 1838

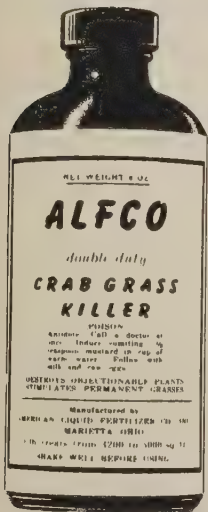
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GROWERS
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WHOLESALE

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CINCINNATI, OHIO



ALFCO

DOUBLE DUTY**

CRAB GRASS KILLER

ALFCO is a concentrated liquid chemical, attractively packaged and labeled.

*Diluted and applied as a spray, its scientific balance of soil nutrients and killing elements feed the desirable turf grasses and kill Crab Grass, Chickweed and Spurge. Since it kills both plants and seed, it checks reinfestation the following year and is not toxic to the soil. One oz. of ALFCO treats 200 sq. ft.

*A few drops of undiluted ALFCO applied to the crown of practically any undesired plant—Dandelions, Plantain, Buckhorn, etc.—will destroy both plant and roots. One oz. kills 100 dandelions.

Home-owners quickly appreciate a means of ridding their lawns of unsightly crab grass and weeds, and also ALFCO's economy and ease of application.

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16 oz. 1.50
32 oz. 2.50
gal. 8.00

Table 2. Herbs, Spices, Etc. (Continued)

| Common Name | Scientific Name | Imports (Pounds)* | Commercial Areas | Type Plant | Soils | Culture | Notes |
|--------------------------------|--|-------------------|----------------------|----------------------------------|-------------------------------|-------------------------------------|---|
| Sage | <i>Salvia officinalis</i> | 1,446,143 | Southern Europe | Shrub-like herb | Well drained, rich loam | Seed, cuttings 12"x24" | Cut before blooming. Adapted |
| Savory Summer Winter | <i>Satureia hortensis</i> <i>S. montana</i> | | | Annual to 18 inches Perennial | Light, rich loam Poor, dry | Seeds, sun Seed, cuttings | Cut at beginning of bloom and dry in shade |
| Senna Alexandrain Indian | <i>Cassia acutifolia</i> <i>C. angustifolia</i> | 2,304,312 | India | Perennial | Loam | Divisions and seeds Sun | Leaflets and pods dried in sun Cathartic |
| Sorrel | <i>Rumex sp.</i> | | | Perennial | Any soil | Divisions | May become a pest |
| Southernwood | <i>Artemisia abrotanum</i> | | | Small shrub | Sandy soil. | Sun | Old man. Lad's love |
| Stramonium | <i>Datura Stramonium</i> | 404,219 | U. S., Europe | Annual | Not particular, moist | Seed direct in field | Leaves and flowers dried |
| Tansy | <i>Tanacetum vulgare</i> | | Michigan | Perennial | Not particular | Seeds, roots, 18"x36", sun | Cut plants in full flower, dry in shade |
| Tarragon | <i>Artemisia Dracunculus</i> | | | Perennial to 3 feet | Well drained, sandy soils | Division, sun or shade | Leaves used for seasoning. Herb |
| Thyme | <i>Thymus vulgaris</i> | | | Shrub-like perennial | Well drained, sandy soils | Seed, cuttings 18"x36" | English, French, Norwegian best |
| Tonka bean | <i>Dipteryx odorata</i> | 514,741 | South America | Large tree | | Tropical | Substitute for vanilla |
| Vanilla | <i>V. planifolia</i> | 828,625 | East and West Indies | Climbing vine | | Tropical | Greenripe fruits cured |
| Verbena Lemon | <i>Lippia citriodora</i> | | Tropics | Perennial to 10 feet | Not particular | Sun | Tropical. Never less than 55° F. |
| Wormseed American | <i>Chenopodium ambrosioides</i> | | Maryland, Illinois | Annual | Not particular | Seed 18"x48" on low ridge, cut tops | |
| Wormwood | <i>Artemisia absinthium</i> | | Wisconsin, Michigan | Herbaceous perennial | Not particular | Seed fall, plants spring | Cut plants in full bloom and distil. Not very promising |
| Wormwood | <i>Artemisia sp.</i> | See Table 1 | | | | | |

Table 3. Miscellaneous Crops

| Common Name | Scientific Name | Imports (Pounds)* | Commercial Areas | Type Plant | Soils | Culture | Notes |
|------------------------|--|-------------------------------------|--|-----------------------|----------------------------|------------------------------------|--|
| Acacia Huisache | <i>A. Farnesiana</i> | | | Shrub | Not particular | Grows wild. | N. Texas. Flowers used for perfume |
| Camphor | <i>Cinnamomum Camphora</i> | 1,541,936 1,256,278 1,181,631 | (crude) China (refined) (oil) Japan | Evergreen tree | Well drained sandy loam | Hardy along Gulf Coast. Ornamental | Wood and leaves ground and distilled |
| Candelilla | <i>Euphorbia antisiphilitica</i> <i>Pedilanthus Pavonis</i> | 10,420,568 | Mexico | Leafless shrub | Well drained loam | Wild in West Texas | Wax on stems removed by hot water |
| Castor bean | <i>Ricinus communis</i> | 77,048,961 258,343 | (beans) (oil) | Annual or longer | Not particular | Seed in field | Difficult to harvest. Oil from seed |
| Chicle | <i>Achras Sapota</i> | 7,775,221 | Mexico, British Honduras | Evergreen tree | Rich, sandy loam, lime | Tropical | Source of chewing gum. Fruit is Sapodilla |
| Citronella | <i>Cymbopogon Nardus</i> | 1,682,574 | Java, Ceylon | Grass | | Tropical | Lemon grass is <i>C. citratus</i> |
| Damar | <i>Balanocarpus Heimii</i> Other plants | 15,004,904 | East Indies | Trees | | | Tropical. Varnish |
| Devil's Shoe String | <i>Tephrosia virginiana</i> | | Native to E. and N. Texas | Herbaceous perennial | Rather widely adapted | Collected, could be cultivated | A promising source of rotenone. Selections made by Station |
| Gum arabic | <i>Acacia Senegal</i> | 7,954,840 | Sudan | Shrub | Well drained loam | Tropical | Trees are tapped when fruit is ripe |
| Gum tragacanth | <i>Astragalus gummifer</i> | 2,473,524 | Persia | Shrub | Light, porous soil | Full sun | Mesquite gum a good substitute |
| Guayule | <i>Parthenium argentatum</i> | 1,028,400 | Mexico | Low shrubby perennial | Well drained loam, lime | Cultivation just starting | Native to SW. Texas. Prog. Rept. 771 |
| Kapok | <i>Ceiba pentandra</i> | 12,385 | Tropics of Amer. Asia | Large tree | | | Tropical. Fiber from fruit; oil from seeds |
| Lacquer | <i>Rhus verniciflua</i> | 7,483,575 | Japan | Tree to 60 feet | Poor, dry soil | Seeds or cuttings | Tree is tapped. Hardy. Foliage poisonous |
| Mesquite gum | <i>Prosopis chilensis</i> | | | Shrub or small tree | Widely adapted | Native in Texas | Method of collection to be studied |
| Olive | <i>Olea europaea</i> | 53,540,670 | Most subtropics, California | Evergreen tree | Well drained, fertile soil | Cuttings or grafted | Minimum temp. 14° F. Low humidity. Mission |

*1935 or a recent average—crude product.

Table 3. Miscellaneous Crops (Continued)

| Common Name | Scientific Name | Imports (Pounds)* | Commercial Areas | Type Plant | Soils | Culture | Notes |
|--------------------------------|---|---------------------------|-------------------------------------|-----------------------------|--|--|---|
| Palm oil | <i>Elaeis guineensis</i> | 297,579,208 50,592,641 | Sumatra, Java, West Africa | Tree | | | Tropical. Nut oil and kernel oil different |
| Rape | <i>Brassica Napus</i> <i>Other sp.</i> | 8,039,719 gallons oil | Eu., India, China, U. S. | Annual | Not particular | Seed in field Turnip, rutabaga | Edible oil from seed. Other parts eaten |
| Rose oil | <i>Rosa damascena</i> and <i>R. Centifolia</i> | 38,810 oz. essence | Bulgaria | Shrub | Well drained loam | Set plants 2x3 feet | |
| Sansevieria | <i>S. longifolia</i> <i>other species</i> | | Africa, India | Herbaceous perennial | Well drained loam | Moderate light needed | Bowstring hemp. Tender house plant |
| Sisal Yucatan | <i>Agave sisalana</i> , <i>A. fourcroydes</i> <i>Other species</i> | 125,931 tons | E. and W. Indies, Africa, Hawaii | Shrubby perennial | Well drained gravelly, lime | Little cultivation required | Tender. 12 species native lechequilla dominant in W. Texas |
| Sumac | <i>Rhus copallina</i> | | | Large shrub | Not particular | Collected | Tanning material extracted from leaves |
| Tallow tree | <i>Sapium sebiferum</i> | | China | Deciduous tree | Well drained sandy loam | Seeds or cuttings | Wax on seeds, oil within seeds. Adapted |
| Tung-oil | <i>Aleurites fordii</i> <i>A. montana</i> | 120,058,817 | China | Deciduous tree | Well drained sandy loam | Seed or cuttings | Oil from seeds. Adapted to SE Texas |
| Waxmyrtle Southern | <i>Myrica cerifera</i> | | | Shrub or tree to 40 feet | Moist, sandy loam | Mostly uncultivated | Wax from berries. Bark of root for drug |
| Yucca and related plants | <i>Y. Treculeana</i> <i>Y. Schottii</i> , <i>Y. australis</i> <i>Samuela</i> <i>Carnerosana</i> <i>Hesperaloe funifera</i> <i>Hesperoyucca spp.</i> | | Mexico | Shrubby perennial | Well drained, sandy, gravelly loam, lime | Little cultivated except as ornamental | 13 species native to Texas. Fiber hard to remove, clean |

*1935 or a recent average—crude product.

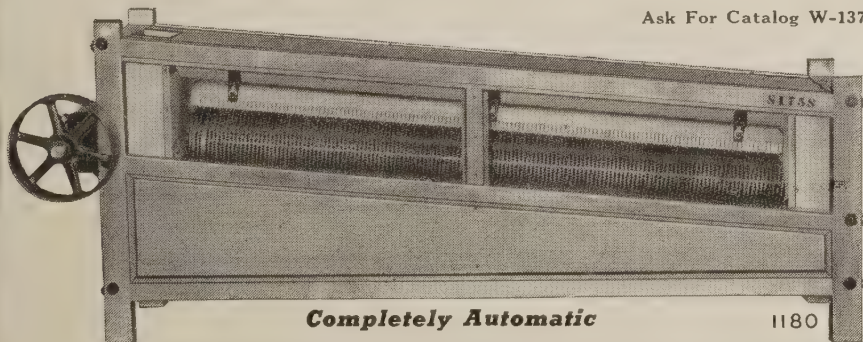
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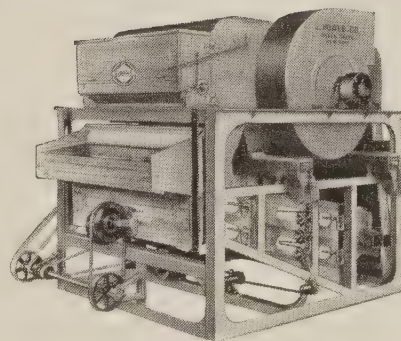
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BEANS

| Variety | Season | Plant | Pod | | Seed Color |
|---------------------|-----------|--------------|---------------------|-------|-------------------|
| | | | Shape | Color | |
| Asgrow Stringless | Early | Bush, large | Straight, round | | Mottled purple |
| Tendergreen | | | Med. green | | |
| Black Valentine | Early | Bush, large | Straight, oval | | Black |
| Stringless | | | Deep green | | |
| Blue Lake | Mid | Pole, large | Round, straight | | Ivory white |
| Bountiful | Early | Bush, medium | Straight, flat | | Straw |
| Burpee's Stringless | Early | Bush, medium | Curved, round | | Coffee-brown |
| Cornfield | Late | Pole, large | Straight, round | | Mottled buff |
| Decatur | Early | Pole, large | Near straight | | Ivory white |
| French's Hort. | Late | Bush, medium | Straight, broad | | Green and carmine |
| Full Measure | Early | Bush, large | Straight, round | | Mottled red |
| Giant Stringless | | | Med. dark green | | |
| Golden Wax | Early | Bush, medium | Sl. curved, round | | Mottled brown |
| Ideal Market | Early | Bush, medium | Straight, oval | | Yellowish brown |
| Kentucky Wonder | Mid | Pole, large | Curved, round | | Mottled white |
| Kidney Wax | Mid | Bush, medium | Curved, round | | Black |
| Lazy Wife | Late | Pole, medium | Curved, oval | | Buff |
| London Hort. | Late | Pole, medium | Clusters, oval | | White, black eye |
| McCaslan | Mid | Pole, large | Curved, thick flat | | White |
| Pencil Pod | 2nd Early | Bush, medium | Curved, round | | Mottled Red |
| Plentiful | Early | Bush, medium | Straight, flat | | Ivory |
| Rd. Pod Kid. Wax | Mid | Bush, large | Sl. curved, round | | Black |
| Red Valentine | 2nd Early | Bush, medium | Curved, round | | White, black eye |
| Refugee Stringless | Late | Bush, large | Straight, round | | Mottled buff |
| Sure Crop | 2nd Early | Bush, large | Straight, thick | | Mottled purple |
| Tenn. Green Pod | Early | Bush, medium | Very large, stringy | | Black |
| Webber Wax | Early | Bush, dwarf | Straight, flat | | Med. brown |
| Wht. Creaseback | Mid | Pole, medium | Sl. curved, round | | Yellowish buff |
| | | | | | Ivory |

GARDEN CORN

| Variety | Season | Ears | | | | Stalk in Feet |
|------------------------|--------|--------|---------------|---------|------------|---------------|
| | | Color | Length Inches | Rows | Type | |
| Adams Extra Early | Early | White | 6 | 12-14 | Roasting | 5 |
| Alameda | Main | White | 7 | 12-16 | Sweet | 5 |
| 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 |
| Marcross* | Early | Yellow | 7 | 12-16 | Sweet | 5 |
| Mossheart | Late | Yellow | 8 | 14-18 | Near sweet | 8 |
| Oregon Evergreen | Late | White | 8 | 12-14 | Sweet | 7 |
| Spangcross* | Early | Yellow | 6½ | 10-14 | Sweet | 5½ |
| Stowell's Evergreen | Late | White | 9 | 16-18 | Sweet | 8 |
| Surcropper | Late | White | 7 | 10-14 | Semi-sweet | 7 |
| 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 | Shape | Color | Inches | | |
| Alaska | 1st Early | w. r. | 28 | Light | Blunt | Light | 2½ | Smooth | |
| Alderman | Main | w. r. | 50 | Dark | Pointed | Dark | 4½ | Wrinkled | Telephone |
| Amer. Wonder | Early | | 12 | Dark | Blunt | Light | 2½ | Wrinkled | |
| Bountiful | 1st Early | w. r. | 30 | Med. | Pointed | Med. | 3 | Dimpled | Ameer |
| Champion of Eng. | Late | | 50 | Med. | Blunt | Light | 3 | Wrinkled | |
| Dwf. Telephone | Late | w. r. | 24 | Light | Pointed | Light | 4½ | Wrinkled | |
| Everbearing | Late | w. r. | 28 | Dark | Blunt | Light | 3 | Wrinkled | |
| Giant Stride | Late | w. r. | 26 | Dark | Pointed | Dark | 4¾ | Wrinkled | [No. 40. |
| Gilbo | Main | w. r. | 26 | Dark | Pointed | Dark | 4½ | Wrinkled | Icer. |
| Gradus | Early | | 32 | Med. | Pointed | Med. | 4 | Wrinkled | [Wy. Wonder. |
| Hundredfold | Early | | 20 | Dark | Pointed | Dark | 4 | Wrinkled | |
| Laxtonian | Early | | 16 | Dark | Pointed | Dark | 4 | Wrinkled | |
| Lax's. Progress | Early | | 15 | Dark | Pointed | Dark | 4¼ | Wrinkled | |
| Lax's. Superb | Early | | 17 | Light | Pointed | Dark | 4½ | Wrinkled | |
| Little Marvel | Early | | 18 | Dark | Pointed | Med. | 4 | Dimpled | arly Bird |
| Marrowfat Wh. | Late | w. r. | 50 | Med. | Blunt | Dark | 3 | Wrinkled | |
| Morse's Market | Main | w. r. | 26 | Med. | Blunt | Light | 3 | Smooth | |
| Nott's Excelsior | Early | | 26 | Med. | Pointed | Dark | 4½ | Wrinkled | |
| Onward | Main | | 15 | Dark | Blunt | Light | 2¾ | Wrinkled | |
| Pedigree Ex. Ey. | 1st Early | w. r. | 26 | Light | Blunt | Dark | 2¾ | Wrinkled | |
| Pilot | Early | | 30 | Med. | Pointed | Med. | 2½ | Smooth | First & Best |
| Premium Gem | Early | w. r. | 22 | Dark | Blunt | Light | 2¾ | Wrinkled | |
| Stratagem | Late | | 26 | Dark | Pointed | Dark | 4½ | Wrinkled | |
| Teton | Main | w. r. | 32 | Dark | Blunt | Dark | 3¾ | Wrinkled | |
| Thomas Laxton | Early | | 34 | Dark | Blunt | Dark | 3½ | Wrinkled | |
| World's Record | Early | | 24 | Light | Pointed | Med. | 3½ | Wrinkled | |

*w. r.—Resistant to Fusarium wilt.

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 | |
| Amer. Drumhead | Late | Flat | 12 | 11 | Wisc. All Season |
| Charleston Wakefield | Early | Conical | 6½ | 4 | |
| Copenhagen Market | Early | Globe | 6 | 3½ | {Racine Market Marion Market |
| Early Flat Dutch | Mid | Flat | 11 | 10 | |
| Early Round Dutch | Mid | Globe | 7½ | 4½ | Improved Globe |
| Glory of Enkhuizen | Mid | Globe | 8 | 6 | |
| 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 | |
| Mammoth Red Rock | Late | Globe | 7 | 7 | Jersey Queen |
| Midseason Market | Mid | Globe | 8 | 6 | |
| Penn. State | Late | Flat globe | 7½ | 5½ | Red Hollander |
| Prem. Late Dutch | Late | Flat | 10 | 8 | |
| Red Dutch | Late | Globe | 7 | 7 | Improved Globe |
| Savoy Perfection | Mid | Globe | 7 | 6 | |
| Succession | Mid | Flat globe | 10 | 8 | Resist. Gold Acre |
| Winningsstadt | Mid | Conical | 6 | 3½ | |

LETTUCE

| Variety | Season | Type | Size | Outer Color | Seed | Use |
|--------------------|--------|--------------|------------|-------------------|-------|----------|
| 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 |
| 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 | 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 |

ONIONS

| | Season | Shape | Exterior Color | Notes |
|------------------------|-----------|-------------|----------------|--------------------|
| Australian Brown | Mid | Flat globe | Brown | Strong flavor |
| 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 |
| 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 ribs | 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 ribs | 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 |

*—Mildew-resistant

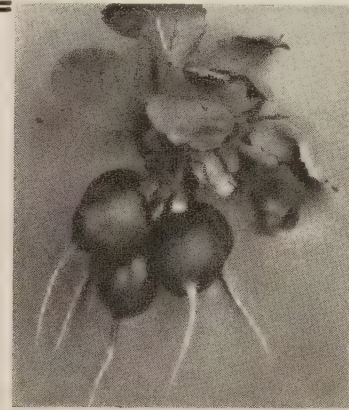


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PEPPERS

| Variety | Season | Flavor | Length Inches | Diam. Inches | Color | | Shape |
|-------------------|-----------|-----------------|---------------|--------------|-----------|---------|--------------|
| | | | | | Young | Mature | |
| Bell | Early | Sweet; hot ribs | 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 |
| Early Giant | Early | Sweet | 4 1/2 | 3 1/2 | Green | Red | Nr. square |
| Hungarian | Early | Pungent | 6 | 1 1/2 | Yellow | Crimson | Long pointed |
| Paprika | Mid | Mostly 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 |

RADISHES

| 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 |

TOMATOES

| 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 | Red | Medium |
| Earliana | Early | Short | Globe | Pink | Medium |
| Golden Queen | Late | Medium | Fl. globe | Red | Medium |
| Greater Baltimore | Main | Large | Deep flat | Yellow | Large |
| Grothen's Globe | Early | *Medium heavy | Flat | Red | Large |
| Gulf State Mkt. | Main | Medium | Globe | Red | Medium |
| June Pink | Early | Short | Globe | Pink | Med. large |
| Livingston's Globe | Main | Strong | Fl. globe | Pink | Medium |
| Marglobe | Main | *Large | Globe | Pink | Large |
| Oxheart | Main | Medium | Globe | Red | Med. large |
| Ponderosa | Late | Sprawling | Globe | Yellow | Med. large |
| Pritchard | Late | Sprawling | Heart | Pink | Large |
| Rutgers | Main | Flat | Heart | Pink | Large |
| Scarlet Dawn | Main | *Self-Topping | Fl. globe | Red | V. large |
| Stokesdale | Early | *Large | Globe | Red | Medium |
| Stone | Early | Medium | Globe | Red | Med. large |
| | Late | Medium large | Globe | Red | Med. large |
| | Late | Large | Deep flat | Red | Large |

*Varieties so marked are in greater or less degree resistant to disease.

WATERMELONS

| 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, bl. 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, bl. 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 | Black | Shipping |
| Leesburg | Mid | Deep green | Oblong | 30 | Bl. mottled | Shipping |
| Northern Sweet | Early | Gn., thin stripes | Short oval | 12 | White | Shipping, w.r.* |
| Peerless | Late | Med. green | Short oblong | 20 | Brown, dk. edge | Home |
| Schochler | Late | Gn., faint stripes | Large, long | 45 | White | Home |
| Stone Mountain | Mid | Med. dk. green | Round-oval | 40 | Brown | Shipping |
| Thurmond Gray | Late | Gray-green | Long, cyl. | 35 | White, bl. | Stone Mt. No. 5 is w.r.* |
| Tom Watson | Late | Deep green | Cylindrical | 35 | Brown | Shipping |
| Wondermelon | Mid | Dark green | Large oblong | 35 | Br., mottled | Shipping |
| | | | oblong | 35 | White | Local |

*w.r.—resistant to Fusarium wilt.

CUCUMBERS

| | Use | Season | Spines | Length Inches | Diam. Inches | Color | Shape |
|--------------------|----------|-----------|--------|---------------|--------------|-------------|------------------|
| A & C | Slicing | Mid | White | 8½ | 2¼ | Dark green | Cylindrical |
| Arlington | Slicing | Early | White | 7½ | 2½ | 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 |
| Davis Perfect | Slicing | 2nd Early | White | 9 | 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 |
| 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 |
| 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 | | | | | | | |
| Seibert's Early | Pole | 4½ | 1¼ | 4 | Large | Squarish | White |
| Sieva | Pole | 3¼ | ¾ | 3-4 | Small | Flat | White |
| Small White | | | | | | | |
| Wood's Prolific | Bush | 3¼ | ¾ | 3-4 | Small | Flat, oval | White |
| Yopp's Prolific | Pole | 3½ | ¾ | 3-4 | Medium | Flat | White |

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NAMES OF VEGETABLES IN FOREIGN LANGUAGES

| English | French | German | Spanish | Italian |
|-----------------------|----------------------|-------------------------|-----------------------------|-----------------------------|
| Anise | Anis Vert | Anis | Anis | Anise |
| Artichoke | Artichaut | Artichoke | Alcaucil | Carciofo |
| Asparagus | Asperge | Spargel | Esparrago | Asparagi |
| Balm | Citronnelle | Citronenmelisse | Toronjil | Melissa |
| Basil | Basilic | Basilikum | Albohaca | Basilico |
| Bean | Haricot | Bohne | Poroto | Fagioli |
| Broad Bean | Fèves | Gartenbohnen | Haba | Fava |
| Beet | Betterave | Roterüben | Remolacha | Barbabietole |
| Borage | Bourrache | Boretsch | Boraja | Borrano |
| Broccoli | Chou-Brocoli | Broccoli | Broculi | Cavolo Broccolo |
| Brussels Sprouts | Choux de Bruxelles | Rosenkohl | Col de Bruselas | Cavolo di Bruxelles |
| Cabbage | Choux | Kopfkohl | Repollo | Cavolo |
| Cabbage, Chinese | Chou de Chine | Chineser-Kohl | | Cavolo Chinese |
| Cabbage, Savoy | Chou de Milan | Wirsing | Repollo Crispo | Cavolo Verza |
| Caraway | Cumin des Prés | Kummel | Acaravea | Comino |
| Cardoon | Cardon | Cardonen | Cardo | Cardo |
| Carrot | Carotte | Karotten | Zanahoria | Carota |
| Cauliflower | Chou-fleur | Blumenkohl | Coliflor | Cavoli Fiori |
| Celery | Céleri | Sellerie | Apio | Sedano |
| Celeriac | Céleri Rave | Knollen-Sellerie | Apio-rabo | Sedano-rapa |
| Chervil | Cerfeuil | Kerbel | Perifolio | Cerfoglio |
| Chicory | Chicorée | Cichorienwurzel | Achicoria | Cichoria |
| Chicory, Large Rooted | Chicorée a café | cichorienwurzel | Achicoria de raiz | Cichoria u café |
| Chives | Ciboulette | Schnittlauch | Cebollino | Cipollina |
| Collard | Chou | Junge-Kohl | Especie de Berza | Cavolo Verzatte |
| Coriander | Coriandre | Koriander | Coriandro | Coriandro |
| Corn Salad | Mâche | Feldsalat | Canonigo | Valeniana |
| Corn | Mais | Mais | Maiz | Mais |
| Corn, Sweet | Mais suevo | Zucker mais | Maiz dulce | Gran turco dolce |
| Cress | Cresson | Kresse | Lepidio | Crescione |
| Cress, Water | Cresson de fontaine | Brunnenkresse | Berro | Crescione delle fontane |
| Cucumber | Concombre | Gurke | Pepino | Cetriolo |
| Dandelion | Pissenlit | Lowenzahn | Amargon | Dente di Leone |
| Dill | Aneth | Dill | Eneldo | Aneto |
| Eggplant | Aubergine | Eierfruchte | Berenjena | Melanzana |
| Endive, Curled | Chicorée Frisée | Endivien | Endivia | Indivie ruccia |
| Endive, Broadleaf | Chicorée-Scarole | Eskariol | Escarola | Cicoria scarola |
| Fennel | Fenouil | Fenchel | Hinojo | Finocchio |
| Garlic | Ail | Knoblauch | Ajo | Aglio |
| Gourd | Couge a Manger | Speise-Kurbisse | Calabaza | Marrubio |
| Horehound | Marrube Blanc | Andorn | Taramayo | Raphano |
| Horse Radish | Cochlearia rustique | Mecretlich | | |
| Hyssop | Hyssope | Isop | Hisopo | Issopo |
| Kale | Chou Frisés d'hiver | Blatterkohl | Col que no repolla | Cavola senza testa |
| Kohlrabi | Chou Rave | Kohlrabi | Col Rabano | Cavola Rapa |
| Lavender | Lavande | Lavandel | Espiego | Lavanda |
| Leek | Poireau | Porree Oder Lauch | Puerro | Porro |
| Lentil | Lentille | Linse | Lenteja | Lentisschia |
| Lettuce | Laitues Pommées | Kopfsalat | Lechuga | Lattuga |
| Mangel Wurzel | Betterave fourragère | Runkeln | Remolacha forrajera | Barbabietola da forraggio |
| Marjoram | Majoraine | Majoran | Majorana | Maggiorana |
| Mint | Menthe | Minze | Menta | Menta |
| Musk Melon | Melon brode | Melonen | Melon de Castilla | Melone Moscato |
| Mushroom | Champignon | Schwamm | Hongo | Fungo |
| Mustard | Moutarde | Senf | Mostaza | Commestibile |
| Okra | Gombo | Ocher | Quimbombo | Senapa |
| Onion | Oignons | Zwiebeln | Cebolla | Isisco |
| Orache | Arroche | Gartenmelde | Arnuelle | Cipolle |
| Parsley | Persil | Petersilie | Perejil | Atriplica |
| Parsnip | Panais | Pastinaken | Chirivía | Prezemolo |
| Pea | Pois | Erbsen | Arveja | Pastinaca |
| Peanut | Arachide | Erdnuss | Cacahue | Pisello |
| Pepper | Poivre | Pfeffer | Pimiento | Ceci de terra |
| Potato | Pomme de terre | Kartoffel | Papa | Peperone |
| Pumpkin | Potiron | Melonen Kurbiss | Calabaza | Patata |
| Radish | Radis | Radies | Rabano | Zucca |
| Rhubarb | Rhubarbe | Rhabarber | Rubarbo | Ravanello |
| Rocket | Roquette | Rauke | Oruga, Jaramago | Rabarbaro |
| Rosemary | Rosmarin | Rosmarin | Romero | Rucola |
| Rue | Rue | Weinraute | Ruda | Rosemarino |
| Rutabaga | Chou-navet | Kohlrübe | Colinabo | Ruta |
| Saffron | Safran | Safran | Azafran | Cavalo navone |
| Sage | Sage | Salbei | Salvia | Zafferano |
| Salsify | Salsifis | Salsitis | Salsifi | Salvia |
| Sorrel | Oseille | Sauerampfer | Acedera | Scorzabianca |
| Spinach | Epinars | Spinat | Espinaca | Acetosa |
| Spinach, New Zealand | Tetragone | Neuseelaudischer Spinat | Espinaca de Nueva Zealandia | Spinaci |
| Squash | Ecraser | Kurbiss | Zapallo | Espinaca de Nueva Zealandia |
| Sweet Potato | Potatè douce | Susse-Batata | Batata | Tetragona |
| Swiss Chard | Poirée ou Bette | Beete (Mangold) | Aelga | Zucca |
| Thyme | Thym | Thymian | Tomillo | Patata dolce |
| Tomato | Tomates | Tomaten | Tomate | Bista |
| Turnip, Garden | Navets Potagers | Speise-Rüben | Nabo | Tomato |
| Turnip, Field | Navet Fourragers | Fitterrüben | Nabo Forrajero | Pomodoro |
| Watermelon | Melon d'eau | Wasser-Melonen | Sandia | Papa di cucina |
| | | | | Moschata |

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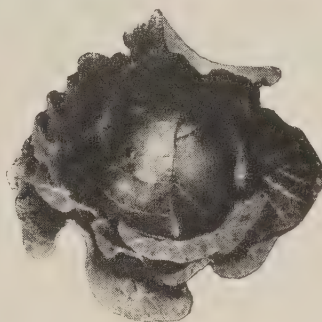
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Vegetable Planting Chart

| Vegetable | Depth to Cover (inches) | Space Between Rows | Space to Set Plants or Thin Out Seedlings | Time Required to Produce Crop Ready for Use | Approximate Yield per 20 ft. of Row | Seed Required to Sow One Acre | Time to Plant in Open Ground | |
|--------------------------|----------------------------|--------------------|---|---|--|-------------------------------|---------------------------------|---------------------------------|
| | | | | | | | South | North |
| Asparagus | Seeds, 1 in. Plants, 4 in. | 3 to 4 ft. | 12 in. | Seeds 4 years Plants 2 years | 50 bunches of 1 doz. each for entire patch | 4 lbs. | Autumn or early spring | Early spring |
| Beans (Limas, see below) | Bush | 2 in. | 4 in. | 60 to 90 days | 8 qts. | 50 lbs. | Late spring | May and June |
| | Pole | 2 in. | 3 ft. | 90 to 120 days | 10 qts. | 30 to 50 lbs. | | |
| Beet | 1/2 in. | 18 in. | 2 to 3 in. | 60 to 80 days | 5 doz. roots | 8 to 14 lbs. | Feb. to April— Aug. to Sept. | April to Aug. |
| Broccoli | 1 in. | 2 1/2 ft. | 24 in. | 120 days | 20 heads | 4 ozs. | | |
| Brussels Sprouts | 1 in. | 2 1/2 ft. | 24 in. | 120 days | 20 qts. | 4 ozs. | Jan. to July | May and June |
| Cabbage | | 2 1/2 ft. | 18 to 24 in. | 100 to 150 days | 10 heads | 4 ozs. | Oct. to Dec.— June and July | Mar. to June |
| Chinese Cabbage | 1/2 1/4 in. | 2 1/2 ft. | 12 in. | 80 to 100 days | 20 heads | | | |
| Carrot | 7/8 in. | 2 ft. | 2 to 4 in. | 45 to 60 days | 5 doz. roots | 3 to 4 lbs. | Mar. and Apr.—Sept. | April to June |
| Cauliflower | | 2 to 3 ft. | 24 in. | 120 to 150 days | 8 to 10 heads | 4 ozs. | Jan. and Feb.—June | April to June |
| Celery | | 3 ft. | 6 in. | 100 to 120 days | 2 doz. stalks | 4 ozs. | Aug. and Oct. | May and June |
| Corn, Sweet | 2 in. | 3 ft. | 12 in. | 80 to 120 days | 40 ears | 8 to 10 lbs. | Feb. to April | May to July |
| Cucumber | 1 1/4 in. | 4 ft. | 3 to hill | 60 to 80 days | 20 to 30 pickles | 3 to 4 lbs. | Feb. and Mar.—Sept. | April to July |
| Eggplant | | 2 1/2 ft. | 24 in. | 100 to 120 days | 30 to 40 fruits | 5 to 6 ozs. | Feb. to April | April and May |
| Endive | 1 1/4 in. | 2 ft. | 10 to 12 in. | 60 to 80 days | 30 to 40 plants | 4 to 5 lbs. | Feb. to April | April and July |
| Kale | 1 1/2 in. | 2 1/2 ft. | 12 in. | 80 to 100 days | 20 plants | 4 to 5 lbs. | Oct. to Feb. | Aug. to Sept. —Mar. and Apr. |
| Leek | 1/2 3/8 in. | 2 ft. | 4 in. | 100 days | 60 plants | 4 lbs. | May to Sept. | Mar. to May |
| Lettuce | 1/2 3/8 in. | 2 ft. | 10 to 12 in. | 45 to 60 days | 20 heads | 1 1/2 to 2 lbs. | Sept. to Mar. | Mar. to Sept. |
| Melon, Musk | 1/2 1/4 in. | 4 ft. | 3 to hill | 100 to 120 days | 30 fruits | 3 to 4 lbs. | Feb. to April | April to June |
| Beans, Limas | Bush | 2 in. | 24 in. | 100 days | 4 qts. | 30 to 50 lbs. | | |
| | Pole | 2 in. | 3 ft. | 120 days | 5 to 6 qts. | | | |
| Onions | 1/2 1/8 in. | 18 in. | 4 in. | 80 to 110 days | 80 onions 10 to 20 lbs. per row | 3 to 4 lbs. | Oct. to Mar. | April to May |
| Onion Sets | 1 in. | 18 in. | 2 in. | 30 to 60 days | 120 scallions | 60 to 85 lbs. | Early spring | Autumn— Feb. to May |
| Peas | 2 in. | 2 1/2 ft. | 1 in. | 60 to 100 days | 10 to 20 qts. of pods | 90 to 180 lbs. | Sept. to April | Mar. to June |
| Pepper | | 3 ft. | 2 ft. | 100 days | 10 doz. peppers | 1/2 to 1 lb. | Early spring | May and June |
| Potatoes | 4 in. | 3 ft. | 6 in. | 100 days | 10 to 15 lbs. | | Jan. to April | Mar. to June |
| Potatoes, Sweet | 3 in. | 3 1/2 ft. | 2 ft. | 5 mos. | | | April and May | May and June |
| Pumpkin | 2 1/2 in. | 4 to 6 ft. | 3 to hill | 100 to 120 days | 5 to 10 fruits | 3 to 4 lbs. | April and May | May and July |
| Radish | 1/2 in. | 18 in. | 1 to 4 in. | 30 to 60 days | 10 to 15 doz. | 10 to 12 lbs. | Sept. to April | Mar. to Sept. |
| Rhubarb | 1 in. | 3 ft. | 3 ft. | 60 days | 6 doz. stalks | 3 lbs. | | Early spring |
| Rutabaga | 1/2 3/8 in. | 2 ft. | 6 in. | 90 to 100 days | 50 to 60 roots | 2 to 4 lbs. | Aug. and Sept. | May and June |
| Spinach | 1/2 1/4 in. | 18 in. | 4 in. | 60 days | 50 to 60 plants | 15 to 20 lbs. | Sept. to Feb. | Sept. or very early spring |
| Spinach, N. Zealand | 1 in. | 18 in. | 3 in. | 2 mos. | | | | |
| Squash | 2 1/8 in. | 4 to 6 ft. | 3 to hill | 100 to 120 days | 2 doz. fruits, bushvar. | 4 to 6 lbs. | Spring | April to July |
| Swiss Chard | 1/2 in. | 2 ft. | 12 in. | 90 to 100 days | 20 plants | 6 to 10 ozs. | | |
| Tomato | | 3 to 4 ft. | 3 ft. | 100 to 120 days | 15 to 20 lbs. per plant during season | 2 ozs. | Dec. to Mar. | May to June |
| Turnip | 1/2 1/8 in. | 2 ft. | 4 in. | 60 to 80 days | 60 to 80 roots | 2 to 3 lbs. | Aug. to Oct. | April to Aug. |
| Watermelon | 1/2 in. | 6 ft. | 4 to 6 ft. | 3 to 4 mos. | | | | |

The time requirements for crops to reach edible size varies, of course, according to the seasons and varieties. Different soils also have a profound influence. A tomato, for instance, which in Southern New Jersey will mature in 90 days, may require from 100 to 110 days in sections further north having heavy clay soils. Allowance also must be made for the relative estimate of the yields, due to climatic and soil conditions. But the averages will be found to be fairly accurate on the basis of many years of observation.

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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.

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The A. S. Boyle Co., Jersey City, N. J.

"Ridz Garden Spray"
"Ded Nicotine Spray"

California Spray-Chemical Corp., Richmond, Calif., Elizabeth, N. J.

"Ortho"
"Extrax"
"Greenol"
"Nursery Volck"
"Garden Volck"
"Triox"

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"
"Mechling's Scale Oil"
"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"

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"

| | Disease or Insect | What to Use |
|----------------|-----------------------------|---|
| Apple and Pear | Codling Moth | Black Leaf 40; 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; McCormick Rotenone Dust; Dow; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone; McCormick Rotenone Dust. Calif. Spray Products. |
| | Rust | Copper Solution; Dow; Protex Colloidalized Red Copper Oxide. |
| Aster | Aphis | Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nicotrol; Red Arrow Garden Spray; McCormick Rotenone Dust; Nicotrol; O.K. Plant Spray; One-Spot; Pyroloid; Penetrol; Pyrote; Thrip Juice Spray; Triad; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Colloidalized Sulphur and Rotenone; Protex Rotenone. |
| | 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. |
| | 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. |
| | 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. |
| | Anthracnose, Powdery Mildew | Sulrote; Mechling's Bordeaux Mixture; Mechling's No. 20 Blight Dust; Sulfocide; Dow; Semesan. Calif. Spray Products. |

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PAGE'S Seeds

| | Disease or Insect | What to Use |
|--|--------------------------------------|--|
| Beets | Leaf Spot | Sulrote; Dritomic Wetttable Sulfur; Sulfocide; Dow; Semesan. |
| | 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. |
| Cabbage, Cauliflower, Brussels Sprouts, Turnip | Cabbage Worm | D-X; One-Spot; Penetrol; Pyrote; Slug Shot Dust; Mechling's Arsenate Calcium; Mechling's Rotenone 400; Stabilized Rotenone Dust; Sulrote; Dow; Ridz Garden Spray; Protex Colloidalized Sulphur and Colloidalized Rotenone; McCormick Rotenone Dust; Black Arrow No. 5000; Red Arrow Garden Spray. Calif. Spray Products. |
| 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. |
| | Aphis | Black Leaf 40; D-X; Liquid Slug Shot; Mechling's Nicotine Sulfate; Nico-Fume Liquid; Red Arrow Garden Spray; One-Spot; 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 Bordeaux Mixture; 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. |
| Cherry | 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. 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. |
| | Leaf Hopper | D-X; Mechling's Nicotine Sulfate; One-Spot; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray; McCormick Rotenone Dust. |
| | 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 Wetttable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur; Semesan. |
| Corn—Sweet | Ear Worm | D-X; Mechling's Arsenate of Lead; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead; Red Arrow Garden Spray; McCormick Rotenone Dust. Calif. Spray Products. |
| 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. |
| | 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. |
| | Anthraxnose, Dewy Mildew, Melon Rust | Mechling's Bordeaux Mixture; Sulfocide; Dow; Semesan. Calif. Spray Products. |
| Currant | San Jose Scale | Mechling's Lime Sulfur Solution; Penetrol; Scalecide; Dow; Semesan. |
| | Worm | Black Leaf 40; D-X; Mechling's Rotenone 400; Slug Shot Dust; Dow; Protex Colloidalized Arsenate of Lead; Protex Rotenone. |
| 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. |
| | Beetles | D-X; Mechling's Arsenate of Lead; Mechling's Rotenone 400; Dow; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray. |
| | 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. |
| | Red Spider | D-X; Pyrote; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; McCormick Rotenone Dust; Rotenone Greenhouse Spray. |
| | Leaf Hopper | Mechling's Nicotine Sulfate; Pyrote; Dow; Ridz Garden Spray; Ded Nicotine Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray. |
| | 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 Wetttable Sulfur; Sulfocide; Dow; Protex Colloidalized Sulphur; Semesan. |
| Ferns | Mealy Bug | D-X; Liquid Slug Shot; Nicotrol; One-Spot; Pyrote; Dow; Ridz Garden Spray; Protex Rotenone; Protex Colloidalized Sulphur & Rotenone; Red Arrow Garden Spray. Cyanogas. |
| | 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. |
| | 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. |
| Gooseberry | Mildew | Copper Solution; Dritomic Wetttable Sulfur; Grape & Rose Dust; Sulfocide; Triad; Dow; Semesan. |
| | Worm | D-X and Arsenate of Lead; Slug Shot Dust; Mechling's Rotenone 400; Dow; Protex Rotenone; Protex Colloidalized Arsenate of Lead. |
| 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. |
| | Mildew | Copper Solution; Grape & Rose Dust; Hydroxide; Liquid Slug Shot; Triad; Dow; Semesan. Calif. Spray Products. |
| | Gray Mould | Hydroxide; Dow; Protex Colloidalized Red Copper Oxide; Semesan. |

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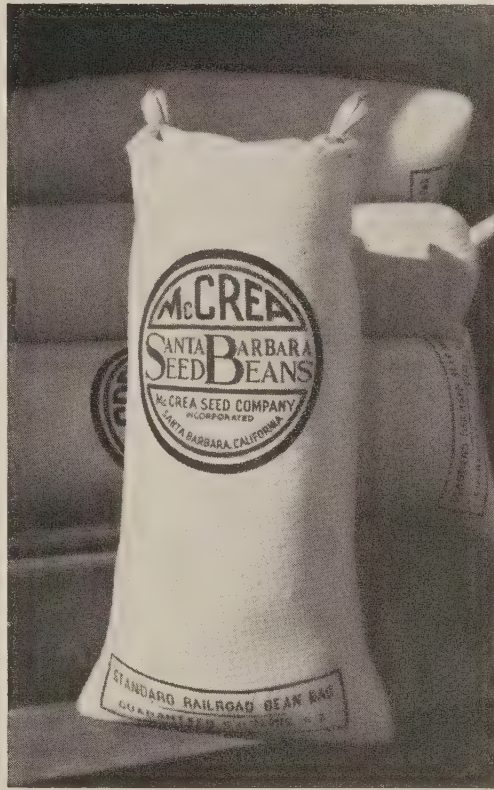
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MATTITUCK, LONG ISLAND, N. Y.

| | 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. |
| 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. |
| Peas | Blight | Copper Solution; Grape & Rose Dust; Mechling's Bordeaux Mixture; Triad; Dow; Semesan. 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. |
| Plum | 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. |
| Potato | Early Blight | Copper Solution; Grape & Rose Dust; Hydroxide; Triad; Dow; Semesan. Calif. Spray Products. |
| | Late Blight | Copper Solution; Grape & Rose Dust; Hydroxide; Dow; Semesan. |
| | Potato Bugs | Hydroxide; Insectogen; Mechling's Paris Green; One-Spot; Penetrol; Slug Shot Dust; Dow; Protex Colloidalized Sulphur & Rotenone. Calif. Spray Products. |
| 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. |
| | 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. |
| | Red Spider | Dritomic Wettable 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. |
| Roses | 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. |
| | Brown Canker Black Spot Mildew | Mechling's Bordeaux Mixture; 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. |
| | 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. |
| | Slugs | D-X; Pyrote; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone; Red Arrow Garden Spray; Black Arrow No. 5000. Calif. Spray Products. |
| | Flea Beetle | D-X; Mechling's Rotenone 400; One-Spot; Slug Shot; Stabilized Rotenone Dust; Dow; Protex Rotenone. Calif. Spray Products. |
| Spinach | Aphids | D-X; Liquid Slug Shot; Nico-Fume Liquid; Nicotrol; One-Spot; Penetrol; Pyrote; Thrip Juice Spray; Dow; Protex Colloidalized Sulphur & Rotenone; Protex Rotenone. |
| | 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. |
| | 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. |
| 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. |
| | Mildew Blight | Mechling's Bordeaux Mixture; Dow; Semesan. Calif. Spray Products. |
| Tomato | Anthracnose | Mechling's Bordeaux Mixture; Thrip Juice; Dow; Semesan. |
| | Flea Beetle | Mechling's Bordeaux Mixture; Dow; Protex Colloidalized Red Copper Oxide; McCormick Rotenone Dust. Calif. Spray Products. |
| | Horn Worm | D-X and Arsenate of Lead; Mechling's Arsenate Lead; Dow; Protex Colloidalized Arsenate of Lead. Calif. Spray Products. |
| | Leaf Spot | Copper Solution; Mechling's Bordeaux Mixture; 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. |
| 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. |
| | Anthracnose | Liquid Slug Shot; Mechling's Bordeaux Mixture; Thrip Juice; Dow; Semesan. Calif. Spray Products. |



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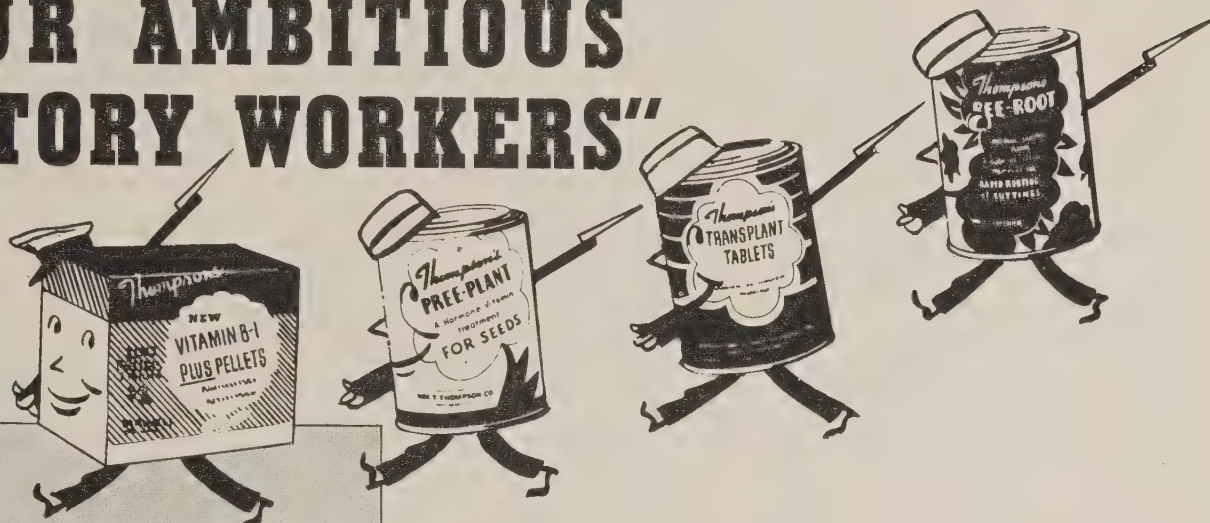
FIELD AND GRASS SEED INFORMATION

This information is made possible through the courtesy of Joe Bohl, Manager, The Chas. H. Lilly Co., Seattle, Washington, who has spent much time in its gathering and assembly.

| CROP | Botanical Name | Principal Uses | Average Height Inches | Soil Adaptations | Life | General Information |
|------------------------------|--|----------------------------------|-----------------------|---------------------------------------|-------------------------|--|
| ALFALFA | Medicago sativa | Seed, Hay, Pasture | 20 to 30 | Fertile, deep, well drained loam | Long-lived perennial | Best if seeded without nurse crop. Needs firm, fine seedbed. Cut for hay when 1/4 to 1/2 in bloom. Keep free of weeds. |
| ARTICHOKES, Jerusalem | Helianthus tuberosus | Winter succulence | 72 to 96 | Fertile bottom lands | Annual | Plant during April or early May, 5 inches deep in rows 36 to 42 inches apart, with plants 18 to 24 inches apart. |
| BENT GRASSES— | | | | | | |
| ASTORIA | Agrostis tenuis, Astoriana | Seed, Lawn, Pasture | 16 to 24 | Moist, fertile, heavy soils | Long-lived perennial | More versatile than Seaside Bent. Thrives better on uplands but must have firm soil and abundant moisture |
| DOMESTIC Mixed | Agrostis spp. | Lawn, Pasture | 16 to 20 | Moist, fertile, heavy soils | Long-lived perennial | Best of the Bents for farm use. Adapted to varied soil conditions and cheapest in price. |
| HIGHLAND | Agrostis tenuis, Oregonensis | Seed, Lawn, Pasture | 10 to 18 | Widely adapted | Long-lived perennial | Grows well on poor, thin soil. Withstands long periods of water submersion and drought. |
| COLONIAL (Rhode Island) | Agrostis tenuis | Lawn, Pasture | 16 to 24 | Moist, heavy, slightly acid soils | Long-lived perennial | Does not spread by rootstalks like other Bents. Good in mixtures—makes early and late growth. |
| SEASIDE | Agrostis maritima | Seed, Lawn, Pasture | 12 to 20 | Moist bottom lands, slightly acid | Long-lived perennial | Adapted to pasture mixtures on moist, slightly acid lands. Suffers greatly from drought. |
| BLUEGRASSES— | | | | | | |
| BULBOUS | Poa bulbosa | Winter Pasture, Hay, Seed | 8 to 16 | Fertile, well-drained lands | | Grows during winter and early spring. Dormant in summer. Grows well with Alfalfa; used mostly on shallow rocky soil. |
| CANADA | Poa compressa | Pasture | 12 to 20 | Widely adapted | Long-lived perennial | Withstands drought, cold and close grazing. Thrives at high altitudes and on poor soils. Makes dense low growth. |
| KENTUCKY | Poa pratensis | Seed, Lawn, Pasture | 18 to 30 | Fertile, moist soils of low acidity | Long-lived perennial | Very nutritious. Relished by all livestock. Improves with age on suitable soils. |
| SHADY (Wood Meadow Grass) | Poa nemoralis | Shady Lawns, Shady Pasture | 18 to 24 | Fertile, moist, shaded soils | Long-lived perennial | Does not endure intense sunshine and drought. Thrives best on shaded or semi-shaded lands. |
| SHADY (Rough-Stalked Meadow) | Poa trivialis | Shady Lawns, Shady Pasture | 18 to 24 | Fertile, moist, shaded soils | Long-lived perennial | Does not endure intense sunshine and drought. Thrives best on shaded lands that are moist and fertile. |
| BROMEGRASS, Smooth | Bromus inermis | Hay, Pasture | 20 to 30 | Deep clay or clay loam | Long-lived perennial | Adapted to regions of light rainfall. Roots penetrate 5 to 6 feet. Not adapted to coast region. |
| BUCKWHEAT | Fagopyrum esculentum | Seed, Green Manure | 24 to 36 | Wide adaptation | Annual | Good green manure crop. Sometimes used as smother crop for weeds. Good catch crop and bee pasture. |
| CEREALS— | | | | | | |
| BARLEY, Winter | Hordeum vulgare, 8 row Hordeum distichon, 2 row | Seed, Hay | 30 to 40 | Loams and clays | Winter Annual | Grown mainly as a grain crop. Used for feed and malting. Best nurse crop for starting red clover. |
| BARLEY, Spring | Hordeum vulgare, 6 row Hordeum distichon, 2 row | Seed, Hay | 30 to 40 | Loams and clays | Annual | Grown mainly as a grain crop. Used for feed and malting. The beardless varieties make good hay. |
| OATS, Winter | Avena sativa | Seed, Hay | 30 to 60 | Moist clay loams | Winter Annual | Grown for grain and companion crop for vining legumes. Good yielder for forage and grain. |
| OATS, Spring | Avena sativa Avena byzantina, Red | Seed, Hay | 30 to 60 | Moist clay loams | Annual | Grown for grain, forage and companion crop. Good yielder. |
| RYE, Winter | Secale cereale | Seed, Hay, Pasture | 36 to 72 | Moderate drainage, wide adaptation | Winter Annual | Best grain and forage crop for light dry soils. Lodges badly on fertile moist soils. |
| RYE, Spring | Secale cereale | Seed, Hay, Pasture | 36 to 60 | Moderate drainage, wide adaptation | Annual | Best grain and forage crop for light dry soils. Lodges badly on fertile moist soils. |
| WHEAT, Winter | Triticum vulgare, common Triticum compactum, club | Seed, Hay | 36 to 60 | Bench and bottom lands | Winter Annual | Standard grain crop for fertile lands. Used as a hay crop in some areas, but most profitable as a grain crop. |
| WHEAT, Spring | Triticum vulgare, common Triticum compactum, club | Seed, Hay | 36 to 60 | Bench and bottom lands | Annual | Standard grain crop for fertile lands. Used as a hay crop in some areas, but most profitable as a grain crop. |
| CHEAT OR CHESS | Bromus secalinus | Seed, Hay | 24 to 48 | Poor lowlands, waste places | Winter Annual | Makes good horse hay on wet acid soils. Sometimes smuts badly. |
| CLOVERS— | | | | | | |
| ALSIKE | Trifolium hybridum | Seed, Hay | 18 to 30 | Fertile, acid lowlands | Short-lived perennial | Thrives best where cool and moist. Endures poor drainage. Medium long-lived on suitable soil. |
| LADINO | Trifolium repens latum | Seed, Pasture | 10 to 14 | Moist, fertile soils | Short-lived perennial | Shallow rooted. Requires abundant moisture and fertility in surface soil. Very close grazing is injurious. |
| WHITE | Trifolium repens | Seed, Pasture | 4 to 8 | Moist, fertile soils | Short-lived perennial | A good pasture plant, especially in mixtures. Long season and long-lived on fertile, moist soil. |
| RED | Trifolium pratense | Seed, Hay, Pasture | 20 to 28 | Well drained, fertile soils | Short-lived perennial | Widely grown legume for forage and seed. Adapted to short rotations. Requires an abundance of lime. |
| MAMMOTH RED | Trifolium pratense | Hay, Pasture | 24 to 48 | Fertile uplands, moderately moist | Biennial | Two weeks later than medium red clover. Produces but one crop. Heavy yielder of coarse forage. |
| SWEET, Yellow | Melilotus officinalis | Hay, Pasture, Green Manure | 24 to 48 | Light to medium soils of low acidity | Biennial | Better adapted to pasture than white blossom sweet Clover. Does not thrive on acid soils. |
| SWEET, White | Melilotus alba | Seed, Pasture, Hay, Green Manure | 48 to 84 | Light to medium soils of low acidity | Biennial | Firm seed bed required. Quite tolerant of Alkali. More drought resistant than alfalfa. |
| CRIMSON | Trifolium incarnatum | Seed, Green Manure | 24 to 48 | Well drained, fertile soils | Biennial | A good soil improver. Seed shatters easily and careful harvesting is necessary. Makes good summer pasture. |
| STRAWBERRY | Trifolium fragiferum | Alkali Pastures | 4 to 8 | Moist alkali soils | Long-lived perennial | Most alkali tolerant of all legumes. Makes creeping growth. Adapted only where moisture is abundant. |
| CORN, Field | Zea mays | Silage, Grain, Green Feed | 72 to 96 | Fertile loams or clays, well drained | Annual | Successful only as cultivated crop. Good silage. Early maturing varieties for Pacific Northwest. |
| CRESTED DOGS-TAIL | Cynosurus cristatus | Pasture | 10 to 18 | Cool, moist, fertile soils | Long-lived perennial | Unimportant as a general farm grass. Adapted to shady places. Used some in shady lawns. |
| CRESTED WHEAT-GRASS | Agropyron cristatum | Seed, Pasture | 16 to 30 | Dry lands | Long-lived perennial | Excellent dry land grass for arid regions. A heavy seed producer. |
| FESCUES— | | | | | | |
| CHEWING'S | Festuca rubra fallax | Seed, Lawn, Pasture | 12 to 20 | Well drained, fertile benches | Long-lived perennial | Very fine leaved, makes dense bottom growth—good lawn grass. Quite drought resistant. |
| CREEPING RED | Festuca rubra | Lawn, Pasture | 8 to 16 | Well drained, fertile benches | Long-lived perennial | Adapted to lawn and pasture use on shady, moist soils of abundant fertility. |
| MEADOW | Festuca elatior pratensis | Hay, Pasture | 24 to 36 | Moist meadowlands | Short-lived perennial | Starts in early spring and persists until late fall. Cold resistant. |
| TALL | Festuca elatior | Seed, Hay, Pasture | 24 to 40 | Wide soil adaptation | Long-lived perennial | Grows from early spring to late fall. Particularly good for summer pasture. |
| FLAX, Fiber | Linum usitatissimum | Fiber | 24 to 36 | Fertile clay loams | Annual | Requires clean land—its sparse leaf growth does not check weeds. Grown for fiber and seed. |
| FLAX, Seed | Linum usitatissimum | Seed | 18 to 30 | Fertile clay loams | Annual | Requires clean, weed-free land. Grown for seed only. |
| KALE, 1000 Headed | Brassica oleracea acephala | Winter succulence | 20 to 30 | Fertile loams | Biennial | Start plants in seed bed. Transplant in early June. Ready for feeding after August 15th. Winter hardy. |
| MEADOW FOXTAIL | Alopecurus pratensis | Seed Pasture | 15 to 30 | Low, poorly drained lands | Long-lived perennial | Excellent pasture on periodically submerged lands. Seed hand stripped—ripens unevenly and shatters readily. |
| MILLETS— | | | | | | |
| FOXTAIL | Chaetochloa italica | Hay, Seed | 18 to 24 | Warm, fertile loams | Annual | Best Millet for hay. Matures in 75 to 90 days. Best if cut before seed matures. Plant when soils warm. |
| JAPANESE | Echinochloa frumentacea | Pasture, Green Feed | 30 to 48 | Loams and shot clays in coastal areas | Annual | Especially adapted to the coastal fog belt. Yields large tonnage of green feed. Difficult to cure for hay. |
| PROSO or HOG | Panicum miliaceum | Seed, Green Feed | 18 to 36 | Warm loam soils | Annual | Seed when soil is warm. Rapid grower—matures in 70 to 90 days. Yields heavy seed crop. |
| ORCHARD GRASS | Dactylis glomerata | Seed, Hay, Pasture | 30 to 42 | Well drained soils | Long-lived perennial | Grows well in shade. Early spring grower. Requires good drainage. Withstands dry summers. |
| PEAS, FIELD— | | | | | | |
| WINTER, Austrian | Pisum arvense | Seed, Hay, Silage | 36 to 54 | Clay loams and bottom lands | Winter Annual | Best adapted for fall planting. Grown chiefly as a seed crop for shipment to the South. |
| SPRING, Canada | Pisum arvense | Seed, Hay, Pasture, Silage | 24 to 48 | Well drained clay and loam soil | Annual | Suited to many heavy soils which are well supplied with moisture. A good cash crop. |
| MARROWFAT | Pisum arvense | Seed, Hay, Pasture, Silage | 30 to 48 | Clay and loams | Annual or Winter Annual | Should be planted during the fall or winter on heavier soils having good drainage. |

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| CROP | Botanical Name | Principal Uses | Average Height Inches | Soil Adaptations | Life | General Information |
|--------------------------|-----------------------|-------------------------------|-----------------------|---------------------------------------|-----------------------------------|--|
| RAPE | Brassica napus | Seed, Pasture | 6 to 12 | Fertile loams and bottoms | Biennial | Good pasture for hogs and sheep. A dependable source of midsummer green feed in many districts. |
| REDTOP | Agrostis alba | Hay, Pasture | 20 to 30 | Wet lands | Long-lived perennial | Most widely adapted of tame grasses. Thrives on wet acid lands. Good in mixtures. |
| REED CANARY GRASS | Phalaris arundinacea | Seed, Hay, Pasture | 48 to 80 | Swampy or bottom lands | Long-lived perennial | Not adapted to mixtures. Suitable for permanent pasture on wet lands. Develops heavy seed. |
| ROOT CROPS— | | | | | | |
| CARROTS | Daucus carota | Winter succulence | | Fertile, moist bottom lands | Biennial | Yields less than other common root crops. Keeps well in storage, can be left in the ground until late in the fall. |
| MANGELS | Beta vulgaris | Winter succulence | | Fertile, moist bottom lands | Biennial | Heavy yields, especially after liberal manuring. Keeps well in storage. Must be taken up before frost. |
| RUTABAGAS | Brassica campestris | Winter succulence | | Fertile, moist bottom lands | Biennial | Higher yielder than mangels. Adapted to coast regions. Manure increases yield. Good for storage. |
| TURNIPS | Brassica rapa | Winter succulence | | Fertile, moist bottom lands | Biennial | Highest yielder of all common root crops. For fall feeding. Does not keep well in storage. |
| RYE-GRASSES— | | | | | | |
| DOMESTIC, Oregon | Lolium multiflorum | Seed, Hay, Pasture | 18 to 36 | Low lands, poor drainage | Winter Annual | A rapid growing forage crop. Good for spring pasture and seed. |
| ITALIAN | Lolium multiflorum | Seed, Hay, Pasture | 18 to 36 | Low lands, poor drainage | Biennial or Short-lived perennial | Fall planted—makes heavy forage growth and recovers rapidly after cutting. |
| PACEY'S | Lolium perenne | Lawn, Hay, Pasture | 15 to 20 | Low lands, poor drainage | Short-lived perennial | Little used on farms, but important in some sections for winter lawns. |
| PERENNIAL, English | Lolium perenne | Seed, Hay, Pasture | 15 to 24 | Low lands, poor drainage | Short-lived perennial | Longest-lived of rye grasses, and better suited to use in hay and pasture mixtures. |
| SORGHUM | Andropogon sorghum | Fodder, Green Feed | 48 to 72 | Warm, deep, fertile loams | Annual | Requires warm soil and warm growing season. Row culture necessary in Pacific Northwest. |
| SOYBEAN | Soja max | Seed, Hay, Green Feed | 12 to 48 | Warm, fertile loams | Annual | Not suited to the coast regions, but a satisfactory crop on some warm, fertile soils. |
| SUDAN GRASS | Andropogon sudanensis | Hay, Pasture | 36 to 80 | Warm clay loams | Annual | Thrives best if planted when the soil is warm. Reaches hay stage in 75 to 80 days. Good yielder. |
| SULLA | Hedysarum coronarium | Green Feed | 20 to 30 | Well drained soils | Perennial | Adaptability not yet fully determined. Plant as soon as frost danger is over. |
| SUNFLOWER | Helianthus annuus | Silage, Green Feed | 72 to 96 | Clay loams | Annual | Chiefly a silage crop. Endures more cold than corn. Thrives on the Coast. Seeded early in May. |
| SWEET VERNAL GRASS | Anthoxanthum odoratum | Hill-land Pasture | 12 to 24 | Well drained uplands | Perennial | Starts growth early in spring—makes tough sod. Thrives in the shade of brush and ferns. |
| TALL MEADOW OAT-GRASS | Arrhenatherum elatius | Seed, Hay, Pasture | 36 to 60 | Fertile, well drained uplands | Long-lived perennial | Does not endure shade. Makes good early and late pasture. Cut early for good quality hay. |
| TIMOTHY | Phleum pratense | Seed, Hay, Pasture | 30 to 48 | Fertile, moist, medium to heavy soils | Short-lived perennial | Well adapted to use in pasture and meadow mixtures. Responds well to fertilizer. |
| VELVET GRASS or MESQUITE | Holcus lanatus | Seed, Hay, Pasture | 20 to 36 | Wide adaptation | Perennial | Recommended only for soils too light for better grasses. |
| VETCHES— | | | | | | |
| COMMON or GRAY | Vicia sativa | Seed, Silage, Hay, Green Feed | 36 to 60 | Well drained, fertile loams | Winter Annual | A spring vetch but commonly fall seeded in Pacific Northwest. Best to seed with grain for support. |
| HAIRY or WINTER | Vicia villosa | Green Manure, Seed, Pasture | 36 to 60 | Wide adaptation, needs good drainage | Winter Annual | Very winter-hardy. Seed shatters readily when ripe. |
| HUNGARIAN | Vicia pannonica | Green Manure, Hay, Seed | 30 to 40 | Medium wet, acid soils | Winter Annual | Less viny than common vetch. Greater winter-hardiness and aphid resistance, suited to poorly drained soils. |
| PURPLE | Vicia atropurpurea | Seed, Green Manure | 24 to 48 | Well drained clays or loams | Annual | Lacks winter hardiness. Often spring seeded. Makes heavy growth during cool early spring weather. |
| HAY MIXTURES | | Hay | 20 to 40 | Fertile clays, loams and bottom lands | Mostly perennials | Mixtures make good farm hay. Adapted to varied soils and climates. |
| PASTURE MIXTURES | | Pasture | 6 to 30 | Widely adapted | Mostly perennials | Especially desirable on new clearings and logged-off land |

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VEGETABLE SEED GERMINATION STANDARDS — MINIMUM PERCENTAGE

| | Ala. 1942 | Ariz. 1941 | Fed Seed, Act # Interstate Regulation | Fla. 1941 | Ga. ^D 1942 | Ill. 1942 | Mass. [§] 1942 | Mich. 1942 | Mo. ^o 1942 | N. C. 1941 | Ohio 1940 | Ore. [†] 1939 | S. C. 1940 | S. D. 1941 | Texas [®] 1941 | Va. 1940 | Wash. 1941 | W. Va. [♦] 1941 | Wis. 1941 | Can. [‡] 1938 |
|----------------------------|--------------|---------------|--|--------------|--------------------------|--------------|----------------------------|---------------|--------------------------|---------------|--------------|---------------------------|---------------|---------------|----------------------------|-------------|---------------|-----------------------------|--------------|---------------------------|
| Artichoke..... | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 75 |
| Asparagus..... | *70 | *70 | *70 | *70 | *70 | *70 | *70 | 70 | *70 | *70 | *70 | 70 | *70 | 70 | 70 | 70 | 70 | 70 | 70 | 75 |
| Bean..... | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 85 | 80 | 80 | 80 | 80 | 80 |
| Bean, Large Lima..... | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 80 |
| Bean, Small Lima..... | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 75 | 70 | 70 | 70 | 80 | 75 | 70 | 80 | 80 | 70 | 70 | 70 | 80 |
| Bean, Fordhook..... | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| Beet..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Broccoli..... | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 75 |
| Brussels Sprout..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Cabbage..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Caraway..... | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| Carrot..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Cauliflower..... | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 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 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| Celery..... | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 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 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| Celery..... | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 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 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| Chicory..... | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| Citron..... | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 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 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Corn, Sweet..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Corn, Sweet..... | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| Cress, Upland..... | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 30 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Cress, Water..... | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Cucumber..... | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| Dandelion..... | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Dill..... | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Eggplant..... | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Endive..... | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Fetticus (Corn Salad)..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Kale..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Kohl Rabi..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 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 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Lettuce..... | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 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 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Melon, Honey Dew..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Melon, Water..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Mustard..... | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Okra..... | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Onion..... | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Parsley..... | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Parsnip..... | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Pea..... | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| Pepper..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Pumpkin..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 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 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Rhubarb..... | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 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 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Sage..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Salsify..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Savory..... | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Sorrel..... | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Spinach..... | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| Spinach, New Zealand..... | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Squash..... | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Tomato..... | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Tomato, Husk..... | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Turnip..... | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |

‡Canada—Chervil 75%, Chives 75%, Mangel 65%, Sage 55%, Savory 55%, Vegetable Marrow 75%.

□Georgia—Cardoon 60%.

*Federal Seed Act—Chinese Cabbage 75%, Pak-choi 75%, Spinach Mustard 75%, Vegetable Mustard 75%.

§Massachusetts—Chinese Cabbage 75%.

°Missouri Pak-choi 75%, Chinese Cabbage 75%, Spinach Mustard 75%, Vegetable Mustard 75%.

†Oregon—Celery Cabbage 75%.

®Texas—Sweet Fennel 60%.

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

*Including Hard Seeds.

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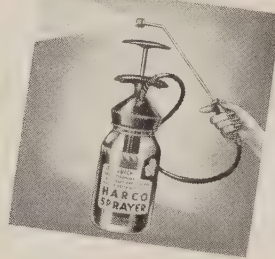
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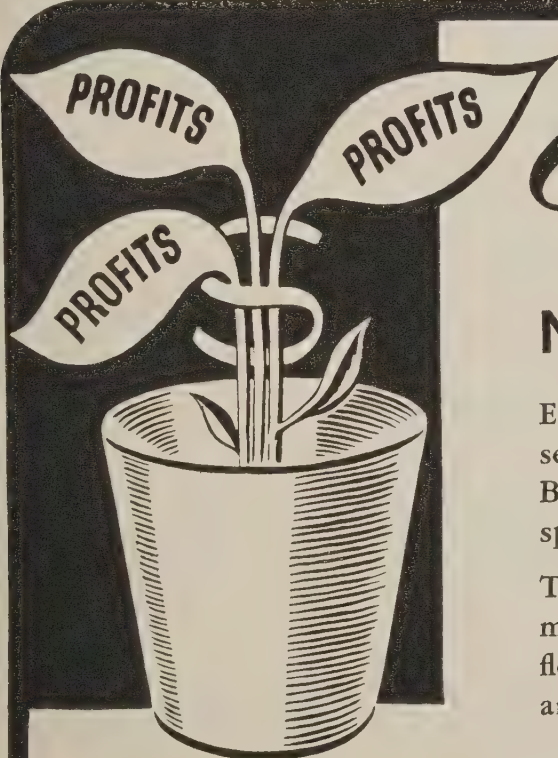
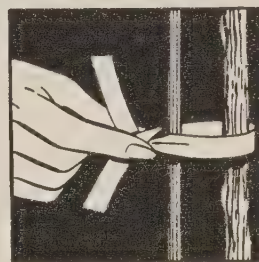


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BIRD & SON, inc.

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EAST WALPOLE, MASS.

Seed Germination Table

Prepared by Agricultural Marketing 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 |
|--|------------------------|-------------|-------------|-------------|--|---|------------------------|-------------|-------------|-------------|--|
| Alfalfa— <i>Medicago sativa</i> | B, S | ° C. 20 | Days 3 | Days 7 | | Millet: | | ° C. | Days | Days | |
| 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 carypsids 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 crus-galli 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>Dactylis glomerata</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, P | 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 | 11 | 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>Altyscarpus vaginatis</i> | B | 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 sudanese</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 reuipatum</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 | | Common— <i>Vicia sativa</i> | T | 20 | 3 | 10 | |
| Sour— <i>Melilotus indica</i> | B | 20 | 3 | 14 | | Hairy— <i>Vicia villosa</i> | T | 20 | 3 | 14 | |
| Strawberry— <i>Trifolium fragiferum</i> | B | 20 | 3 | 7 | | Hungarian— <i>Vicia pannonica</i> | T | 20 | 3 | 10 | |
| Subterranean— <i>Trifolium subterraneum</i> | B | 20 | 4 | 14 | Fresh seed 15° C. | Monantha— <i>Vicia monantha</i> | T | 20 | 3 | 10 | |
| Suckling— <i>Trifolium dubium</i> | B | 20 | 4 | 14 | | Narrowleaf— <i>Vicia angustifolia</i> | T | 20 | 4 | 14 | |
| Sweet— <i>Melilotus alba</i> and <i>Melilotus officinalis</i> | S, B | 20 | 3 | 7 | | Purple— <i>Vicia atropurpurea</i> | T | 20 | 3 | 10 | |
| White— <i>Trifolium repens</i> | B, S | 20 | 3 | 10 | | Woolypod— <i>Vicia dasycarpa</i> | T | 20 | 4 | 14 | |
| Cotton— <i>Gossypium hirsutum</i> | T, S | 20-30 | 4 | 12 | "Prewet" seed on test. ² | Wheat: | | | | | |
| Cowpeas— <i>Vigna sinensis</i> | R, S | 20-30 | 5 | 8 | Watch for weevil injury to plumule. | 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, field— <i>Zea mays</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. |
| Corn, pop— <i>Zea mays everta</i> | R, S | 20-30 | 4 | 7 | | Wheatgrass: | | | | | |
| Crested dogtail— <i>Cynosurus cristatus</i> | P | 20-30 | 10 | 21 | Light; fresh seed prechill for 3 days at 5° or 10° C. | Crested— <i>Agropyron cristatum</i> | P, TB | 20-30 | 5 | 14 | Light; fresh seed 15° C. |
| Crotalaria— <i>Crotalaria intermedia</i> and <i>C. spectabilis</i> | B, S | 20-30 | 3 | 10 | | Slender— <i>Agropyron pauciflorum</i> | P, TB | 20-30 | 5 | 14 | Light. |
| Dallis grass— <i>Paspalum dilatatum</i> | P | 20-35 | 7 | 21 | Light; fresh seed potassium nitrate. | VEGETABLES | | | | | |
| Fescue: | | | | | | Artichoke— <i>Cynara scolymus</i> | T | 20-30 | 7 | 21 | |
| Hair— <i>Festuca capillata</i> | P | 10-25 | 10 | 28 | Potassium nitrate. | Asparagus— <i>Asparagus officinalis</i> | T | 20-30 | 7 | 21 | |
| Meadow— <i>Festuca elatior</i> | P | 20-30 | 5 | 14 | | Beans: | | | | | |
| Other fescues..... | P | 15-25 | 7 | 21 | | Garden— <i>Phaseolus vulgaris</i> | R, S | 20-30 | 5 | 8 | Watch for "baldhead" and other injuries. |
| Flax— <i>Linum usitatissimum</i> | T, B | 20-30 | 3 | 7 | | Horse or broad— <i>Vicia faba</i> | S | 20 | 4 | 10 | |
| Guinea grass— <i>Panicum maximum</i> | P | 20-30 | 10 | 28 | | Lima— <i>Phaseolus lunatus</i> | R, S | 20-30 | 5 | 9 | Watch for "baldhead" and other injuries. |
| Hemp— <i>Cannabis sativa</i> | B | 20-30 | 3 | 7 | | 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. |
| Kudzu— <i>Pueraria thunbergiana</i> | T | 20-30 | 5 | 14 | | Brassica oleracea varieties: Cabbage, collards, kale, brussels sprouts, cauliflower, broccolis, and kohlrabi. | B | 20-30 | 3 | 10 | |
| Lespedeza: | | | | | | Carrot— <i>Daucus carota</i> | B | 20-30 | 6 | 28 | |
| Chinese— <i>Lespedeza sericea</i> | B, S | 20-35 | 7 | 28 | | Celeriac— <i>Apium graveolens</i> , var. <i>rapaceum</i> | P, TB | 20-30 | 10 | 21 | Light. |
| Common— <i>Lespedeza striata</i> | B | 20-35 | 7 | 14 | | Celery— <i>Celeri graveolens</i> var. <i>dulce</i> | B, TB | 20-30 | 10 | 21 | Light |
| Korean— <i>Lespedeza stipulacea</i> | B | 20-35 | 5 | 14 | | Chicory— <i>Cichorium intybus</i> | P, TB | 20-30 | 5 | 14 | Light; potassium nitrate or soil. |
| Lupine— <i>Lupinus alba</i> | B, T | 20 | 3 | 7 | | Citron— <i>Citrullus vulgaris</i> | T | 20-30 | 7 | 14 | |
| Lupine— <i>Lupinus luteus</i> | B, T | 20 | 7 | 21 | | Corn, sweet— <i>Zea mays</i> | R, S | 20-30 | 4 | 7 | |
| Meadow foxtail— <i>Alopecurus pratensis</i> | P | 20-30 | 7 | 14 | Light. | Corn salad— <i>Fetticus—Valerianella locusta</i> var. <i>olitaria</i> | B | 20 | 7 | 28 | Fresh seed 10° or 15° C. |
| Medick, black— <i>Medicago lupulina</i> | B, S | 20 | 3 | 7 | | 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>Leonotodon taraxacum</i> | T, B | 20 | 7 | 21 | |
| | | | | | | Eggplant— <i>Solanum melongena</i> var. <i>esculentum</i> | T, B | 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 ¹ | Temperature | First count | Final count | Remarks |
|---|------------------------|--------------|-------------|-------------|--|
| Endive— <i>Cichorium endivia</i> | P, TS | °C. 20-30 | Days 5 | Days 14 | Light; potassium nitrate 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 sativa</i> | B | 20-30 | 6 | 28 | Light |
| Peas, garden— <i>Pisum sativum</i> | R, S | 20 | 5 | 8 | |
| Pepper— <i>Capiscum 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 rhaponticum</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 | |
| Spinach: Common— <i>Spinacea oleracea</i> | TB | 10 | 7 | 21 | Not too wet. |
| New Zealand— <i>Tetragonia expansa</i> | TS | 20-30 | 5 | 28 | |
| Squash— <i>Cucurbita sp.</i> | T, S | 20-30 | 4 | 7 | Light. |
| Tomato: Common— <i>Lycopersicon esculentum</i> | B | 20-30 | 5 | 14 | |
| Husk— <i>Physalis pubescens</i> | P, TB | 20-30 | 7 | 28 | Light. |
| Turnip— <i>Brassica rapa</i> | B | 20-30 | 3 | 7 | |
| Watermelon— <i>Citrullus vulgaris</i> | T, S | 20-30 | 4 | 14 | |

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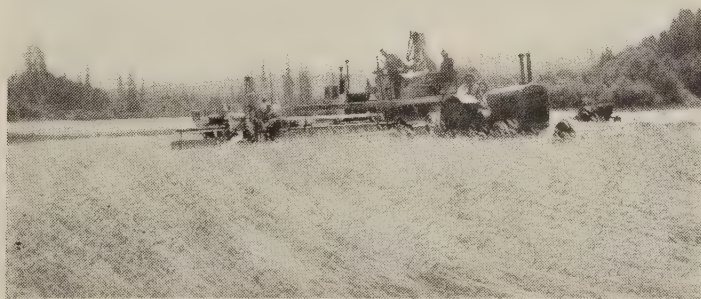
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State Seed Laws

Compiled by L. J. La Pine
Seed Analyst

January, 1943

SEED WORLD and SEED TRADE BUYERS GUIDE wish to acknowledge the work of Miss Macy Spracher, Seed Analyst for Northrup, King & Co., Minneapolis, for her outstanding work in this department in previous editions of the Guide. Much of her work is retained in this compilation of the Seed Laws and to her we give full credit for the arrangement in this as well as all former volumes. Ed.

Grouping of Agricultural Seeds for Noxious Weed Labelling

GROUP A

a. In excess of one seed in each 5 grams of timothy, redtop, 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 1940—Rules and Regulations 1942

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(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 2½%, Dallis and Carpet grass 5%.
6. Percentage of other crop seed (regulation).
7. Percentage of inert matter (regulation).
8. Name and number per pound of each noxious weed seeds present singly or collectively in excess of—
 - (a) One in 5 grams (see page 106, group A.)
 - (b) One in 25 grams.
 - (c) One in 100 grams.
9. Percentage of—
 - (a) Germination.
 - (b) Hard seeds. (Regulation.)
 - (c) Month and year of test. Date of test not over 180 days prior to date of sale.
10. Where grown.
11. Full name and address of person responsible for label.

(B) Mixtures of Field Seeds. Every lot of 5 pounds or more (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 2½%, Dallis and Carpet grass 5%.
6. Percentage of other crop (regulation).
7. Percentage of inert matter (regulation).
8. Name and number per pound of each noxious weed seeds present singly or collectively 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.
 - (b) Percentage of hard seeds. (Regulation.)
 - (c) Month and year of test. Date of test not over 180 days prior to date of sale.
10. Where grown.
11. Full name and address of person responsible for label.

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

1. That such seed is a mixture.
2. Net weight.
3. Lot number (regulation).

(D) Vegetable Seeds included as agricultural seed; therefore each lot of 5 pounds or more is to be labeled as agricultural seed under "A." By regulation the Department of Agriculture asks for the following labeling:

- (a) Packet seeds of less than 8 ounces shall bear a statement showing:

- (1) Name of kind and variety of seed.
- (2) For seed which germinates less than the standard last established by the Association of Official Seed Analysts. See standards, page 102.

(I) Percentage of germination exclusive of hard seeds.

(II) Percentage of hard seed if present.

(III) The calendar month and year the test was completed to determine such percentage.

(IV) The words "Below Standard."

- (3) Name and address of person responsible for the information given.
- (b) Packet or package seed of 8 ounces and over and less than 5 pounds shall bear a statement showing:
 - (1) Name of kind and variety of seed.
 - (2) Percentage of germination, exclusive of hard seed.
 - (3) Percentage of hard seed if present.
 - (4) The calendar month and year the test was completed to determine such percentages.
 - (5) Name and address of party responsible for the information given.

PROHIBITS THE SELLING OR GIVING AWAY FOR PLANTING PURPOSES SEED—

1. Containing 2½% of weed seeds. Domestically grown Dallis and Carpet grass, 5% of common weeds (until July 1, 1943).
2. Containing 300 primary or 800 secondary noxious weed seeds per pound.
3. Excessively low in germination.
4. With germination date over 180 days old.
5. Mislabeled seed whose variety is unadapted and unsuited for seeding purposes in Alabama.
6. 800 seeds of Johnson grass will be permitted in Dallis grass until July 1, 1943; however, when more than 300 are present the tag shall bear the statement "Excessive Johnson Grass" in red ink.

NOXIOUS WEEDS PRIMARY NOXIOUS

- Bermuda grass (*Cynodon dactylon*)
- Bindweed (*Convolvulus arvensis*).
- Dodders (*Cuscuta* spp.).
- Garlic, wild (*Allium vineale*).
- Johnson-grass (*Sorghum halepense*).
- Nutgrass (*Cyperus rotundus*).
- Onion, Wild (*Allium canadense*).
- Sheep-sorrel (*Rumex acetosella*).

SECONDARY NOXIOUS

- Buckhorn (*Plantago lanceolata*).
- Cheat or chess (*Bromus secalinus*).
- Corncockle (*Agrostemma githago*).
- Darnel grass (*Lolium temulentum*).
- Dock, Broadleaf (*Rumex obtusifolius*).
- Dock, Curled (*Rumex crispus*).
- Plantain, Bracted (*Plantago aristata*).
- Quackgrass (*Agropyron repens*).
- Thistle, Canada (*Cirsium arvense*).

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.
Tests—Any citizen of Alabama may submit samples for test. No charge will be made for the first \$3.00 worth of service, all over that will be charged as prescribed in the Rules and Regulations. Farmers' samples will be accepted during the intervals beginning May 15 and ending August 15, and beginning November 15 and ending December 15.

ENFORCEMENT

Under State Board of Agriculture.

- (a) Notice of shipment of agricultural seeds, field and vegetable, shall be mailed to the Commissioner of Agriculture and Industry within 24 hours of 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.

REGULATIONS

Size of analysis tag shall be 4¾ x 2¾ inches, or equivalent in square inches.

All information required on 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.

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.

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

This regulation is abrogated until July 1, 1943.

Ryegrass, Vetches, mixtures of Vetches or Peas, Austrian Peas, Cotton Seed and Cro-talaria—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.

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 and (4) the name of the truck driver and truck line making the delivery.

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.

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%.

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 Alabama unless the party selling shall have registered with the Alabama Department of Agriculture Seed Laboratory the lot number, variety and kind, name and address of the grower, and the history of the seed.

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.

False wild oats will be considered weeds.

Only the analysis tag and a tag showing that the seeds have been treated with poison will be allowed, and both must be attached by the same fastener.

Agricultural seed containing primary noxious weed seeds in excess of 200 per pound shall be labeled in red ink in not less than 12 point type, "EXCESSIVE NOXIOUS WEEDS."

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—*Cir-*

sium arvense; Leafy spurge—Euphorbia esula; Hoary cress—Lepidium draba, L. repens, Hymenophyllum pubescens; Horsenettle—Solanum eleagnifolium, 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; Dodders—Cuscuta spp.; Ragweeds—Franseria tenuifolia, F. discolor, Ambrosia psilostachya; Poverty weed—Iva axillaris; Alkali mallow—Sida hederaceae; 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 viola-

tion 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.

DEED LABORATORY

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

FEES 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 June 30, 1940

INFORMATION REQUIRED ON ARKANSAS PERMIT TAG

(A) Agricultural Seeds—Each Bag.*

1. Kind of seed.
2. Lot number.
3. Percentage of pure seed.
4. Percentage of weed seed.
5. Name and numbers of noxious weed seeds present per pound or, if not present, a statement to that effect.
6. Percentage of:
 - (a) Germination exclusive of hard seed.
 - (b) Hard seed.
 - (c) Date of test. Made not more than 6 months previously.
7. Percentage of hard seeds if present.
8. State in which grown; if unknown, so state.
9. Seedsman's or vendor's name and address.

(B) Mixtures.*

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.

NOXIOUS WEEDS

Dodder—Cuscuta spp.; Buckhorn—Plantago lanceolata; Chess or Cheat—Bromus secalinus;

Red Rice; Nut grass—Cyperus rotundus; Darnel—Lolium temulentum; Johnson grass—Sorghum halepense; Corn cockle—Agrostemma githago; Bottle brush plantain—Plantago aristata; sorrels—Rumex acetosa and Rumex acetosella; Docks—Rumex crispus, R. obtusifolius and R. conglomeratus; Wild onion or garlic—Allium spp.; Morning glory—Ipomoea purpurea; Field bindweed—Convolvulus arvensis; Hedge bindweed—Convolvulus sepium.

PROHIBITS FROM SALE OR TRANSPORTATION

FIELD SEEDS CONTAINING:

Field bindweed, wild onion and nut grass.

FIELD SEEDS OTHER THAN LESPEDEZA AND SUDAN GRASS CONTAINING:

5 Johnson grass per pound.

250 Dodder and cheat per pound.

2000 Noxious weed seeds per pound.

LESPEDEZA AND SUDAN GRASS CONTAINING:

25 Johnson grass per pound, if less, use special permit tag.

250 Cheat per pound.

500 Dodder per pound, if from 100 to 500, use special permit tag.

2000 Noxious weed seeds per pound.

SEED LABORATORY

Agricultural Building, Fayetteville, Arkansas.
John E. Casey, Analyst.

ENFORCEMENT AND REGULATIONS

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.

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.

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:

- (1) To breeder who has been officially recognized in his respective state.
- (2) 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 truthness 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.

*The information required by the Federal Seed Act, if given in toto, may be substituted for the information in (A) and (B).

CALIFORNIA

Agricultural Code Amended 1939

INFORMATION REQUIRED ON ANALYSIS TAGS.

(In not less than 7 point type or written in ink.)

(A) Agricultural Seeds. Every lot of 5 lbs. or more.

1. The commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. The name and number per pound of each primary noxious weed seed present.
5. The name of each kind of secondary noxious weed singly or collectively in excess of:
 - (a) One in 5 grams (See page 106, group A).
 - (b) One in 25 grams.
 - (c) One in 100 grams.
6. Percentage of—
 - (a) Germination, exclusive of hard seed. (Regulation.)
 - (b) Hard seeds. (Regulation.)
 - (c) Month and year of test.
7. The name and address of the vendor.

(B) Mixtures of two kinds of seeds. (C) Special Mixtures. Each lot of 8 ounces or more.

1. That such seed is a mixture.
 2. Name and percentage of each kind of Agricultural seed present in excess of 5% by weight of the total in the order of its preponderance.
 3. Percentage of weed seeds.
 4. Name and number per pound of each primary noxious weed seed present.
 5. Name of each secondary noxious weed present singly or collectively in excess of one seed in each 15 grams.
 6. For each agricultural seed present in excess of 5% give—
 - (a) Percentage of germination, exclusive of hard seed. (Regulation.)
 - (b) Percentage of hard seed. (Regulation.)
 - (c) Month and year of test.
 7. Name and address of vendor.
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 in the order of its preponderance.
 3. Percentage of weed seeds.
 4. Percentage of inert matter.
 5. Name and number per pound of each primary noxious weed seed present.
 6. Name of each secondary noxious weed seed present singly or collectively in excess of one seed in each 15 grams.
 7. Name and address of the vendor.

(D) Vegetable Seed—Law does not include flower, sugar beet, and garden vegetable seed.

NOXIOUS WEEDS

PRIMARY NOXIOUS WEEDS

- Blueweed, Texas—*Helianthus ciliaris*
- Camel's thorn—*Alhagi camelorum*
- Canada thistle—*Cirsium arvense*
- Cress, Austrian field—*Roripa austriaca*
- Cress, Hoary—*Lepidium draba*, including *Lepidium repens*, *Hymenophyllum pubescens*
- Cress, Perennial pepper—*Lepidium latifolium*
- Gaura, Scarlet—*Gaura coccinea*
- Gaura, Wavy leaved—*Gaura sinuata*
- Horsenettle, Carolina—*Solanum carolinense*
- Horsenettle, White—*Solanum elaeagnifolium*
- Knapweed, Russian—*Centaurea repens*
- Klamath weed—*Hypericum perforatum*
- Nutgrasses—*Cyperus* spp., including *Cyperus esculentus*, *Cyperus rotundus*
- Quackgrass—*Agropyron repens*
- Sowthistle, Creeping or Perennial—*Sonchus arvensis*
- Surge, Leafy—*Euphorbia esula*

SECONDARY NOXIOUS WEEDS

- Bassia, Fivehook—*Bassia hyssopifolia*
- Bindweed or Wild morning glory—*Convolvulus arvensis*
- Crabgrass—*Digitaria sanguinalis*
- Crabgrass, Smooth—*Digitaria ischaemum*
- Dodder, Clover—*Cuscuta epithymum*
- Dodder, Field—*Cuscuta pentagona*
- Dodder, Flax—*Cuscuta epilinum*
- Dodder, Large-seeded—*Cuscuta indecora*
- Dodder, Small-seeded—*Cuscuta planiflora*
- Dogbane—*Apocynum cannabinum*
- Johnson Grass—*Holcus halepensis*
- Mallow, White or Alkali—*Sida hederacea*
- Nightshade, Black—*Solanum nigrum* including *Solanum douglasii*—(Perennial)
- Poverty weed—*Iva axillaris*
- Poverty weed, Franseria—*Franseria tenuifolia*
- Puncture vine—*Tribulus terrestris*
- Ragweed, Western—*Ambrosia psilostachya*
- Red rice—*Oryza sativa*-var.
- Sandbur—*Cenchrus pauciflorus*

- Thistle, Iberian—*Centaurea iberica*
- Thistle, Italian—*Carduus pycnocephalus*
- Thistle, Purple star—*Centaurea calcitrapa*
- Thistle, Russian—*Salsola kali*
- Thistle, Yellow star—*Centaurea solstitialis*

LABORATORY AND TESTS

Federal—State Seed Laboratory. State Office Building, Sacramento.
 Leatha D. Bunting, 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.
 1. 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
 2. 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., and sugar beet (sprout test)..\$1.50

- (c) Examination for weed seeds.....\$1.00
- (d) Identification\$.50
- (e) Official sampling by request. A charge of \$1.00, plus traveling expenses of inspector and regular charges for test or tests requested.
- (f) Any seed not listed will be charged fee in appropriate class above.

ENFORCEMENT

State Dept. of Agriculture, Bureau of Field Crops, L. M. Jeffers, Chief.

REGULATIONS

- (1) Hard Seed—It is not permissible to include the hard seed as a part of the germination percentage. The percentage of hard seeds may be stated separately.
- (2) Label statements shall be in not less than 7 point type or written in ink.
- (3) Common name not sufficient for:
 - (a) Mustards used as cover crops. Both common name and specific name are required.
 - (b) Ryegrass—The common name origin shall be given.
 - (c) "Vetch" not sufficient, give variety name also.
- (4) Mixtures and special mixtures. Agricultural seeds shall be named on the label in order of their preponderance in the mixture. If a component is less than 5% of a special mixture its name must not be included unless accompanied by the actual percentage. Naming a special mixture after one of its component parts is not permissible unless the percentage of pure seed of the kind named be stated on the label.

CONNECTICUT

Act of 1937

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agricultural Seeds—Each lot.

1. Name of seed.
2. Percentage of purity.
3. Percentage of weed seeds.
4. Name and number per ounce of noxious weeds present singly or collectively in excess of:
 - (a) 1 seed in each 5 grams.
 - (b) 1 seed in each 25 grams.
 - (c) 1 seed in each 100 grams.
5. Percentage of germination together with month and year of test.
6. Full name and address of vendor.

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

1. That such seed is a mixture.
2. Name and approximate percentage by weight 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 nox-

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

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

(C) Special Mixtures.

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

(D) Vegetable seeds. Each separate container.

1. The kind and variety of seed.
2. Percentage of germination together with year tested.
3. Name and address of packetor 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.

STOKES TOMATO SEED

Stokesdale

Master Marglobe

Rutgers

Certified by the State of New Jersey

FRANCIS C. STOKES COMPANY

Vincentown

New Jersey

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of
Watermelon
and
Crotalaria
Seed

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NURSERY STOCK

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Our specialty is domestic
and imported grasses for
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any time.

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When in a hurry phone LD-66

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O. M. SCOTT & SONS
COMPANY

Marysville, Ohio

COLORADO

As Amended In 1921, 1925, and 1929

INFORMATION REQUIRED ON
ANALYSIS TAGS

| SEEDS | |
|---|------------------------------|
| Kind | Variety |
| Pure Seed % | Date of Test |
| Germination % | Hard Seeds % |
| Grown in | Locality (If in Colo.) |
| Noxious Weeds: Name and Number per pound, in excess of 90 seeds per pound | |
| | |
| Name (Seller) | |
| Address | |

(A) **Agricultural Seeds—5 pounds or more.**

(B) **Mixtures of Agricultural seeds as above in A.**

(C) **Vegetable Seeds—Law does not apply except to "Vine Seeds."* Vine seeds—Label 5 pounds or more.**

1. Name.
2. State or foreign country where grown, if in Colorado, the locality. Or plainly mark "unknown."
3. Cantaloupe seed saved from cull piles and melons left in field after shipping shall be plainly marked "cull seed."
4. Name and address of vendor.

*"Vine Seeds"—includes all varieties of cucumbers, cantaloupes, muskmelons, honeydews, casabas, pumpkins, squashes, and watermelons.

NOXIOUS WEEDS

Barley, wild, or squirrel-tail grass (*Hordeum jubatum*)
Bindweed or wild morning-glory (*Convolvulus arvensis*)

Cheat (*Bromus secalinus*)
Clover, hop (*Trifolium procumbens*)
Cockle (*Saponaria vaccaria*, syn. *Vaccaria vaccaria*; and *Agrostemma githago*)
Crabgrass (*Digitaria ischaemum*, *Digitaria sanguinalis*; syn. *Syntherisma ischaemum*, *Syntherisma sanguinalis*)
Dodders (any variety) (*Cuscuta pentagona*, *C. indecora*, *C. planiora*, *C. epilinum*)
Mustard, wild (any variety) (*Brassica* spp.)
Oats, wild (*Avena fatua*)
Plantains (any variety) (*Plantago lanceolata*, *P. major*, *P. rugelii*)
Poverty weeds (any variety) (*Iva axillaris*, *Franseria tomentosa*, *F. discolor*)
Sowthistle (*Sonchus arvensis*)
Thistle, Canada (*Cirsium arvense*)

SEED LABORATORY

At Colorado Agricultural Experiment Station, Fort Collins, Colorado.
Bruce J. Thornton, Assoc. Bot. in Charge.
Helen Kroeger, Analyst.
The per cent of hard seed may be specified on the label, but must not be added to the germination.

DELAWARE

Law of 1929

INFORMATION REQUIRED ON
ANALYSIS TAG.

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

1. Name.
2. Percentage of pure seed.
3. Name and number per ounce of each noxious weed seed present in excess of:
(a) One in each 5 grams. (See page 106, group A.)
(b) One in 25 grams.
(c) One in 100 grams.
4. Percentage of germination together with month and year tested.
5. Name and address of vendor.

(B) **Mixtures exempt except noxious weed clause (See No. 3 above).**

(C) **Vegetable Seed not under the law except canning house peas which are listed as agricultural seeds.**

NOXIOUS WEEDS

Quack grass—*Agropyron repens*; Canada thistle—*Cirsium arvense*; dodders—*Cuscuta* species; wild mustard—*Brassica arvensis*; wild oats—*Avena fatua*; orange hawkweed—*Hieracium aurantiacum*.
Dodder in excess of 30 per ounce is prohibited in lespedeza.

STOP SALE AND SEIZURE

The State Board of Agriculture may cause to be seized and held any lot of agricultural seed or mixtures of the same found to violate any of the provisions of this Act until the law has been complied with or said seed violation otherwise legally disposed of.

SEED LABORATORY

State Board of Agriculture, Dover.
John L. Clough, Analyst.
Purity and germination tests 25 cents each.

ENFORCEMENT

State Board of Agriculture, Dover.

FLORIDA

Law of 1941 and Regulations

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 lot identification.
3. Percentage of purity.

4. Percentage of inert matter.
5. Percentage of weed seeds. Prohibit if in excess of 3%, Carpet grass 5%.
6. Percentage of other agricultural seed.
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 a 12 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. Origin of alfalfa, red clover, and field corn, if 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 kind of noxious weed seed per ounce in groups B1 and B2 and per pound in B3 and B4 when present singly or collectively in excess of:
 - 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) Mixed agricultural seed. 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 component 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 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 12 month period exclusive of the month in which the test was completed.
 - (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.

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 12 month period exclusive of the month in which test was completed.
2. Seed containing in excess of 500 noxious weeds per pound.
3. Seeds containing in excess of 3% of weeds, 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. Seeds which fall 20% below the established germination standards.

NOXIOUS WEEDS

- Garlic or wild onion (*Allium vineale*).
- Bermuda grass (*Cynodon dactylon*, except when sold as such).
- Quack grass (*Agropyron repens*).
- Dodder (*Cuscuta species*).
- Johnson grass (*Sorghum halepense*, except when sold as such).
- Nut grass (*Cyperus rotundus*).
- Canada thistle (*Cirsium arvense*).
- Corn cockle (*Agrostemma githago*).

"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 OF SEED.

If for a period of 15 days, after having received the "stop sale" notice, the owner or custodian of the seed has failed to comply

with the law or to withdraw such seed from sale the Commissioner shall be authorized to seize and hold said lot of seed which shall, after the expiration of 15 days from the date of seizure, be destroyed or disposed of by the Commissioner in such manner as he shall by regulation prescribe.

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.

Registration and license fees.

- (A) Every person, before selling, offering or exposing for sale any agricultural or vegetable seeds, or mixtures thereof, other than packaged seed, 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, or wholesaler and retailer for each place of business where seeds are sold, offered or exposed for sale at wholesale, or at wholesale and retail, and \$1.00 for each place of business at which seeds are sold, offered or exposed for sale at retail only.
 4. Such registrations shall be renewed July 1st of each year at the same fee.
- (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 25c shall be paid.

REGULATIONS

- (a) Analysis tags for agricultural seed shall be not less than a No. 5 standard tag—size 4 3/4 x 2 3/4 inches.
- (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 in stock grains or other seeds, which are intended for feeding purposes and not for planting, shall affix to each bag, parcel, or container a tag stating
 1. Kind and net weight of the grain.
 2. In plain, legible type the words: "The grain in this container is intended for feeding purposes only and will not be sold for seed."
- (f) New analysis tags bearing the name of the vendor, or other party responsible, shall be placed on the seed after the original test date becomes twelve months old.
- (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 consumers 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.

SEEDS

We Sell—

We Buy

BLUE GRASS

ALFALFA

CLOVERS

LESPEDEZA

GRASSES

FORAGES



Since 1887

Peppard Seed Co.

Kansas City, Mo.

2. If for delivery, the name and address of the party to whom the seeds are to be delivered.
 3. The kind and amount of each separate kind 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) Seeds containing more than 200 noxious weed seeds per pound shall be labeled in red ink in not less than 12 point type "EXCESSIVE NOXIOUS WEEDS."
 - (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 constitute a defence, or be used as a defence in any way in any prosecution or in any proceeding for confiscation of seeds brought under the provisions of this act, or the rules and regulations made and promulgated thereunder.

(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.
- (5) 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.

Prohibits the sale, offering or exposing for sale of any agricultural, vegetable or certain tree seeds—

- (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 1/4 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.

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 or variety, and
 - 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 2 1/2%. 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

(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.

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—*Cirrhium intybus*; 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—*Helentium tenuifolium*.

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.

SHARE YOUR A-1 FINE SEED SEPARATOR
With Your Fellow Seed Men

We can furnish only a small part of the A-1 Fine Seed Machines that seed houses wish to buy. Yet there is an urgent need for abundant supplies of good, clean seed so we may have the big crops necessary to feed America and her allies. Your A-1 Fine Seed Separator saves 75% of the good seed that other machines waste with the tallings. When you share your A-1 with a fellow seed man, and help him save valuable seed that would otherwise be wasted, you are making an important contribution to your country's cause.

The unique "square shouldered" indents of the A-1 cylinders provide "human hand" accuracy that ordinary machines can not approach. The unlimited flexibility of the adjustable trough and variable speed drive assure outstanding accuracy on a great variety of seeds.

SUPERIOR SEPARATOR CO.

1179 15th Ave. S. E., Minneapolis, Minnesota

for hybrid seed corn, grain cleaning and grading equipment for mills, malt



Makers of: length and width and thickness graders 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, grasshopper 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.

"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.

IDAHO

Law of 1931, Amended 1939

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER.

(A) Agricultural Seeds. Every Lot.

1. Name of seed.
2. Percentage of pure seed.
3. Name of noxious weeds present.
4. Germination of non-leguminous plants, together with the date of test.
5. Year grown.
6. Where grown.
7. Name and address of vendor.

(B) Mixtures. Every Lot.

1. That such seed is a mixture.
2. Name of each kind present in proportions of 5% or more.
3. Name and number of noxious weeds.
4. Percentage of inert matter.
5. 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-

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 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. Regulations effective until July 1, 1943.

1. **FIRST QUALITY.** Purity minimum 99%, weeds maximum one-half of one percent, germination not less than 75% and not more than 15% hard seeds, containing not more than 100 PRIMARY or SECONDARY NOXIOUS weed seeds per pound.
2. **SECOND QUALITY.** Purity minimum 96%, weeds maximum 2½%, germination not less than 60%, and not more than 20% hard seeds, containing not more than 200 PRIMARY or 400 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.

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 chery—*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, 25 cents; Germination tests 25 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 devalitized before leaving the place where cleaning occurred.

ILLINOIS

Law 1941 Rules and Regulations 1942.

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER.

(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 pure seed.
- (4) Percentage of inert matter.
- (5) Percentage of weed seeds. Prohibited if in excess of 2%.
- (6) Percentage of other agricultural seeds.
- (7) Percentage of:
 - a. Germination, exclusive of hard seed.
 - b. Hard seeds.
 - c. Month and year test was completed. The test for germination shall have been completed within a nine month period, exclusive of the month in which test was completed.

Following a. and b. the additional statement "Total germination and hard seed" may be given if desired.

- (8) Origin of alfalfa, red clover and field corn (except hybrid), if unknown it must be so stated.
- (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 of each kind of secondary noxious weeds, per ounce in groups Ba and Bb, and per pound in groups Bc and Bd when present singly or collectively in excess of:
 - 1 in 5 grams.
 - (See page 106, Group B)
 - 1 in 10 grams.
 - 1 in 25 grams.
 - 1 in 100 grams.

The name of any primary noxious weed seed present in the proportion of:

- 1 in 50 grams in agricultural seeds of groups Ba & Bb (page 106).
- 1 in 150 grams in agricultural seeds of group Bc.
- 1 in 1 pound in agricultural seeds of group Bd.

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Steele,
Briggs

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CANADA

for

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ALFALFA GRIMM
SWEET CLOVER

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CANADIAN RED CLOVER

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Write for Prices and
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LIMESTONE, TENNESSEE

WHOLESALE SEED GROWERS EST. 1907

(B) Mixtures of 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 component 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 standard last established by the Director of Agriculture. (See page 102 for standards.)
 - a. Percentage of germination, exclusive of hard seed.
 - b. Hard seeds.
 - c. Month and year test was completed. The test for germination shall have been completed within a 9 month period exclusive of the month in which the test was completed.
 - d. The word "BELOW STANDARD" in not less than 8-point type.
 - e. Name and address of the person who labeled the seed, or who sells, offers or exposes said seed for sale.

Prohibits the sale, offering or exposing for sale any agricultural or vegetable seed—

- (1) Unless the test for germination has been completed within a nine month period, exclusive of the month in which the test was completed.
Agricultural Seed Only.
- (2) Agricultural seeds containing in excess of 2% weeds.
- (3) Agricultural seeds containing primary noxious weed seeds, singly or collectively, in excess of 1 in 50 grams of the seeds in groups Ba and Bb and in excess of 1 in 150 grams of the seeds in group Bc, and in excess of 1 in a pound of the seeds in group Bd (page 106), (Vegetable seeds exempt).
- (4) Agricultural seeds containing secondary noxious weed seeds, either singly or collectively, in greater proportion than 1 to 1,000 agricultural seeds.

NOXIOUS WEEDS.

PRIMARY NOXIOUS WEEDS

PROHIBITS IF IN EXCESS OF 1 IN 50 GRAMS, 1 IN 150 GRAMS AND 1 IN A POUND.
Canada thistle—*Cirsium arvense*
Perennial sow thistle—*Sonchus arvensis*
Field bindweed—*Convolvulus arvensis*
Leafy spurge—*Euphorbia esula*
Russian knapweed—*Centurea picris*
Hoary cress—*Lepidium draba*.

SECONDARY NOXIOUS WEEDS

PROHIBITS IF IN EXCESS OF 1 to 1,000 AGRICULTURAL SEEDS.
Curled dock—*Rumex crispus*
Wild garlic—*Allium* spp.
Dodders—*Cuscuta* spp.
Bullnettle—*Solanum carolinense*
Buckhorn—*Plantago lanceolata*
Quack grass—*Agropyron repens*
Wild carrot—*Daucus carota*
Wild Mustard—*Brassica* spp.
Johnson grass—*Sorghum halepense*
Ox-eye daisy—*Chrysanthemum leucanthemum*

STOP SALE AND SEIZURE

The authorized agents of the Department of Agriculture shall seize or prohibit the sale of any lot of agricultural or vegetable seed being sold, offered or exposed for sale which appears to be in violation of this act or to fall below the statement on the label or tag. Said seed shall not be sold, offered or exposed for sale for seeding purposes until it is released by the Department of Agriculture, provided that the right to appeal to a court of competent jurisdiction to review any order, rule or regulation shall exist in all cases. Any seed, seized in accordance with the provisions of this act, found by a court of competent jurisdiction to be in violation of any

of the provisions thereof may be disposed of by the Department of Agriculture.

- a. By sale for the purpose of recleaning.
- b. By delivery to the owner, provided he has appeared as claimant thereof and paid the court costs and fees and all other necessary expenses in connection with the seizure of the seed, and has executed and delivered a bond, with good and sufficient sureties, conditioned that the seed will not be sold or disposed of contrary to any provisions of this act.
- c. By destruction.

LABORATORY AND ENFORCEMENT

State Department of Agriculture. Charles H. Keltner, Superintendent of Division of Plant Industry, Springfield.

Tests—Residents permitted 5 free tests for both purity and germination.

Tests of clover, alfalfa, lespedeza, timothy, vetch, sudan grass, rape, and millet charges shall be 50 cents for purity and 50 cents for germination. Chaff grasses \$1.00 for purity, and \$1.00 for germination. Uncleaned red-top not permitted on free list purity and germination \$5.00.

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.

WORLD'S LARGEST SEED CORN PLANT



Our new plant located at San Jose, Illinois (25 miles south of Peoria), has a drying capacity, normal season, of 145,000 bushels. Seed storage capacity 184,000 bushels. 63 drying bins holding from 550 bushels to 1,150 bushels each. Equipped with the newest and best machinery we can buy.

Thirty-five years' experience in producing high-yielding seed corn. 14 leading hybrids, mostly certified. We produce our own inbreds, single crosses and four-way crosses.

Flat grades \$3.50 to \$7.75 per bushel, subject to dealers liberal discount. Send for new catalog. Agents wanted; some good territory still open. Write for wholesale carload prices.

KELLY SEED COMPANY

PEORIA, ILLINOIS

SAN JOSE, ILLINOIS

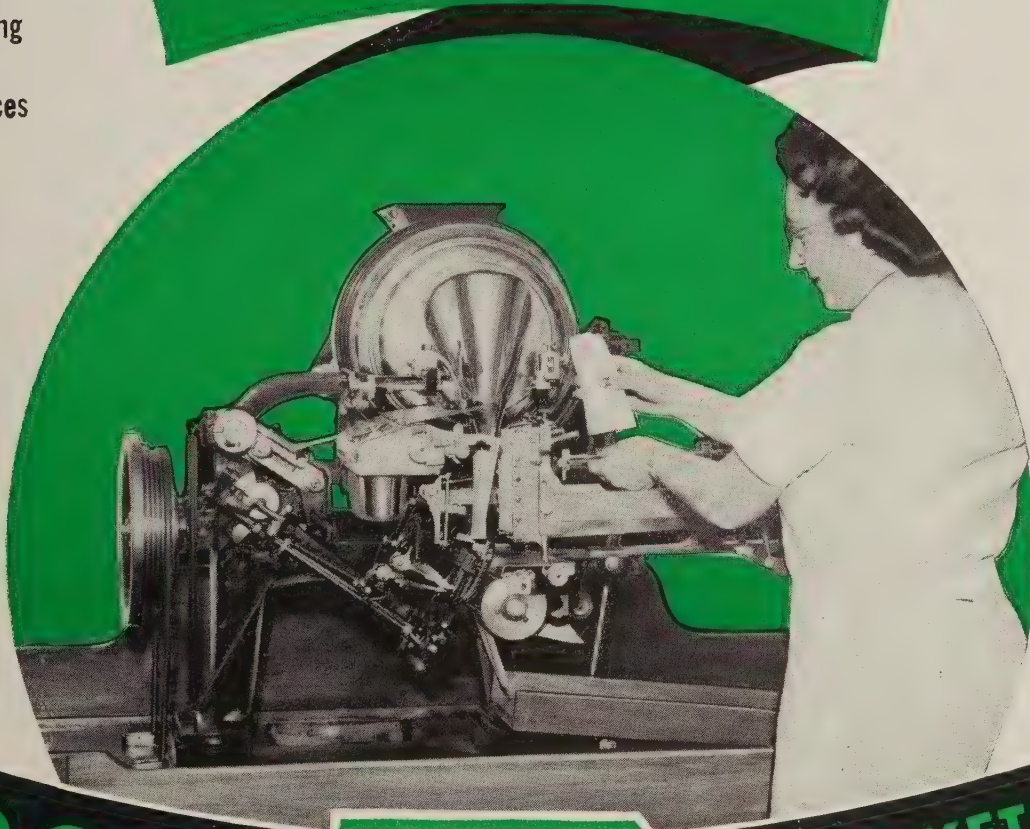
TO HELP PERPETUATE V GARDENS

TO RELEASE LABOR
FOR WAR WORK

TO HELP FEED THE NATION

TO HELP FEED
THE WORLD

Write for
favorable leasing
terms and
low packet prices

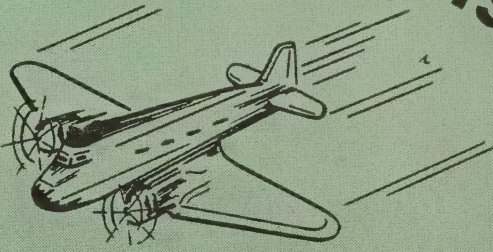


BROWN

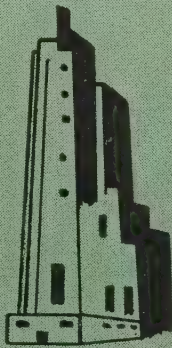
- MADE SEED PACKETS AND
AUTOMATIC SEED PACKET
FILLING AND SEALING MACHINES

THE BROWN BAG FILLING MACHINE CO., Fitchburg, Mass.

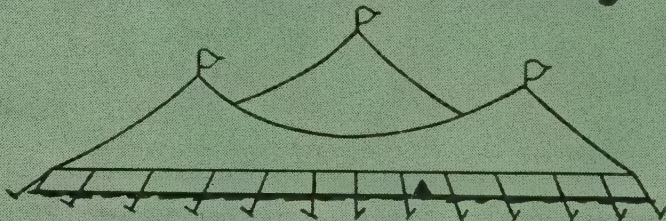
Just as there is



a f-a-s-t-e-s-t plane



a **TALLEST** building



a **"BIGGEST"** show on earth"

SO TOO IS THERE A

Those who buy their seed carefully know that it yields better crops, is uniformly excellent, always dependable. Thousands play safe and buy it every year, declaring that it has no equal.

85 Varieties
NORTHERN OHIO GROWN

- FIELD
- SWEET
- ENSILAGE
- HYBRID

SEED CORN

The **O & M SEED** Company



O & M Oats — 1942

Crop Yield Over 80 bushels per acre



A FINEST SEED . . . and it's O & M!

Now Featuring

U. S. 13
Iowa 939
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HYBRIDS

*Write for prices on
car lots or less*

**O & M Seed Oats
COLUMBIA GRAY SEED
OATS**

**LENROC SEED OATS
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GROWERS Green Springs, Ohio

**YOUR DOLLARS SOWN IN BONDS TODAY WILL
ASSURE THE HARVEST OF PEACE TOMORROW**

Sold in
30 lb.—60 lb.
150 lb.
State Certified
Bags



**Growing
and Selling
BLACKFOOT
BRAND
is a
GRIMM Business!**

Growing Grimm alfalfa seed is important business in Idaho, and BLACKFOOT BRAND Idaho Grimm is the best that Idaho produces.

Selling Grimm, BLACKFOOT BRAND, is good business for every alfalfa seed dealer who wants to make the most year in and year out profit.

Ladak Alfalfa Seed

. . . a hardy, wilt-resisting strain especially adapted to areas that require a heavy first cutting; and,

Certified Midland & Cumberland Red Clovers

. . . are grown to the same, exacting standards as Idaho Grimm, and are marketed in sealed and certified bags under the BLACKFOOT BRAND name. Place your orders NOW!

Sells Fast—Repeats Often

BLACKFOOT BRAND is profitable because your farmer customers know it is DEPENDABLE. They pay a premium for it and come back for more because THEIR profit lies in what they cut or feed. BLACKFOOT BRAND cuts and feeds more per acre because it is hardy, resists winter-kill and consistently grows heavy stands.

This reputation for dependability has been developed by more than 22 years of careful, state-inspected and state-certified growing and processing.

Regular, year-after-year advertising has helped create, expand and maintain the steady demand for BLACKFOOT BRAND—will continue to assist in moving it for you at a satisfactory profit.

Make your alfalfa seed business a GRIMM one. Order now from—



**IDAHO GRIMM
Alfalfa Seed Growers Association
Blackfoot, Idaho**

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.
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).

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.

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*).

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, relabeled or otherwise disposed of in compliance with the laws of the state: 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 release of said seed on promise to process or relabel to bring it into compliance with the act.

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.

LABORATORY AND TESTS

Seed Laboratory at Lafayette is under the State Chemist and Seed Commissioner, cooperating with the U. S. Department of Agriculture. H. R. Kraybill, State Chemist and Seed Commissioner.
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.

ENFORCEMENT AND REGULATIONS

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

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*.

Redtop



Ging & Company

FARINA
ILLINOIS

GEO. KELLER & SONS

Quincy, Ill.

K Brand Seeds

Wholesale Dealers

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

DAVENPORT SEED CO.

Headquarters

IOWA Grown
TIMOTHY

Car Lots a Specialty



Hardy
Alfalfas
Red Clovers
Alsike
Sweet Clover
Soy Beans
Hybrid
Seed Corn

317 E. 2nd St.

DAVENPORT, IOWA

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

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.
 - (b) 3 per ounce.
 - (c) One per ounce.
 - (d) 5 per pound.

(See page 106, group B.)

(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

- (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.

(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.

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 alissimus*.
- 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 of 1935, Amended 1939

INFORMATION REQUIRED ON ANALYSIS TAG.

(A) Agricultural Seeds. Every lot.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed.
4. Percentage of inert matter.
5. Percentage of other agricultural seeds. (Regulation.)
6. Percentage of:
 - (a) Germination, exclusive of hard seeds.
 - (b) Hard seeds.
 - (c) Date of test. Date cannot be over one year old.
7. Where grown, if unknown, so state.

8. Lot or stock number.
9. Name and number per pound of all noxious weed seeds present singly or collectively at the rate of more than 1/10 of one per cent by count.
10. Name and address of vendor.

(B) Mixtures. Every lot.

1. Commonly accepted name and percentage of each agricultural seed composing the mixture, when present in amount of 5% or more.
2. Percentage of weed seed.
3. Percentage of inert matter.
4. Names and numbers per pound of all noxious weed seeds present, singly or combined, at rate of more than 1/10 of one per cent by count.

5. For each kind present in excess of 5% give:
- Percentage of germination, exclusive of hard seeds.
 - Percentage of hard seeds.
 - Date of test. Date cannot be over one year old.
6. Name and address of vendor.

(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:

- Name or number by which the hybrid is designated.
- The complete pedigree of each hybrid.
- 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*

PROHIBIT MORE THAN AN AVERAGE OF ONE SEED IN 5 GRAMS:
dodder—*Cuscuta* species; Johnson grass—*Sorghum halepense*.

GIVE NAME AND NUMBER PER POUND IF MORE THAN 1/10 OF 1% BY COUNT EITHER SINGLY OR IN COMBINATION:
Canada thistle—*Cirsium arvense*; corn cockle—*Agrostemma githago*; buckhorn plantain—*Plantago lanceolata*; wild mustards—*Brassica* species; French weed—*Thlaspi arvense*; quack grass—*Agropyron repens*; wild onion—*Allium* species; dock—*Rumex* species; wild oats—*Avena fatua*; bull nettle—*Solanum carolinense*; wild carrot—*Daucus carota*; chess or cheat—*Bromus* species; morning glory—*Ipomoea* species; ox-eye daisy—*Chrysanthemum leucanthemum*; hoary cress—*Lepidium draba*.

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 redbud, 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 AND REGULATIONS

Enforcement is under State Board of Agriculture, J. C. Mohler, Secretary, Topeka.
"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.
Percentage of other crop seeds to be given on analysis tag, on unmixed seeds.
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.

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

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

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

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

- That seed is a mixture.
- Name of each agricultural seed, which is present in proportion of 5% of total mixture.
- Percentage of weed seeds.
- Percentage of inert matter.
- Name and number per ounce of each kind of noxious weed seeds and bulbs present.
- 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.
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

- The percentage of hard seed should be shown on the tag, but must not be included in the percentage of germination.
- 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.

GILT EDGE SEEDS

Wholesalers and Jobbers of FIELD SEEDS

Specializing in CLOVERS GRASSES

KOREAN LESPEDEZA

50 years in same location

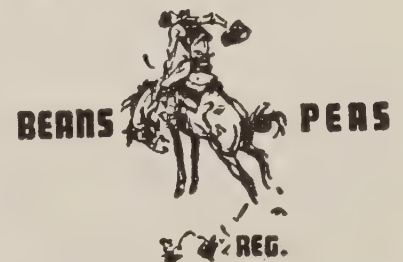
NATIONAL SEED CO.

101 W. Main St. Louisville, Ky.

MEMBERS

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

BUCKAROO BRAND



WESTERN GROWN BEANS PEAS

GROWING, HARVESTING AND CLEANING

ALL UNDER PERSONAL SUPERVISION

Growing Stations in Montana and Wyoming

MAX F. WILHELMI Seedsman

Wholesale Seed Grower

804 Massachusetts St.

LAWRENCE, KANSAS

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 agri-

cultural 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

Dodder—*Cuscuta epithimum*; Johnson grass—*Sorghum halepense*; tie vine—*Convolvulus arvensis*, cockle bur—*Xanthium canadense*; cocoa grass—*Cyperus rotundus*; Bermuda grass—*Cynodon dactylon*; foxtail—*Alopecurus geniculatus*; ox-eye daisy—*Rudbeckia hirta*; wild mustard—*Brassica arvensis*; large dock—*Rumex obtusifolius*; crab grass—*Digitaria sanguinalis*; dandelion—*Pyrrophappus carolinianus*; thistle—*Sonchus* species.

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.

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, re-labeled 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.)

MAINE

Revised In 1919

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural Seeds. Every lot.

1. Name of seed.

(B) Mixtures not included.

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.

(C) Vegetable seed not included.

NOXIOUS WEEDS

Ball mustard—*Neslia paniculata*; bearded dandelion—*Lolium temulentum*; bitter dock—*Rumex obtusifolius*; black mustard—*Brassica nigra*;

bladder campion—*Silene latifolia*; blue bur or stickseed—*Lappula echinata*; blueweed—*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 trifida*; 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*; tumble mustard—*Sisymbrium altissimum*; white campion—*lych-*

nis 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

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

- 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.
 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

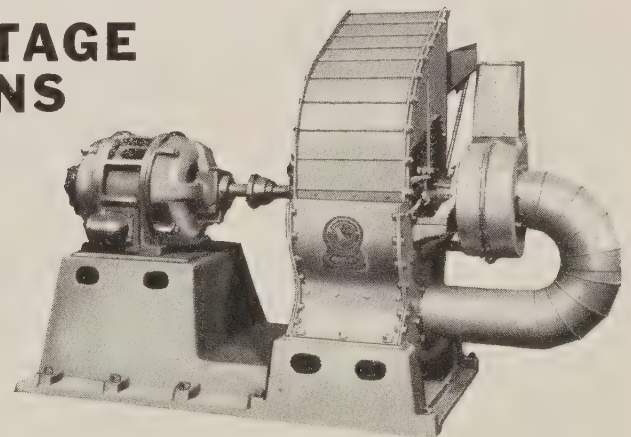
State Department of Agriculture, Commissioner of Agriculture, State House, Boston.

YOU MUST TAKE ADVANTAGE OF CHANGING CONDITIONS

To Hold Your Business
And Increase Profits

"JAY BEE"

World's Standard Grinder for
Capacity, Economy, Durability



GREATER efficiency, more speed, bigger capacities, lower operating cost, to beat competition—that's the "JAY BEE" all-steel hammer mill.

For nearly a quarter century—the Bossert made "JAY BEE" mill outlasts 'em all, outgrinds 'em all. Heavy boiler-plate and alloy-steel construction makes the "JAY BEE" almost unbreakable. It grinds more feed at less cost per ton than any other hammer mill made.

From the finest whole wheat flour and corn meal, to every grain and roughage grown, the "JAY BEE" grinds to any degree of fineness, always cool, and uniform. It costs less to operate and maintain, and is

practically free from repairs over a long period of years.

Sizes and styles to meet every grinding requirement, from 12 H.P. to 200 H.P. with belt, V-belt, and direct-connected drives. Batch mixers, corn crackers, stationary molasses mixers.

MAINTAIN SERVICE CONTACT WITH FARMERS

Seedsmen and custom millers have added greatly to their income. They fortify their local business with the "JAY BEE" Portable. They make any kind of feed from the farmer's crops right on his farm. This brings in new business, and helps hold and increase their sales of mixed feeds, concentrates, minerals, and molasses.

Investigate the profit possibilities at once. Write for descriptive literature, prices, terms, etc.

J. B. Sedberry, Inc., Dept. 78, Franklin, Tenn.—Utica, N. Y.

JOHN J. WOODS & SONS, JAY BEE SALES CO., KANSAS CITY, MO.

J. B. Sedberry Co., 2608 So. Wells St., Chicago, Ill.—A. E. Thompson Co., 718 Washington Ave., N., Minneapolis, Minn.—T. G. Holland, 474 Fairfax Road, Drexel Hill, Pa.—Jay Bee of Texas, 705 Ross Ave., Dallas, Texas—Jay Bee Sales Co., 395 Broadway, New York—Jackson, Tenn.—P. O. Box 853, Winston-Salem, N. C.—436 Starks Bldg., Louisville, Kentucky—The Lamiell Co., Greenwich, Ohio

MICHIGAN

Law 1941 and Regulations

INFORMATION REQUIRED ON ANALYSIS TAG OR CARTON

(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.
 - c. Month and year of test.
- (8) Origin of red clover, alfalfa, soy beans and field corn.
- (9) Name and address of person who labels seed, or who sells, offers or exposes seed for sale.
- (10) Name of each noxious weed seed present, singly or collectively, in excess of:

| | |
|-----------|------------|
| 1 in each | 5 grams. |
| 1 in each | 25 grams. |
| 1 in each | 100 grams. |

(See page 106, group A.)

(B) Mixtures of alsike and timothy, alsike and white clover, red top and Timothy, alsike and red clover. One pound or more.

- (1) That such seed is a mixture.
- (2) Lot number or other identification.
- (3) Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
- (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, for each kind of agricultural seed present in excess of 5% of the total.
 - b. Hard seed.
 - c. Month and year of test.
- (8) Origin of red clover, alfalfa, soy beans and field corn.
- (9) Name and address of person who labels seed, or who sells, offers or exposes seed for sale.
- (10) Name and number per pound of noxious weeds present.

(C) Special Mixtures. Eight ounces or more.

- (1) That such seed is a mixture.
- (2) Lot number or other lot identification.
- (3) Name and percentage of each kind present in excess of 5% of the total mixture.
- (5) Percentage of weed seeds.
- (6) Percentage of other agricultural seeds.
- (7) Percentage of:
 - a. Germination, exclusive of hard seed, for each kind of agricultural seed present in excess of 5% of the total.
 - b. Hard seed.
 - c. Month and year of test.
- (8) Origin of red clover, alfalfa, soy beans and field corn.
- (9) Name and address of the person who labels seed, or who sells, offers or exposes seeds for sale.
- (10) Name and number per pound of noxious weeds present.

(D) Lawn grass mixtures. Every lot.

- (1) That seed is a mixture.
- (2) Name and proportion of each ingredient seed present in quantity of 5% or more.
- (3) Percentage of inert matter.
- (4) Percentage of weed seeds.
- (5) Percentage of other agricultural seeds.
- (6) Percentage of germination of each kind of agricultural seed present in excess of 5% of the total mixture with the month and year tested.
- (7) Name and address of person who labels seed, or who sells, offers or exposes seed for sale.

(E) Vegetable seeds. Each separate container.

- (1) Kind and variety of seed.
- (2) Percentage of germination together with month and year tested, if the germination is below the Michigan standard for that kind and variety. (See page 102 for standards.)

(3) Name and address of person who labels seed, or who sells, offers or exposes seed for sale.

(F) Hybrid Seed Corn.

Use of term "Hybrid," with seed corn, shall be restricted to first generation stock of a cross, the parentage of which involves one or more inbreds. In addition to the regular label requirements (A) every lot shall be labeled with the name or number by which the hybrid is designated and the vendor shall file with the Commissioner of Agriculture a statement giving the pedigree of the hybrid and name of the breeder who developed the inbred.

Prohibits the Sale, Offering and Exposing for Sale of—

Agricultural seed containing noxious weed seeds in excess of one weed seed to 2,000 agricultural seeds.

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.

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.

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 AND REGULATIONS

Enforcement—Leo V. Card, Commissioner of Agriculture.

Regulations:
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 Min. | Group II Max. | Shade Grasses Min. | Group III Max. | Rye-Grass Max. | Maximum Inert | Maximum Weeds | Germination |
|-----------------------|--------------|---------------|--------------------|----------------|----------------|---------------|---------------|------------------------------|
| Grade A... | 48% | 45% | .... | .... | 15% | 6.60 | .40 | Not less than standard |
| Grade A for shade ... | .... | .... | 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 ... | .... | .... | 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.

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 Stoions | | |
| Group IV (Filler Grasses) (Not recommended for lawn) | | |
| Crested Dogtail (Cynosurus cristatus) | 97% | 80% |
| Wood Meadow Grass (Poa nemoralis) | 80% | 80% |
| Orchard Grass (Daetylis 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

Act as Amended 1941 and
Regulations

INFORMATION REQUIRED ON
ANALYSIS TAGS. USE MINNESOTA
STATE TAGS. (Information In Not Less
Than 8 Point Gothic Caps.)

(A) Agricultural seeds. One pound or more.

1. Commonly accepted name and variety.
2. Percentage of pure seed.
3. Percentage of weed seeds. (Prohibit 2%).
4. Name and number per pound of certain primary noxious weed seeds when present singly and collectively in excess of 10 per pound. Prohibited if in excess of 25 per pound. See noxious weed section. (If less than 10 per pound can be marked "trace.")
5. Percentage of germination together with the date of test. Test cannot be over 12 months old.
6. Where grown (in case of corn the county).
7. Name and address of vendor.

(B) Mixtures of field seeds. One pound or more.

1. The words "Mixed Seeds."
2. Name and percentage by weight of each kind of agricultural seed in excess of 5% of the total mixture.
3. Percentage of weed seeds (Prohibit 2%).
4. Name and number per pound of noxious weeds when present singly or collectively in excess of 10 per pound.
5. Percentage of germination of each kind of agricultural seed together with the date of test.
6. Where grown.
7. Name and address of vendor.

(C) Special Mixtures. Eight ounces or more.

1. The words "Special Mixture" or "Lawn Mixture."
2. Name (for Lawn grass mixtures—give the name and percentage) of each kind of agricultural seed present in excess of 5 percent.
3. Percentage of weed seeds.
4. Percentage of inert matter.
5. Number of seeds per pound of noxious weeds. (except in lawn mixtures)
6. Percentage of germination of each kind in excess of 5%. Test cannot be over 12 months old.
7. Full name and address of vendor.

(D) Vegetable seed.

Not included under law.
Agricultural seed shall include the seeds planted and grown in Minnesota for the production of root crops, grains, seeds, forage, hay, and for green manure crops and lawns.

(E) Hybrid Seed Corn.

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 Dean and Director of Department of Agriculture 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, county and state in which it was grown.
- (3) The approximate number of days for maturity in the section in Minnesota where said corn is intended to be grown.

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.

for Every Purpose

MYERS

Portable SPRAYERS



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.

Fortunate are the owners of Myers Sprayers . . . for these efficient sprayers are not only famous for quality and reliability, but are backed by an unusual parts-replacement service.

If you own a Myers Sprayer — whether it is one of the thousands used for greenhouses, nurseries, truck gardens, estates and golf courses, or a Myers Power Sprayer — you can be sure of obtaining replacement parts for it. Parts are available for every sprayer Myers has ever built. See your Myers dealer near you for parts and capable repair service.



4H52

THE F. E. MYERS
& BRO. CO.
1423 Fourth St.
Ashland, Ohio

"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.

SEIZURE OF SEED

The commissioner upon seizing any agricultural 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 receipt 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.

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.

NOXIOUS WEEDS

Prohibited when in excess of 25 per pound, singly or collectively.

Quack grass—*Agropyron repens*; Canada thistle—*carduus arvensis*; perennial sow thistle—*Sonchus arvensis*; doddies—*cuscuta* species; oxeye daisy—*Chrysanthemum leucanthemum*; buckhorn plantain—*Plantago lanceolata*.

Prohibited when in excess of 9 per pound, singly or collectively.

Perennial pepper grass—*Lepidium draba*; horse nettle—*Solanum carolinense*; Australian field cress—*rrippa* or *radicula austriaca*.

Prohibit any—Creeping Jennie—*Convolvulus arvensis*. Leafy spurge—*Euphorbia esula*.

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, clover, rape, sorghum, millet, Sudan grass, timothy and similar seeds, also vegetable and flower seeds.

40 cents—blue grass, redbot, rye grass, wheat grass, brome grass, fescues, tobacco, Reed Canary grass and similar smaller grasses.

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, cereal mixtures, slender wheat grass and seeds of similar character.

\$1.00—white clover, orchard grass, timothy and alsike mixtures, all clover mixtures and all uncleaned seeds.

\$2.00—Kentucky blue grass, redbot, bent grasses, and all lawn grass mixtures.

Examination for Noxious Weeds—

50 cents—grasses and other small seeds.

30 cents—other larger seeds.

ENFORCEMENT AND REGULATIONS

Enforcement: State Dept. of Agriculture
537 State Office Bldg., St. Paul.
Division of weed and seed control, C. P. Bull, director.

Regulations:

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 designate 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.

Re-Germination Tests—Tests made the year previous to which the seed is offered for sale are not regarded as fulfillment of the law. Date of test shall not be more than 6 months prior to date of sale.

Lawn grass labels must be placed on the front of the carton.

Sugar beets and mangels shall be regarded as agricultural seeds and labeled as such.

Hard seeds—In stating the germination it shall be permissible to state the actual germination in terms of %, the hard seed, (where hard seeds occur) in terms of % and add these two figures together to get a figure which can be listed as "live seed."

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, sunflowers, field and sweet corn and soybeans.

WHITE TAGS for any and all mixtures of seeds of the foregoing groups when two or more kinds, and/or varieties 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. |

MISSISSIPPI

Law of 1940 and Regulations Effective January 1, 1941

INFORMATION REQUIRED ON ANALYSIS TAGS.

(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%.
6. *Percentage of other crop seed.* (Regulation.)
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%.
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 collectively 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 container

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 standard last set by the Association of Official Seed Analysts in addition to (b) shall show the words "Below Standard." (Regulation.)
4. Name and address of party responsible for the information given.

McLons, Peas and Beans included as agricultural seeds

NOXIOUS WEEDS

Wild onion; Bermuda grass; Johnson grass; dodder; hawkweed; bindweed; nut grass or cocoa grass; dock and plaintain.

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.

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 seedsmen registered and 25 cents for each agent.

REGULATIONS

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 or seed contained therein.
 - (4) Name and address of shipper and party to whom delivered.

Size of analysis tag shall be 4¼ x 2¾ 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.

Mixed varieties of oats shall not be sold for planting purposes in this state.

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.

MISSOURI

Law 1938, Rules and Regulations 1942

INFORMATION REQUIRED ON ANALYSIS TAGS

(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 group Ba, Bb, Bc and per pound in group Bd (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 3% 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 packetor.
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

1. Hybrid seed corn shall be the seed of the first generation or a control cross involving 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. Each package or bulk lot shall be labeled with the words "top cross hybrid," "single cross hybrid," "three-way cross hybrid" or "double cross hybrid," as the case may be.
3. Each package or bulk lot shall be labeled with the name and number by which the hybrid is designated.
4. The information required under (A) Shall also be required for each package or bulk lot of Hybrid Seed Corn.

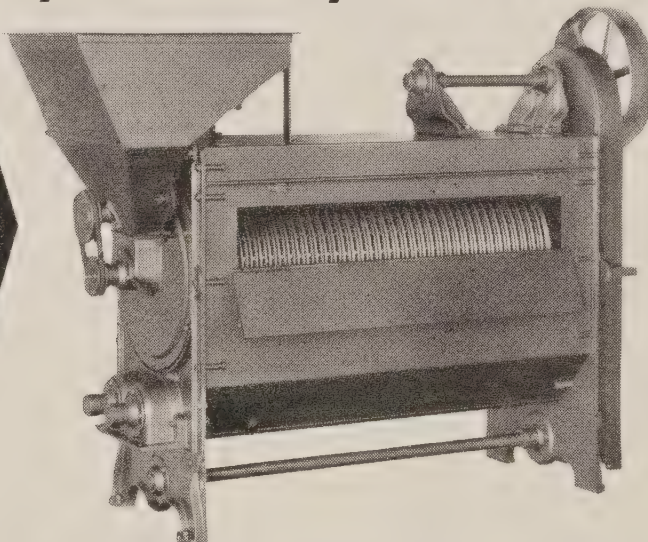
NOXIOUS WEEDS

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.

NEW, Amazingly Accurate Machine Grades Hybrid Corn by THICKNESS!

The HART
PRECISION
GRADER



Operates As Single Unit Or In Series

Extremely accurate, yet so flexible it can be adapted to meet the needs of every individual producer! That's the Hart Precision Grader, Hart-Carter's new development for thickness grading of hybrid seed corn! Can be installed as single machine or

in combinations of two, three or four machines mounted in series. Many combinations of flow possible. Many exclusive features. Special device prevents kernels plugging slots. Write now for full details and price information.

Extra Capacity In LENGTH Grading!



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Grades by length at extra capacity under close, positive control. Simple adjustments permit flexibility in grading. Various sizes of indents available. Cylinder shells easily changed. Comes complete with V Belt motor drive—nothing extra to buy. Order now.

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CATALOG, FOLDERS

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POP CORN
BIRD SEED
FARM SEED
GRASS SEED

see

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In Our 69th Year of Seed Service

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GROWN**

ALFALFA SEED

Hardest in America

From grower direct to
wholesale dealers in
car or truck lots.

Also

CRESTED WHEAT GRASS

BROME GRASS

SWEET CLOVER

RED CLOVER

MONTANA SEED CO.

Bozeman, Montana

LABORATORY AND TESTS

Federal-State Laboratory at Columbia, Missouri. Missouri College of Agriculture, cooperating with the U. S. Department of Agriculture.

W. C. Etheridge, Collaborator in charge.

Miss Clara Fuhr, Analyst, U. S. Dept. of Agriculture.

May regulate the maximum number of free samples tested for any one person or firm in a given period of time.

ENFORCEMENT AND REGULATIONS

Missouri State Department of Agriculture, Jefferson City, Missouri.

W. R. Crispin, Marketing Specialist, Grain and Seed Division, U. S. Dept. of Agriculture.

Permit number to be secured annually at cost

of \$1.00 on application to Department of Agriculture. The permit expires December 31 each year.

"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."

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.
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.

(See page 106, group A.)

(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.

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. 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.

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.
8. Where grown.
9. Name and address of vendor.

(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 "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 pennis.*

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.

REGULATIONS

(April, 1940)

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 seedling. 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."

NEVADA

Law 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINERS

(A) Agricultural Seeds. One pound or more.

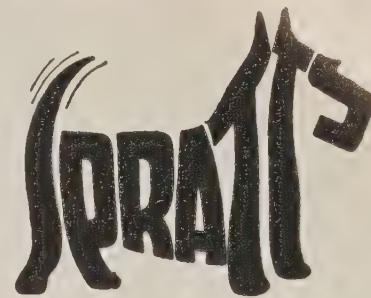
1. Commonly accepted name and bushel weight.
2. Percentage of other crop seeds.
3. Total number and kind of secondary noxious and common weed seeds present in each pound.
4. Percentage of inert matter.
5. Name and number per pound of each secondary noxious weed either singly or collectively present in excess of,
 - (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



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SPIX*—Bone-size biscuit for medium and large dogs, chock-full of nourishment.

CHARCOAL OVALS*—Aid in eliminating stomach gases and impurities. Popular with all breeds.

ASSORTED BISCUITS*—A package containing a variety of small biscuits particularly attractive to the dog.

* Not wartime substitutes . . . the same today as always.

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San Francisco, Cal.



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GRASSES
PEAS

*

Contract Growers
Small Seed

MOSCOW IDAHO

- 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 cress—*Lepidium draba*, *L. repens*, *Hymenophyllum 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 cress—*Roripia austriaca*; Buffalo-bur—*Solanum rostratum*.

SECONDARY NOXIOUS WEEDS

Five-hooked bassia—*Bassia hyssopifolia*; Crabgrass—*Digitaria sanguinalis*, *D. ischaemum*; Charlock—*Brassica arvensis*; Fanweed—*Thlaspi arvense*; Sandbur—*Cenchrus pauciflorus*; Horse-

nettle—*Solanum carolinense*, *S. elaeagnifolium*. Puncture vine—*Tribulus terrestris*; Dodders—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 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 1921

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural Seeds. One pound or more.

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of germination together with the month and year tested.
4. Name and address of vendor.

(B) Special mixtures. One pound or more.

1. Name and percentage of each kind of agricultural seed present in excess of 5% of the total mixture.
2. Percentage of germination of each kind of agricultural seed in excess of 5%, together with the month and year tested.
3. Name and address of vendor.

(C) Vegetable seeds—Turnips, rutabagas, and mangels are considered

agricultural seeds (A). Vegetable seed and Flower seed in tied or sealed packages must be marked with the year tested.

NOXIOUS WEEDS

None.

SEED LABORATORY

Agricultural Experiment Station.
Department of Agronomy.
Durham, New Hampshire.
Mrs. Bessie G. Sanborn, Analyst.

Tests

Citizens may submit samples of agricultural seeds for test and analysis, subject to rules and regulations adopted by the Commissioner.

ENFORCEMENT

State Department of Agriculture.
Concord, New Hampshire.
Commissioner of Agriculture.

NEW JERSEY

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.

(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*.

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:

- (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 with-

held 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.

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.

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.

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) 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.

"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 recleaned, 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.

COMSTOCK FERRE & CO.

Established 1820

GROWERS
and
WHOLESALE DEALERS

GARDEN SEED
FLOWER SEED
PEAS AND BEANS
ONION SEED
ONION SETS
SWEET CORN

Wethersfield, Conn.

Michigan Grown Farm Seeds

Alfalfa
Red Clover
Alsike
Hybrid Corn

Roscoe J. Carl
& Son

LANSING, MICHIGAN

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.

We Specialize

in

CARLOADS

ALFALFA

LESPEDeza

SOY BEANS

COW PEAS

SUDAN GRASS

CANE SEED

SEED CORNS

**RUSSELL-HECKLE
SEED COMPANY**

MEMPHIS, TENNESSEE

SEED LABORATORY AND TESTS

Seed Laboratory.
New York State Agricultural Experiment Station,
Geneva, New York.
M. T. Munn, State Seed Analyst.

ENFORCEMENT AND REGULATIONS

Enforcement—Department of Agriculture, Albany, New York. Holton V. Noyes, Commissioner of Agriculture.

Regulations—Use of word "certified" limited to seed which has been certified by an official of a State or Federal agency (part of the law).

Misrepresentations prohibited (part of law).

"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.

NORTH CAROLINA

Law of 1941, Regulations of 1941

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.

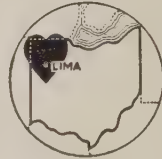
(D) **Vegetable seeds.**

In containers of less than ten pounds which

Farm Seeds

From Northwestern
Ohio are better

Highest
Purities



Hardest
Origin

When Refined by

THE ACKERMAN CO.

WHOLESALE FIELD SEEDS

Lima

Ohio

SWEET CLOVER

CRESTED WHEAT GRASS

NORTHERN ALFALFA

BROMUS

GOLDEN VIKING FLAX

WALSH FLAX

VICLAND SEED OATS

IMPROVED REGENT WHEAT

PILOT SEED WHEAT

SEED POTATOES

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ASK

FOR QUOTATIONS

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INTERSTATE

SEED & GRAIN CO.

FARGO, N. D.

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QUALITY FIELD SEED

YOUNG & CONWAY
MORGANFIELD, KY.

1867-1943
76 YEARS OF
SEED SERVICE

Barteldes
SEEDS

Featuring
Kansas Alfalfa Seed
All Garden Seeds
Flower Seeds
All Field Seeds
Grain Sorghums
T.N.T. POPCORN

The most complete stocks of all
seeds in the middle west.

THE BARTELDES SEED CO.
Lawrence, Kansas
Denver, Colorado

germinate less than the standard last adopted, shall show the actual germination.

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 2,500 dodder per pound.
5. Seed containing in excess of 3% of weed seeds except carpet grass and Dallis grass which shall not exceed 5%.

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.

“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.

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 purposes, 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 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 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.



Timothy
Red Clover
Alsike
Sweet Clover
Hardy
Alfalfas

Car Lots or Less

NORTHERN
Field Seed Co.
Winona - Minnesota

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

Wholesale Dealers
in

SWEET CLOVER
ALFALFA
TIMOTHY
ALSIKE

BROME GRASS
CRESTED WHEAT
GRASS

Write for Prices
and Samples

**GOLDBERG SEED
& FEED COMPANY**

Phone 3-1098

FARGO, NORTH DAKOTA

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.
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 pubescens*).

Russian knarweed (*Centurea picris*).

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, 1949).

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.

SEEDS

Field Flower Vegetable



Immediate Delivery on Most Items

Prompt, careful
service to the re-
tail dealer trade.

ASK HOLMES FIRST!

Holmes Seed Co.
CANTON, OHIO

SWEET CLOVER ALFALFA

BROMUS INERMIS

CRESTED WHEAT GRASS

SLENDER WHEAT GRASS

WESTERN WHEAT GRASS

TIMOTHY

ALSIKE CLOVER

GARDEN SEEDS

In Bulk and Packets

Magill & Co.

Since 1887 Operating

Fargo Seed House

FARGO

NO. DAKOTA

TIMOTHY CLOVER

and all kinds of

• FIELD SEEDS

Fancy Grasses
White Clover
POP CORN

Buyers and Sellers
Carlots or Less

CRAVER - DICKINSON
SEED COMPANY
BUFFALO NEW YORK

Wholesale

SEED CORN
GROWERS

Since
1878



NORTHERN
OHIO GROWN

SWEET
DENT, FLINT
ENSILAGE
POP-CORN



C. S. CLARK & SONS
WAKEMAN, OHIO

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

- 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 percentage of which involves one or more inbreds.
- 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.
- 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.
- 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:
 - A *Double Cross*—the first generation of a cross between two foundation hybrids (single crosses).
 - A *Three-Way Cross*—the first generation of a cross between a foundation hybrid (single cross) and an inbred line.
 - 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.
 - 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.

- FEEES**
- 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.
 - Certification tags will be supplied at the rate of one and one-half cents per bushel.
 - 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.

- Commonly accepted name.
- Percentage of pure seed.
- Percentage of weed seed.
- Name and number per ounce of each kind of noxious weed present singly or collectively in excess of (Prohibit 3% or over)
 - one seed in each 5 grams.
 - (See page 106, group A.)
 - one seed in each 25 grams.
 - one seed in each 100 grams.
- Percentage of:
 - Germination, exclusive of hard seeds.
 - Hard seeds.
 - Month and year of test. Test date shall not be over 300 days old. Tolerance of not over 10% allowed.
- Where grown on red clover and alfalfa.
- Name and address of vendor.

HEADQUARTERS

for

ALFALFAS



CLOVERS



GRASSES



FORAGES



RUDY-PATRICK
SEED CO.

KANSAS CITY, MO.

ROSS SEED CO.

INCORPORATED

Established 1895

LOUISVILLE, KY.



48
Years

The
Best

Wholesale Field and
Grass Seeds

Jobbers of

Orchard Grass . . Bluegrass . .
Redtop . . Clovers . . Timothy
. . Korean (Lespedeza) . . Soy-
beans . . Cowpeas, Etc.

Car lots or less

ROSS SEED CO.

INCORPORATED

15th and Lytle

Louisville, Ky.

MOORE

FARM

FLOWER

VEGETABLE

SEEDS

A WHOLESALE BROKERAGE
SERVICE THAT IS JUST A
LITTLE DIFFERENT
COMMERCIAL BEANS
MUSTARD SEED

Correspondence invited with grow-
ers and wholesalers considering a
profitable brokerage connection.

38 years' personal experience in the
Cincinnati market

CHARLES R. MOORE

Chamber Commerce Bldg.

CINCINNATI, OHIO

Telephone—Main 4246

Cables—Morseed

(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.
 - (b) Percentage of germination with the month and year of test.
 - (c) Name and address of person, firm or corporation responsible for labeling on the container.
3. Packet seed prohibited if germination is below Ohio standard. (See page 102.)

(D) "Certified" limited to seed certified by an approved agency—certification tag attached to container must show

1. Grower's name and address or his number registered with the Department of Agriculture.
2. Name of certifying agency.
3. The state of production.
4. Such other information as pertains to certification.

Prohibits the sale offering or exposing for sale of—

1. Agricultural seed containing in excess of 3% of noxious weeds.
2. Seed with a germination date test of more than 300 days old prior to date of sale.
3. Packet seed prohibited if germination is below Ohio standard.
4. Mixtures of agricultural seed containing over 15% inert matter.

NOXIOUS WEEDS

Canada thistle—*Cirsium arvensis*; Wild garlic—*Allium vineale*; quack grass—*Agropyron repens*; dodder—*Cuscuta* species; plantains—*Plantago* species (includes buckhorn); wild carrot—*Daucus carota*; ox-eye daisy—*Chrysanthemum leucanthemum*; corn cockle—*Agrostemma githago*; docks—*Rumex* species (including *Rumex acetosella* or sorrel); chicory—*Cichorium intybus*.

SEED LABORATORY AND TESTS

State Department of Agriculture.
Division of Plant Industry.
Columbus, Ohio.

C. N. McIntyre, State Seed Analyst.

Free tests—purity and germination 4 samples of red clover or similar seed, two samples of redtop or similar seed or one sample of lawn mixture or five germinations of vegetable seeds. Additional samples will be charged at the rate of 25 cents for all germinations.

Purity tests—clovers, alfalfa timothy, etc. \$.50
grasses as bluegrass, redtop. . . 1.00
mixtures of lawngrass. 2.00

ENFORCEMENT

Enforcement—Department of Agriculture.
Division of Plant Industry.
Columbus, Ohio.

Stanley E. Laybourne, Chief.

License—Each person or company shall pay a license fee to the Director of Agriculture for each separate place of business, according to quantities sold.

Quantities not exceeding 8 ounces for each \$25.00 wholesale value—\$.25 tax stamp
Quantities not to exceed 10 pounds for any container. . . \$2.50
Quantities up to and exceeding 10 pounds for any container. . \$5.00

REGULATIONS

Hard seeds must not be added to sprouted seed and designated as "total germination" or "total viable seed" or "total live seed."

GRAIN WOOL

SEED

DONLEY'S

Super-Cleaned

FIELD

and

LAWN SEED

J. L. DONLEY
& BRO.

ASHLAND

OHIO

INTERNATIONAL SEED, INC.

11 Park Place, New York City

Cable Address: "Seedtest New York"

E. E. PATTISON, President

Specialists in

Grass, Field, Vegetable Seed,
Spice and Feed Seed

Representatives
Consultants—Analysts

Maintaining our own Complete Seed Testing Laboratories
Open to the Seed Trade
Testing Accounts Solicited

MEMBERS OF THE AMERICAN SEED TRADE ASSOCIATION
MEMBERS [ASSOCIATE] SOUTHERN SEEDSMEN'S ASSOCIATION
MEMBERS ASSOCIATION OF COMMERCIAL ANALYSTS
MEMBERS (ASSOCIATE) PACIFIC SEEDSMEN'S ASSOCIATION

GENUINE

ALFALFA

ARIZONA GROWN

Known for Its
**HIGH PURITY and
GERMINATION**

BERMUDA GRASS SEED

a Specialty

Write for Samples & Prices

E. F. SANGUINETTI

Established 55 yrs.

YUMA,

ARIZONA



THE BELT SEED COMPANY INCORPORATED BALTIMORE

Better Lawn Grasses
and
Farm Seeds

By Royal Command
Purveyors to His Majesty
The American People



"Other Crop Seeds" must not be added in with the total purity percent on the label. The word "Hybrid" as applied to field, sweet or popcorn, shall not be used unless the "hybrid" corn represents the first generation of a cross involving (one, two, three or four) different inbred lines of corn or their combinations. **Hybrid Seed Corn**—The word "Hybrid" as applied to field, sweet or popcorn, shall not be used unless the "hybrid" represents the first generation of a cross involving one, two, three or four different inbred lines of corn or their combinations. In addition to labeling requirements (A) every lot, package, parcel or bag of seed corn sold as hybrid shall have plainly written or printed on the tag or label the name and number by which the hybrid is commonly designated. The vendor shall be responsible for registering with the Director of Agriculture, the pedigree of the hybrid and name of person, firm or corporation who developed each inbred involved in the cross.

OKLAHOMA

Statutes of 1931 Rules and
Regulations 1941

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 pound of each kind of noxious weed seed 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 germination, together with the month and year tested.
6. Name of state and county where grown; if unknown mark "origin unknown."
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.
3. Percentage of weed seeds.
4. Percentage of inert matter.
5. Name and number per pound of each kind of noxious weed seed present singly or collectively in excess of one seed in each 15 grams.
6. Percentage of germination of each kind of agricultural seed present in excess of 5%, together with the month and year tested.
7. Name of state and county where grown. If unknown, label "origin unknown."
8. Name and address of vendor.

(C) Vegetable seeds.

The term agricultural seeds includes stock beets, sugar beets, cabbage, tomatoes, onions, and all other field crops grown in Oklahoma; hence, all vegetable and truck seeds sold would come under labeling requirements (A).

NOXIOUS WEEDS

(February, 1940)

- Bindweed (*Convolvulus arvensis*)
- Blueweed (*Echium vulgare*)
- Bracted plantain (*Plantago aristata*)
- Buckhorn (*Plantago lanceolata*)
- Buffalo-burr (*Solanum rostratum*)
- Bullnettle (*Jatropha stimulosus*, *Solanum carolinense*)
- Chess or Cheat (*Bromus secalinus*)
- Coco grass or nut grass (*Cyperus rotundus*)
- Corncockle (*Agrostemma githago*)
- Dock, curly (*Rumex crispus*)
- Dodder (*Cuscuta arvensis*, *C. epithymum*)
- Hedge bindweed (*Convolvulus sepium*)
- Horsenettle (*Solanum carolinense*)
- Johnson-grass (*Sorghum halepense*, syn. *Andropogon halepense*)
- Mustard, wild (*Brassica arvensis*)
- Oats, wild (*Avena fatua*)
- Onion, wild (*Allium vineale*)
- Russian-thistle (*Salsola pestifer*, syn. *Salsola kali* var. *tenuifolia*)
- Sow thistle, perennial (*Sonchus arvensis*)
- Sorrel, red (*Rumex acetosella*)
- Thistle, Canada (*Cirsium arvense*)
- Wild buckwheat (*Polygonum convolvulus*)

STOP SALE ORDER

Any seed in violation of the Oklahoma Seed Law or Rules and Regulations shall be subject to a "Stop Sale Order." Seed on which such an order has been issued cannot be moved, sold or offered for sale until the violation has been corrected to the satisfaction of the inspector or otherwise disposed of, and released by the inspector.



Wholesale Dealers in

ALSIKE

RED CLOVER

ALFALFA

SWEET CLOVER

TIMOTHY

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STOLLERS SEED HOUSE

211 W. PERRY ST.

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Telephone Dorchester 0314

CHICAGO

#

Wholesalers of Imported
and Domestic

FIELD SEEDS

Blue Grass

Clovers

Red Top

Rye Grass

Fancy Grasses

Lawn Mixtures

Wholesale Field Seeds

Specialties

Alsike
 Red Clover
 White Clover
 Ladino Clover
 Yellow Hop Clover
 Hairy Vetch
 Spring Vetch
 Hungarian Vetch
 Austrian Peas
 Crimson Clover
 Poa Bulbosa
 Domestic Rye Grass
 Perennial Rye Grass
 Chewings Fescue
 Seaside Bent Grass
 Astoria Bent Grass
 Oregon Highland Bent
 Reed Canary Grass

JENKS WHITE SEED CO.
 SALEM OREGON

TRANSCONTINENTAL SEED, INC.

Grass and Field Seeds

20 Vesey Street
 New York City

Chewings Fescue
 Bentgrasses
 Orchard Grass
 Blue Grass
 Red Top
 Ryegrasses
 Timothy
 Red Clover
 Alsike Clover
 White Clover
 Wild White Clover
 Alfalfa
 Rape Seed

and all other kinds of Grass and Field Seeds.

Car lots, Truck lots, Bag lots.

IMPORT—EXPORT

Cable Address: TRANSEEDS, New York
 Phone: WOrth 2-6428

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—Each resident allowed 8 free samples in one year. Additional tests will be 50 cents for a complete test and 30 cents for either purity or germination. Non-resident fee 50 cents for each sample.

ENFORCEMENT AND REGULATIONS

Enforcement under State Seed Analyst and Quarantine Officer who is responsible to the State Board of Agriculture.

A quarantine regulation was issued August 1935, on all field seeds entering Oklahoma unless tagged with a complete label as (A) and accompanied by a Waybill showing the names of the consignor and consignee, the state and town of origin and the point of destination.

Cotton seed—To ship cotton seed into Oklahoma, an affidavit of location where grown and freedom from communicable disease must be filed with the Board of Agriculture—Permits for shipment charged at rate of 25 cents for all out-of-state dealers or shippers of agricultural seed shall secure a permit each year, before shipping seed into the state. If the seed is in bags the permit number shall appear on the tag, and if in bulk on the waybill or bill of lading.

All out-of-state dealers shipping seed into Oklahoma shall notify the State Department of Agriculture of each shipment giving:

1. Date of shipment.
2. Kind of seed or plants.
3. Amount in shipment.
4. To whom shipped.

No Hybrid seed corn shall be permitted entry into the state unless the Breeder has secured a special permit. The Breeder must meet the following requirements:

1. He must be officially recognized as a breeder in his state.
2. The Hybrid seed corn must be registered with the enforcing officer of the State Department of Agriculture giving:
 - a. Name and number by which the Hybrid is designated.
 - b. Pedigree of each component inbred, single cross, or open-pollinated variety.
 - c. The name of the Breeder who developed each inbred line, single cross, or open-pollinated variety in the hybrid parent stock.

Trucks and other motor conveyors, transporting seed on the public highways shall have available at all times for inspection, a bill of lading, waybill or delivery receipt showing:

1. Name of the shipper or party from whom purchased.
2. Name and address of party to whom the seed are to be delivered.
3. Kind and amount of each separate kind of seed.
4. Name of driver and truck line making delivery.

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.

BENT GRASSES

Astoria
 Seaside
 Colonial

Growers—Shippers

LEWIS & CLARK SEED CO.

Astoria Oregon

GOODING

IDAHO

All Varieties

Idaho
 Clovers
 and
 Alfalfas

Inquiries Solicited

The Gooding Seed Co.
 Gooding, Idaho

KING

headquarters

for

MICHIGAN

GROWN

SEEDS

RED CLOVER

ROSEN RYE

VETCH

H. C. KING & SONS, INC.

BATTLE CREEK MICHIGAN

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

- 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.)
- Name and number per pound of each noxious weed seed present.
- 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 ½ pound should be tagged as such.

**Exceptions which do not need to be tagged:

- Certified or registered seed.
- Vegetable varieties of Peas, Beans, Corn and seed of similar size in packages weighing less than 5 pounds.
- Other vegetable seeds in packets weighing not more than ½ 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. Dodders—*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*; Austrian field cress—*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 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.

ALFALFA

Montana
Nebraska

Dakota
Wyoming

Kansas

(U. S. Verified Origin)

Sweet Clover

Yellow

White

(Mustard and Thistle Free)

Cane Millet

Sudan

Ask for Prices and Samples
Carloads or Less

Griswold Seed & Nursery Co.

Lincoln, Nebr.

HAMILTON SEED and COAL COMPANY

Cedar Rapids, Iowa

Wholesale Dealers

TIMOTHY

ALSIKE

RED CLOVER

ALFALFA

HYBRID CORN

Wholesale Seeds

Farm Seeds
Imported Grasses
Lawn Mixtures
Hybrid Corn



Seaboard Seed
Company
Philadelphia, Penna.

NORTHERN GROWN FARM SEEDS

Alfalfa
Brome Grass
Sweet Clover
Red Clover

MILLETS

German
Hungarian
Early Fortune
White Proso

STORAGE

Best of Warehousing facilities available for the storing and distribution of seed stocks.

LESLIE EDGERTON

334 North 1st Street

MINNEAPOLIS

MINN.

G. R. Hyslop, 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 ON ANALYSIS TAGS

(A) **Agricultural Seeds. 10 pounds or more.**

1. Commonly accepted name.
2. Percentage of pure seed.
3. Percentage of weed seed. (Prohibit 3%)
4. Name and number per ounce of each noxious weed present singly or collectively in excess of:

(a) One in 5 grams.

(See page 106, group A.)

(b) one in each 25 grams.

(c) one in each 100 grams.

5. Percentage of germination together with month and year tested.
6. Where grown in case of Turkestan and Italian grown alfalfa or Italian and Chilian grown red clover.
7. Name and address of vendor.

(B) **Mixtures. 10 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 (Prohibit 3%).
4. Name and number per ounce of each kind of noxious weed present in excess of one seed in each 15 grams.
5. Percentage of germination of each agricultural seed present in excess of 5%, together with the month and year tested.
6. Where grown if Turkestan or Italian alfalfa or Italian or Chilian red clover.
7. Name and address of vendor.

(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 Chilian red clover.
7. Name and address of vendor.

(D) **Vegetable seeds defined but excluded from labeling.**

Prohibits 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.

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.

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, 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.

(See page 106, group A.)

(b) One in 25 grams.

(c) One in 100 grams.

(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.

Headquarters
FOR
High Quality

**NORTHERN
MINNESOTA**

SWEET CLOVER

ALFALFA

Timothy

Red Clover

Alsike Clover

Land O'Lakes Creameries, Inc.

SEED DIVISION

Minneapolis, Minnesota

A. ERTAG, Inc.

**730 Fifth Avenue
NEW YORK, N. Y.**



IMPORTERS—EXPORTERS



Always BUYERS and SELLERS
of

RED CLOVER

WHITE CLOVER

ALSIKE

ALFALFA

TIMOTHY

RYEGRASS

REDTOP

BLUEGRASS

RAPE SEED

CHEWINGS FESCUE

BENTGRASS

MUSTARD SEED

GREEN PEAS

SPLIT PEAS

SUDAN GRASS

CARROT SEED

etc.

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.

"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.

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. G. W. Breed, Director.
310 State House, Providence, Rhode Island.

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 collectively, 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.)

**THE
PHILADELPHIA
SEED CO., INC.**

ARCH & FRONT STREETS
PHILADELPHIA, PA.

•
Importers

Exporters

Refiners



**GRASS SEEDS
FIELD SEEDS
PIGEON GRAINS
BIRD SEEDS**

• **IMPORTERS**
• **EXPORTERS**
• **REFINERS**

Red Clover

White Clover

Alsike Clover

Timothy

Redtop

Blue Grass

Orchard Grass

Rye Grass

Fancy Grasses

Lawn Seed

Vetches

Bird Seed

DURYEA SEED CO., Inc.

Office and Warehouse: 18 Desbrosses St.

NEW YORK, N. Y.

Cable address—

DURYEASEED—NEW YORK

WM. G. SCARLETT & CO.

Office and Seed Cleaning Plant

729-743 E. Pratt St.
BALTIMORE, MD., U. S. A.

Cable Address,
"Scarlett, Baltimoremd"

◆
**Grass &
Field Seeds**

◆
Bird Seeds

◆
Lawn Seeds

WHOLESALE BROKER

IN

CLOVER SEEDS
GRASS SEEDS
RAPE SEEDS

From the Production to the
Consuming sections.

Write, wire or phone for quotations

H. J. MAYER

99 Hudson St., New York, N. Y.

(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.

Prohibits the sale, offering or exposing for sale of agricultural vegetable or flower seeds if—(Regulations)

- (1) Containing in excess of 5% of weeds, carpet grass 10%.
- (2) Containing 15 or more noxious weed seeds, singly or collectively, per ounce.

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.

CONFISCATION AND DISPOSITION OF SEIZED SEEDS.

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. 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.

SEED LABORATORY AND TESTS

Department of Agriculture, Columbia, South Carolina.

Commissioner may limit the number of free tests to residents.

Fee for purity tests \$2.00, germination tests \$1.00 to non-residents.

ENFORCEMENT AND REGULATIONS

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 *cratarlaria* and *lespedeza* 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.

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 ON ANALYSIS TAGS OR CONTAINERS.

(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 B1 and B2 and per pound in B3 and B4 when present singly or collectively in excess of:

- a. 1 seed in each 10 grams.
- 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.

Prohibits the sale, offering or exposing for sale, of agricultural or vegetable seed.

a. Unless the test for germination has been completed within a nine month period.

b. Containing primary noxious weeds subject to tolerances.

NOXIOUS WEEDS

Primary noxious weed seeds

PROHIBITED IN SEED SUBJECT TO TOLERANCES

Field bindweed—*Convolvulus arvensis*; Leafy spurge—*Euphorbia esula*, and *E. lucida*; Perennial peppergrass—*Lepidium draba*; Russian knapweed *Centaurea repens*; Perennial sow thistle—*Sonchus arvensis*; Canada Thistle—*Cirsium arvense*; Quack grass—*Agropyron repens*; Horse nettle—*Solanum carolinense*.

Secondary noxious weeds.

Wild oats—*Avena fatua*; Dodders—*Cuscuta* spp.; Wild mustards—*Brassica arvensis*, *B. nigra*, *B. juncea*; Penny cress—*Thlaspi arvense*; Ivy leaved morning glory—*Ipomea hederacea*; Hedge bindweed—*Convolvulus sepium*; Wild carrot—*Daucus carota*.

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.

"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.

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 tests | 50 | per sample. |
| Chaffy grasses and mixtures..... | 80 | " " |
| Corn germination | 25 | " " |
| Noxious weed examination..... | 20 | " " |
| Disease tests | 20 | " " |

Uncleaned seed will be tested and charged for on the basis of time required.

ENFORCEMENT AND REGULATIONS

Enforcement under Commissioner of Agriculture.

CERTIFIED SEED.

The Secretary of Agriculture has authority to:

1. Establish a seed certification system and make rules and regulations necessary.
2. Designate the names of kinds, varieties and strains, and establish the grades and standards of quality allowed in seed stock which may become eligible for field registration or certification of the seed crop.

3. Prescribe all labels, seals or certificates that shall be used in relation to seed grown, handled or offered for sale in South Dakota as "registered," "certified," "pedigreed," "elite," "foundation seed," or "inspected seed."
4. Cooperate with managers of any seed cleaning, treating or processing plants, or individual or person within or without the state that has proper facilities and equipment to handle seed which is eligible for registration or certification.
5. Cooperate and assist in selection, testing and growing of seed for certification purposes, and in the arrangement for increase and distribution of improved and foundation seed stock.
6. To fix and establish an equitable schedule of fees and charges which shall be uniform throughout the state for the inspection and certifying of South Dakota seed, and to collect all such fees and charges.

Labeling and Representing Registered and Certified Seed.

All seed grown in South Dakota or transported into this state must have the approval and authorization of the Secretary of Agriculture before it may be offered for sale as "registered," "certified," "pedigreed," "elite," "foundation stock" or "inspected seed."

Hybrid Seed Corn

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.

Any person or firm desiring to sell hybrid seed corn is required to register with the South Dakota State Department of Agriculture, and to furnish the pedigree of such hybrid seed corn, and when called for by the Department of Agriculture, shall furnish a sample not to exceed one quart for the purpose of testing.



Registered—Certified

ALFALFA SEED

Stocks Available for Immediate Shipment—
Spot or Future Delivery

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

BOX 169

YUMA, ARIZONA

ARIZONA FIELD SEEDS

ALFALFA

BERMUDA

CLOVERS

HEGARI

MILO MAIZE

MARTIN MILO

ARIZONA'S

LARGEST & MOST

RELIABLE SEED HOUSE

THUNDERBIRD
BRAND

ATLAS SORGO

SESBANIA

SUDAN

CAPITAL FUEL FEED & SEED
INSECTICIDES  FERTILIZERS

TENNESSEE

Act Effective July 1, 1939

INFORMATION REQUIRED ON ANALYSIS TAGS

(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.

1. That such seed is a mixture.
2. The kind and percentage of each kind of agricultural seed present in excess of 10% or more of the mixture, and items 3, 4, 5, 6, 7, 8 and 9; section (A).

(C) Vegetable and Flower Seed.

Mentioned only under annual \$1.00 license fee.

(D) Hybrid Corn.

Any 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. Require names of originator(s) and pedigree, including name or variety or parentage of said hybrid corn, to be registered with the Commissioner of Agriculture.

NOXIOUS WEEDS

Canada Thistle
Corn Cockle
All Dodders*
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.

* Regulation Feb. 24, 1941. Maximum dodder in lespedeza 100 per pound.

CERTIFIED

Use of word "Certified" limited to seed certified by a certifying agency or to seed registered by the International Crop Improvement Association.

Certification tag must show:

1. Grower's name or number and address.

2. Name and address of certifying agency.
3. The state, province, territory or county where grown.

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.

The Commissioner of Agriculture is authorized to:

- (1) Prescribe the type of tag or label.
- (2) prescribe the type of stamp or other evidence of payment of the inspection fee.
- (3) Fix the minimum percentages of purity and germination for agricultural seeds and mixtures.
- (4) Fix the maximum number of noxious weed seeds per pound.
- (5) Make and promulgate such rules and regulations as may be necessary for the enforcement of this act.

There shall be an inspection fee of 2 cents per bushel on the following: Red Clover, White Clover, Crimson Clover, Lespedeza, Alfalfa, Kentucky Blue Grass, Timothy, Bromo Grass, Orchard Grass, Redtop, Meadow Fescue, Oat Grass, Rye Grass, Millet, Bermuda Grass, Sudan Grass; together with a \$1.00 license fee, per annum. The \$1.00 license fee shall apply to vegetable and flower seed.

TEXAS

Law of 1941

INFORMATION REQUIRED ON ANALYSIS TAGS OR CONTAINER

(A) Agricultural Seeds. (Unmixed) Every lot. Use Texas tags.

- (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 seed.
 - b. Hard seeds.
 - c. 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.

- (8) Origin of alfalfa, red clover and field corn. If origin is unknown, it must be so stated.
- (9) Name and address of person who labeled seed, or who sells, offers or exposes seed for sale.
- (10) 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:
 - a. 1 in each 5 grams.
 - b. 1 in each 10 grams.
 - c. 1 in each 25 grams.
 - d. 1 in each 100 grams.(See page 106, group B.)

(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.

- (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. Test shall have been completed within a twelve month period, exclusive of the month in which the test was completed.
 - d. Marked "BELOW STANDARD" in not less than 8 point type.
- (3) 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,

- A. Agricultural or vegetable seed containing primary noxious weeds subject to tolerances.
- B. 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, re-labeled 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 of 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 1939 and Regulations

INFORMATION REQUIRED ON ANALYSIS TAG

(A) Agricultural Seed. Every lot.

1. Commonly accepted name.
2. Lot number or designation.
3. Percentage of pure seed.
4. Percentage of weed seed (Prohibit over 1% by Regulation 5).
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. Every 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% by Regulation No. 5).
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. Every 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% by Regulation No. 5).
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.

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 overnight shipments.

NICHOLSON'S SEEDS have set the standard of quality in the Southwest for more than 50 years. If you do not receive our wholesale list, please send us your name.

ROBERT NICHOLSON SEED CO.

DALLAS - - TEXAS

SNELSON SEED CO.

Main Office
Savannah, Ga.

Jacksonville
Florida

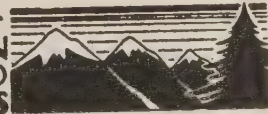
Chester
South Car.

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 |
| Burr | Millets | Sunflower |
| Crimson | (Cattail and | Velvet Beans |
| White | Brown Top) | Vetch |
| Chufas | Mung Beans | Wheat |

Wholesale Field and Grass Seed

...BLUE
MOUNTAIN
SEED
GROWERS
ASSOCIATION



Ontario, Oregon

Hardy Idaho and Oregon
Northern Grown Seeds

ALFALFAS

| | |
|-------|---------|
| Ladak | Orestan |
| Grimm | Common |

GRASSES

| | |
|-------------------|-----------------------------|
| Chewings fescue | Orchard grass |
| Bulbous bluegrass | Timothy |
| Bromus inermis | Fall fescue |
| Meadow fescue | Poa ampla |
| | Standard crested wheatgrass |
| | Fairway crested wheatgrass |
| | Red creeping fescue |
| | Slender wheatgrass |

CLOVERS

| | |
|---------------------|---------------|
| Fancy red clover | White Dutch |
| Strawberry clover | Ladino clover |
| Yellowblossom Sweet | Alsike clover |

Austrian Field Peas
CARLOTS OR LESS

Growers

of

CROTALARIA RICE

CATTAIL MILLET

BLUE LUPINE

SEED CORN

SOY BEANS

OTOOTANS - PALMETTO

CLEMSON - AVOYELLES

MACOUPIN - MAMLOXI

All Seed Graded and A-1 Quality

We Will Appreciate Your
Inquiries for Sample and Prices

Wholesale Only

Riemers' Farms

ELBERTA ALABAMA



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"

(D) Vegetable seeds same as agricultural seeds. See (A) above.

Prohibit the sale, offering or exposing for sale agricultural or vegetable seeds containing

- Primary noxious weeds.
- In excess of 90 secondary noxious weed seeds per pound.
- In excess of 1% of weed seeds.

NOXIOUS WEEDS

Primary—Prohibited.

White top, *Lepidium draba*; Wild Morning Glory, *Convolvulus arvensis*; Canada thistle, *Cirsium arvense*; Russian Knapweed, *Centaurea picris*; Perennial Sow Thistle, *Sonchus arvensis*; Perennial Ragweed, *Ambrosia Psilostachya*; Leafy spurge, *Euphorbia esula*; Puncture vine, *Tribulus terrestris*; Night shade (Ground cherry), *Physalis heterophylla*; Blue flowering lettuce, *Lactuca pulchella*; Quack grass, *Agropyron repens*; Bermuda grass, *Cynodon dactylon*.

Secondary

Give name and number per pound if not to exceed 90 per pound; prohibited if over. Whorled or Poison milkweed, *Asclepias galioides*; Burdock (great), *Arctium lappa* (small), *A. minus*; bull thistle, *Cirsium lanceolatum*; Cockle bur, *Xanthium orientale*; Alfalfa dodder, *Cuscuta* spp.; Perennial ground cherry, *Physalis longifolia*; Poverty weed, *Iva axillaris*; Larkspur, *Delphinium menziesii*; Delphinium cuculatum; Water Hemlock, *Cicuta maculata*; Buckhorn Plantain, *Plantago lanceolata*.

SEED LABORATORY AND TESTS

State Seed Laboratory.
Department of Agriculture.
Salt Lake City, Utah.
Georgeanna Cameron, Analyst.
Tests—subject to rules by the State Board of Agriculture.

REGULATIONS

- Screenings must be ground or otherwise de-ventilized 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 State Board of Agriculture.

- Use the *Rules for Seed Testing* recommended by the Official Seed Analysts Assn.
- Primary Noxious Weeds are prohibited in any quantity.
- Secondary Noxious Weeds prohibited when more than 90 per pound.
- Total of more than 1% of weed seeds prohibited.
- Quarantine and disposal of any seed, feed or hay containing any primary noxious weed, plant 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.

Original Label—The analysis label of original seller may be retained for a period not to exceed 3 months from the date of delivery.

Quarantine No. 9A

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.

- The commonly accepted name.
- Percentage of pure seed.
- Percentage of weed seed.
- Name and number per ounce of each noxious weed present singly or collectively in excess of:
 - one seed in each 5 grams. (See page 106, group A.)
 - one seed in each 25 grams.
 - one seed in each 100 grams.
- Percentage of germination together with the month and year tested.
- Where grown in case of imported alfalfa, clover, alfalfa and orchard grass.
- Name and address of vendor.

(B) Mixtures of not more than two kinds. Ten pounds or more.

- 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.
- Name and number per ounce of each noxious weed seed present singly or collectively in excess of one seed in each 15 grams.
- Percentage of germination of each kind of agricultural seed present in excess of 5% together with the month and year tested.
- Where grown in case of imported alfalfa, red clover and orchard grass.
- Name and address of vendor.

(C) Special mixtures. Eight ounces or more.

- That such seed is a mixture.

- Name of each kind of agricultural seed present in proportion of 5% of the total mixture.
- Percentage of weed seeds.
- Percentage of inert matter.
- 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.
- Where grown in case of imported alfalfa, red clover or orchard grass.
- 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.

43 YRS. OF SERVICE

Gold Medal FIELD SEED



OUR SPECIALTIES

REDTOP TIMOTHY
ORCHARD GRASS
BLUE GRASS
KOREAN LESPEDEZA
SOY BEANS COW PEAS



LOUISVILLE SEED COMPANY

LOUISVILLE, KENTUCKY
Branch Office and Warehouse
LOUISVILLE, ILLINOIS

HARDY!

WESTERN CANADIAN
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BROME
ALSIKE
ALFALFA
TIMOTHY
RED CLOVERS
SWEET CLOVERS
CRESTED WHEAT GRASS
SLENDER WHEAT GRASS

• LEADING VARIETIES •
WHEAT - OATS - BARLEY
FLAX - RYE

Carlot or L.C.L.

Write, phone or wire
for Quotations

McCABE BROS. GRAIN CO., Ltd.

980 Grain Exchange Bldg.
WINNIPEG • CANADA

VIRGINIA

Amended and Re-enacted 1938
Regulations 1942

INFORMATION REQUIRED ON ANALYSIS TAG

(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 "cowpeas."
- (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).

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 corporation 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.

SEED LABORATORY AND TESTS

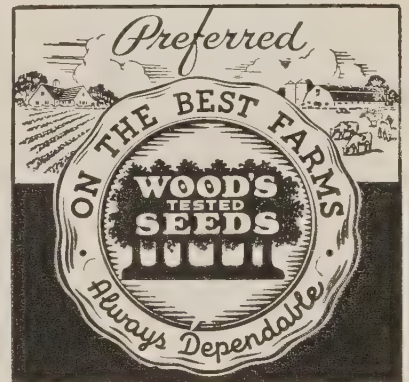
1112 State Office Building, Richmond, Virginia.
In charge of G. T. French, State Entomologist and Chief Botanist.
The Commissioner of Agriculture may fix the maximum number of samples tested free of charge for any one period of time for any individual firm or corporation.

SEEDS

FROM



MARK MEANS CO.
LEWISTON, IDAHO



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

SHENANDOAH
VALLEY'S
SEED
HOUSE
Car Lot Buyers
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AND
GARDEN SEEDS

Write for Prices on

ORCHARD GRASS, BLACK WILSON
SOYBEANS & KOREAN LESPEDEZA
IN CAR LOTS AND LESS



The WETSEL SEED COMPANY, Inc.
HARRISONBURG, VIRGINIA
ESTABLISHED 1911

DAKOTA IMPROVED SEED CO.

Disco

Mitchell and Redfield, Emmetsburg,
S. Dakota Iowa

Alfalfa

South Dakota, Wyoming
Common, Grimm, Cossack

U. S. Verified and State Sealed

**Crested Wheat
Grass**

Canadian and Domestic
Standard and Fairway

Brome Grass

Canadian and Dakota Grown

Kentucky Bluegrass
Idaho Grown Dwarf Essex Rape

ENFORCEMENT AND REGULATIONS

Enforcement—Commissioner of Agriculture.
Regulations—*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 ON ANALYSIS TAG OR CONTAINER

(A) Agricultural Seeds (Unmixed) Every lot.

- 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 weeds.
- 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 nine month period exclusive of the month in which test was made.

Following (a) and (b) "Total germination and hard seed" may be given if desired.

- Origin of alfalfa, red clover and field corn (except hybrid). If origin is unknown it must be so stated.
- Name and address of person who labeled seed, or who sells, offers or exposes said seed for sale.
- Name and number of each secondary noxious weed per pound when present singly or collectively in excess of
 - 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.
 - 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).
 - 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.

(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.

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.

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 *Hymenophyssa pubescens*; Yellow toadflax—*Linaria vulgaris*; Russian knapweed—*Centaurea picris*; Blue flowering lettuce—*Lactuca pulchella*; Leafy spurge—*Euphorbia esula*; Camelthorn—*Alhagi pseudalhagi*; Austrian field cress—*Radicula austriaca*; Perennial peppergrass—*Lepidium latifolium*.
- Secondary noxious weeds.

Alkali mallow—*Sida hedracea*; 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*.

"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.

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."

SEED LABORATORY AND TESTS

Seed Laboratory, Dept. of Agronomy, State College of Washington, Pullman, Washington, E. G. Schafer in charge. Dwight D. Forsyth, see 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

HOLLENBACH'S SEED STORE

DEALERS
ONION SETS

GROWERS
ONION SEED

Also General
Seed Line

808 W. LAKE ST.
CHICAGO

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 clean-
ing plants in Louisiana

W. T. NOLIN
HAMBURG, LOUISIANA

- (4) Seed mixtures containing two species when the lesser of the two species consists of more than five percent (5%) of the total. 3.00
- (5) 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

- (1) Seeds in purity groups (1) and (2) . . \$0.50
- (2) Seeds in purity group (3) 1.00
- (3) Charges for germination of mixtures shall be the sum of the charges for germinating each single species as given above.

ENFORCEMENT AND REGULATIONS

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 packeter who is licensed.

WEST VIRGINIA

Law 1937 Regulations of 1942

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(A) Agricultural Seeds. Every lot.

- (1) Commonly accepted name of: (Regulation.)
 - (a) Kind,
 - (b) Variety, or
 - (c) Type.
- (2) Percentage of pure seed.
- (3) Percentage of weed seed (prohibit 3%).
- (4) Percentage of other agricultural seeds. (Regulation.)
- (5) Percentage of: (Regulation.)
 - (a) Germination, exclusive of hard seeds.
 - (b) Hard seeds.
 - (c) Month and year of test.
 Following a & b "Total" may be shown if desired.
- (6) Origin of red clover, alsike clover and alfalfa.
- (7) Name and address of vendor.
- (8) Name and number per ounce of each kind of noxious weed seeds present in excess of:
 - (a) One in each 5 grams. (See page 106, group A.)
 - (b) One in each 25 grams.
 - (c) One in each 100 grams.

(B) Mixtures (All mixtures — Regulations). 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 (prohibit 3%).
- (4) For each kind of agricultural seed mentioned in (2) give percentage of:
 - (a) Germination, exclusive of hard seeds.
 - (b) Hard seeds.
 - (c) Month and year of test.
 Following a & b "Total" may be given if desired.
- (5) Origin of red clover, alsike clover and alfalfa. (Regulation.)
- (6) Name and address of vendor.
- (7) Name and number per ounce of each kind of noxious weed seed present. (Regulation.)

(C) Vegetable seeds included in agricultural seed. Label as under (A).

- (See page 102 for germination standards.)
- Prohibits 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.

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 thistle—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.

HARDY SELECTED NORTHERN GROWN SEED

ALFALFA SWEET CLOVER
RED and ALSIKE CLOVER
TIMOTHY
TIMOTHY and ALSIKE
SEED CORN

SHIPPERS OF
CARLOTS - - MIXED CARS



Pride of the North Brand
Guaranteed Highest Quality Field
Seeds

WRITE FOR SAMPLES AND PRICES

TWIN CITY SEED CO.

STANLEY FOLSOM, Mgr.
130 2nd St., N.E. Minneapolis, Minn.



Since 1873

KENTUCKY BLUE GRASS

BRENT'S PREMIUM SEEDS

Field Seeds

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Newer Worth While Grains

Balbo Rye

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Barley

Hardy Beardless Winter Barley

Fulwin and Tennex Hardy Winter
Oats

Tobacco Seed

The
G. S. Brent Seed Co.

Incorporated

LEXINGTON KENTUCKY

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

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HIGH QUALITY

Field Seeds



BIG CHIEF BRAND



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

**NORTHWESTERN
SEED CO.
INC.**

KEOKUK,

IOWA

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, kafir 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.

ENFORCEMENT AND REGULATIONS

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.

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.

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%, 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 kind of secondary noxious weed seeds present singly or collectively in excess of:

- a. 1 in each 25 grams of redbud, 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.

Prohibits the sale, offering or exposing for sale of—

- (A) Agricultural seeds containing primary noxious weeds subject to tolerances.
- (B) Agricultural seeds containing secondary noxious weeds, singly or collectively, in excess of:
 - 1 seed in 5 grams of the agricultural seeds listed in A-10-a.
 - 1 seed in 10 grams of the agricultural seeds listed in A-10-b.
 - 1 seed in 25 grams of the agricultural seeds listed in A-10-c.
 - 1 seed in 50 grams of the agricultural seeds listed in A-10-d.
 - 1 seed in 100 grams of the agricultural seeds listed in A-10-e.
- (C) Any agricultural seed containing in excess of 5% of weed seeds, except ragweed (*Ambrosia elatior*) and foxtail (*Chaetochle spp.*), which may be present either singly or collectively at a rate not to exceed 10%, if the total weed seed content does not exceed 10%.
- (D) Any agricultural or vegetable seed unless the test for germination shall have been completed within a 12 month period, exclusive of the month in which the test was completed.
- (E) Any alfalfa seed represented to be Grimm, Cossack or Ladak variety and any field seed corn represented to be hybrid, unless such seed is certified as to variety by a seed certifying agency which is approved by the department as satisfactory for the performance of seed certification and the official tag of such agency is properly attached to each container.

NOXIOUS WEEDS

(A) Primary Noxious Weeds.

PROHIBIT SEED CONTAINING ANY SUBJECT TO TOLERANCES.

Field bindweed—*Convolvulus arvensis*; Leafy spurge—*Euphorbia esula*; Canada thistle—*Cirsium arvense*; Quack grass—*Agropyron repens*.

(B) Secondary Noxious Weeds.

Dodders—*Cuscuta spp.*; Wild mustard—*Brassica arvensis*; Indiana mustard—*Brassica juncea*; Buckhorn—*Plantago lanceolata*; Ox-eye daisy—*Chrysanthemum leucanthemum*; Perennial sow thistle—*Sonchus arvensis*.

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

For 26 Years

WE HAVE BEEN PRODUCING

FAVORABLY KNOWN

IDAHO

GROWN

SEED

PEAS & BEANS

UNDER IRRIGATION IN
HIGH MOUNTAIN VALLEYS



FILER SEED COMPANY
BLACKFOOT, IDAHO

"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 packaged and distributed by seedsmen 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 Clover seed.
3. Seed containing hard seed shall be labeled by one of the following methods:
 - a. Germination% including% hard seed.
 - b. Germination including hard seed%
Hard seed%
 - c. 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.

WYOMING

Law of 1941

**INFORMATION REQUIRED ON
ANALYSIS TAG OR CONTAINER.**

(A) Agricultural Seeds. Five pounds or more.

- (1) Commonly accepted name of:
 - a. Kind and variety or,
 - b. Kind and type.

QUALITY SEEDS

Growers

- Wisconsin Seed Barley
- Certified Seed Corn
- Hybrid Seed Corn

Distributors

- Northern Grown Clovers
- Hardy Alfalfas
- Reed Canary Grass
- Canadian Bromus

CAR LOTS OR LESS

WE SOLICIT YOUR INQUIRIES

**L. L. OLDS
Seed Company**

MADISON

WISCONSIN

BUYERS — SELLERS

Timothy Clover

Alfalfa Alsike

Seed Corn

Lawn Grasses

Garden Seed

We solicit your offers and inquiries



LA GERMINADORA

Hijos de S. V. Bellotti Co.

Largest Growers of

CERTIFIED

Vegetable and
Field Seed

in the

Argentine Republic

Importers and Exporters
of All Kinds of Seed

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Buenos Aires,
Republica Argentina

Ladino

The GIANT
WHITE

CLOVER SEED

Grows from three to four
times as fast and as large as
ordinary white clover.

Makes an excellent pasture
and will handle more stock per
acre than any other crop.

All seed certified, sealed and
shipped under State super-
vision.

Write for Samples and Prices

JOSEPHINE

GROWERS COOP. ASSN.

Largest Growers of Certified Ladino Seed
in the United States

GRANTS PASS

OREGON

- (2) Lot number or other lot identification.
- (3) Percentage of pure seed.
- (4) Percentage of inert matter.
- (5) Percentage of common weed seeds.
- (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 agricultural seeds. (A)

Prohibits the sale, offering or exposing for sale or distribution of—

Agricultural or vegetable seed containing any of the seeds of the named perennial noxious weed seeds.

NOXIOUS WEEDS

Cocoa grass—*Cyperus rotundus*; horse nettle—*Solanum carolinense*; Austrian field cress—*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*.

"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. Recleaned so that no noxious perennial weed seeds are present.

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.

LABORATORY AND TESTS

Agricultural Experiment Station, Laramie, Wyoming. Lambert C. Erickson, analyst.

Charges of fifty cents will be made for each test, however ranchers and farmers may secure two tests free each calendar year.

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).

STATE TAG. The authorized labeling tag may be furnished by the State Department of Agriculture at a cost of one cent each.

FEDERAL SEED ACT—INTERSTATE COMMERCE

August 1939

INFORMATION REQUIRED ON ANALYSIS TAG OR CONTAINER

(A) Agricultural seeds (unmixed)

Every lot, effective February 1940

1. 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 other crop seed.
5. Percentage of inert matter.
6. Percentage of weed seeds.
7. 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.
8. Percentage of germination exclusive of hard seeds.
9. Percentage of hard seeds if present.
10. 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.)
11. 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.)
12. 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

1. Name of kind and variety.
2. Name and address of person who transports the seed in interstate commerce or the per-

son 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:

3. Percentage of germination exclusive of hard seed.
4. Percentage of hard seed, if present.
5. 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.)
6. 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 an 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 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 serv-

ice 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, lespedeza | 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.

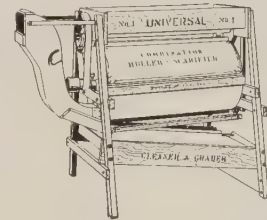
NOXIOUS WEEDS.

Bermuda grass—*Cynodon dactylon*
Bindweed—*Convolvulus arvensis*
Canada thistle—*Cirsium arvense*
Quack grass—*Agropyron repens*
Wild onion—*Allium vineale*

UNIVERSAL

COMBINATION

HULLER - SCARIFIER CLEANER



A machine built especially for Seed Growers, 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

Wholesale SEED CORN GROWERS

Hand Picked . . . Germination 90 to 100% . . . Car Lots or Assorted Cars . . . Early and Late Field Corn. Hybrid Seed Corn.

Also Several Varieties

**SUGAR CORN
FLINT AND
POPCORN**

WRITE OR
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**COUNCIL BLUFFS
SEED COMPANY**

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Idaho Grown Seeds

SHIPPERS AND GROWERS

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

**EDGAR L. OAKES
& CO.**

CALDWELL IDAHO

This Year, More Than Ever GROWERS NEED PENETROL

An Activator and Spreader for nicotine sulphate, a sticker and spreader for—

**THE ARSENATES
THE SULPHATES
BORDEAUX MIXTURE
GROUND DERRIS**

PENETROL

meets the urgent need for greater production by helping what insecticides are available do a better job. Being made wholly of non-critical materials, PENETROL is available without restriction.

NICOTROL,

a companion product, is a complete, self-spreading nicotine insecticide.

Every up-to-date Seed Catalog should list PENETROL and NICOTROL. Send for leaflets and agency proposition.

Kay-Fries Chemicals, Inc.
180 Madison Ave., New York
Dept. B

CYANOLOGAS

REG. U. S. PAT. OFF.
CALCIUM CYANIDE



CYANOLOGAS A-DUST DISPLAY CARTON

CYANOLOGAS* is calcium cyanide, a material which liberates hydrocyanic acid gas (HCN) on exposure to the natural moisture in the air. A fine powder CYANOLOGAS 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. CYANOLOGAS ANT-KILLER is specially packed for treating ant nests in lawns and gardens. CYANOLOGAS 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, RANGERS, POULTRYMEN require CYANOLOGAS to kill destructive rodents such as RATS, MICE, WOODCHUCKS (GROUND-HOGS), MOLES, GROUND SQUIRRELS, GOPHERS and PRAIRIE DOGS.

GARDENERS, HOME OWNERS use CYANOLOGAS ANT-KILLER to rid lawns and gardens of ants.

GREENHOUSES use CYANOLOGAS G-FUMIGANT throughout the year for the control of many kinds of insect pests.

FLOUR MILLS and GRAIN ELEVATORS fumigate to control insects to produce clean flour and to save grain from damage.

WAREHOUSES, including seedsmen, fumigate with CYANOLOGAS regularly to control both insect and rodent pests.

PEST CONTROL OPERATORS are large purchasers of CYANOLOGAS A-DUST for use in their rat control activities.

HEALTH OFFICERS both endorse and use CYANOLOGAS for rat control in the U. S. A. and throughout the world.

FOR FURTHER INFORMATION WRITE AMERICAN CYANAMID & CHEMICAL CORPORATION A Unit of American Cyanamid Company Insecticide Department

30 Rockefeller Plaza, New York, N. Y.
Kansas City, Mo. Azusa, Cal.

*Reg. U. S. Patent Office

CYANOLOGAS

REG. U. S. PAT. OFF.
CALCIUM CYANIDE

Corn Data

Charts, Tables and Miscellaneous Material to Growers, Processors and Retailers of Hybrid Corn. Material Supplied by Funk Bros. Seed Co.

Labor and Power Requirements

(Requirements in Hours Per Acre)

| Operation & Machine Used | Source of Power | Labor | | |
|---|------------------|-------|-------|---------|
| | | Man | Horse | Tractor |
| Crop Residue Disposal | | | | |
| Harrow, rake and burn | Row-crop tractor | .47 | | .38 |
| Cut with 14 ft. disc harrow | Row-crop tractor | .23 | | .22 |
| Primary Soil Preparation: | | | | |
| 2-16 in. plow 6" disc rot. hoe | 20 H.P. tractor | .88 | | .84 |
| 2-14 in. plow | 6 horses | 1.83 | 10.57 | |
| 6 ft. cover crop disc | 20 H.P. tractor | 1.02 | | 1.00 |
| 11.5 ft. field cultivator | 20 H.P. tractor | .50 | | .50 |
| 8 ft. disc harrow and 10 ft. spike harrow | 20 H.P. tractor | .86 | | .84 |
| Secondary Soil Preparation: | | | | |
| 8' tandem disc harrow | 20 H.P. tractor | .34 | | .33 |
| 10' spike-tooth harrow | | | | |
| 14' single disc harrow | Row-crop tractor | .22 | | .21 |
| 14' single disc harrow | 4 horses | 1.15 | 4.42 | |
| 30' spike-tooth harrow | Row-crop tractor | .08 | | .08 |
| 20' spike-tooth harrow | 4 horses | .25 | .98 | |
| Planting: | | | | |
| 4-row planter | 20 H.P. tractor | .25 | | .24 |
| 2-row planter | Row-crop tractor | .55 | | .50 |
| 2-row planter | 2 horses | .79 | 1.55 | |
| 2-row lister | 6 horses | .95 | 5.80 | |
| 2-row lister | 15 H.P. tractor | .55 | | .55 |
| Cultivation: | | | | |
| 21' spring-tooth weeder | Row-crop tractor | .14 | | .12 |
| 21' rotary hoe | Row-crop tractor | .16 | | .13 |
| 4-row cultivator | 20 H.P. tractor | .25 | | .24 |
| 2-row cultivator | 15 H.P. tractor | .44 | | .42 |
| 2-row cultivator | 4 horses | .59 | 2.35 | |
| 1-row cultivator | 2 horses | 1.20 | 2.40 | |
| Harvesting: | | | | |
| Hand husking | 2 horses | 5.50 | 11. | |
| 1-row picker | 15 H.P. tractor | 1.75 | | 1.50 |
| 2-row picker | 20 H.P. tractor | 1.33 | | 1.00 |
| Cutting with binder | 3 horses | 1.5 | 4.5 | |
| Cutting with field harvester | 20 H.P. tractor | 1. | | 1. |
| Hauling to silo | 2 horses | 5. | 10. | |
| Filling silo | 20 H.P. tractor | 5. | | 1. |

Hours are for one time over one acre with machine used. Harvest figures are based on average yields of 8 tons silage or 50 bushels ear corn per acre.

How to Determine Acreage of Corn in the Field

Determine the number of acres in a field or trial plot as follows:

If the dimensions are known or measured, multiply the length in rods times the width in rods to get the area in square rods. Divide this area in square rods by 160 (number sq. rods in an acre). The result is the number of acres or fraction of acres.

If the dimensions are not known, multiply the number of rows times the average width between rows (in feet) times the length of the plot (in feet) to get the area in square feet. Divide this area in square feet by 43,560 (number sq. ft. in an acre). The result is the number of acres or fraction of acres.

To harvest or plant an approximate acre of corn, cover the number 80 rod rows or their equivalent shown below:

| Row Spacing | No. of Rows | Row Spacing | No. of Rows |
|--------------|-------------|--------------|-------------|
| 3 ft. | 11¼ | 3 ft., 4 in. | 10 |
| 3 ft., 2 in. | 10½ | 3 ft., 6 in. | 9½ |

To lay out one acre of land four times as long as the width the length is 417 feet, 4 inches, and the width is 104 feet, 4 inches. Depth of one acre plots for the following frontage widths is:

| Frontage | Depth | Frontage | Depth |
|----------|------------|----------|-----------|
| 20 feet | 2187 feet | 40 feet | 1089 feet |
| 25 feet | 1742½ feet | 50 feet | 876½ feet |
| 33 feet | 1320 feet | 100 feet | 435½ feet |

Analysis and Feeding Value of Corn

| Feedstuff | Percentage Composition by Weight | | | | | | | |
|-------------------------------|----------------------------------|-----|---------------|---------------------|--------------------------------------|-------------|---------|------------|
| | Moisture | Ash | Crude Protein | Ether Extract (fat) | Nitrogen Free Extract (carbohydrate) | Crude Fiber | Calcium | Phosphorus |
| Corn, Shelled | 12.9 | 1.3 | 9.3 | 4.3 | 70.3 | 1.9 | .01 | .26 |
| Corn (ear) Chop | 10.7 | 2.0 | 8.2 | 3.4 | 66.5 | 9.2 | | |
| Corn Fodder (green, immature) | 79.0 | 1.2 | 1.7 | .5 | 12.0 | 5.6 | | |
| Corn Fodder (green, mature) | 73.4 | 1.5 | 2.0 | .9 | 15.5 | 6.7 | | |
| Corn Fodder (dried) | 11.8 | 5.8 | 7.4 | 2.4 | 49.6 | 23.0 | | |
| Corn Stover (dried) | 10.7 | 6.1 | 5.7 | 1.5 | 45.7 | 30.3 | .45 | .10 |
| Corn Silage (immature) | 79.1 | 1.4 | 1.7 | .8 | 11.0 | 6.0 | | |
| Corn Silage (mature) | 70.9 | 1.4 | 2.4 | .9 | 17.5 | 6.9 | | |
| Corn Stover Silage | 80.7 | 1.8 | 1.8 | .6 | 9.5 | 5.6 | | |

Digestible Constituents, Percent by Weight

| | Digestible Protein | | | | Total Digestible Nutrients | | | |
|----------------------|--------------------|-------|------|---------|----------------------------|-------|------|---------|
| | Cattle | Sheep | Hogs | Poultry | Cattle | Sheep | Hogs | Poultry |
| Corn, Shelled | 5.2 | 7.5 | 7.2 | 7.9 | 78.3 | 73.9 | 80.0 | 80.0 |
| Corn (ear) Chop | 4.8 | 5.7 | 6.2 | | 68.6 | 75.6 | 70.2 | |
| Corn Fodder (dried) | 3.4 | | | | 54.4 | | | |
| Corn Stover (dried) | 2.5 | 2.1 | | | 53.4 | 49.8 | | |
| Corn Silage | 1.1 | 1.1 | | | 17.5 | 17.4 | | |
| Corn Stover (silage) | .9 | .9 | | | 10.4 | 10.1 | | |

U. S. Corn Production

Acreage and Percent Hybrid

| STATE | Bushels Produced for Grain 1941 | Acreage Planted 1941 | Yield Per Acre 1941 | Percent Acreage Planted in Hybrid 1941 |
|---------------|---------------------------------|----------------------|---------------------|--|
| Iowa | 442,527,000 | 9,114,000 | 51. | 95 |
| Illinois | 387,292,000 | 7,645,000 | 52.5 | 87 |
| Indiana | 170,820,000 | 3,934,000 | 45. | 80 |
| Minnesota | 158,240,000 | 4,410,000 | 46. | 64 |
| Nebraska | 152,831,000 | 6,822,000 | 24.5 | 32 |
| Ohio | 152,559,000 | 3,252,000 | 49.5 | 74 |
| Missouri | 110,418,000 | 3,904,000 | 29.5 | 45 |
| Texas | 71,655,000 | 5,079,000 | 15. | 2 |
| Kentucky | 71,484,000 | 2,610,000 | 28. | 12 |
| Tennessee | 68,034,000 | 2,730,000 | 25.5 | 3 |
| Kansas | 53,204,000 | 2,624,000 | 23.5 | 13 |
| No. Carolina | 50,930,000 | 2,368,000 | 22. | 2 |
| Mississippi | 50,541,000 | 3,093,000 | 17. | 1 |
| Alabama | 50,298,000 | 3,305,000 | 15.5 | 1 |
| Wisconsin | 47,027,000 | 2,250,000 | 41. | 64 |
| Pennsylvania | 42,538,000 | 1,282,000 | 41.5 | 20 |
| Georgia | 40,824,000 | 4,000,000 | 10.5 | 1 |
| Arkansas | 39,995,000 | 2,148,000 | 19. | 6 |
| So. Dakota | 39,460,000 | 3,018,000 | 20. | 19 |
| Michigan | 39,105,000 | 1,509,000 | 33. | 42 |
| Virginia | 31,070,000 | 1,267,000 | 26. | 5 |
| Oklahoma | 30,012,000 | 1,850,000 | 17.5 | 2 |
| Louisiana | 21,765,000 | 1,548,000 | 15. | 4 |
| So. Carolina | 21,694,000 | 1,653,000 | 13.5 | 1 |
| Maryland | 14,144,000 | 446,000 | 34. | 25 |
| No. Dakota | 12,875,000 | 1,123,000 | 25. | 6 |
| Colorado | 12,050,000 | 1,008,000 | 16.9 | 5 |
| West Virginia | 11,811,000 | 397,000 | 31. | 12 |
| New York | 6,480,000 | 676,000 | 40. | 16 |
| Florida | 5,805,000 | 732,000 | 9. | 1 |
| New Jersey | 5,248,000 | 181,000 | 41. | 31 |
| Delaware | 3,870,000 | 133,000 | 30. | 15 |
| New Mexico | 3,080,000 | 215,000 | 17.5 | 6 |
| Idaho | 1,840,000 | 53,000 | 46. | 16 |
| California | 1,470,000 | 79,000 | 35. | 2 |
| Montana | 1,418,000 | 182,000 | 22.5 | 2 |
| Wyoming | 1,122,000 | 160,000 | 16.5 | 2 |
| Oregon | 1,104,000 | 59,000 | 34.5 | 21 |
| Washington | 616,000 | 35,000 | 44. | 24 |
| Arizona | 360,000 | 41,000 | 12. | 2 |
| Connecticut | 336,000 | 47,000 | 42. | 40 |
| Massachusetts | 287,000 | 41,000 | 41. | 12 |
| Utah | 240,000 | 28,000 | 30. | 8 |
| Vermont | 190,000 | 69,000 | 38. | 18 |
| Maine | 164,000 | 17,000 | 41. | 1 |
| N. Hampshire | 126,000 | 15,000 | 42. | 10 |
| Nevada | 56,000 | 4,000 | 28. | 2 |
| Rhode Island | 39,000 | 8,000 | 39. | 20 |

How to Compute Capacity of Cribs and Bins

Square or Rectangular Cribs—Multiply the length by the width by the depth of grain (all in feet). Multiply this sum by 2 and divide by 5. The result is the number bushels ear corn at 70 lbs. per bu. Correct for shelling percentage and moisture as directed on preceding pages.

Round Cribs—Multiply the diameter (distance across center) by the diameter. Multiply this sum by the depth (all in feet). Multiply the sum by .315. The result is bushels at 70 lbs. per bu. Correct for moisture and shelling percentages.

Piles of Corn—When heaped in form of a cone: Square the depth and square the inches of slant height (i.e. multiply each by itself). Subtract the lesser of these amounts from the greater. Multiply the difference obtained by the depth in inches. Multiply this product by .0024. The result is the bushels shelled corn at 70 lbs. bu. basis. Correct for moisture and shelling percentage. When corn is heaped against a straight wall divide this result by two.

The above formulas give bushels of 70 lb. basis ear corn. For shelled corn capacities in bushels double number bushels ear corn and correct for moisture content.

How to Compute Yields of Corn in the Field

Hill Planted Corn

Pick and weigh all corn from 25 consecutive hills in four representative locations. Multiply the weight of corn from these 100 hills by the correct factor in table below. Result is yield in bushels per acre, on 70-lb. per bu. basis, uncorrected for moisture and shelling percentage (see following pages).

| Hill and Row Spacing | 3' | 3'2" | 3'4" | 3'6" |
|----------------------|-----|------|------|------|
| 3 ft. | .69 | .65 | .62 | .59 |
| 3 ft. 2 in. | .65 | .62 | .59 | .56 |
| 3 ft. 4 in. | .62 | .59 | .56 | .53 |
| 3 ft. 6 in. | .59 | .56 | .53 | .51 |

Drilled Corn

Take the weight of corn husked from the distance shown in the table below. Multiply by 100 and divide by 70. The result is yield in bushels per acre, 70 lb. basis (uncorrected for moisture, shelling %).

| Row Spacing | Distance to Pick |
|--------------|------------------|
| 3 ft., 6 in. | 124 ft. |
| 3 ft., 4 in. | 131 ft. |
| 3 ft., 2 in. | 137 ft. |
| 3 ft. | 142 ft. |

Seed Planting Requirements

Table shows acres planted per bushel seed at 3 kernels per hill rate. At 2 kernels amount is $\frac{2}{3}$ quantity shown. At 2 and 3 kernels amount is $\frac{5}{6}$ quantity shown. At 4 kernels add $\frac{1}{3}$ to quantity shown.

| Check planted Row & Hill Spacing | Large Flat | Reg. Flat | Med. Small Flat | Large Round | Reg. Round | Med. Small Round |
|----------------------------------|------------|-----------|-----------------|-------------|------------|------------------|
| 3'x3' | 5.0 | 5.6 | 6.5 | 4.5 | 5.3 | 5.8 |
| 3'x3'2" | 5.2 | 5.8 | 6.7 | 4.8 | 5.5 | 6.0 |
| 3'x3'4" | 5.4 | 6.1 | 7.0 | 5.0 | 5.7 | 6.3 |
| 3'x3'6" | 5.7 | 6.3 | 7.3 | 5.1 | 5.8 | 6.5 |
| 3'2"x3'2" | 5.9 | 6.5 | 7.5 | 5.3 | 6.0 | 6.7 |
| 3'2"x3'4" | 6.1 | 6.7 | 7.8 | 5.5 | 6.2 | 6.5 |
| 3'2"x3'6" | 6.3 | 6.9 | 8.0 | 5.7 | 6.4 | 7.1 |
| 3'4"x3'4" | 6.5 | 7.1 | 8.3 | 5.9 | 6.6 | 7.4 |
| 3'4"x3'6" | 6.7 | 7.4 | 8.6 | 6.0 | 6.7 | 6.6 |
| 3'6"x3'6" | 6.9 | 7.6 | 8.9 | 6.2 | 6.9 | 7.8 |

Drilled

Based on 12-inch spacing of kernels in hill. For 6-inch spacing allow $\frac{1}{2}$ of acres shown; for 8-inch $\frac{2}{3}$, for 18-inch spacing $1\frac{1}{2}$, etc.

| 3' | 5.0 | 5.6 | 6.5 | 4.5 | 5.3 | 5.8 |
|------|-----|-----|-----|-----|-----|-----|
| 3'2" | 5.5 | 6.2 | 7.3 | 4.9 | 5.7 | 6.3 |
| 3'4" | 6.0 | 6.8 | 8.0 | 5.3 | 6.1 | 6.9 |
| 3'6" | 6.5 | 7.3 | 8.8 | 5.8 | 6.5 | 7.5 |

Note: Planting rates based on average kernel sizes in each grade. Seed in the same grade, while uniform, may vary up to 10% in planting coverage according to screen sizes which are dependent upon size of kernels in any crop year.

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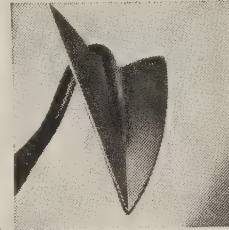
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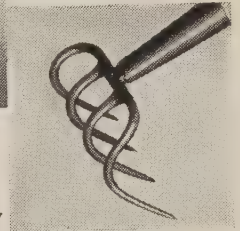
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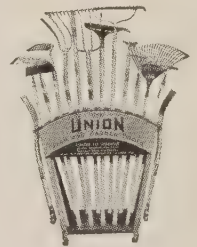
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Newark, N. J.

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.
Cincinnati, 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.

Cincinnati, 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.

BOOKS—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.
Cincinnati, 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.

Doubleday, Doran & Co., Inc.
New York, N. Y.

Herbst Bros.
New York, N. Y.

Leonard & Son, A. M.
Piqua, Ohio

McCullough Seed Co., The J. Chas.
Cincinnati, 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.
Cincinnati, 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

BALL-BIDDLE FARM & GARDEN SPECIALTIES

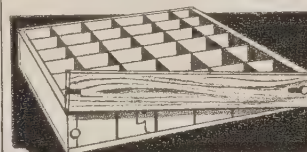
PROFITABLE ITEMS FOR SEED MERCHANTS

B-B Craft Board Pot—Square construction allows ample room for root growth, eliminates waste air space when in flat and insures uniform moisture. Eliminates damage from cut worms and leaves roots undisturbed as bottom unlocks.

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



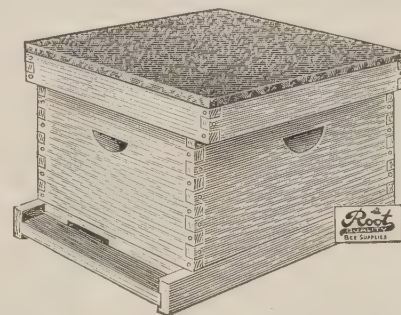
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Stands ready to serve the numerous trade channels with the best bee supplies whenever conditions will permit.

Root
QUALITY

BEE SUPPLIES

Will be made in just as large quantities as possible in line with the all-out war effort.

Write Now

THE A. I. ROOT COMPANY
MEDINA, OHIO

Established 1869

"Best by the Bee Test"

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.
Cincinnati, 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.

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

Aeroil 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.
Cincinnati, Ohio
National Enameling & Stamping Co.
Milwaukee, Wis.
Vaughan's Seed Store
Chicago, Ill.

CARBOLINEUM—(ANTHRACENE OIL)

C-A Wood Preserver Co.
St. Louis, Mo.

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.
Cincinnati, Ohio
Perfection Foods Co.
Battle Creek, Mich.
Reynolds Mfg. Co. (Catnip Mice)
Fredericktown, 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.
Cincinnati, Ohio
Ouren Seed Co.
Council Bluffs, Iowa
Scarlett & Co., Wm. G.
Baltimore, Md.
Schell, Inc., Walter S.
Harrisburg, Pa.

CHICK BOXES

Anderson Box Co.
Indianapolis, Ind.

CHICKS

Atz's Mammoth Hatcheries
Huntingburg, Ind.
Colonial Poultry Farms
Pleasant Hill, Mo.
Graf Hatcheries, E. J.
Evansville, Ind.
Hayes Hatcheries, S. W.
Centralia, Ill.
Illinois Hatchery
Metropolis, Ill.
Martin's Ramsey Hatchery
Ramsey, Ind.
Mildred Bros. Hatcheries
Warrenton, Mo.
Miller Hatcheries, Inc.
Lancaster, Mo.
Miller Hatchery
Bloomington, Ill.
Moweaqua Seed Co. Hatchery
Moweaqua, Ill.
McFeeter's Hatchery
Defiance, Ohio
Ridgway Duck Hatchery, The
(Also Ducklings, Goslings and
Poults)
La Rue, Ohio
Russell Hatchery
Corvallis, Ore.
Sunshine Hatcheries
Coydon, Ind.

Wayne Duck Farm
Wayne, Ohio

CHRISTMAS GREENS

Chesmore Seed Co.
St. Joseph, Mo.
Conwell, Inc., H. Ernest
Milton, Del.
Holmes Seed Co.
Canton, Ohio
Jones, The Holly Wreath Man
Milton, Del.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Michael-Leonard Co.
Sioux City, Iowa
Neilson, Knud
Evergreen, Ala.
Platten's Christmas Trees, Inc.
Green Bay, Wis.
Quality Seed & Grain Co. (Mistletoe)
Chickasha, Okla.
Schell, Inc., Walter S.
Harrisburg, Pa.
South West Desert Nurseries
(Mistletoe)
Las Cruces, N. Mex.
Vaughan's Seed Store
Chicago, Ill.

CHRISTMAS TREES

Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
Holmes Seed Co., The
Canton, Ohio
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Michael-Leonard Co.
Sioux City, Iowa
Schell, Inc., Walter S.
Harrisburg, Pa.

COD LIVER OIL

Appel Commission Co., C. H.
St. Louis, Mo.
Atkins & Durbrow, Inc.
New York, N. Y.
Perfection Foods Co.
Battle Creek, Mich.
Premier Peat Moss Corp.
New York, N. Y.
Squibb & Sons, E. R.
New York, N. Y.
Wood & Sons, T. W.
Richmond, Va.

COLCHICINE ALKALOID

Mallinckrodt Chemical Works
St. Louis, Mo.
Merck & Co., Inc.
Rahway, N. J.
Vitamin Institute of Calif.
Hollywood, Calif.

COPPER OXIDE—RED

American Florist Supply Co.
Chicago, Ill.
Ansbacher-Siegle Corp.
Brooklyn, N. Y.
Holmes Seed Co.
Canton, Ohio
Mallinckrodt Chemical Works
St. Louis, Mo.
Merck & Co., Inc.
Rahway, N. J.
Protex Industries, Inc.
New York, N. Y.
Rohm & Haas Co.
Philadelphia, Pa.
Shur-Gro. Co.
Pittsburgh, Pa.
Vaughan's Seed Store
Chicago, Ill.
Woodruff & Sons, Inc., F. H.
Milford, Conn.

COUPLING—HOSE

American Florist Supply Co.
Chicago, Ill.

Leonard & Son, A. M.
Piqua, Ohio
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

CRAB GRASS KILLER

Garden Products Co.
St. Louis, Mo.
American Liquid Fertilizer Co.
Marietta, Ohio

CREOSOTE OIL

C-A Wood Preserver Co.
St. Louis, Mo.
Merck & Co., Inc.
Rahway, N. J.

CULTIVATORS—GARDEN

Allen & Co., Inc., S. L.
Philadelphia, Pa.
American Florist Supply Co.
Chicago, Ill.
American Fork & Hoe Co.
Cleveland, Ohio
Case Co., J. I.
Racine, Wis.
Gardex, Inc.
Michigan City, Ind.
Geyer Mfg. Co.
Rock Falls, Ill.
Gilson Co., J. E.
Port Washington, Wis.
Gravelly Motor Plow & Cultivator Co.
Dunbar, W. Va.
Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
Hudson Mfg. Co., H. D.
Chicago, Ill.
Leonard & Son, A. M.
Piqua, Ohio
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Norcross & Sons, C. S.
Bushnell, Ill.
Pioneer Mfg. Co.
West Allis, Milwaukee, Wis.
Schell, Inc., Walter S.
Harrisburg, Pa.
Union Fork & Hoe Co., The
Columbus, Ohio
Utilitor Co., The
Miamisburg, Ohio
Vaughan's Seed Store
Chicago, Ill.

CUTTERS—SOD

Lane & Son, M. R.
Ardmore, Pa.
Leonard & Son, A. M.
Piqua, Ohio
Union Fork & Hoe Co., The
Columbus, Ohio

CUTTLE BONE

Burnett's, Inc.
Newark, N. J.
Albert Dickinson Seed Co., The
Chicago, Ill.
Hinton & Co.
New York, N. Y.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Petpak Products Co.
Milwaukee, Wis.
Scarlett & Co., Wm. G.
Baltimore, Md.
Schell, Inc., Walter S.
Harrisburg, Pa.
Schoemann & Mayer, Inc.
New York, N. Y.
Spratt's Patent, Ltd.
Newark, N. J.

CYLINDERS

Myers & Bro. Co., The F. E.
Ashland, Ohio

DAIRY SUPPLIES

Anker-Holth Mfg. Co.
Port Huron, Mich.
Cherry-Burrell Corp.
New York, N. Y.
Creamery Package Mfg. Co.
New York, N. Y.
Duggar Mfg. Co., L. G.
Hope Hull, Ala.
Hammond Paint & Chemical Co.
Beacon, N. Y.
Mechling Bros. Chemicals
Philadelphia, Pa.
Pilling & Son Co., G. P.
Philadelphia, Pa.

DIBBLES

Gardex, Inc.
Michigan City, Ind.
Johnson, Inc., Wm.
Newark, N. J.
Leonard & Son, A. M.
Piqua, Ohio
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Schell, Inc., Walter S.
Harrisburg, Pa.
Union Fork & Hoe Co.
Columbus, Ohio
Vaughan's Seed Store
Chicago, Ill.

DIGGERS—DANDELION

Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
Meilink & Co.
Detroit, Mich.
Union Fork & Hoe Co.
Columbus, Ohio

DISINFECTANTS—ANIMAL

Aeroil Burner Co. (Torches)
West New York, N. J.
American Florist Supply Co.
Chicago, Ill.
Bonide Chem. Co., Inc.
Utica, N. Y.
Boyle Co., The A. S.
Jersey City, N. J.
Brower Mfg. Co.
Quincy, Ill.
Carbola Chemical Co.
Natural Bridge, N. Y.
Carus Chemical Co.
La Salle, Ill.
C-A Wood Preserver Co.
St. Louis, Mo.
Chic-Tone Co.
Bath, Pa.
Clifton Chem. Co., Inc.
New York, N. Y.
Conkey Co., G. E.
Cleveland, Ohio
Dow Chemical Co.
Midland, Mich.
Lee Co., Geo. H.
Omaha, Nebr.
LeGear Medicine Co., Dr. L. D.
St. Louis, Mo.
Mallinckrodt Chemical Works
St. Louis, Mo.
Mechling Bros. Chemicals
Philadelphia, Pa.
Merck & Co., Inc.
Rahway, N. J.
Nicotine Mfg. Co.
St. Louis, Mo.
Pratt Food Co.
Philadelphia, Pa.
Rohm & Haas Co.
Philadelphia, Pa.
Russell Co., I. D.
Kansas City, Mo.
Salsbury's Laboratories, Dr.
Charles City, Iowa
Schell, Inc., Walter S.
Harrisburg, Pa.



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NOT many farmers now will risk high-priced seed and hard-to-get labor by planting without Du Bay Seed Treatment! That's why, in the months ahead, you can look for more sales of *New Improved CERESAN*, SEMESAN JR., SEMESAN BEL, 2% CERESAN and SEMESAN—why you should prepare by ordering needed stock now. If you are not a Du Bay Dealer, write for further information on this fast-selling line.

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PROFIT by selling PURE
CARBOLINEUM

—like that referred to in U. S.
Farm Bulletins, to kill chicken
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1 to 3 YEARS

Can be diluted with kerosene.

Write for delivered prices and
sample, or get it through your
jobber.

C-A WOOD PRESERVER CO.
6626 Delmar Blvd., St. Louis, Mo.

Schoemann & Mayer, Inc.
New York, N. Y.
Tobacco By-Products & Chemical Corp.
Louisville, Ky.
Vaughan's Seed Store
Chicago, Ill.

DISINFECTANTS—SEED

American Cyanamid & Chem. Corp.
New York, N. Y.
Ansbacher-Siegle Corp.
Brooklyn, N. Y.
Bayer-Semesan Co., Inc.
Wilmington, Del.
California Spray Chemical Co.
Elizabeth, N. J.
Carus Chemical Co.
La Salle, Ill.
Dickinson Seed Co., The Albert
Chicago, Ill.
Douglas Chemical & Supply Co.
Kansas City, Mo.
Dow Chemical Co.
Midland, Mich.
Garden Products Co.
St. Louis, Mo.
Goulard & Olena, Inc.
New York, N. Y.
Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
Hammond Paint & Chem. Co.
Beacon, N. Y.
Innis, Speiden & Co.
New York, N. Y.
McCormick Sales Co., The
Baltimore, Md.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio.
Mallinckrodt Chemical Works
St. Louis, Mo.
Mechling Bros. Chemicals
Philadelphia, Pa.
Merek & Co., Inc.
Rahway, N. J.
Rohm & Haas Co.
Philadelphia, Pa.
Scarlett & Co., Wm. G.
Baltimore, Md.
Schell, Inc., Walter S.
Harrisburg, Pa.
Seaboard Seed Co.
Philadelphia, Pa.
United States Rubber Co.
Naugatuck Chemical Div.
New York, N. Y.
Vaughan's Seed Store
Chicago, Ill.
Vitamin Institute of Calif.
Hollywood, Calif.
Wood Ridge Mfg. Co.
Wood Ridge, N. J.

DISTRIBUTOR—FERTILIZER

American Agricultural Chemical Co., The
New York, N. Y.
American Florist Supply Co.
Chicago, Ill.
Dickinson Seed Co., The Albert
Chicago, Ill.
Hydroponic Chemical Co., Inc.
New York, N. Y.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Masters Planter Co.
Benton Harbor, Mich.
Mechling Bros. Chemicals
Philadelphia, Pa.
Rorer, Inc., William H.
Philadelphia, Pa.
Schell, Inc., Walter S.
Harrisburg, Pa.
Smith Agricultural Chemical Co., The
Columbus, Ohio

Swift & Co.
Chicago, Ill.
Thompson & Sons, O. E.
Ypsilanti, Mich.
Vaughan's Seed Store
Chicago, Ill.

DOG FOOD

Arcady Farms Milling Co.
Chicago, Ill.
Balorations, Inc. (Div. Tioga Mills, Inc.)
Waverly, N. Y.
Battle Creek Dog Food Co.
Battle Creek, Mich.
Dickinson Co., The Albert
Chicago, Ill.
Glover Co., Inc., H. Clay
New York, N. Y.
Goulard & Olena, Inc.
New York, N. Y.
Holmes Seed Co.
Canton, Ohio
Ken-L-Products Division
The Quaker Oats Company
Rockford, Ill.
Justrite Co.
Milwaukee, Wis.
Lilly Co., The Chas. H.
Seattle, Wash.
McCormick Sales Co., The
Baltimore, Md.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Meat Products Co.
Cleveland, Ohio
Old Trusty Dog Food Co.
Needham Heights, Mass.
Perfection Foods Co.
Battle Creek, Mich.
Philadelphia Seed Co.
Philadelphia, Pa.
Schell, Inc., Walter S.
Harrisburg, Pa.
Spratt's Patent, Ltd.
Newark, N. J.

DOG SUPPLIES

Battle Creek Dog Food Co.
Battle Creek, Mich.
Grand River Pet Supply Co.
Detroit, Mich.
Ken-L-Products Division
The Quaker Oats Company
Rockford, Ill.
McCarty Mfg. Co.
Park Ridge, Ill.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
National Pet Shops
St. Louis, Mo.
National Sawdust Co.
Brooklyn, N. Y.
One-Spot Co.
Elkridge, Md.
Progressive Accessories
New York, N. Y.
Schell, Inc., Walter S.
Harrisburg, Pa.
Schoemann & Mayer, Inc. (Complete
line of dog furnishings)
New York, N. Y.
Standard Screen Co.
Chicago, Ill.
Spratt's Patent, Ltd.
Newark, N. J.
Sudbury Soil Testing Laboratory
Sudbury, Mass.

DRILLS—SEED

Allen & Co., Inc., S. L.
Philadelphia, Pa.
Field Force Mfg. Co.
Pottstown, Pa.

American Fork & Hoe Co.
Cleveland, Ohio
Case Co., J. I.
Racine, Wis.
Geyer Mfg. Co.
Rock Falls, Ill.
Hudson Mfg. Co., H. D.
Chicago, Ill.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

DUSTS

Bayer-Semesan Co., Inc.
Wilmington, Del.
California Spray Chemical Co.
Elizabeth, N. J.
Dow Chemical Co.
Midland, Mich.
Hammond Paint & Chemical Co.
Beacon, N. Y.
McCormick Sales Co., The
Baltimore, Md.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Mechling Bros. Chemicals
Philadelphia, Pa.
Rose Mfg. Co.
Beacon, N. Y.
Scarlett & Co., William G.
Baltimore, Md.
Tennessee Corp.
New York, N. Y.
Tobacco By-Products & Chem. Corp., Inc.
Louisville, Ky.
Vaughan's Seed Store
Chicago, Ill.

DUSTERS

Acmeline Mfg. Co.
Traverse City, Mich.
Allen & Co., Inc., S. L.
Philadelphia, Pa.
American Cyanamid & Chem. Corp.
New York, N. Y.
American Florist Supply Co.
Chicago, Ill.
Bean Mfg. Co., John
Lansing, Mich.
Brown Co., E. C.
Rochester, N. Y.
California Spray Chemical Corp.
Elizabeth, N. J.
Dobbins Mfg. Co.
Elkhart, Ind.
Feeny Manufacturing Co.
Muncie, Ind.
"Friend" Mfg. Co.
Gasport, N. Y.
Hudson Mfg. Co., H. D.
Chicago, Ill.
Leonard & Son, A. M.
Piqua, Ohio
Los Angeles Chemical Co.
Los Angeles, Calif.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Messinger Mfg. Co.
Tatamy, Pa.
One-Spot Co.
Elkridge, Md.
Root Mfg. Co.
Cleveland, Ohio
Scarlett & Co., William G.
Baltimore, Md.
Shunk Mfg. Co.
Bucyrus, Ohio
Smith & Co., D. B.
Utica, N. Y.
Tennessee Corp.
New York, N. Y.
Vaughan's Seed Store
Chicago, Ill.

EGG PRESERVATIVES

Dow Chemical Co.
Midland, Mich.
Mechling Bros. Chemicals
Philadelphia, Pa.

Schell, Inc., Walter S.
Harrisburg, Pa.

ELECTRIC HEDGE TRIMMERS

American Florist Supply Co.
Chicago, Ill.
Bartlett Mfg. Co.
Detroit, Mich.
Leonard & Son, A. M.
Piqua, Ohio
Detco Mfg. Co.
Oaks, Montgomery Co., Pa.
Schell, Inc., Walter S.
Harrisburg, Pa.
Vaughan's Seed Store
Chicago, Ill.

ERADICATORS—WORM

Dow Chemical Co.
Midland, Mich.
Hammond Paint & Chemical Co.
Beacon, N. Y.
Merek & Co., Inc.
Rahway, N. J.
Reade Mfg. Co.
Jersey City, N. J.

**ERADICATORS—POTATOE VINE
& WEED**

Goulard & Olena, Inc.
New York, N. Y.

EROSION CONTROL

Bemis Bro. Bag Co.
St. Louis, Mo.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

EXTERMINATORS—ANT

Acme White Lead & Color Works
Detroit, Mich.
Agricultural Laboratories, Inc.
Columbus, Ohio

American Cyanamid & Chemical Corp.
New York, N. Y.
Bonide Chem. Co., Inc.
Utica, N. Y.
Boyle Co., The A. S.
Jersey City, N. J.
Buckeye Chemical & Specialty Co.
New York, N. Y.
Goulard & Olena, Inc. (traps)
New York, N. Y.
Hammond Paint & Chem. Co.
Beacon, N. Y.
Killant Chem. Co.
Fort Worth, Texas
Lethelin Products Co., Inc.
Wood Ridge, N. J.
Rotenone Products Co. (Traps)
East Orange, N. J.
Senoret Chemical Co.
St. Louis, Mo.
Soilicide Laboratories
Upper Montclair, N. J.
Tobacco By-Products & Chem. Corp.
Louisville, Ky.

EXTERMINATORS—FLY

Goulard & Olena, Inc.
New York, N. Y.
Hammond Paint & Chem. Co.
Beacon, N. Y.
Lyon Rural Electric Co.
San Diego, Calif.
Warner Electric Co.
Chicago, Ill.

**EXTERMINATORS—MOLE AND
GOPHER**

American Cyanamid & Chem. Corp.
New York, N. Y.
Atkins & Durbrow, Inc.
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Beacon, N. Y.
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St. Louis, Mo.
Rat Lunches Co.
Carroll, Iowa
Rose Mfg. Co.
Beacon, N. Y.
Smith Chemical Co.
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Soilicide Laboratories
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Chicago, Ill.
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Boyle Co., The A. S.
Jersey City, N. J.
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Elizabeth, N. J.
C-A Wood Preserver Co.
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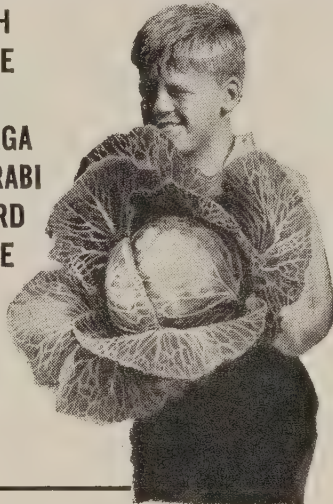
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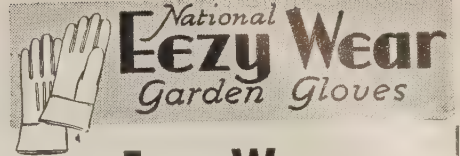
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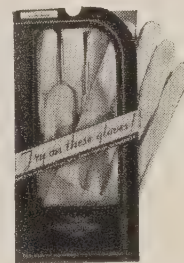
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McCullough Seed Co., The J. Chas.
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Merck & Co., Inc.
Rahway, N. J.
Nott Mfg. Co.
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Schell, Inc., Walter S.
Harrisburg, Pa.
Thompson Co., Wm. T.
Los Angeles, Calif.
Vaughan's Seed Store
Chicago, Ill.

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Ambler, Pa.

Dickinson Co., The Albert
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Dow Chemical Co.
Midland, Mich.
Merck & Co., Inc.
Rahway, N. J.

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Cincinnati, Ohio
Macmillan Co., The
New York, N. Y.

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Goodrich Rubber Co., B. F.
Akron, Ohio
Goodyear Rubber Co.
Akron, Ohio
Leonard & Son, A. M.
Piqua, Ohio
McCullough Seed Co., The J. Chas.
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Lansing Specialties Mfg. Co.
Lansing, Mich.
Hozon Co.
Warrensville, Ohio

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"Friend" Mfg. Co.
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G-L Products Co.
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McCullough Seed Co., The J. Chas.
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McCullough Seed Co., The J. Chas.
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Schell, Inc., Walter S.
Harrisburg, Pa.
Vaughan's Seed Store
Chicago, Ill.

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Woodworking Specialty Co.
Crystal Lake, Ill.
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Hoeft & Co.
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Makomb Steel Products Co.
Macomb, Ill.
Oakes Mfg. Co.
Tipton, Ind.
Reliable Incubator & Brooder Co.
Quincy, Ill.

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Dickinson Co., The Albert
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Nitragin Co., Inc., The
Milwaukee, Wis.
Peppard Seed Co.
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Philadelphia Seed Co.
Philadelphia, Pa.
Schell, Inc., Walter S.
Harrisburg, Pa.
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Urbana, Ill.
Vaughan's Seed Store
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Woodruff & Sons, Inc., F. H.
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Kansas City, Mo.
Dow Chemical Co.
Midland, Mich.
Hammond Paint & Chemical Co.
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Innis, Speiden & Co.
New York, N. Y.
McCormick Sales Co., The
Baltimore, Md.
Mechling Bros. Chemicals
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Nott Mfg. Co.
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Rose Mfg. Co.
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New York, N. Y.
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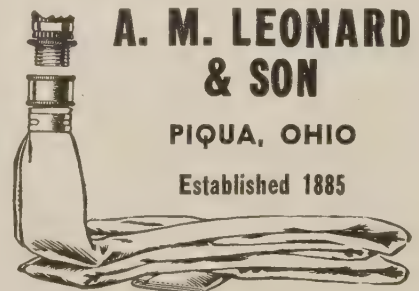
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Swift & Co.
Chicago, Ill.
Tennessee Corp., Loma Div.
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McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Nitragin Co., Inc., The
Milwaukee, Wis.
Nott Mfg. Co.
New York, N. Y.
Scarlett & Co., William G.
Baltimore, Md.
Schell, Inc., Walter S.
Harrisburg, Pa.
Urbana Laboratories, The
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Vaughan's Seed Store
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Thompson Co., William T.
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Cincinnati, Ohio
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Baltimore, Md.
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Cedar Rapids, Iowa
Holmes Seed Co., The
Canton, Ohio
Loewith, Inc., Julius
New York, N. Y.
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Jonesport, Maine
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
McHutchison & Co.
New York, N. Y.
Michigan Peat Co.
Buchanan, Mich.
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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.
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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.

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Dow Chemical Co.
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Vaughan's Seed Store
Chicago, Ill.

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(See Moss-Peat)

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American Bulb Co.
Chicago, Ill.
American Florist Supply Co.
Chicago, Ill.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

PETS

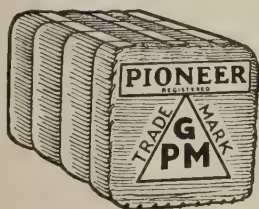
Deedie's Pet Shop
Newark, N. J.
National Pet Shops
St. Louis, Mo.
So. Calif. Bird & Pet Exchange
Bell, Calif.
Zenith Novelty Co.
New York, N. Y.

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.

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Miniature Daffodils

Dutch Iris

English Iris

Spanish Iris

Montbretia

EARLHAM HYBRIDS

Lilies

BUY

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War Bonds

and

Stamps

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 Oldmill Paper Products Corp.
 Long Island City, N. Y.
 Paxton Products Co.
 Riverside, Calif.
 Vaughan Seed Store
 Chicago, Ill.

PLANTERS

Acemline 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.
 S. & H. Set Onion Planter Co.
 Pleasant Valley, Iowa
 Vaughan Seed Store
 Chicago, Ill.

CUT FLOWER PLANT FOOD

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 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.
 McCullough Seed Co., The J. Chas.
 Cincinnati, Ohio
 Mechling Bros. Chemicals
 Philadelphia, Pa.
 Nott Mfg. Co.
 New York, 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 Seed Store
 Chicago, Ill.

PLANT STIMULANTS

Agricultural Laboratories, Inc.
 Columbus, Ohio
 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.
 McCullough Seed Co., The J. Chas.
 Cincinnati, Ohio
 Merck & Co., Inc.
 Rahway, N. J.
 Nott Mfg. Co.
 New York, 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 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.
 McCullough Seed Co., The J. Chas.
 Cincinnati, Ohio
 Merck & Co., Inc.
 Rahway, N. J.
 Nott Mfg. Co.
 New York, 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 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 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. (Fiber)

Riverton, N. J.

Bird & Son, Inc. (Paper)

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

Paxton Products Co.

Riverside, Calif.

Vaughan 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 Seed Store

Chicago, Ill.

POWER SPRAYERS

Aeroil 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 Seed Store

Chicago, Ill.

Woodruff & Sons, Inc., F. H.

Milford, Conn.

PRUNERS

American Florist Supply Co.

Chicago, Ill.

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 Seed Store

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(See Bowls—Bulb)

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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 Seed Store
Chicago, Ill.

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American Florist Supply Co.
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American Reedcraft Corp.
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Buist Co., Robert
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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 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 Seed Store
Chicago, Ill.

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Loewith, Inc., Julius
New York, N. Y.
McHutchison & Co.
New York, N. Y.
Vaughan's Seed Store
Chicago, Ill.

REELS—GARDEN LINE

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Newark, N. J.
Leonard & Son, 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 Seed Store
Chicago, Ill.

REMEDIES—PET

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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 Seed Store
Chicago, Ill.

REMEDIES—POULTRY

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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.
LeGear 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

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Brooklyn, N. Y.
Cedar Hill Formulae 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 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.
New York, N. Y.
Protex Industries, Inc.
New York, N. Y.
Sudbury Laboratory
South Sudbury, Mass.
Tobacco By-Products & Chem. Corp.
Louisville, Ky.
Vaughan Seed Store
Chicago, Ill.

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Agricultural Laboratories, Inc.
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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 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 Seed Store
Chicago, Ill.

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American Agricultural Chemical Co., The
New York, N. Y.
McCullough Seed Co., The J. Chas.
Cincinnati, 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
Caledonia, 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.
Cincinnati, Ohio
Schell, Inc., Walter S.
Harrisburg, Pa.
Vaughan's Seed Store
Chicago, Ill.
Worthington Mower Co.
Stroudsburg, Pa.

ROOT FORMING HORMONES

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.
Cincinnati, 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 Seed Store
Chicago, Ill.

ROTENONE

American Florist Supply Co.
Chicago, Ill.
Goulard & Olena, Inc.
New York, N. Y.
Hammond Paint & Chem. Co.
Beacon, N. Y.
McCormick Sales Co., The
Baltimore, Md.
McCullough Seed Co., The J. Chas.
Cincinnati, Ohio
Mechling Bros. Chemicals
Philadelphia, Pa.
Protex Industries, Inc.
New York, N. Y.
Schell, Inc., Walter S.
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 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.

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 Cyclone Mfg. Co.
 Urbana, Ind.
 Hudson Mfg. Co., H. D.
 Chicago, Ill.
 Union Fork & Hoe Co.
 Columbus, Ohio

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 Chicago, Ill.
 Bartlett Mfg. Co.
 Detroit, Mich.
 Leonard & Son, A. M.
 Piqua, Ohio

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American Soil Sponge Selling Corp.
 New York, N. Y.

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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.
 Cincinnati, 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 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.
 Leonard & Son, A. M.
 Piqua, Ohio
 McCullough Seed Co., The J. Chas.
 Cincinnati, Ohio
 Masters Planter Co.
 Benton Harbor, Mich.
 Schell, Inc., Walter S.
 Harrisburg, Pa.
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 Columbus, Ohio

Swift & Co.
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 Tennessee Corp.
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 Vaughan Seed Store
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 Bush Terminal Co.
 New York, N. Y.
 Crooks Terminal Warehouse
 Chicago, Ill.
 Douglas-Guardian Warehouse Corp.
 Chicago, 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.

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 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.
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 Long Island City, N. Y.
 S & H Set Onion Planter Co.
 Pleasant Valley, Iowa
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 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
 North Wayne Tool Co.
 Oakland, Me.
 Peck, Stow & Wilcox Co.
 Southington, Conn.
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 Oakville, Conn.
 Tiffany, Carroll R.
 Conklin, N. Y.
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 Hamlin Metal Products Co.
 Akron, Ohio
 Leonard & Son, A. M.
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McCullough Seed Co., The J. Chas.
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Union Fork & Hoe Co., The
Columbus, Ohio
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Chicago, Ill.
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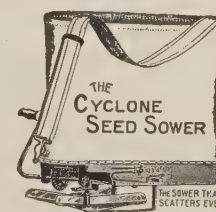
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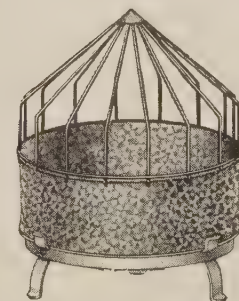
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Beacon, N. Y.
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Philadelphia, Pa.
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Rahway, N. J.
Stauffer Chemical Co.
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New York, N. Y.

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Unadilla, N. Y.
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American Florist Supply Co.
Chicago, Ill.
Arvey Corp.
Chicago, Ill.
Keene Mfg. Co. (Electric)
Racine, Wis.
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Piqua, Ohio
Metropolitan Greenhouse Mfg. Corp.
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Chicago, Ill.

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Urbana Laboratories, The
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Goulard & Olena, Inc.
New York, N. Y.
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Vaughan Seed Store
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Piqua, Ohio

McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

Protex Industries, Inc.
New York, N. Y.

Vaughan Seed Store
Chicago, Ill.

TRELLIS
Ball-Biddle Co.
Riverton, N. J.

Continental Steel Corp. (Steel)
Kokomo, Ind.

Lansing Specialties Mfg. Co. (Vine and
Sweet Pea)
Lansing, Mich.

Michigan Wire Goods Co.
Niles, Mich.

Unadilla Silo Co.
Unadilla, N. Y.

Universal Wire & Iron Co.
Milwaukee, Wis.

TRIMMERS—HEDGE
American Florist Supply Co.
Chicago, Ill.

Bartlett Mfg. Co.
Detroit, Mich.

Detco Mfg. Co.
Oaks, Montgomery County, Pa.

Goulard & Olena, Inc.
New York, N. Y.

Leonard & Son, A. M.
Piqua, Ohio

McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

Robertson Mfg. Co.
Michigan City, Ind.

Smith & Son, Inc., Seymour
Oakville, Conn.

Vaughan Seed Store
Chicago, Ill.

TRIMMERS—LAWN
Allen & Co., Inc., S. L.
Philadelphia, Pa.

American Florist Supply Co.
Chicago, Ill.

Bartlett Mfg. Co.
Detroit, Mich.

Gardex, Inc.
Michigan City, Ind.

Imperial Bit & Snap Co.
Racine, Wis.

Leonard & Son, A. M.
Piqua, Ohio

Union Fork & Hoe Co.
Columbus, Ohio

Vaughan Seed Store
Chicago, Ill.

TROWELS
Allen & Co., Inc., S. L.
Philadelphia, Pa.

American Florist Supply Co.
Chicago, Ill.

Field & Co., Alfred
New York, N. Y.

Gardex, Inc.
Michigan City, Ind.

Goulard & Olena, Inc.
New York, N. Y.

Johnson, Inc., Wm.
Newark, N. J.

Leonard & Son, A. M.
Piqua, Ohio

McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

Reichard Mfg. Co., F. H.
Bangor, Pa.

Union Fork & Hoe Co., The
Columbus, Ohio

Vaughan Seed Store
Chicago, Ill.

TUBS—TREE AND PLANT
American Florist Supply Co.
Chicago, Ill.

McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

Vaughan's Seed Store
Chicago, Ill.

TWIST-EMS
Germain Seed & Plant Co.
Los Angeles, Calif.

Vaughan Seed Store
Chicago, Ill.

VASES—CEMETERY
American Bulb Co.
Chicago, Ill.

American Florist Supply Co.
Chicago, Ill.

McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

Novelty Mfg. Co.
Lancaster, Pa.

Vaughan's Seed Store
Chicago, Ill.

VITAMIN B₁
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.

Hydroponic Chemical Co., Inc.
New York, N. Y.

McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

Merck & Co., Inc.
Rahway, N. J.

Nott Mfg. Co.
New York, N. Y.

Plantabbs Co.
Baltimore, Md.

Rorer, Inc., William H.
Philadelphia, Pa.

Schell, Inc., Walter S.
Harrisburg, Pa.

Thompson Co., Wm. T.
Los Angeles, Calif.

Vaughan Seed Store
Chicago, Ill.

WASHERS—VEGETABLE, ROOT
American Specialty Mfg. Co.
Amherst, Ohio

Felins Tying Machine Co.
Milwaukee, Wis.

Ingersoll Co., Chas. M.
Cleveland, Ohio

Myers & Bro. Co., F. E.
Ashland, Ohio

Pioneer Mfg. Co.
West Allis, Milwaukee, Wis.

WATER CULTURE
American Florist Supply Co.
Chicago, Ill.

Burgess Seed & Plant Co.
Galesburg, Mich.

Ellis Associates
Montclair, N. J.

Hydroponic Chemical Co., Inc.
New York, N. Y.

Vaughan's Seed Store
Chicago, Ill.

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SOLUTIONS**
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Urbana, Ill.

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SQUASH
CUCUMBER
RADISH
WATERMELON
PUMPKIN
MUSKMELON
PEPPER
BEANS

CONTRACT BASIS

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SEED & PLANT CO.
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Hybrid Sweet Corn, Idaho grown.
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FILMFAST. Spreads, sticks, stays.

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and

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- McCullough Seed Co., The J. Chas. Cincinnati, Ohio
- Shur-Gro Company Pittsburgh, Pa.
- Scofield Mfg. Co. Cleveland, Ohio
- Sub-Ter-Rain Tool Co. San Francisco, Calif.
- Water Lance Mfg. Co. St. Louis, Mo.

WATER SYSTEMS
 Myers & Bro. Co., The F. E. Ashland, Ohio

WAX—GRAFTING
 American Florist Supply Co. Chicago, Ill.

- Bartlett Mfg. Co. Detroit, Mich.
- Clark & Son, Walter E. Milford, Conn.
- Leonard & Son, A. M. Piqua, Ohio
- McCullough Seed Co., The J. Chas. Cincinnati, Ohio
- Pubsley & Morrison Yuba City, Calif.
- Schell, Inc., Walter S. Harrisburg, Pa.
- Vaughan Seed Store Chicago, Ill.
- Woodruff & Sons, Inc., F. H. Milford, Conn.

WEED CUTTERS
 American Florist Supply Co. Chicago, Ill.

- Gardex, Inc. Michigan City, Ind.
- McCullough Seed Co., The J. Chas. Cincinnati, Ohio
- Union Fork & Hoe Co., The Columbus, Ohio
- Vaughan's Seed Store Chicago, Ill.

WEED DESTROYERS
 Aeroil Burner Co., Inc. (Torches) West New York, N. J.

- American Florist Supply Co. Chicago, Ill.
- American Liquid Fertilizer Co., Inc. Marietta, Ohio
- Ansbacher-Siegle Corp. Brooklyn, N. Y.
- Cal. Spray-Chem. Corp. Elizabeth, N. J.
- Chipman Chem. Co., Inc. Bound Brook, N. J.
- Dobbins Mfg. Co. Elkhart, Ind.
- Dow Chemical Co. Midland, Mich.
- Du Pont de Nemours & Co., Inc., E. I. Wilmington, Del.
- Garden Products Co., St. Louis, Mo.
- Goulard & Olena, Inc. New York, N. Y.
- Hammond Paint & Chemical Co. Beacon, N. Y.
- Innis, Speiden & Co. New York, N. Y.
- McCullough Seed Co., The J. Chas. Cincinnati, Ohio
- Mallinckrodt Chem. Works St. Louis, Mo.
- Mechling Bros. Chemicals Philadelphia, Pa.

- Merck & Co., Inc. Rahway, N. J.
- Parco Products Co. Allentown, Pa.
- Reade Mfg. Co. Jersey City, N. J.
- Reade, Inc., Morris B. Belleville, N. J.
- Scarlett & Co., William G. Baltimore, Md.
- Smith Agricultural Chemical Co., The Columbus, Ohio
- Vaughan Seed Store Chicago, Ill.
- Weed-Knell Aurora, Ill.

WEEDERS
 Aeroil Burner Co. (Burners) West New York, N. J.

- Allen & Co., Inc., S. L. Philadelphia, Pa.
- American Florist Supply Co. Chicago, Ill.
- Animal Trap Co. of America Lititz, Pa.
- Bartlett Mfg. Co. Detroit, Mich.
- Carter Products Co. Cleveland, Ohio
- Farquhar Co., Ltd., A. B. York, Pa.
- Gardener's Friend Co. Orange, Mass.
- Gardex, Inc. Michigan City, Ind.
- Gilson Co., J. E. Port Washington, Wis.
- Gogel Co., Walter A. Toledo, Ohio
- Hudson Mfg. Co., H. D. Chicago, Ill.
- Imperial Bit & Snap Co. Racine, Wis.
- Johnson, Inc., Wm. Newark, N. J.
- Leonard & Son, A. M. Piqua, Ohio
- McCullough Seed Co., The J. Chas. Cincinnati, Ohio
- Michigan Wire Goods Co. Niles, Mich.
- Norcross & Sons, C. S. Bushnell, Ill.
- North Wayne Tool Co. Oakland, Me.
- Union Fork & Hoe Co., The Columbus, Ohio
- Vaughan Seed Store Chicago, Ill.
- Weed-Knell Aurora, Ill.

WHEELBARROWS
 American Florist Supply Co. Chicago, Ill.

- American Steel Scraper Co. Sidney, Ohio
- Fairbanks Co. New York, N. Y.
- Gardener's Friend Co. Orange, Mass.
- Jackson Mfg. Co. Harrisburg, Pa.
- Leonard & Son, A. M. Piqua, Ohio
- McCullough Seed Co., The J. Chas. Cincinnati, Ohio
- Thompson & Sons, O. E. Ypsilanti, Mich.
- Vaughan Seed Store Chicago, Ill.

YARD FIGURES
 Lannon Quarries Corp. (Metal) Beaver Dam, Wis.

- Western Stoneware Co. Monmouth, Ill.

Equipment and Supplies

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Bodger Seeds, Ltd.
El Monte, Calif. (Electros, Kodachromes, Nickeltypes, Photographs, Transparencies)
DeLaMare Co., Inc., A. T.
New York, N. Y.
Dubois Press, The
Rochester, N. Y.
Hall Printing Co., W. F.
Chicago, Ill.
McFarland Publicity Service, The
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,
Spokane, Wash.
Wallace-Homestead Co.
Des Moines, Iowa

ALFALFA GRINDERS

Hart-Carter Co.
Minneapolis, Minn.
Howes Co., Inc., S.
Silver Creek, N. Y.
Sedberry, Inc., J. B.
Franklin, Tenn.

ASPIRATORS—SEED CORN

Howes Co., Inc., S.
Silver Creek, N. Y.
Oliver Mfg. Co.
St. Louis, Mo.
Superior Separator Co.
Minneapolis, Minn.

BAG CLEANERS

Howes Co., Inc., S.
Silver Creek, N. Y.
Oliver Mfg. Co.
St. Louis, Mo.

BAG CLOSING MACHINES

Bates Valve Bag Corp. (Wire Tie)
New York, N. Y.
Brown Bag Filling Machine Co.
Fitchburg, Mass.
Savage Co., W. J.
Knoxville, Tenn.

BAG FILLING MACHINES

Brown Bag Filling Machine Co.
Fitchburg, Mass.
Frazier & Son
Belleville, N. J.
Howes Co., Inc., S.
Silver Creek, N. Y.
Richardson Scale Co.
Clifton, N. J.
Sidney Grain Machinery Co.
Sidney, Ohio
Stokes & Smith Co., The
Philadelphia, Pa.

BAG HOLDERS

Bemis Bro. Bag Co.
St. Louis, Mo.
Hance Mfg. Co., J. W.
Westerville, Ohio
Howes Co., Inc., S.
Silver Creek, N. Y.
Richardson Scale Co.
Clifton, N. J.
Seedbuero Equipment Co.
Chicago, Ill.

Sprout, Waldron & Co.
Muncy, Pa.

BAG PILERS—CONVEYORS

Farquhar, A. B., Co.
York, Pa.
Revolverator Co.
North Bergen, N. J.

BAGS—CELLULOSE

Cupples-Hesse Envelope Co.
St. Louis, Mo.
Disbrow Mfg. Co.
Newark, N. J.
Dow Chemical Co.
Midland, Mich.

BAGS—COTTON OR BURLAP

Ames Bag Co.
Cleveland, Ohio
Bemis Bro. Bag Co.
St. Louis, Mo.
Chase Bag Co.
Chicago, Ill.
Cincinnati Bag Co.
(The J. Chas. McCullough Seed Co.)
Cincinnati, Ohio
Dickinson Co., The Albert
Chicago, Ill.
Fulton Bag & Cotton Mills
Atlanta, Ga.
Hamilton Seed & Coal Co.
Cedar Rapids, Iowa
Neahr & Co., M. J.
Chicago, Ill.
Progressive Bag Co.
New Haven, Conn.
Royal River Mills, Inc.
Baltimore, Md.

BAG SEALS

Brooks, Co., E. J.
Newark, N. J.
Seedbuero Equipment Co.
Chicago, Ill.
Stoffel Seals Co.
Chicago, Ill.

BAGS—FRUIT PICKER

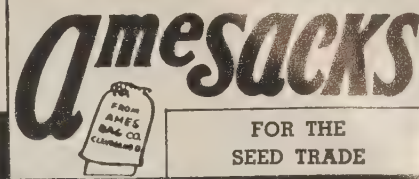
Cyclone Seeder Co., Inc., The
Urbana, Ind.

BAGS—PAPER

Bates Valve Bag Corp.
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Bemis Bro. Bag Co.
St. Louis, Mo.
Brown Bag Filling Machine Co.
Fitchburg, Mass.
Chase Bag Co.
Chicago, Ill.
Disbrow Mfg. Co. (Satchel Bottom
Bags and Packets)
Newark, N. J.
Fulton Bag & Cotton Mills
Atlanta, Ga.
Miller, Tompkins & Co.
East Rutherford, N. J.
Neahr & Co., M. J.
Chicago, Ill.
Page Seed Co., The
Greene, N. Y.
Wolf Brothers
Philadelphia, Pa.

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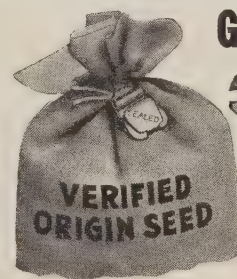
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Let us figure with you.

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Pat. 1847552

**TAMPER
PROOF
SELF-LOCKING
BAG SEAL**

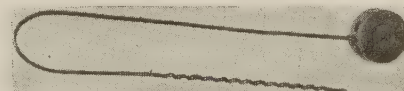
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These Seals are the best protection against substitution and adulteration. Once locked this seal destroys itself on attempted re-locking.

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.

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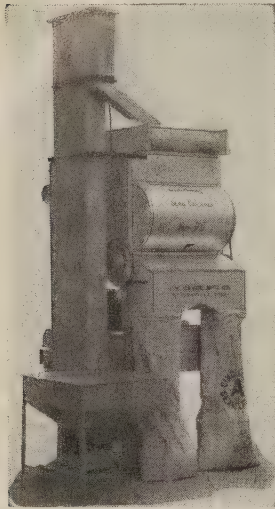


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CUSTOM SIZE

Available with optional equipment including elevator and hopper.

FARM SIZE

Easily changed from hand power to electric drive or gasoline or motor.

SCREENS

Perforated plates and woven wire screens in stock for special seed cleaning requirements.

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PROBLEMS
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Chase Bag Co.
Chicago, Ill.
Fulton Bag & Cotton Mills
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McCullough Seed Co., The J. Chas.
Cincinnati, Ohio

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Savage Co., W. J.
Knoxville, Tenn.
Union Special Machine Co.
Chicago, Ill.

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Diamond Mechanical Goods Div.
Akron, Ohio

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St. Louis, Mo.
Fulton Bag & Cotton Mills
Atlanta, Ga.

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Cedar Rapids, Iowa
Seedburo Equipment Co.
Chicago, Ill.
Sefton Nat'l Fibre Can Co.
Chicago, Ill.

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St. Louis, Mo.
Chase Bag Co.
Chicago, Ill.
Fulton Bag & Cotton Mills
Atlanta, Ga.

CARTONS—LITHOGRAPHED

Schmidt Litho. Co.
San Francisco, Calif.
Stecher-Traung Lithograph Corp.
Rochester, N. Y.

CARTONS—PAPER

Bird & Son
East Walpole, Mass.
Container Corp. of America
Chicago, Ill.
Disbrow Mfg. Co. (Corrugated)
Newark, N. J.
Du Bois Press
Rochester, N. Y.
Schmidt Lithograph Co.
San Francisco, Calif.
Weaver Mailing Env. & Box Co.
Philadelphia, Pa.

CARTONS—PRINTED

Disbrow Mfg. Co.
Newark, N. J.
Genesee Valley Lithograph Co.
Rochester, N. Y.
Schmidt Lithograph Co.
San Francisco, Calif.
Stecher-Traung Lithograph Corp.
Rochester, N. Y.

CATALOG COLORED COVERS

Benton Review Shop
Fowler, Ind.
DuBois Press, The
Rochester, N. Y.

Genesee Valley Lithograph Co.
Rochester, N. Y.
Hall Printing Co., W. F.
Chicago, Ill.
Hart Publications, Inc.
Minneapolis, Minn.
McFarland Co., J. Horace
Harrisburg, Pa.
Morse Co., A. B.
St. Joseph, Mich.
Schmidt Lithograph Co.
San Francisco, Calif.
Stecher-Traung Lithograph Corp.
Rochester, N. Y.
Sweeney, Straub & Dimm,
Spokane, Wash.
Wallace-Homestead Co.
Des Moines, Iowa

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Chicago, Ill.
Brown Bag Filling Machine Co.
Fitchburg, Mass.
Cupples-Hesse Corp.
St. Louis, Mo.
Disbrow Mfg. Co.
Newark, N. J.
Heco Envelope Co.
Chicago, Ill.
Outlook Envelope Co.
Chicago, Ill.

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Chicago, Ill.
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Harrisburg, Pa.
Morse Co., A. B.
St. Joseph, Mich.
Rochester Horticultural Studios
Rochester, N. Y.
Schmidt Lithograph Co.
San Francisco, Calif.
Sweeney, Straub & Dimm
Spokane, Wash.

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(Stock Seed Catalogs)
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Byrd Press, Inc., The Wm.
Richmond, Va.
DeLaMare Co., Inc., A. T.
New York, N. Y.
DuBois Press, The
Rochester, N. Y.
Hall Printing Co., W. F.
Chicago, Ill.
Hart Publications, Inc.
Minneapolis, Minn.
McFarland Co., J. Horace
Harrisburg, Pa.
Morse Co., A. B.
St. Joseph, Mich.
Schmidt Lithograph Co.
San Francisco, Calif.
Sweeney, Straub & Dimm (Stock Seed
Catalog)
Portland, Ore.
Wallace-Homestead Co.
Des Moines, Iowa

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Albrecht & Co.
Rowayton, Conn.
Bemis Bro. Bag Co.
St. Louis, Mo.
Donley & Bro., J. L.
Ashland, Ohio
Fulton Bag & Cotton Mills
Atlanta, Ga.
Val-A Company
Chicago, Ill.

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Cleland Mfg. Co.
Minneapolis, Minn.
Crippen Mfg. Co.
Alma, Mich.
Ferrell & Co., A. T.
Saginaw, Mich.
Hance Mfg. Co., J. W.
Westerville, Ohio
Howes Co., Inc., S.
Silver Creek, N. Y.
Hart-Carter Company
Minneapolis, Minn.
Huntley Mfg. Co.
Brocton, N. Y.
Majestic Huller & Mfg. Co.
Minneapolis, Minn.
Oliver Mfg. Co.
St. Louis, Mo.
Rice Seed Co., W. A.
Jerseyville, Ill.
Sidney Grain Machinery Co.
Sidney, Ohio
Sprout Waldron & Co.
Muncy, Pa.
Superior Separator Co.
Minneapolis, Minn.
Sutton Steele & Steele, Inc.
Dallas, Texas

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Ferrell & Co., A. T.
Saginaw, Mich.
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.
Superior Separator Co.
Minneapolis, Minn.

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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.

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Chicago, Ill.
Salem Tool Co.
W-W Grinder Corp.
Wichita, Kans.

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Silver Creek, N. Y.
Sedberry, Inc., J. B.
Franklin, Tenn.

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Montpelier, Ohio

CRUSHERS

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Franklin, Tenn.
Straub Co.
Philadelphia, Pa.

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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.

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El Monte, Calif.
Rochester Horticultural Studios
Rochester, N. Y.

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Minneapolis, Minn.
Seedburo Equipment Co.
Chicago, Ill.

DRIERS—SEED

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Silver Creek, N. Y.
Randolph Co., O. W.
Toledo, Ohio

DUST COLLECTORS

Howes Co., Inc., S.
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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

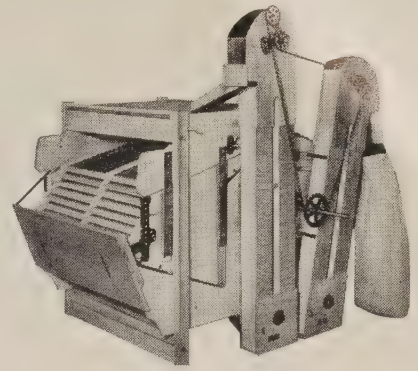
Oliver Mfg. Co.
St. Louis, Mo.
ELEVATOR—ELECTRIC
Davis & Newcomer Electric Elev. Co.
Fostoria, Ohio
Farquhar Co., A. B.
Troy, Pa.

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Berkowitz Envelope Co.
Kansas City, Mo.
Brown Bag Filling Machine Co., The
Fitchburg, Mass.
Cupples-Hesse Corp.
St. Louis, Mo.
Salem, Ohio
Disbrow Mfg. Co.
Newark, N. J.
Heco Envelope Co.
Chicago, Ill.
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.



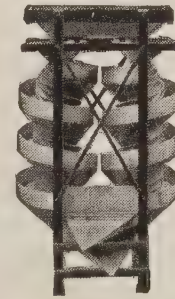
The Warehouse Seed Cleaner

Designed for general seed cleaning or seed receiving separator. Accurate weight grading. Efficient screening. Large capacity. Very light running. Low priced.

Expert Rehuller and Scarifier

Rehulls and scarifies any kind of seed with maximum capacity and efficiency.

The Krussow Double Spiral



For separating round seeds from flat or irregular seeds. Largest capacity—highest efficiency.
• Also mfg. corn graders and grain cleaners.

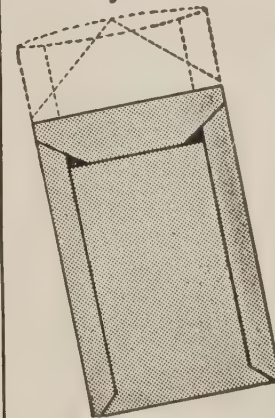
CLELAND
MANUFACTURING CO.
2800 Washington Ave. N.
Minneapolis, Minn.

FOR ECONOMY AND SAFETY

mail your seed samples

IN

SPEAR ENVELOPES



They are strong, secure, non-sifting. Can be had plain or printed.

Sizes from 3 x 4½ to 7 x 11½.

These envelopes must be seen to appreciate their outstanding features.

Send for free samples. We also manufacture catalog and commercial envelopes and letterheads.

HEINRICH ENVELOPE CO.

Manufacturer
108 No. Washington, Minneapolis, Minn.



Your **BUSINESS**

The production of your catalog isn't "just another printing job" to us. Why? . . . simply because **our** business is only as good as **your** business . . . so it's up to us to get **results** for you. To do this, we carefully plan every job on **sound selling ideas**.

This conscientious service has a record of **proven** results.

The Du Bois Press
Rochester, N. Y.
HORTICULTURAL PRINTERS

for the Seed Trade



✓ ENVELOPES
✓ TAGS
✓ SEED BAGS

WRITE FOR SAMPLES
AND PRICES . . .

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Saginaw, Mich.
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

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American Grain Separator Co.
Minneapolis, Minn.
Ariens Co.
Brillion, Wis.
Case Co., J. I.
Racine, Wis.
Hance Mfg. Co., J. W.
Westerville, Ohio

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Chicago, Ill.
Douglas-Guardian Warehouse Corp.
Chicago, Ill.

FINANCING
Banks Warehouses (Inc.) Wm. H.
Chicago, Ill.
Douglas-Guardian Warehouse Corp.
Chicago, Ill.

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(See Fumigants Under Resale
Merchandise)

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Herbst Bros.
New York, N. Y.
Seedbuero Equipment Co.
Chicago, Ill.
Specialty Mfg. Co.
St. Paul, Minn.
Standard Scientific Supply Corp.
New York, N. Y.

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Saginaw, W. S., Mich.
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

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Minneapolis, Minn.
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Saginaw, W. S., Mich.
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

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Saginaw, Mich.
Hart-Carter Co.
Minneapolis, Minn.
Howes Co., Inc., S.
Silver Creek, N. Y.
Oliver Mfg. Co.
St. Louis, Mo.
Superior Separator Co.
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Westerville, Ohio
Howes Co., Inc., S.
Silver Creek, N. Y.
Oliver Mfg. Co.
St. Louis, Mo.
Seedbuero Equipment Co.
Chicago, Ill.

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Co.
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Foley Greenhouse Mfg. Co.
Forest Park, Ill.
Lord & Burnham Co.
Irvington, N. Y.
Metropolitan Greenhouse Mfg. Corp.
Brooklyn, N. Y.
Yoho & Hooker
Youngstown, Ohio

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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.

Straub Co.
Philadelphia, Pa.
W-W Grinder Corp.
Wichita, Kans.

HAMMER MILLS
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Racine, Wis.
Sedberry, Inc., J. B.
Franklin, Tenn.

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Chicago, Ill.
McFarland Publicity Service
Harrisburg, Pa.
Morse Co., A. B.
St. Joseph, Mich.

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CHART**
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El Monte, Calif.

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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.

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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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Chicago, Ill.
Douglas-Guardian Warehouse Corp.
Chicago, Ill.

KODACHROMES

Bodger Seeds, Ltd.
El Monte, Calif.

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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.

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Morse Co., A. B.
St. Joseph, Mich.
Schmidt Litho. Co.
San Francisco, Calif.
Stecher-Traung Litho. Corp.
Rochester, N. Y.

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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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Bemis Bro. Bag Co.
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Fitchburg, Mass.
Disbrow Mfg. Co.
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Outlook Envelope Co.
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Franklin, Tenn.

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Seedburo Equipment Co.
Chicago, Ill.

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Disbrow Mfg. Co.
Newark, N. J.

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Silver Creek, N. Y.
Sedberry, Inc., J. B.
Franklin, Tenn.

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Howes Co., Inc., S.
Silver Creek, N. Y.
Huntley Mfg. Co.
Brocton, N. Y.
Richardson Scale Co.
Clifton, N. J.

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Detecto Scales, Inc.
Brooklyn, N. Y.
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.

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Bemis Bro. Bag Co.
St. Louis, Mo.
Disbrow Mfg. Co.
Newark, N. J.
Fulton Bag & Cotton Mills
Atlanta, Ga.

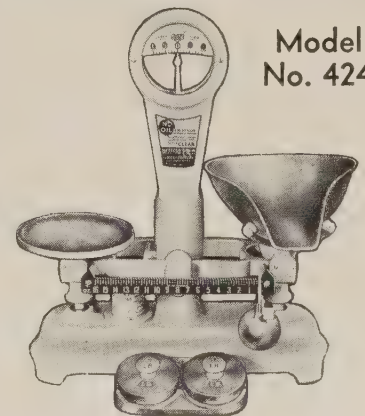
SAMPLE CASES

Hamilton Mfg. Co.
Two Rivers, Wis.
Heller & Co.
Montpelier, Ohio
Knickerbocker Case Co.
Chicago, Ill.
Seedburo Equipment Co.
Chicago, Ill.

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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.

**DETECTO-GRAM
Seed Scale
Stops Losses
Speeds Packaging**

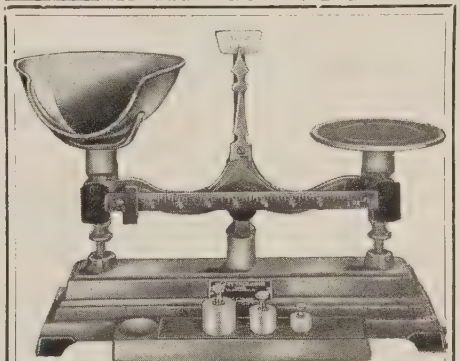


Model No. 424

Shows slightest overweight. Wide travel indicator shows fraction of an ounce clearly. Save time and money with one of many Detecto-Gram scales. Write now for complete information.

DETECTO-GRAM SCALES

div. of Detecto Scales, Inc.
Scale Makers Since 1900
Representatives in all principal cities
3 MAIN ST., BROOKLYN, N. Y.



No. 7857 SCALE

Henry Troemner

Manufacturer

Fine Balances, Scales,
Weights for Testing
and Grading of Seed,
Grain, etc.

Sensitive to 1/128 ounce

Many Types for Many Uses

EST. 1840

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East Rutherford, N. J.
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Rochester, N. Y.
Weaver Mailing Envelope & Box Co.
Philadelphia, Pa.

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Seedbuero Equipment Co.
Chicago, Ill.

SCALE COVERS—CANVAS
Bemis Bro. Bag Co.
St. Louis, Mo.

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Exact Weight Scale Co., The
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Fairbanks, Morse & Co.
Chicago, Ill.
Howes Co., Inc., S.
Silver Creek, N. Y.
Richardson Scale Co.
Clifton, N. J.
Toledo Scale Co.
Toledo, Ohio
Torsion Balance Co.
New York, N. Y.
Troemner, Henry
Philadelphia, Pa.

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FORM**
Detecto Scales, Inc.
Brooklyn, N. Y.
Exact Weight Scale Co., The
Columbus, Ohio
Howes Co., Inc., S.
Silver Creek, N. Y.

Ralston Scale Co.
Columbus, Ohio
Seedbuero 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.

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Exact Weight Scale Co., The
Columbus, Ohio
Seedbuero Equipment Co.
Chicago, Ill.
Standard Scientific Supply Corp.
New York, N. Y.
Torsion Balance Co.
New York, N. Y.
Troemner, Henry
Philadelphia, Pa.

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Allis-Chalmers Mfg. Co.
Milwaukee, Wis.
American Grain Separator Co.
Minneapolis, 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.
Superior Separator Co.
Minneapolis, Minn.

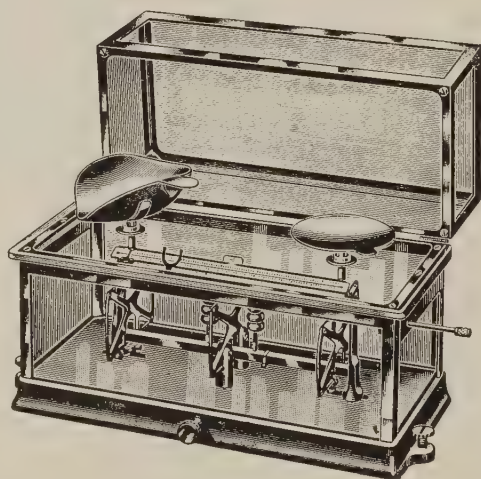
SCOOPS
Detecto Scales, Inc.
Brooklyn, N. Y.
Michigan Wire Goods Co. (Wire)
(Potato, Corn, Apple)
Niles, Mich.
Seedbuero Equipment Co.
Chicago, Ill.
Troemner, Henry
Philadelphia, Pa.
Union Fork & Hoe Co., The
Columbus, Ohio

SCREENS
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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.
Seedbuero Equipment Co.
Chicago, Ill.
Sutton, Steele & Steele, Inc.
Dallas, Texas

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Brooklyn, N. Y.
Bates Valve Bag Corp. (Wire Tie)
New York, N. Y.
Brooks Co., E. J.
Newark, N. J.
Porter Safety Seal Co.
Chicago, Ill.
Protecto-Seal Co.
Orchard Park, N. Y.
Stoffel Seals Co.
Chicago, Ill.

TORSION BALANCES

For Grain, Seed Testing, Laboratory
Work, etc.

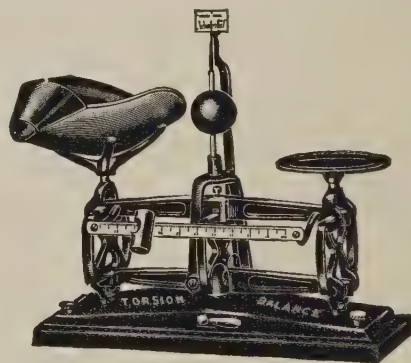


No. 5055

For determination of percentage of damaged kernels; foreign material other than dockage; wheat of other classes; acidity test of corn, etc. Extensively used by U. S. Dept. of Agriculture, Grain and Seed Industry, Etc.

Capacity 120 grams
Sensitiveness 2 mg.
Scoop 4 x 3 1/8 x 1 3/8 inches deep
Graduated Beam 0 to 1 gram by 1/100th gram graduations, **or if specified**, 0 to 500 mg. by 5 mg. graduations.

No Small Weights Required



Nos. 4000, 4005

Designed according to suggestions of the U. S. Department of Agriculture expressly for the determination of moisture in grain.

Capacity 1 kg. (2 lb.)
Graduated Beam 0 to 10 grams by 1/10th gram graduations.
Brass Scoop 10 1/2 x 5 1/2 x 2 1/2 inches deep

Send for bulletin No. 575

THE TORSION BALANCE CO.

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Factory: 147-153 Eighth St., Jersey City, N. J.

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Montpelier, Ohio

SEED CASES

Davis Metal Fixture Co.
Lansing, Mich.

Heller & Co.
Montpelier, Ohio

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Westerville, Ohio

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Minneapolis, Minn.
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Westerville, Ohio
Howes Co., Inc., S.
Silver Creek, N. Y.

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Rockford, Ill.
Seedburo Equipment Co.
Chicago, Ill.

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American Paper Goods Co., The
Chicago, Ill.
Brown Bag Filling Machine Co., The
Fitchburg, Mass.
Cupples Hesse Corp.
St. Louis, Mo.
Disbrow Mfg. Co.
Newark, N. J.

SEED SEPARATORS

Ferrell & Co., A. T.
Saginaw, Mich.
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
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. Y.
Seedburo Equipment Co.
Chicago, Ill.

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Commercial Seed Laboratory
Washington, D. C., and Toledo, Ohio
International Seed, Inc.
New York, N. Y.
Standard Reference Laboratory
Ames, Iowa
Montgomery Seed Laboratory
Montgomery, 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.

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American Grain Separator Co.
Minneapolis, 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.

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Bayer-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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Sutton, Steele & Steele, Inc.
Dallas, Texas

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SHAKING SHOES

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St. Louis, Mo.

SHEETING AND BURLAP FOR SHADE

Bemis Bro. Bag Co.
St. Louis, Mo.

Exact Weight Scales

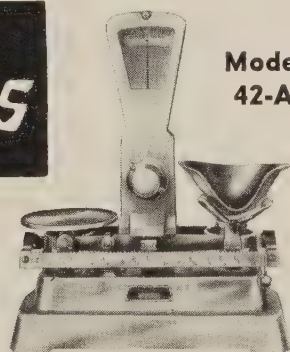
*Helping the SEEDMEN
do their War Job . . .*

Victory gardens and fields are no longer talk . . . they are actual facts and necessities. Food wins wars!

Your war job is selling the seed for this big effort. When you weigh your seed use EXACT WEIGHT Scales for speed and accuracy. They get your orders out fast and at a profit. These scales are the same reliable units they have always been.

Remember this when you buy a scale. It takes a real scale to sell seed over the counter from bulk and do it at a profit.

*Write for our complete 1943
illustrated seed scale catalog
—do it before the busy season
opens.*



Model
42-A

EXACT WEIGHT Scale Model 42-A. Recommended for over-the-counter sales of expensive and costly flower seed, or packaging flower seeds. Equipped with open scoop. Accurate to 1/100 oz. Capacity to 1 lb.

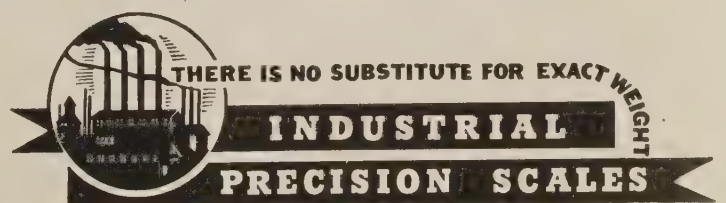


Model
8006

EXACT WEIGHT Scale Model 8006. Recommended for packaging garden seeds or large orders of flower seeds. Nile blue or white as preferred. Equipped with funnel scoop. Accurate to 1/8 oz. Capacity to 12 lbs.

The Exact Weight Scale Company

18 W. Fifth Ave., Columbus, Ohio





D. H. GILBERT

Founder in 1899 of the Reliable
D. H. GILBERT SEED CO.

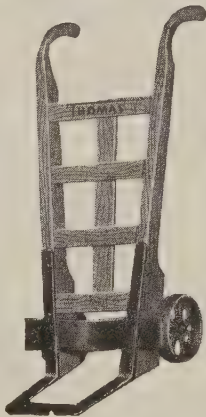
**GROWERS of
WATERMELONS**

Expressly for Seed Purposes—Inbred True
to Type Stock

MONTICELLO, FLORIDA
Home of the WATERMELON

**BAG
TRUCKS**

A very popular bag truck, probably more widely used for all kinds of bag handling than any other. Has a one-piece cast steel nose with ample wheel guards, smooth and strong. Model 25A pictured. Several others.



PLATFORM TRUCKS

Heavy, rigid; a size to meet every requirement. Strong angle steel frame welded into a one-piece unit with running gear supports. Smooth hardwood boards laid flush inside angle frame. Built to give long service.



No. 360-S Series

THOMAS

TRUCK & CASTER CO.

4301 Mississippi River Keokuk, Iowa

Fulton Bag & Cotton Mills
Atlanta, Ga.

SHELLERS—CORN

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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—BEET SEED

Ferrell & Co., A. T.
Saginaw, Mich.

SORTERS—CORN

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Silver Creek, N. Y.
Universal Hoist & Mfg. Co.
Cedar Falls, Iowa

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Heller & Co.
Montpelier, Ohio
Narragansett Machine Co.
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Dayton, Ohio
Stackbin Corp.
Providence, R. I.
Walkerbilt
Penn Yan, N. Y.

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Ferrell & Co., A. T. (Hand and Power)
Saginaw, Mich.

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Fowler, Ind.
Campbell Box & Tag Co.
South Bend, Ind.
Central Tag Co.
Chicago, Ill.
Cupples-Hesse Corp.
St. Louis, Mo.
Dennison Mfg. Co.
Framingham, Mass.
Disbrow Mfg. Co.
Newark, N. J.
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.

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Seedbuero Equipment Co.
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Specialty Mfg. Co.
St. Paul, Minn.

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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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American Grain Separator Co.
Minneapolis, Minn.
Caledonia Bean Harvester Works
Caledonia, 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.
Morristown, Tenn.
Pioneer Thresher Co.
Shortsville, N. Y.

TILLERS

Ariens Co.
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Chicago, Ill.
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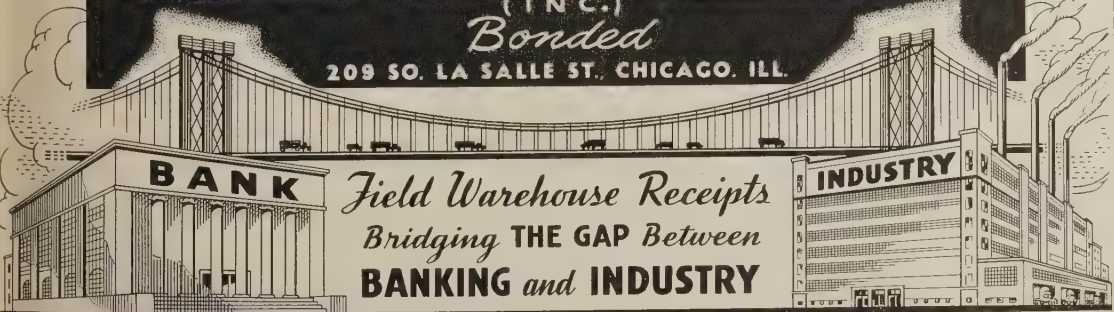
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TOLERANCE TABLES TO BE USED IN CONNECTION WITH THE ENFORCEMENT OF THE FEDERAL SEED ACT

(Seedsmen should remember that the tolerances are not for the purpose of permitting labeling to show higher quality than is actually found by test. The tolerances are provided to take care of the unavoidable variation in the results of tests and difficulty in bringing seed to uniform quality. It would be the part of wisdom to label the seed as indicated by test and certainly not to show higher quality than is indicated by test. There are numerous indications that seedsmen are applying the tolerance to the results of tests when labeling seed for shipment in interstate commerce. This is certain to lead to difficulty. The seedsman will need the protection of the tolerance if he labels the seed on the basis of the results of a test. If the tolerance is applied prior to labeling the seed, the seedsman in effect deprives himself of the protection of the tolerance.)

TABLE OF TOLERANCE FOR PURE SEED VARIATIONS FOR OTHER THAN CERTAIN CHAFFY GRASSES

| Value % | .00 | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | Value % |
|---------|------|------|------|------|------|------|------|------|------|------|---------|
| 100 | .60 | | | | | | | | | | 100 |
| 99 | .79 | .77 | .75 | .73 | .71 | .69 | .67 | .65 | .63 | .61 | 99 |
| 98 | .99 | .97 | .95 | .93 | .91 | .89 | .87 | .85 | .83 | .81 | 98 |
| 97 | 1.18 | 1.16 | 1.14 | 1.12 | 1.10 | 1.08 | 1.06 | 1.05 | 1.04 | 1.01 | 97 |
| 96 | 1.36 | 1.34 | 1.33 | 1.31 | 1.29 | 1.27 | 1.25 | 1.23 | 1.21 | 1.20 | 96 |
| 95 | 1.55 | 1.52 | 1.50 | 1.48 | 1.46 | 1.45 | 1.44 | 1.42 | 1.40 | 1.38 | 95 |
| 94 | 1.72 | 1.71 | 1.69 | 1.67 | 1.65 | 1.63 | 1.62 | 1.60 | 1.58 | 1.56 | 94 |
| 93 | 1.90 | 1.88 | 1.86 | 1.85 | 1.83 | 1.81 | 1.79 | 1.78 | 1.76 | 1.74 | 93 |
| 92 | 2.07 | 2.05 | 2.03 | 2.02 | 2.00 | 1.98 | 1.96 | 1.95 | 1.93 | 1.91 | 92 |
| 91 | 2.23 | 2.22 | 2.20 | 2.18 | 2.17 | 2.15 | 2.13 | 2.12 | 2.10 | 2.08 | 91 |
| 90 | 2.40 | 2.38 | 2.36 | 2.35 | 2.33 | 2.31 | 2.30 | 2.28 | 2.27 | 2.25 | 90 |
| 89 | 2.55 | 2.54 | 2.52 | 2.51 | 2.49 | 2.47 | 2.46 | 2.44 | 2.43 | 2.41 | 89 |
| 88 | 2.71 | 2.67 | 2.68 | 2.66 | 2.65 | 2.63 | 2.62 | 2.60 | 2.58 | 2.57 | 88 |
| 87 | 2.86 | 2.84 | 2.83 | 2.81 | 2.80 | 2.78 | 2.77 | 2.75 | 2.74 | 2.72 | 87 |
| 86 | 3.00 | 2.99 | 2.97 | 2.96 | 2.95 | 2.92 | 2.92 | 2.90 | 2.89 | 2.87 | 86 |
| 85 | 3.15 | 3.13 | 3.12 | 3.10 | 3.09 | 3.07 | 3.06 | 3.05 | 3.03 | 3.02 | 85 |
| 84 | 3.28 | 3.27 | 3.26 | 3.24 | 3.23 | 3.21 | 3.20 | 3.19 | 3.17 | 3.16 | 84 |
| 83 | 3.42 | 3.40 | 3.39 | 3.38 | 3.36 | 3.35 | 3.34 | 3.32 | 3.31 | 3.30 | 83 |
| 82 | 3.55 | 3.53 | 3.52 | 3.51 | 3.50 | 3.48 | 3.47 | 3.46 | 3.44 | 3.43 | 82 |
| 81 | 3.67 | 3.66 | 3.65 | 3.64 | 3.62 | 3.61 | 3.60 | 3.59 | 3.57 | 3.56 | 81 |
| 80 | 3.80 | 3.78 | 3.77 | 3.76 | 3.75 | 3.73 | 3.72 | 3.71 | 3.70 | 3.68 | 80 |
| 79 | 3.91 | 3.90 | 3.89 | 3.88 | 3.87 | 3.85 | 3.84 | 3.83 | 3.82 | 3.81 | 79 |
| 78 | 4.03 | 4.02 | 4.00 | 3.99 | 3.98 | 3.97 | 3.96 | 3.95 | 3.94 | 3.92 | 78 |
| 77 | 4.14 | 4.13 | 4.12 | 4.10 | 4.09 | 4.08 | 4.07 | 4.06 | 4.05 | 4.04 | 77 |
| 76 | 4.24 | 4.23 | 4.22 | 4.21 | 4.20 | 4.19 | 4.18 | 4.17 | 4.16 | 4.15 | 76 |
| 75 | 4.35 | 4.33 | 4.32 | 4.31 | 4.30 | 4.29 | 4.28 | 4.27 | 4.26 | 4.25 | 75 |
| 74 | 4.44 | 4.43 | 4.42 | 4.41 | 4.40 | 4.39 | 4.38 | 4.37 | 4.36 | 4.35 | 74 |
| 73 | 4.54 | 4.53 | 4.52 | 4.51 | 4.50 | 4.49 | 4.48 | 4.47 | 4.46 | 4.45 | 73 |
| 72 | 4.63 | 4.62 | 4.61 | 4.60 | 4.59 | 4.58 | 4.57 | 4.56 | 4.55 | 4.55 | 72 |
| 71 | 4.71 | 4.70 | 4.70 | 4.69 | 4.68 | 4.67 | 4.66 | 4.65 | 4.64 | 4.64 | 71 |
| 70 | 4.80 | 4.79 | 4.78 | 4.77 | 4.76 | 4.75 | 4.75 | 4.74 | 4.73 | 4.72 | 70 |
| 69 | 4.87 | 4.87 | 4.86 | 4.85 | 4.84 | 4.83 | 4.83 | 4.82 | 4.81 | 4.80 | 69 |
| 68 | 4.95 | 4.94 | 4.93 | 4.93 | 4.92 | 4.91 | 4.90 | 4.90 | 4.89 | 4.88 | 68 |
| 67 | 5.02 | 5.01 | 5.00 | 5.00 | 4.99 | 4.98 | 4.98 | 4.97 | 4.96 | 4.95 | 67 |
| 66 | 5.08 | 5.08 | 5.07 | 5.06 | 5.06 | 5.05 | 5.04 | 5.04 | 5.03 | 5.02 | 66 |
| 65 | 5.15 | 5.14 | 5.13 | 5.13 | 5.12 | 5.11 | 5.11 | 5.10 | 5.10 | 5.09 | 65 |
| 64 | 5.20 | 5.20 | 5.19 | 5.19 | 5.18 | 5.17 | 5.17 | 5.16 | 5.16 | 5.15 | 64 |
| 63 | 5.26 | 5.25 | 5.25 | 5.24 | 5.24 | 5.23 | 5.23 | 5.22 | 5.21 | 5.21 | 63 |
| 62 | 5.31 | 5.30 | 5.30 | 5.29 | 5.29 | 5.28 | 5.28 | 5.27 | 5.27 | 5.26 | 62 |
| 61 | 5.35 | 5.35 | 5.34 | 5.34 | 5.34 | 5.33 | 5.33 | 5.32 | 5.32 | 5.31 | 61 |
| 60 | 5.40 | 5.39 | 5.39 | 5.38 | 5.38 | 5.37 | 5.37 | 5.37 | 5.36 | 5.36 | 60 |
| 59 | 5.43 | 5.43 | 5.43 | 5.42 | 5.42 | 5.41 | 5.41 | 5.41 | 5.40 | 5.40 | 59 |
| 58 | 5.47 | 5.46 | 5.46 | 5.46 | 5.45 | 5.45 | 5.45 | 5.44 | 5.44 | 5.44 | 58 |
| 57 | 5.50 | 5.49 | 5.49 | 5.49 | 5.49 | 5.48 | 5.48 | 5.48 | 5.47 | 5.47 | 57 |
| 56 | 5.52 | 5.52 | 5.52 | 5.52 | 5.51 | 5.51 | 5.51 | 5.51 | 5.50 | 5.50 | 56 |
| 55 | 5.55 | 5.54 | 5.54 | 5.54 | 5.54 | 5.53 | 5.53 | 5.53 | 5.53 | 5.53 | 55 |
| 54 | 5.56 | 5.56 | 5.56 | 5.56 | 5.56 | 5.55 | 5.55 | 5.55 | 5.55 | 5.55 | 54 |
| 53 | 5.58 | 5.58 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.56 | 53 |
| 52 | 5.59 | 5.59 | 5.59 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 52 |
| 51 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 51 |
| 50 | 5.60 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 50 |

The tolerance for pure seed on purity less than 50% is the same as the tolerance for the larger part of the difference between the purity and 100%.

Example: If the purity test is 96.40% use the table in this manner: Find 96 in the "Value" column, then the .40 at top of table. These two intersect at 1.29. Therefore the tolerance allowed would be 1.29%.

TABLE OF TOLERANCE FOR WEED SEEDS, OTHER CROP SEED, AND INERT MATTER FOR OTHER THAN CERTAIN CHAFFY GRASSES

| Value % | .00 | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | Value % |
|---------|------|------|------|------|------|------|------|------|------|------|---------|
| 0 | .20 | .21 | .23 | .25 | .27 | .29 | .31 | .33 | .35 | .37 | 0 |
| 1 | .39 | .41 | .43 | .45 | .47 | .49 | .51 | .53 | .55 | .57 | 1 |
| 2 | .59 | .61 | .63 | .65 | .66 | .68 | .70 | .72 | .74 | .76 | 2 |
| 3 | .78 | .80 | .81 | .83 | .85 | .87 | .89 | .91 | .93 | .94 | 3 |
| 4 | .96 | .98 | 1.00 | 1.02 | 1.04 | 1.05 | 1.06 | 1.08 | 1.10 | 1.12 | 4 |
| 5 | 1.15 | 1.16 | 1.18 | 1.20 | 1.22 | 1.23 | 1.25 | 1.27 | 1.29 | 1.31 | 5 |
| 6 | 1.32 | 1.34 | 1.36 | 1.38 | 1.39 | 1.41 | 1.43 | 1.45 | 1.46 | 1.48 | 6 |
| 7 | 1.50 | 1.51 | 1.53 | 1.55 | 1.56 | 1.58 | 1.60 | 1.62 | 1.63 | 1.65 | 7 |
| 8 | 1.67 | 1.68 | 1.70 | 1.72 | 1.73 | 1.75 | 1.77 | 1.78 | 1.80 | 1.82 | 8 |
| 9 | 1.83 | 1.85 | 1.87 | 1.88 | 1.90 | 1.91 | 1.93 | 1.95 | 1.96 | 1.98 | 9 |
| 10 | 2.00 | 2.01 | 2.03 | 2.04 | 2.06 | 2.07 | 2.09 | 2.11 | 2.12 | 2.14 | 10 |
| 11 | 2.15 | 2.17 | 2.18 | 2.20 | 2.22 | 2.23 | 2.25 | 2.26 | 2.28 | 2.29 | 11 |
| 12 | 2.31 | 2.32 | 2.34 | 2.35 | 2.37 | 2.38 | 2.40 | 2.41 | 2.43 | 2.44 | 12 |
| 13 | 2.46 | 2.47 | 2.49 | 2.50 | 2.52 | 2.53 | 2.55 | 2.56 | 2.57 | 2.59 | 13 |
| 14 | 2.60 | 2.62 | 2.63 | 2.65 | 2.66 | 2.67 | 2.69 | 2.70 | 2.72 | 2.73 | 14 |
| 15 | 2.75 | 2.76 | 2.77 | 2.79 | 2.80 | 2.81 | 2.83 | 2.84 | 2.86 | 2.87 | 15 |
| 16 | 2.88 | 2.90 | 2.91 | 2.92 | 2.94 | 2.95 | 2.96 | 2.98 | 2.89 | 3.00 | 16 |
| 17 | 3.02 | 3.03 | 3.04 | 3.06 | 3.07 | 3.08 | 3.10 | 3.11 | 3.12 | 3.13 | 17 |
| 18 | 3.15 | 3.16 | 3.17 | 3.19 | 3.20 | 3.21 | 3.22 | 3.24 | 3.25 | 3.26 | 18 |
| 19 | 3.27 | 3.28 | 3.30 | 3.31 | 3.32 | 3.33 | 3.35 | 3.36 | 3.37 | 3.38 | 19 |
| 20 | 3.40 | 3.41 | 3.42 | 3.43 | 3.44 | 3.45 | 3.47 | 3.48 | 3.49 | 3.50 | 20 |
| 21 | 3.51 | 3.52 | 3.54 | 3.55 | 3.56 | 3.57 | 3.58 | 3.59 | 3.60 | 3.62 | 21 |
| 22 | 3.63 | 3.64 | 3.65 | 3.66 | 3.67 | 3.68 | 3.69 | 3.70 | 3.72 | 3.73 | 22 |
| 23 | 3.74 | 3.75 | 3.76 | 3.77 | 3.78 | 3.79 | 3.80 | 3.81 | 3.82 | 3.83 | 23 |
| 24 | 3.84 | 3.85 | 3.86 | 3.87 | 3.88 | 3.89 | 3.90 | 3.91 | 3.92 | 3.93 | 24 |
| 25 | 3.95 | 3.95 | 3.96 | 3.97 | 3.98 | 3.99 | 4.00 | 4.01 | 4.02 | 4.03 | 25 |
| 26 | 4.04 | 4.05 | 4.06 | 4.07 | 4.08 | 4.09 | 4.10 | 4.11 | 4.12 | 4.13 | 26 |
| 27 | 4.14 | 4.15 | 4.16 | 4.16 | 4.17 | 4.18 | 4.19 | 4.20 | 4.21 | 4.22 | 27 |
| 28 | 4.23 | 4.24 | 4.24 | 4.25 | 4.26 | 4.27 | 4.28 | 4.29 | 4.30 | 4.30 | 28 |
| 29 | 4.31 | 4.32 | 4.33 | 4.34 | 4.35 | 4.35 | 4.36 | 4.37 | 4.38 | 4.39 | 29 |
| 30 | 4.40 | 4.40 | 4.41 | 4.42 | 4.43 | 4.43 | 4.44 | 4.45 | 4.46 | 4.47 | 30 |
| 31 | 4.47 | 4.48 | 4.49 | 4.50 | 4.50 | 4.51 | 4.52 | 4.53 | 4.53 | 4.54 | 31 |
| 32 | 4.55 | 4.55 | 4.56 | 4.57 | 4.58 | 4.58 | 4.59 | 4.60 | 4.60 | 4.61 | 32 |
| 33 | 4.62 | 4.62 | 4.63 | 4.64 | 4.64 | 4.65 | 4.66 | 4.66 | 4.67 | 4.68 | 33 |
| 34 | 4.68 | 4.69 | 4.70 | 4.70 | 4.71 | 4.71 | 4.72 | 4.73 | 4.73 | 4.74 | 34 |
| 35 | 4.75 | 4.75 | 4.76 | 4.76 | 4.77 | 4.77 | 4.78 | 4.79 | 4.79 | 4.80 | 35 |
| 36 | 4.80 | 4.81 | 4.81 | 4.82 | 4.83 | 4.83 | 4.84 | 4.84 | 4.85 | 4.85 | 36 |
| 37 | 4.86 | 4.86 | 4.87 | 4.87 | 4.88 | 4.88 | 4.89 | 4.89 | 4.90 | 4.90 | 37 |
| 38 | 4.91 | 4.91 | 4.92 | 4.92 | 4.93 | 4.93 | 4.94 | 4.94 | 4.94 | 4.95 | 38 |
| 39 | 4.95 | 4.96 | 4.96 | 4.97 | 4.97 | 4.98 | 4.98 | 4.98 | 4.99 | 4.99 | 39 |
| 40 | 5.00 | 5.00 | 5.00 | 5.00 | 5.01 | 5.01 | 5.02 | 5.02 | 5.03 | 5.03 | 40 |

Example—If the sample tested shows 4.40% of weed seeds, other crop seeds and inert matter, the tolerance is computed as follows: Find 4 in the "value" column, then .40 at top of table. These two intersect at 1.04; hence the tolerance is 1.04%.

Table of Tolerance for Inert Matter, Weed Seed, and Crop Seed for the following: Poa spp., Argostis spp. Festuca spp., bromegrass, crested wheatgrass, orchard grass, velvet grass, tall oatgrass, meadow foxtail, sweet vernalgrass, Rhodes grass, Dallis grass, carpet grass and Bermuda grass, and mixtures containing these seeds singly or combined in excess of 50%

| Value % | .00 | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | Value % |
|---------|------|------|------|------|------|------|------|------|------|------|---------|
| 0 | .20 | .21 | .23 | .25 | .27 | .29 | .31 | .33 | .35 | .37 | 0 |
| 1 | .39 | .41 | .43 | .45 | .47 | .49 | .51 | .53 | .55 | .58 | 1 |
| 2 | .60 | .62 | .64 | .66 | .67 | .69 | .71 | .73 | .76 | .78 | 2 |
| 3 | .80 | .82 | .83 | .85 | .87 | .90 | .92 | .94 | .96 | .97 | 3 |
| 4 | .99 | 1.02 | 1.04 | 1.06 | 1.08 | 1.09 | 1.10 | 1.13 | 1.15 | 1.17 | 4 |
| 5 | 1.20 | 1.21 | 1.24 | 1.26 | 1.28 | 1.29 | 1.31 | 1.33 | 1.35 | 1.37 | 5 |
| 6 | 1.39 | 1.42 | 1.44 | 1.46 | 1.47 | 1.50 | 1.52 | 1.54 | 1.55 | 1.58 | 6 |
| 7 | 1.60 | 1.61 | 1.64 | 1.66 | 1.67 | 1.69 | 1.72 | 1.74 | 1.75 | 1.78 | 7 |
| 8 | 1.80 | 1.81 | 1.83 | 1.86 | 1.87 | 1.89 | 1.92 | 1.93 | 1.95 | 1.98 | 8 |
| 9 | 1.99 | 2.01 | 2.04 | 2.06 | 2.07 | 2.09 | 2.11 | 2.13 | 2.15 | 2.17 | 9 |
| 10 | 2.20 | 2.21 | 2.23 | 2.25 | 2.27 | 2.28 | 2.31 | 2.33 | 2.34 | 2.37 | 10 |
| 11 | 2.38 | 2.41 | 2.42 | 2.44 | 2.47 | 2.48 | 2.51 | 2.52 | 2.54 | 2.56 | 11 |
| 12 | 2.58 | 2.60 | 2.62 | 2.63 | 2.66 | 2.67 | 2.70 | 2.71 | 2.74 | 2.75 | 12 |
| 13 | 2.77 | 2.79 | 2.81 | 2.83 | 2.85 | 2.87 | 2.89 | 2.91 | 2.92 | 2.95 | 13 |
| 14 | 2.96 | 2.98 | 3.00 | 3.03 | 3.04 | 3.05 | 3.07 | 3.09 | 3.12 | 3.13 | 14 |
| 15 | 3.16 | 3.17 | 3.19 | 3.21 | 3.23 | 3.24 | 3.26 | 3.28 | 3.29 | 3.32 | 15 |

(Continued on next page)

(Continued from preceding page)

| Value % | .00 | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | Value % |
|---------|------|------|------|------|------|------|------|------|------|------|---------|
| 16 | 3.34 | 3.36 | 3.38 | 3.39 | 3.42 | 3.43 | 3.45 | 3.47 | 3.49 | 3.50 | 16 |
| 17 | 3.53 | 3.54 | 3.56 | 3.58 | 3.60 | 3.61 | 3.64 | 3.66 | 3.67 | 3.69 | 17 |
| 18 | 3.71 | 3.73 | 3.74 | 3.77 | 3.78 | 3.80 | 3.81 | 3.84 | 3.86 | 3.87 | 18 |
| 19 | 3.89 | 3.90 | 3.93 | 3.94 | 3.96 | 3.97 | 4.00 | 4.02 | 4.03 | 4.05 | 19 |
| 20 | 4.08 | 4.09 | 4.11 | 4.12 | 4.14 | 4.15 | 4.18 | 4.20 | 4.21 | 4.23 | 20 |
| 21 | 4.24 | 4.26 | 4.29 | 4.30 | 4.32 | 4.33 | 4.35 | 4.36 | 4.38 | 4.41 | 21 |
| 22 | 4.42 | 4.44 | 4.46 | 4.47 | 4.49 | 4.50 | 4.52 | 4.53 | 4.56 | 4.58 | 22 |
| 23 | 4.60 | 4.61 | 4.63 | 4.64 | 4.66 | 4.68 | 4.69 | 4.71 | 4.72 | 4.74 | 23 |
| 24 | 4.76 | 4.77 | 4.79 | 4.81 | 4.82 | 4.84 | 4.85 | 4.87 | 4.89 | 4.90 | 24 |
| 25 | 4.93 | 4.94 | 4.95 | 4.97 | 4.99 | 5.00 | 5.02 | 5.04 | 5.05 | 5.07 | 25 |
| 26 | 5.09 | 5.10 | 5.12 | 5.14 | 5.15 | 5.17 | 5.19 | 5.20 | 5.22 | 5.24 | 26 |
| 27 | 5.25 | 5.27 | 5.29 | 5.29 | 5.31 | 5.32 | 5.34 | 5.36 | 5.38 | 5.39 | 27 |
| 28 | 5.41 | 5.43 | 5.43 | 5.45 | 5.46 | 5.48 | 5.50 | 5.53 | 5.53 | 5.54 | 28 |
| 29 | 5.55 | 5.57 | 5.59 | 5.61 | 5.62 | 5.63 | 5.65 | 5.66 | 5.68 | 5.70 | 29 |
| 30 | 5.72 | 5.72 | 5.74 | 5.75 | 5.77 | 5.78 | 5.79 | 5.81 | 5.83 | 5.85 | 30 |
| 31 | 5.85 | 5.87 | 5.89 | 5.90 | 5.91 | 5.93 | 5.94 | 5.96 | 5.97 | 5.98 | 31 |
| 32 | 6.00 | 6.01 | 6.02 | 6.04 | 6.06 | 6.06 | 6.08 | 6.10 | 6.10 | 6.12 | 32 |
| 33 | 6.14 | 6.14 | 6.16 | 6.18 | 6.18 | 6.20 | 6.22 | 6.23 | 6.24 | 6.26 | 33 |
| 34 | 6.27 | 6.28 | 6.30 | 6.31 | 6.33 | 6.33 | 6.35 | 6.37 | 6.37 | 6.39 | 34 |
| 35 | 6.41 | 6.41 | 6.43 | 6.44 | 6.45 | 6.46 | 6.48 | 6.50 | 6.50 | 6.52 | 35 |
| 36 | 6.52 | 6.54 | 6.55 | 6.56 | 6.58 | 6.59 | 6.61 | 6.61 | 6.63 | 6.63 | 36 |
| 37 | 6.65 | 6.66 | 6.68 | 6.68 | 6.70 | 6.71 | 6.72 | 6.73 | 6.75 | 6.75 | 37 |
| 38 | 6.77 | 6.78 | 6.79 | 6.80 | 6.82 | 6.82 | 6.84 | 6.85 | 6.85 | 6.87 | 38 |
| 39 | 6.88 | 6.89 | 6.90 | 6.92 | 6.92 | 6.93 | 6.95 | 6.95 | 6.97 | 6.98 | 39 |
| 40 | 7.00 | 7.00 | 7.01 | 7.01 | 7.03 | 7.03 | 7.05 | 7.06 | 7.08 | 7.08 | 40 |

Example—If the sample tested shows 3.30% of weed seeds, other crop seeds and inert matter, the tolerance is computed as follows: Find 3 in the "value" column, then .30 at top of table. These two intersect at .85; hence the tolerance is .85%.

Table of Tolerance for Pure Seed Variations for the following: Poa spp., Agrostis spp., Festuca spp., bromegrass, crested wheatgrass, orchard grass, velvet grass, tall oatgrass, meadow foxtail, sweet vernalgrass, Rhodes grass, Dallis grass, carpet grass, and Bermuda grass, and mixtures containing these seeds singly or combined in excess of 50%

| Value % | .00 | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | Value % |
|---------|------|------|------|------|------|------|------|------|------|------|---------|
| 100 | .60 | | | | | | | | | | 100 |
| 99 | .79 | .77 | .75 | .73 | .71 | .69 | .67 | .65 | .63 | .61 | 99 |
| 98 | 1.00 | .98 | .96 | .94 | .92 | .90 | .88 | .86 | .83 | .81 | 98 |
| 97 | 1.21 | 1.19 | 1.17 | 1.15 | 1.12 | 1.10 | 1.08 | 1.07 | 1.06 | 1.03 | 97 |
| 96 | 1.41 | 1.39 | 1.38 | 1.35 | 1.33 | 1.31 | 1.29 | 1.27 | 1.24 | 1.23 | 96 |
| 95 | 1.62 | 1.59 | 1.57 | 1.54 | 1.52 | 1.51 | 1.50 | 1.48 | 1.45 | 1.43 | 95 |
| 94 | 1.82 | 1.81 | 1.78 | 1.76 | 1.74 | 1.71 | 1.70 | 1.68 | 1.66 | 1.63 | 94 |
| 93 | 2.03 | 2.00 | 1.98 | 1.97 | 1.95 | 1.92 | 1.90 | 1.87 | 1.86 | 1.84 | 93 |
| 92 | 2.23 | 2.21 | 2.18 | 2.17 | 2.15 | 2.12 | 2.10 | 2.09 | 2.06 | 2.04 | 92 |
| 91 | 2.43 | 2.41 | 2.39 | 2.36 | 2.35 | 2.33 | 2.30 | 2.28 | 2.27 | 2.24 | 91 |
| 90 | 2.64 | 2.61 | 2.59 | 2.57 | 2.55 | 2.52 | 2.51 | 2.49 | 2.47 | 2.45 | 90 |
| 89 | 2.83 | 2.81 | 2.79 | 2.77 | 2.75 | 2.72 | 2.71 | 2.69 | 2.67 | 2.65 | 89 |
| 88 | 3.03 | 3.01 | 2.99 | 2.97 | 2.95 | 2.93 | 2.91 | 2.89 | 2.86 | 2.85 | 88 |
| 87 | 3.23 | 3.20 | 3.19 | 3.16 | 3.15 | 3.12 | 3.11 | 3.08 | 3.07 | 3.04 | 87 |
| 86 | 3.42 | 3.40 | 3.37 | 3.36 | 3.35 | 3.32 | 3.31 | 3.28 | 3.27 | 3.24 | 86 |
| 85 | 3.62 | 3.59 | 3.58 | 3.55 | 3.54 | 3.51 | 3.50 | 3.48 | 3.46 | 3.44 | 85 |
| 84 | 3.80 | 3.78 | 3.77 | 3.74 | 3.73 | 3.70 | 3.69 | 3.67 | 3.65 | 3.63 | 84 |
| 83 | 4.00 | 3.97 | 3.95 | 3.94 | 3.91 | 3.90 | 3.88 | 3.86 | 3.84 | 3.83 | 83 |
| 82 | 4.18 | 4.16 | 4.14 | 4.13 | 4.11 | 4.08 | 4.07 | 4.05 | 4.03 | 4.01 | 82 |
| 81 | 4.36 | 4.35 | 4.33 | 4.32 | 4.29 | 4.27 | 4.26 | 4.24 | 4.21 | 4.20 | 81 |
| 80 | 4.56 | 4.53 | 4.51 | 4.49 | 4.48 | 4.46 | 4.44 | 4.42 | 4.41 | 4.38 | 80 |
| 79 | 4.73 | 4.71 | 4.69 | 4.68 | 4.66 | 4.63 | 4.62 | 4.60 | 4.59 | 4.57 | 79 |
| 78 | 4.92 | 4.90 | 4.87 | 4.85 | 4.83 | 4.82 | 4.80 | 4.79 | 4.77 | 4.74 | 78 |
| 77 | 5.09 | 5.07 | 5.05 | 5.03 | 5.01 | 4.99 | 4.98 | 4.96 | 4.94 | 4.93 | 77 |
| 76 | 5.25 | 5.24 | 5.22 | 5.20 | 5.19 | 5.17 | 5.15 | 5.14 | 5.12 | 5.10 | 76 |
| 75 | 5.43 | 5.40 | 5.39 | 5.37 | 5.35 | 5.34 | 5.32 | 5.30 | 5.29 | 5.27 | 75 |
| 74 | 5.59 | 5.57 | 5.56 | 5.54 | 5.52 | 5.50 | 5.49 | 5.47 | 5.45 | 5.44 | 74 |
| 73 | 5.76 | 5.84 | 5.73 | 5.71 | 5.69 | 5.67 | 5.66 | 5.64 | 5.63 | 5.61 | 73 |
| 72 | 5.92 | 5.90 | 5.89 | 5.87 | 5.85 | 5.83 | 5.82 | 5.80 | 5.80 | 5.78 | 72 |
| 71 | 6.07 | 6.05 | 6.05 | 6.03 | 6.01 | 6.00 | 5.98 | 5.96 | 5.94 | 5.94 | 71 |
| 70 | 6.24 | 6.22 | 6.20 | 6.18 | 6.16 | 6.15 | 6.14 | 6.12 | 6.11 | 6.09 | 70 |
| 69 | 6.37 | 6.37 | 6.35 | 6.33 | 6.32 | 6.30 | 6.29 | 6.28 | 6.26 | 6.24 | 69 |
| 68 | 6.53 | 6.51 | 6.49 | 6.49 | 6.47 | 6.45 | 6.43 | 6.43 | 6.41 | 6.39 | 68 |
| 67 | 6.67 | 6.65 | 6.64 | 6.63 | 6.61 | 6.59 | 6.59 | 6.57 | 6.55 | 6.53 | 67 |
| 66 | 6.80 | 6.80 | 6.78 | 6.76 | 6.76 | 6.74 | 6.72 | 6.71 | 6.71 | 6.68 | 66 |
| 65 | 6.95 | 6.93 | 6.91 | 6.91 | 6.89 | 6.87 | 6.86 | 6.84 | 6.84 | 6.82 | 65 |

| Value % | .00 | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 | Value % |
|---------|------|------|------|------|------|------|------|------|------|------|---------|
| 64 | 7.07 | 7.06 | 7.04 | 7.04 | 7.02 | 7.00 | 7.00 | 6.98 | 6.97 | 6.95 | 64 |
| 63 | 7.20 | 7.18 | 7.18 | 7.16 | 7.15 | 7.13 | 7.13 | 7.11 | 7.09 | 7.09 | 63 |
| 62 | 7.32 | 7.30 | 7.30 | 7.28 | 7.27 | 7.26 | 7.25 | 7.23 | 7.23 | 7.21 | 62 |
| 61 | 7.43 | 7.43 | 7.41 | 7.40 | 7.40 | 7.38 | 7.36 | 7.35 | 7.35 | 7.33 | 61 |
| 60 | 7.56 | 7.54 | 7.53 | 7.51 | 7.51 | 7.49 | 7.48 | 7.48 | 7.46 | 7.45 | 60 |
| 59 | 7.65 | 7.65 | 7.64 | 7.62 | 7.62 | 7.60 | 7.59 | 7.59 | 7.57 | 7.56 | 59 |
| 58 | 7.76 | 7.74 | 7.74 | 7.73 | 7.71 | 7.71 | 7.70 | 7.68 | 7.68 | 7.67 | 58 |
| 57 | 7.86 | 7.84 | 7.83 | 7.83 | 7.82 | 7.80 | 7.80 | 7.79 | 7.77 | 7.77 | 57 |
| 56 | 7.94 | 7.94 | 7.93 | 7.93 | 7.91 | 7.90 | 7.90 | 7.89 | 7.87 | 7.87 | 56 |
| 55 | 8.04 | 8.02 | 8.02 | 8.01 | 8.01 | 7.99 | 7.98 | 7.97 | 7.97 | 7.96 | 55 |
| 54 | 8.11 | 8.11 | 8.10 | 8.10 | 8.09 | 8.07 | 8.06 | 8.06 | 8.05 | 8.05 | 54 |
| 53 | 8.20 | 8.19 | 8.17 | 8.17 | 8.16 | 8.16 | 8.15 | 8.14 | 8.14 | 8.12 | 53 |
| 52 | 8.27 | 8.26 | 8.26 | 8.24 | 8.23 | 8.23 | 8.23 | 8.21 | 8.21 | 8.20 | 52 |
| 51 | 8.32 | 8.32 | 8.31 | 8.31 | 8.30 | 8.30 | 8.29 | 8.28 | 8.28 | 8.27 | 51 |
| 50 | 8.40 | 8.37 | 8.37 | 8.36 | 8.36 | 8.35 | 8.35 | 8.34 | 8.34 | 8.33 | 50 |

Example. If the purity test is 91.40%, use the table in this manner: Find 91 in the "value" column, then the .40 at top of table. These two intersect at 2.35. Therefore the tolerance allowed would be 2.35%.

EXTENDED TOLERANCE TABLE FOR OCCURRENCE OF NOXIOUS WEED SEEDS

| Number Found by Analysis | The Following Are Within the Tolerance | Number Found by Analysis | The Following Are Within the Tolerance | Number Found by Analysis | The Following Are Within the Tolerance | Number Found by Analysis | The Following Are Within the Tolerance | Number Found by Analysis | The Following Are Within the Tolerance | Number Found by Analysis | The Following Are Within the Tolerance |
|--------------------------|--|--------------------------|--|--------------------------|--|--------------------------|--|--------------------------|--|--------------------------|--|
| 2 | 0 | 66 | 51 | 122 | 101 | 176 | 151 | 230 | 201 | 283 | 251 |
| 4 | 1 | 67 | 52 | 123 | 102 | 177 | 152 | 231 | 202 | 284 | 252 |
| 6 | 2 | 68 | 53 | 124 | 103 | 178 | 153 | 232 | 203 | 285 | 253 |
| 8 | 3 | 69 | 54 | 125 | 104 | 179 | 154 | 233 | 204 | 286 | 254 |
| 9 | 4 | 71 | 55 | 126 | 105 | 180 | 155 | 234 | 205 | 287 | 255 |
| 11 | 5 | 72 | 56 | 127 | 106 | 181 | 156 | 235 | 206 | 288 | 256 |
| 12 | 6 | 73 | 57 | 128 | 107 | 183 | 157 | 236 | 207 | 289 | 257 |
| 13 | 7 | 74 | 58 | 129 | 108 | 184 | 158 | 237 | 208 | 290 | 258 |
| 14 | 8 | 75 | 59 | 130 | 109 | 185 | 159 | 238 | 209 | 292 | 259 |
| 16 | 9 | 76 | 60 | 132 | 110 | 186 | 160 | 239 | 210 | 293 | 260 |
| 17 | 10 | 77 | 61 | 133 | 111 | 187 | 161 | 240 | 211 | 294 | 261 |
| 18 | 11 | 78 | 62 | 134 | 112 | 188 | 162 | 242 | 212 | 295 | 262 |
| 20 | 12 | 80 | 63 | 135 | 113 | 189 | 163 | 243 | 213 | 296 | 263 |
| 21 | 13 | 81 | 64 | 136 | 114 | 190 | 164 | 244 | 214 | 297 | 264 |
| 22 | 14 | 82 | 65 | 137 | 115 | 191 | 165 | 245 | 215 | 298 | 265 |
| 23 | 15 | 83 | 66 | 138 | 116 | 192 | 166 | 246 | 216 | 299 | 266 |
| 24 | 16 | 84 | 67 | 139 | 117 | 193 | 167 | 247 | 217 | 300 | 267 |
| 25 | 17 | 85 | 68 | 140 | 118 | 194 | 168 | 248 | 218 | 301 | 268 |
| 27 | 18 | 86 | 69 | 141 | 119 | 195 | 169 | 249 | 219 | 302 | 269 |
| 28 | 19 | 87 | 70 | 142 | 120 | 197 | 170 | 250 | 220 | 303 | 270 |
| 29 | 20 | 89 | 71 | 144 | 121 | 198 | 171 | 251 | 221 | 304 | 271 |
| 30 | 21 | 90 | 72 | 145 | 122 | 199 | 172 | 252 | 222 | 305 | 272 |
| 32 | 22 | 91 | 73 | 146 | 123 | 200 | 173 | 253 | 223 | 306 | 273 |
| 33 | 23 | 92 | 74 | 147 | 124 | 201 | 174 | 254 | 224 | 307 | 274 |
| 34 | 24 | 93 | 75 | 148 | 125 | 202 | 175 | 255 | 225 | 309 | 275 |
| 35 | 25 | 94 | 76 | 149 | 126 | 203 | 176 | 256 | 226 | 310 | 276 |
| 37 | 26 | 95 | 77 | 150 | 127 | 204 | 177 | 258 | 227 | 311 | 277 |
| 38 | 27 | 96 | 78 | 151 | 128 | 205 | 178 | 259 | 228 | 312 | 278 |
| 39 | 28 | 97 | 79 | 152 | 129 | 206 | 179 | 260 | 229 | 313 | 279 |
| 41 | 29 | 99 | 80 | 153 | 130 | 207 | 180 | 261 | 230 | 314 | 280 |
| 42 | 30 | 100 | 81 | 154 | 131 | 208 | 181 | 262 | 231 | 315 | 281 |
| 43 | 31 | 101 | 82 | 156 | 132 | 209 | 182 | 263 | 232 | 316 | 282 |
| 44 | 32 | 102 | 83 | 157 | 133 | 211 | 183 | 264 | 233 | 317 | 283 |
| 45 | 33 | 103 | 84 | 158 | 134 | 212 | 184 | 265 | 234 | 318 | 284 |
| 46 | 34 | 104 | 85 | 159 | 135 | 213 | 185 | 266 | 235 | 319 | 285 |
| 48 | 35 | 105 | 86 | 160 | 136 | 214 | 186 | 267 | 236 | 320 | 286 |
| 49 | 36 | 106 | 87 | 161 | 137 | 215 | 187 | 268 | 237 | 321 | 287 |
| 50 | 37 | 107 | 88 | 162 | 138 | 216 | 188 | 269 | 238 | 322 | 288 |
| 51 | 38 | 108 | 89 | 163 | 139 | 217 | 189 | 270 | 239 | 323 | 289 |
| 52 | 39 | 110 | 90 | 164 | 140 | 218 | 190 | 271 | 240 | 324 | 290 |
| 53 | 40 | 111 | 91 | 165 | 141 | 219 | 191 | 272 | 241 | 325 | 291 |
| 55 | 41 | 112 | 92 | 166 | 142 | 220 | 192 | 273 | 242 | 326 | 292 |
| 56 | 42 | 113 | 93 | 167 | 143 | 221 | 193 | 275 | 243 | 328 | 293 |
| 57 | 43 | 114 | 94 | 169 | 144 | 222 | 194 | 276 | 244 | 329 | 294 |
| 58 | 44 | 115 | 95 | 170 | 145 | 223 | 195 | 277 | 245 | 330 | 295 |
| 59 | 45 | 116 | 96 | 171 | 146 | 224 | 196 | 278 | 246 | 331 | 296 |
| 60 | 46 | 117 | 97 | 172 | 147 | 226 | 197 | 279 | 247 | 332 | 297 |
| 61 | 47 | 118 | 98 | 173 | 148 | 227 | 198 | 280 | 248 | 333 | 298 |
| 63 | 48 | 120 | 99 | 174 | 149 | 228 | 199 | 281 | 249 | 334 | 299 |
| 64 | 49 | 121 | 100 | 175 | 150 | 229 | 200 | 282 | 250 | 335 | 300 |
| 65 | 50 | | | | | | | | | | |

Example—If the sample contains 50 noxious weed seeds the tolerance allowance is 37.

Classified List of Seeds

Classifications Showing Specialties of Advertisers in Seed Trade Buyers Guide

Addresses Are Shown on Pages 228-230

Flower

ANNUALS

American Bulb Co.
Bodger Seeds, Ltd.
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.
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

American Bulb Co.
Bodger Seeds, Ltd.
Buckman, Denholm & Holden Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Burrell Seeds, Inc.
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.
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.
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.
Bodger Seeds, Ltd.
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.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
The Page Seed Co.
Pieters-Wheeler Seed Co.
I. L. Radwaner 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
Waller-Franklin Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

NOVELTIES

American Bulb Co.
Bodger Seeds, Ltd.
Buckman, Denholm & Holden Seed Co.
W. Atlee Burpee Co.
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.
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

Bodger Seeds, Ltd.
Buckman, Denholm & Holden Seed Co.
Burrell Seeds, Inc.
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

Bodgers Seeds, Ltd.
Ferry-Morse Seed Co.
Herbst Brothers
Kelly Seed Co.
F. Lagomarsino & Sons
Chas. H. Lilly Co.
Wm. Macdonald Seed Co.
J. Chas. McCullough Seed Co.
Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
Vaughan's Seed Store

ZINNIAS

American Bulb Co.
Bodger Seed, Ltd.
Bowman Seed Co.
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.
Herbst Brothers
Kelly Seed Co.
F. Lagomarsino & Sons
Chas. H. Lilly Co.
Wm. Macdonald Seed Co.
J. Chas. McCullough Seed Co.
John Mosbell Co.
Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northrup, King & Co., Mpls.
L. L. Olds Seed Co.
Page Seed Co.
I. L. Radwaner Seed Co., Inc.
Vaughan's Seed Store
Waller-Franklin Seed Co.
T. W. Wood & Sons

Twin City Seed Co.
Valker-Christensen Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway
Yuma Co. Farmers Mktg. Assn.

AUSTRIAN WINTER PEAS

The Belt Seed Co.
Blue Mt. Seed Growers Assn.
Condon Bros., Seedsmen
Corneli Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro., Inc.
Mark Means Co.
Charles R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
Northwestern Seed Growers, Inc.
Paramount Seed Co.
I. L. Radwaner 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

BEGGARWEED—

FLORIDA

D. H. Gilbert Seed Co., Inc.
Grand Island Nurseries
R. E. Lambert & Sons
Simpson Nursery Co.
T. W. Wood & Sons

BENT GRASS

Associated Seed Growers, Inc.
The Barteldes Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
Robt. Buist Co.
Cargill, Inc.
Arthur R. Cone
Corneli Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Engbretson Seed Co.
A. Ertag, Inc.
Ferry-Morse Seed Co.
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
D. Landreth Seed Co.
Lewis & Clark Seed Co., Inc.
The Chas. H. Lilly Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro., Inc.
The J. Chas. McCullough Seed Co.
Charles R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bomberger Div.)
L. L. Olds Seed Co.
Ouren Seed Co.
A. S. Paterson & Coy, Ltd.
The Philadelphia Seed Co., Inc.
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
O. M. Scott & Sons Co.
The Stanford Seed Co.
Transcontinental Seed, Inc.
Twin City Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy, Ltd.

BENT STOLONS

O. M. Scott & Sons Co.
Stollers Seed House
F. H. Woodruff & Sons, Inc.

BERMUDA GRASS

The Barteldes Seed Co.

Wholesale Field Seed

ALFALFA

The Ackerman Co.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Belt Seed Co.
Blue Mt. Seed Growers Assn.
N. Bonahoom Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Company
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Roscoe J. Carl & Son
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
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.
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.
Keller Seed Store
Kelly Seed Co.
H. C. King & Sons, Inc.
F. Lagomarsino & Sons
Lakin Seed Co.
D. Landreth Seed Co.
R. E. Lambert & Sons
Land O'Lakes Creameries, Inc.
Law, Somner Pty., Ltd.
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.
Michael-Leonard Co.
Montana Seed Co.
Charles R. Moore
National Seed Co.
The Nebraska Seed Co.
Newday Seeds, Inc.
Robt. Nicholson Seed Co.
Northern Canadian Seed Sales
Northern Field Seed Co.
Northrup, King & Co.
Northrup, King & Co. (Bomberger Div.)
Northwestern Seed Co., Inc.
Northwestern Seed Growers, Inc.
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.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
E. F. Sanguinetti
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.
Sommer Bros. Seed Co.
J. H. Speers & Co., Ltd.
The Stanford Seed Co.
Steele Briggs Seed Co., Ltd.
Stollers Seed House
Transcontinental Seed, Inc.

Hijos de S. V. Bellotti
The Belt Seed Co.
The Bowman Seed Co.
Robt. Buist Co.
Capital Fuel, Feed & Seed Co.
Cornell Seed Co.
Cuff-Archias Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
International Seed, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Seed Co.
Charles R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bom-
berger Div.)
Purcell Seed Co.
I. L. Radwaner Seed Co., Inc.
Ross Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
E. F. Sanguinetti
Wm. G. Scarlett & Co.
Sedgwick Alfalfa Mills
Snelson Seed Co.
Stollers Seed House
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma Co. Farmers Mktg.
Assn.

BIRDSRAPE OR RUEBSEN

Cornell Seed Co.
Duryea Seed Co., Inc.
Julius Loewith, Inc.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough Seed
Co.
H. J. Mayer
Charles R. Moore
The Nebraska Seed Co.
Philadelphia Seed Co.
Wm. G. Scarlett & Co.
Stollers Seed House
T. W. Wood & Sons

BLUE GRASS

The Ackerman Co.
Associated Seed Growers, Inc.
The Belt Seed Co.
The Barteldes Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Cargill, Inc.
Arthur R. Cone
Condon Bros., Seedsmen
Cornell Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved 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 & Company
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
Kellogg Kelly Seed Co.
Geo. Keller & Sons
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
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.
Chas. R. Moore
National Seed Co., Inc.
The Nebraska Seed Co.
Newday Seeds, Inc.
Robt. Nicholson Seed Co.
Nishna Valley Seed Co.
Northern Field Seed Co.
Northrup, King & Co. (Bom-
berger Div.)
Northwestern Seed Co., Inc.
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.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.

J. M. Schultz Seed Co.
Seaboard Seed Co.
Geo. P. Sexauer & Son
O. M. Scott & Sons Co.
Shultz Seed Co., Inc.
Sommer Bros. Seed Co.
Sphar & Gay Seed Co.
The Stanford Seed Co.
Steele, Briggs Seed Co., Ltd.
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.
Young & Conway

BROME GRASS

The Barteldes Seed Co.
The Belt Seed Co.
Blue Mt. Seed Growers Assn.
The Bowman Seed Co.
Cargill, Inc.
Cornell 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.
Goldberg Seed & Feed Co.
The Gooding Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
International Seed, Inc.
Interstate Seed & Grain Co.
Jenks-White Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
Land O' Lakes Creameries,
Inc.
Julius Loewith, Inc.
Magill & Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
McCabe Bros. Grain Co., Ltd.
The J. Chas. McCullough
Seed Co.
Mark Means Co.
Michael-Leonard Seed Co.
Chas. R. Moore
The Nebraska 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.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
Purcell Seed Co.
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.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Twin City Seed Co.
Walker-Christensen Co.
Vaughan's Seed Store
F. H. Woodruff & Sons, Inc.

CANE

The Barteldes Seed Co.
The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robt. Buist Co.
Cargill, Inc.
Cornell Seed Co.
The Albert Dickinson Co.
Funk Bros. Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
Holmes Seed Co.
International Seed, Inc.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Louisville Seed Co.
Ed. F. Mangelsdorf & Bro.,
Inc.
The J. Chas. McCullough
Seed Co.
Chas. R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
Northwestern Seed Co., Inc.
L. L. Olds Seed Co.
Ouren Seed Co.
Peppard Seed Co.
The Philadelphia Seed Co.,
Inc.
Purcell Seed Co.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.

Sedgwick Alfalfa Mills
George P. Sexauer & Son
Snelson Seed Co.
The Stanford Seed Co.
Stollers Seed House
Twin City Seed Co.
Walker-Christensen Co.
Owen T. Watts
T. W. Wood & Sons

CARPET GRASS (Paspalum Compressum)

R. E. Lambert & Sons
Law, Somner Pty., Ltd.
Julius Loewith, Inc.
McHutchison & Co.
Chas. R. Moore
Robt. Nicholson Seed Co.
W. T. Nolin
Wm. G. Scarlett & Co.
T. W. Wood & Sons

CLOVER—ALSIKE

The Ackerman Co.
Hijos de S. V. Bellotti
The Belt Seed Co.
Blue Mountain Seed Growers
Assn.
C. S. Brent Seed Co.
Robert Buist Company
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
The Albert Dickinson Co.
J. L. Donley & Bro.
A. Ertag, Inc.
Roscoe J. Carl & Son
Arthur R. Cone
Condon Bros., Seedsmen
Cornell Seed Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Leslie Edgerton
Farmer Seed & Nursery Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Globe Seed & Feed Co.
Goldberg Seed & Feed Co.
The Gooding Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Henry Hirsch & Sons, Inc.
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.

L. L. Olds Seed Co.
The O & M Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed 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.
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.
Steele, Briggs Seed Co., Ltd.
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.
Young & Conway

L. L. Olds Seed Co.
The O & M Seed Co.
Ouren Seed Co.
The Page Seed Co.
Peppard Seed 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.
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.
Steele, Briggs Seed Co., Ltd.
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.
Young & Conway

CLOVER—ALYCE

The Belt Seed Co.
Duryea Seed Co., Inc.
The Chas. C. Hart Seed Co.
International Seed, Inc.
Kelly Seed Co.
R. E. Lambert & Sons

Chas. R. Moore
Robert Nicholson Seed Co.
L. L. Olds Seed Co.
I. L. Radwaner Seed Co., Inc.
Russell-Heckle Seed Co.
Snelson Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

CLOVER—BURR

The Belt Seed Co.
Capital Fuel, Feed & Seed Co.
Ferry-Morse Seed Co.
International Seed, Inc.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Chas. R. Moore
Robt. Nicholson Seed Co.
Northrup, King & Co. (Bom-
berger Div.)
Ostberg Seed Co.
Paramount Seed Co.
Russell-Heckle Seed Co.
F. F. Smith & Co., Inc.
Snelson Seed Co.
Stollers Seed House
T. W. Wood & Sons

CLOVER—CRIMSON

The Belt Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Capital Fuel, Feed & Seed Co.
Condon Bros., Seedsmen
Cornell Seed Co.
Craver-Dickinson Seed Co.
The Albert Dickinson Co.
Duryea Seed Co., Inc.
A. Ertag, Inc.
Ferry-Morse Seed Co.
Ging & Company
The Chas. C. Hart Seed Co.
International Seed, Inc.
Jenks-White Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
D. Landreth Seed Co.
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.
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
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

CLOVER—LADINO

The Belt Seed Co.
Blue Mountain Seed Growers
Assn.
Capital Fuel, Feed & Seed Co.
Arthur R. Cone
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
Globe Seed & Feed Co.
The Gooding Seed Co.
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.
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.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

CLOVER—MAMMOTH RED

Ackerman Co.
C. S. Brent Seed Co.

Cargill, Inc.
 Roscoe J. Carl & Son
 Capital Fuel, Feed & Seed Co.
 Corneli Seed Co.
 Craver-Dickinson Seed Co.
 Davenport Seed Co.
 Albert Dickinson Co.
 Duryea Seed Co., Inc.
 Leslie Edgerton
 Funk Bros. Seed Co.
 Ging & Company
 Globe Seed & Feed Co.
 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.
 The Barteldes Seed Co.
 The Belt Seed Co.
 Blue Mountain Seed Growers Assn.
 C. S. Brent Seed Co.
 Robt. Buist Co.
 Capital Fuel, Feed & Seed Co.
 Cargill, Inc.
 Roscoe J. Carl & Son
 Arthur R. Cone
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Craver-Dickinson 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.
 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
 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.
 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.
 L. L. Olds Seed Co.
 The O & M Seed Co.
 Ostberg Seed Co.
 Ouren Seed Co.
 The Page Seed Co.
 A. S. Paterson & Coy, Ltd.
 Peppard Seed 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
 Transcontinental Seed, Inc.
 Twin City Seed Co.
 Vaughan's Seed Store
 Owen T. Watts
 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
 F. H. Woodruff & Sons, Inc.

CLOVER—SUBTERRANEAN

Law, Somner Pty., Ltd.

CLOVER—SWEET

The Ackerman Co.
 The Barteldes Seed Co.
 The Belt Seed Co.
 The Bowman Seed Co.
 Robt. Buist Co.
 C. S. Brent Seed Co.
 Capital Fuel, Feed & Seed Co.
 Cargill, Inc.
 Roscoe J. Carl & Son
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Craver-Dickinson Seed Co.
 Dakota Improved Seed Co.
 The Albert Dickinson Co.
 J. L. Donley & Bro.
 Duryea Seed Co., Inc.
 Leslie Edgerton
 Farmers Union Grain & Supply Co.
 Ferry-Morse Seed Co.
 Funk Bros. Seed Co.
 Ging & Company
 Globe Seed & Feed Co.
 Goldberg Seed & Feed Co.
 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.
 Geo. Keller & Sons
 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.
 L. L. Olds Seed Co.
 The O & M Seed Co.
 Ostberg Seed Co.
 Ouren Seed Co.
 Peppard Seed 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.
 Walker-Christensen Co.
 Owen T. Watts
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Young & Conway

CLOVER—YELLOW SWEET

Ackerman Co.
 Barteldes Seed Co.
 Blue Mt. Seed Growers Assn.
 Bowman Seed Co.
 C. S. Brent Seed Co.
 Cargill, Inc.
 Roscoe J. Carl & Son
 Corneli Seed Co.
 Davenport Seed Co.
 Duryea Seed Co., Inc.
 Leslie Edgerton
 Goldberg Seed & Feed Co.
 Ging & Company
 Gooding Seed Co.
 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.
 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—WILD 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

Blue Mountain Seed Growers Assn.
 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.
 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.

CLOVER—WHITE

The Belt Seed Co.
 The Bowman Seed Co.
 C. S. Brent Seed Co.
 Robt. Buist Co.
 Capital Fuel, Feed & Seed Co.
 Cargill, Inc.
 Condon Bros., Seedsmen
 Corneli 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.
 Hamilton Seed & Coal Co.

The Chas. C. Hart Seed Co.
 Holmes Seed 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.
 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.
 L. L. Olds Seed Co.
 Ostberg Seed Co.
 Ouren Seed Co.
 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.
 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
 Owen T. Watts
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Wright, Stephenson & Coy, Ltd.

CORN—FIELD

The Barteldes Seed Co.
 The Belt Seed Co.
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 C. S. Brent Seed Co.
 Robt. Buist Co.
 Cargill, 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.
 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.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 Land O' Lakes Creameries,
 Inc.
 R. E. Lambert & Sons
 D. Landreth Seed Co.
 Lewis Seed Co.
 Louisville Seed Co.
 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.
 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.
 The Philadelphia Seed Co.,
 Inc.
 Purcell Seed Co.
 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
 Tracy & Son Farms
 Twin City Seed Co.
 Vaughan's Seed Store
 Owen T. Watts
 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)

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.
 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.
 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.
 Tracy & Son Farms
 Owen T. Watts
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

COTTON

Corneli Seed Co.
 R. E. Lambert & Sons
 Robt. Nicholson Seed Co.
 Russell-Heckle Seed Co.
 Shuler & Smoak
 Snelson Seed Co.
 (Sea Island Long Staple
 only)
 T. W. Woods & Sons

COWPEAS

Associated Seed Growers, Inc.
 The Belt Seed Co.
 C. S. Brent Seed Co.
 Robert Buist Company
 Condon Bros. Seedsmen
 Corneli Seed Co.
 Ferry-Morse Seed Co.
 Funk Bros. Seed Co.
 Ging & Company
 The Chas. C. Hart Seed Co.
 Edgar F. Hurff Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 D. Landreth Seed 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.
 Peppard Seed 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.
 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
 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.
 Blue Mt. Seed Growers Assn.
 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.
 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.
 Peppard Seed Co.
 Philadelphia Seed Co.
 Rudy-Patrick Seed Co.
 Geo. P. Sexauer & Son
 Steele, Briggs Seed Co., Ltd.
 Valker-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
 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 Dilatum)

The Belt Seed Co.
 Ferry-Morse Seed Co.
 International Seed, Inc.
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 Law, Somner Pty., Ltd.
 Julius Loewith, Inc.
 Chas. R. Moore
 Robt. Nicholson Seed Co.
 W. T. Nolin
 Northrup, King & Co. (Bom-
 berger Div.)
 Riemers' Farms
 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

Associated Seed Growers, Inc.
 The Belt Seed Co.
 Blue Mt. Seed Growers Assn.
 C. S. Brent Seed Co.
 Robt. Buist Co.
 Arthur R. Cone
 Craver-Dickinson Seed Co.
 Corneli Seed Co.
 The Albert Dickinson Co.
 J. L. Donley & Bro.
 Duryea Seed Co., Inc.
 Engbretson Seed Co.
 A. Ertag, Inc.
 Ferry-Morse Seed Co.
 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
 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
 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.
 Corneli 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.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Sedgwick Alfalfa Mills
 Geo. P. Sexauer & Son
 Snelson Seed Co.

FIELD PEAS

The Belt Seed Co.
 C. S. Brent Seed Co.
 Robt. Buist Co.
 Cargill, Inc.
 Arthur R. Cone
 Condon Bros. Seedsmen
 Corneli Seed Co.
 Craver-Dickinson Seed Co.
 The Albert Dickinson Co.
 Duryea Seed Co., Inc.
 Leslie Edgerton
 A. Ertag, Inc.
 Ferry-Morse Seed Co.
 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.
 The Chas. H. Lilly Co.
 Julius Loewith, Inc.
 Louisville Seed Co.
 Magill & Co.
 Ed. F. Mangelsdorf & Bro.,
 Inc.
 McCabe Bros. Grain Co., Ltd.
 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.
 The Philadelphia Seed Co.,
 Inc.
 Prunty Seed & Grain Co.
 I. L. Radwaner 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
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.
 Wright, Stephenson & Coy,
 Ltd.

GRASSES—FANCY

The Belt Seed Co.
 Blue Mt. Seed Growers Assn.
 The Bowman Seed Co.
 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.
 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.
 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.
 Corneli Seed Co.
 Funk Bros. Seed Co.
 Griswold Seed & Nursery 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

The Barteldes Seed Co.
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 Capital Fuel, Feed & Seed Co.
 Corneli Seed Co.
 Funk Bros. Seed Co.
 Griswold Seed & Nursery Co.
 Hamilton Seed & Coal Co.
 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.
 Rudy-Patrick Seed Co.
 Russell-Heckle Seed Co.
 Sedgwick Alfalfa Mills
 Geo. P. Sexauer & Son
 Snelson Seed Co.
 Twin City Seed Co.
 T. W. Wood & Sons
 Yuma Co. Farmers Mktg.
 Assn.

HEMP

C. S. Brent Seed Co.
 Corneli Seed Co.
 The Albert Dickinson Seed
 Co.
 Duryea Seed 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.
 Corneli Seed Co.
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 Ed. F. Mangelsdorf & Bro.,
 Inc.

Robt. Nicholson Seed Co.
 Snelson Seed Co.

KAFIR CORN

The Barteldes Seed Co.
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 Robert Buist Co.
 Corneli Seed Co.
 Duryea Seed Co., Inc.
 Griswold Seed & Nursery Co.
 Hamilton Seed & Coal Co.
 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
 T. W. Wood & Sons

KUDZU

C. S. Brent Seed Co.
 Corneli Seed Co.
 Duryea Seed 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 Barteldes Seed Co.
 The Belt Seed Co.
 The Bowman Seed Co.
 C. S. Brent Seed Co.
 Robert Buist Co.
 Cargill, Inc.
 Arthur R. Cone
 Condon Bros., Seedsmen
 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.
 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.
 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
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

MAPLE PEAS

Blue Mountain Seed Growers
 Assn.
 Duryea Seed Co., Inc.
 Julius Loewith, Inc.
 F. Lagomarsino & Sons
 Law, Somner Pty., Ltd.
 The J. Chas. McCullough
 Seed Co.
 Philadelphia Seed Co.
 Wm. G. Scarlett & Co.
 Wright, Stephenson & Coy,
 Ltd.

MELILOTUS INDICA

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.

LUPINES

Hijos de S. V. Bellotti
 Corneli Seed Co.
 Duryea Seed Co., Inc.
 R. E. Lambert & Sons
 Julius Loewith, Inc.
 I. L. Radwaner Seed Co., Inc.
 Snelson Seed Co.
 F. H. Woodruff & Sons, Inc.

MILO MAIZE

The Barteldes Seed Co.
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 Capital Fuel, Feed & Seed Co.
 Corneli Seed Co.
 Duryea Seed Co., Inc.
 Ferry-Morse Seed Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 Ed. F. Mangelsdorf & Bro.,
 Inc.

MUNG BEANS

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
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

MICHELS

Blue Mt. Seed Growers Assn.
 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.
 Rudy-Patrick Seed Co.
 Stollers Seed House
 F. H. Woodruff & Sons, Inc.

MILLETS

The Barteldes Seed Co.
 The Belt Seed Co.
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 Robert Buist Co.
 C. S. Brent Seed Co.
 Cargill, 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.
 Hamilton Seed & Coal Co.
 The Chas. C. Hart Seed Co.
 Holmes Seed Co.
 Edgar F. Hurff Co.
 Interstate Seed & Grain Co.
 Kelly Seed Co.
 F. Lagomarsino & Sons
 R. E. Lambert & Sons
 Law, Somner Pty., Ltd.
 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.
 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.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

MILO MAIZE

The Barteldes Seed Co.
 N. Bonahoom Seed Co.
 The Bowman Seed Co.
 Capital Fuel, Feed & Seed Co.
 Corneli Seed Co.
 Duryea Seed Co., Inc.
 Ferry-Morse 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
 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.
 C. S. Brent Seed Co.
 Cargill, Inc.
 Corneli Seed Co.
 Duryea Seed 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 Belt Seed Co.
C. S. Brent Seed Co.
Cargill, Inc.
Cornell 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.
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.
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.
Chas. R. Moore
National Seed Co.
Northrup, King & Co.
(Bomberger Div.)
Northwestern Seed Growers,
Inc.
L. L. Olds Seed Co.
Ouren Seed Co.
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 Belt Seed Co.
C. S. Brent Seed Co.
The Bowman Seed Co.
Robert Buist Co.
Cargill, Inc.
Condon Bros., Seedsmen
Arthur R. Cone
Cornell 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.
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.
Peppard Seed 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
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.
Cornell 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.
Steele, Briggs Seed Co., Ltd.
Stollers Seed House
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

RAPE

The Belt Seed Co.
Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Cornell 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.
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.
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.
Ross Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Wm. G. Scarlett & Co.
Walter S. Schell, Inc.
J. M. Schultz Seed 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
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Wright, Stephenson & Coy,
Ltd.

REDTOP

The Ackerman Co.
Associated Seed Growers, Inc.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Condon Bros., Seedsmen
Arthur R. Cone
Cornell Seed Co.
Craver-Dickinson 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.
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
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.
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

REED CANARY GRASS

The Belt Seed Co.
Cargill, Inc.
Cornell 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.
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.
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.
Snelson Seed Co.
Stollers Seed House

RHODES GRASS

The Belt Seed Co.
Duryea Seed Co., Inc.
Ferry-Morse Seed Co.
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.
William G. Scarlett & Co.
Snelson Seed Co.
Stollers Seed House

RYE GRASS—DOMESTIC

The Ackerman Co.
Associated Seed Growers, Inc.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Capital Fuel, Feed & Seed
Co.
Cargill, Inc.
Arthur R. Cone
Cornell 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.
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.
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.
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.
Paramount 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., 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
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway

RYE GRASS—ENGLISH

C. S. Brent Seed Co.
Cornell Seed Co.
Craver-Dickson Seed Co.
Dakota Improved Seed Co.
Duryea Seed Co., Inc.
International Seed, Inc.
Jenks-White 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.

H. J. Mayer
J. Chas. McCullough Seed Co.
Michael-Leonard Co.
John Mosbell Co.
Northrup, King & Co.
(Bomberger Div.)
Philadelphia Seed Co., Inc.
O. M. Scott & Sons 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

C. S. Brent Seed Co.
Robert Buist Company
Dakota Improved Seed Co.
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. (Bomberger Div.)
Philadelphia Seed Co., Inc.
Wm. G. Scarlett & Co.
Geo. P. Sexauer & Son
O. M. Scott & Sons Co.
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.

RYE GRASS—PERENNIAL

The Ackerman Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Craver-Dickinson Seed Co.
Duryea Seed Co., Inc.
Funk Bros. Seed Co.
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.

C. S. Brent Seed Co.
Robert Buist Company
Cargill, Inc.
Arthur R. Cone
Cornell Seed Co.
The Albert Dickinson Co.
Craver-Dickinson Seed Co.
Farmer Seed & Nursery Co.
Funk Bros. Seed Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
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

The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Cargill, 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.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
F. Lagomarsino & Sons
R. E. Lambert & Sons
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro., Inc.

McCabe Bros. Grain Co., Ltd.
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.
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
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

Capital Fuel, Feed & Seed Co.
Ferry-Morse Seed Co.
R. E. Lambert & Sons
Julius Loewith, Inc.
Northrup, King & Co.
(Bomberger Div.)
Simpson Nursery Co.
Snelson Seed Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Yuma Co. Farmers Mktg. Assn.

SLENDER WHEAT GRASS

Blue Mountain Seed Growers Assn.
Cargill, Inc.
Cornell Seed Co.
Albert Dickinson Co.
Farmers Union Grain & Supply 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.
Steele, Briggs Seed Co., Ltd.
Geo. P. Sexauer & Son
Stollers Seed House
Valker-Christensen Co.

SORGHUMS

The Barteldes Seed Co.
The Belt Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Condon Bros., Seedsmen
Cornell Seed Co.
The Albert Dickinson Co.
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
Holmes 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.
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.
Hijos de S. V. Bellotti
The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
C. S. Brent Seed Co.
Robert Buist Company
Cargill, 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.
Julius Loewith, Inc.
Louisville Seed Co.
Magill & Co.
Ed. F. Mangelsdorf & Bro., Inc.
McCabe Bros. Grain Co., Ltd.
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.
The Philadelphia Seed Co., Inc.
Prunty Seed & Grain Co.
Purcell Seed Co.
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.
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
Twin City Seed Co.
Vaughan's Seed Store
Owen T. Watts
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.
The Belt Seed Co.
N. Bonahoom Seed Co.
The Bowman Seed Co.
The Barteldes Seed Co.
Robert Buist Co.
C. S. Brent Seed Co.
The Albert-Dickinson Co.
Capital Fuel, Feed & Seed Co.
Cargill, Inc.
Arthur R. Cone
Cornell Seed Co.
Craver-Dickinson Seed Co.
Dakota Improved Seed Co.
J. L. Donley & Bro.
Duryea Seed Co., Inc.
Leslie Edgerton
Ferry-Morse Seed Co.
Funk Bros. Seed Co.
Griswold Seed & Nursery Co.
Hamilton Seed & Coal Co.
The Chas. C. Hart Seed Co.
Holmes Seed Co.
Jenks-White Seed Co.
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. (Bomberger 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.
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.
Twin City Seed Co.
Valker-Christensen Co.
Vaughan's Seed Store
Owen T. Watts
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Young & Conway
Yuma Co. Farmers Mktg. Assn.

SUNFLOWER

Hijos de S. V. Bellotti
The Belt Seed Co.
The Bowman Seed Co.
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.
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.

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.
 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.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

THISTLE

Corneli 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.
 The Barteldes Seed Co.
 The Belt Seed Co.
 The Bowman Seed Co.
 C. S. Brent Seed Co.
 Robt. Buist Co.
 Cargill, Inc.
 Roscoe J. Carl & Son
 Arthur R. Cone
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Craver-Dickinson 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.
 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.
 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.
 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.
 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
 Transcontinental Seed, Inc.
 Twin City Seed Co.
 Vaughan's Seed Store
 Owen T. Watts
 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.
 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.
 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

Corneli Seed Co.
 R. E. Lambert & Sons
 Robt. Nicholson Seed Co.
 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

The Belt Seed Co.
 C. S. Brent Seed Co.
 Robt. Buist Co.
 Capital Fuel, Feed & Seed Co.
 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.
 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.
 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.
 The Page Seed Co.
 Paramount Seed Co.
 The Philadelphia Seed Co., Inc.

I. L. Radwaner 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.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

VETCH—SPRING OR COMMON

The Belt Seed Co.
 Robt. Buist Co.
 Capital Fuel, Feed & 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.
 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.
 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.
 The Page Seed Co.
 Paramount Seed Co.
 The Philadelphia 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.
 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.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

VETCH—PANONICA

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.
 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.
 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.
 Paramount Seed Co.
 The Philadelphia 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.
 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.
 T. W. Wood & Sons
 F. H. Woodruff & Sons, Inc.

WHEAT GRASS

The Belt Seed Co.
 Blue Mt. Seed Growers Assn.
 The Bowman Seed Co.
 Cargill, Inc.
 Corneli Seed Co.
 Dakota Improved Seed Co.
 Duryea Seed Co., Inc.
 Farmers Union Grain & Supply Co.
 Griswold Seed & Nursery Co.
 The Chas. C. Hart Seed Co.
 Interstate Seed & Grain Co.
 F. Lagomarsino & Sons
 Lakin Seed Co.
 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.
 Montana Seed Co.
 The Nebraska Seed Co.
 Newday Seeds, Inc.
 Northern Canadian Seed Sales
 Ouren Seed Co.
 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.
 Valke-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.
 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.
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.
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.
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.
Rogers Bros. Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Starr Seed Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
Washburn-Wilson Seed Co.
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.
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.
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.
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
Max F. Wilhelm, Seedsman
T. W. Wood Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.

BEANS—POLE

The Barteldes Seed Co.
The Bowman Seed Co.
Hijos de S. V. Bellotti
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.
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.
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.
Max F. Wilhelm, Seedsman
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

BEANS—RUNNER

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
The Bowman Seed Co.
J. A. Boyce Co.
Branlan Seed Growers Co., Inc.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Alf. Christianson
Comstock, Ferre & Co.
Arthur R. Cone
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.
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
Law, Somner Pty., Ltd.
Leckenby 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.
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
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.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed 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.
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.
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.
S. D. Woodruff & Sons, Inc.
Zwaan & Van der Molen

BRUSSELS SPROUTS

Associated Seed Growers, Inc.
The Barteldes Seed Co.
J. A. Boyce Co.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
Ferry-Morse Seed Co.
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.
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.
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.
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.
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.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
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.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert 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.
Ferry-Morse Seed Co.
H. D. Garwood Seed Co.
D. H. Gilbert Seed 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.
The J. Chas. McCullough Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robert 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.
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
The Bowman Seed Co.
Branlan Seed Growers Co., Inc.
C. S. Brent Seed Co.
Alfred J. Brown Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
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.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth 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.
I. L. Radwaner Seed Co., Inc.
Waldo Rohnert Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter Schell, Inc.
Sherwood Seed Co.
F. F. Smith & Co., Inc.
Standard Seed Farms Co.
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

CAULIFLOWER

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti

J. A. Boyce Co.
 Alfred J. Brown Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 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.
 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.
 The Page 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.
 Zwaan & Van der Molen

CELERIAC

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 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.
 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.
 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.
 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

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 J. A. Boyce Co.
 Robert Buist Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Co.
 Crosman Seed Corp.

Ferry-Morse Seed 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.
 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.
 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.
 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.
 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.
 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.
 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.
 Rudy-Patrick 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
 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.
 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.
 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.
 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.
 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. H. 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.
 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.
 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.
 Northrup, King & Co.
 L. L. Olds Seed Co.
 The Page 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.
 Starr Seed Co.
 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.

DANDELION

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 Robert Buist Co.
 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.
 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

Pieters-Wheeler Seed Co.
 Waldo Rohnert Co.

EGG PLANT

Associated Seed Growers, Inc.
 The Barteldes Seed Co.
 The Bowman Seed Co.
 Alfred J. Brown Seed Co.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 Crosman Seed Corp.
 Ferry-Morse Seed Co.
 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.
 Geo. R. Pedrick & Sons
 I. L. Radwaner 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.
 Robert Buist Company
 W. Atlee Burpee Co.
 Comstock, Ferre & Co.
 Condon Bros., Seedsmen
 Corneli Seed Company
 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.
 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.
 I. L. Radwaner 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
 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.
Crosman 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
Buckman, Denholm & Holden
Seed Co.
Robert Buist Company
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.
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.
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.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
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.
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.
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
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.
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
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.
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.
U. S. Seed Co.
Vaughan's Seed Store
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
Robert Buist Company
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
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.
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.
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
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.
Branlan Seed Growers Co.,
Inc.
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
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 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.
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
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

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
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.
C. S. Brent Seed Co.
Robert Buist Company
Alf Christianson
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
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.
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.
Peter Sluis
Standard Seed Farms Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
Zwaan & Van der Molen

MUSKMELOON

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
The Bowman Seed Co.
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.
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.
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
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.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
A. Ertag, Inc.

Ferry-Morse Seed Co.
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.
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
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.
C. S. Brent Seed Co.
Robert Buist Company
W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse 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 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.
U. S. Seed Co.
Vaughan's Seed Store
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

ONION SEED

Associated Seed Growers, Inc.
The Barteldes Seed Co.
Hijos de S. V. Bellotti
Branlan Seed Growers Co.,
Inc.
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.
Ferry-Morse Seed Co.

H. D. Garwood Seed Co.
Griscom & Co. Inc.
Hamilton Seeds & Coal Co.
The Chas. C. Hart Seed Co.
Herbst Brothers
Hollenbach's Seed Store
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
D. Landreth 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.
Waldo Rohnert Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
F. F. Smith & Co., Inc.
Standard Seed Farms Co.
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

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
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.
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.
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
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.
C. S. Brent Seed Co.
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W. Atlee Burpee Co.
Comstock, Ferre & Co.
Condon Bros., Seedsmen
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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.
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.
Waldo Rohnert Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
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Stollers Seed House
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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.
Norval E. Kirby
F. Lagomarsino & Sons
D. Landreth Seed Co.
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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.
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.
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Prunty Seed & Grain Co.
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Russell-Heckle Seed Co.
Walter S. Schell, Inc.
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Comstock, Ferre & Co.
Arthur R. Cone
Condon Bros., Seedsmen
Corneli Seed Co.
Crosman Seed Corp.
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Ferry-Morse Seed Co.
Filer Seed Co.
Hamilton Seed & Coal Co.
The Chas. S. Hart Seed Co.
Holmes Seed Co.
Edgar F. Hurff Co.
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.
Rogers Bros. Seed Co.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Sherwood Seed Co.
F. F. Smith & Co., Inc.
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U. S. Seed Co.
Vaughan's Seed Store
Washburn-Wilson Seed Co.
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F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.
Wright, Stephenson & Coy, Ltd.

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The Bowman Seed Co.
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Alfred J. Brown Seed Co.
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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.
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.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
J. P. Snapp & Son
Stollers Seed House
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Vaughan's Seed Store
Joseph White Co.
T. W. Wood & Sons
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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

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Burgess Seed & Plant Co.
Condon Bros., Seedsmen
Ferry-Morse Seed Co.
Hamilton Seed & Coal Co.
Holmes Seed Co.
Kelly Seed Co.
F. Lagomarsino & Sons
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
T. W. Wood & Sons
S. D. Woodruff & Sons, Inc.

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Associated Seed Growers, Inc.

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The Bowman Seed Co.
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.
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.
The J. C. Robinson Seed Co.
Lawrence Robinson & Sons
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
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Stollers Seed House
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The Bowman Seed Co.
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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.
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.
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Robt. Nicholson Seed Co.
Northrup, King & Co.
L. L. Olds Seed Co.
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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.
Starr Seed Co.
Stollers Seed House
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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.
Hamilton Seed & Coal Co.
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Herbst Brothers
Holmes Seed Co.
Edgar F. Hurff Co.
Kelly Seed Co.
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Northrup, King & Co.
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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
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.

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Associated Seed Growers, Inc.
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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.

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W. Atlee Burpee Co.
Alf Christianson
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.
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.
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.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
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Braslan Seed Growers Co., Inc.
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Comstock, Ferre & Co.
Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
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 Co.
Robt. Nicholson Seed Co.
L. L. Olds Seed Co.
The Page Seed Co.
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.
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SOYBEANS (Edible)

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Northrup, King & Co.

SPINACH

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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.
Hamilton Seed & Coal Co.
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Herbst Brothers
Holmes Seed Co.
Kelly Seed Co.
Norval E. Kirby
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D. Landreth Seed Co.
Leckenby Seed Co.
J. M. Lupton & Son
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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.
Northrup, King & Co.
L. L. Olds Seed Co.
The Page Seed Co.
Geo. R. Pedrick & Sons
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis
Stollers Seed House
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W. Atlee Burpee Co.
Burrell Seeds, Inc.
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Condon Bros., Seedsmen
Corneli Seed Company
Crosman Seed Corp.
Ferry-Morse Seed Co.
H. D. Garwood Seed Co.
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.
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
T. W. Wood & Sons

F. H. Woodruff & Sons, Inc.
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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.
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.
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
T. W. Wood & Sons
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The Bowman Seed Co.
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.
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.
Law, Somner Pty., Ltd.
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.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Francis C. Stokes Co.
Stollers Seed House
U. S. Seed Co.
Vaughan's Seed Store
Joseph White Co.
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.

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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 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.
Norval E. Kirby

F. Lagomarsino & Sons
D. Landreth Seed Co.
Leckenby Seed Co.
The Chas. H. Lilly Co.
Mark Means Co.
D. R. Mayo 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.
Geo. R. Pedrick & Sons
Pieters-Wheeler Seed Co.
I. L. Radwaner Seed Co., Inc.
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Peter Sluis
Standard Seed Farms Co.
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

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Alfred J. Brown Seed Co.
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.
H. D. Garwood Seed Co.
D. H. Gilbert Seed 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.
The J. Chas. McCullough Seed Co.
Charles R. Moore
The Nebraska Seed Co.
Robt. Nicholson Seed Co.
L. L. Olds 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
T. W. Wood & Sons
F. H. Woodruff & Sons, Inc.
S. D. Woodruff & Sons, Inc.

WATERMELON

Associated Seed Growers, Inc.
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The Bowman Seed Co.
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.
D. H. Gilbert Seed 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.
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.
The J. C. Robinson Seed Co.
Lawrence Robinson & Sons
Rudy-Patrick Seed Co.
Russell-Heckle Seed Co.
Walter S. Schell, Inc.
Simpson Nursery Co.
Stollers Seed House
U. S. Seed Co.
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SEED TRADE REPORTING BUREAU



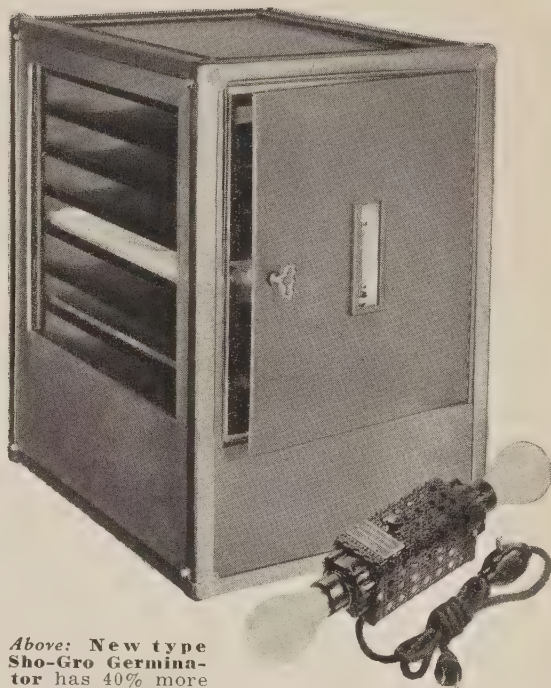
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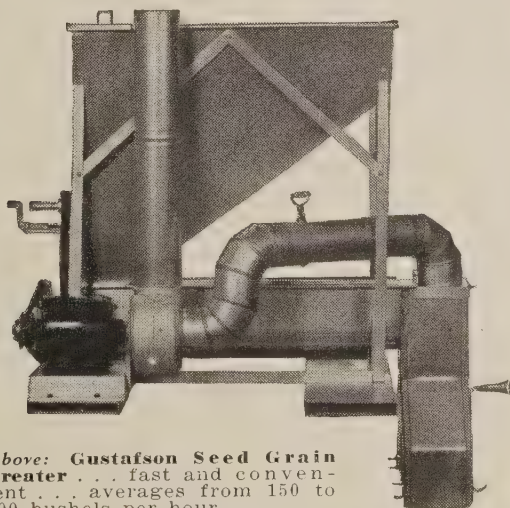
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HEADQUARTERS for EVERY NEED of the TESTING LABORATORY

Trade Marks and Slogans

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.

A. B. C. Supreme Quality—bulbs and nursery stock—American Bulb Co., Chicago, Ill.

A. B. Lyman—alfalfa seed—Peppard Seed Co., Kansas City, Mo.

"A Hawkeye Field Means A Bumper Yield"—field seeds—Hamilton Seed & Coal Co., Cedar Rapids, Iowa.

Acme—seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Aero—field & garden seeds—Griswold Seed & Nursery Co., Lincoln, Nebr.

Atla Brand—field seeds—F. F. Smith & Co., Inc., Sacramento, Calif.

Always No. 1 Grade—farm seeds—Funk Bros. Seed Co., Bloomington, Ill.

"American Bulbs—Superior Quality"—flower bulbs—George Lawler, Monroe, Wash.

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—field seeds—Davenport Seed Co., Davenport, Iowa.

Arco Brand—field and garden seeds—Arthur R. Cone, Buffalo, N. Y.

As good as grow for you to sow—garden seeds—Burrell Seeds, Inc., Rocky Ford, Colo.

"Asgrow—Seeds for Garden and Lawn"—garden seeds—Associated Seed Growers, Inc., New Haven, Conn.

"At Your Service Since 1896"—garden, field and flower seeds—The Page Seed Co., Greene, N. Y.

Avalon Brand—seeds—Rex. D. Pearce, Moorestown, N. J.

Banner—seeds—Corneli Seed Co., St. Louis, Mo.

Barteldes—field & garden seeds—Barteldes Seed Co., Lawrence, Kan.

Beakon—"A Safe Guide to Better Crops"—field seeds—Gooding Seed Co., Gooding, Idaho.

"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.

"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 Chief—field seeds—Northwestern Seed Co., Keokuk, Iowa.

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.

Bow Brand—field seeds—Bowman Seed Co., Concordia, Kan.

"Bred—Not Just Grown"—garden seeds—Associated Seed Growers, Inc., New Haven, Conn.

Brent's Premium—field and garden seeds—C. S. Brent Seed Co., Lexington, Ky.

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. Wilhelmi, Seedsman, Lawrence, Kan.

Buckeye—Seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.

"Buist Bulbs Bloom"—Robert Buist Co., Philadelphia, Pa.

Buist's Prize Medal—garden seeds—Robert Buist Co., Philadelphia, Pa.

Burpeeana—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.

"California's Best Flower Seeds"—flower seeds—Wm. Macdonald Seed Co., Santa Maria, Calif.

"California's Choicest Flower Seed Since 1890"—Bodger Seeds, Ltd., El Monte, Calif.

Capitol Brand Seeds—field seeds and feeds—Capitol 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.

Casco—field and garden seeds—Cuff-Archias Seed Co., Brawley, Calif.

Cloister—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.

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.

Corn Belt—field seeds—Northwestern Seed Co., Keokuk, Iowa.

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.

Crecent—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., Minneapolis, Minn.

Dakota Leader Brand—field seeds—Valker-Christensen Co., Minot, N. D.

DeLuxe Brand—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.

Disco—field seeds—Dakota Improved Seed Co., Mitchell, S. D.

Donley "Super Cleaned"—field and lawn seeds—J. L. Donley & Bro., Ashland, Ohio.

Duryea's Central Park—lawn grass seed—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.

Embros—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.

Ermine—timothy seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.

Estate—lawn seed—Wm. G. Scarlett & Co., Baltimore, Md.

Evergreen—farm seeds—The Chas. H. Lilly Co., Seattle, Wash.

"Every shipment backed by Hurff reputation"—vegetable seeds—Edgar F. Hurff Co., Swedesboro, N. J.

Evergreen—lawn dressing—Robert Nicholson Seed Co., Dallas, Texas.

"Everything for the Garden but the Rain"—seeds—The J. Chas. McCullough Seed Co., Cincinnati, Ohio.

Falcon—field seeds—Cargill, Inc., Minneapolis, Minn.

"Famous for Purity and Vitality"—garden seeds—Robert Buist Co., Philadelphia, Pa.

Fargo Seed House—field, garden seeds, seed grain—Magill & Co., Fargo, N. D.

"Farmers Know Seed That Grow"—field and garden seeds—Arthur R. Cone, Buffalo, N. Y.

Far West—field seeds—Jenks-White Seed Co., Salem, Ore.

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.

Fine Green—lawn seed—F. H. Woodruff & Sons, Inc., Milford, Conn.

"53 Years' Faithful Service"—field seeds—E. F. Sanguinetti, Yuma, Ariz.

Flawn—lawn seed mixture, especially for the South—F. H. Woodruff & Sons, Inc., Milford, Conn.

Floradale—seeds—W. Atlee Burpee Co., Philadelphia, Pa.

"Flower Seeds of Proven Quality"—seeds—Buckman, Denholm & Holden Seed Co., Lompoc, Calif.

For-Get-Me-Not Brand—grass seeds—Julius Loewith, Inc., New York, N. Y.

"For the Good of the Country"—field and grass seed—Seaboard Seed Co., Philadelphia, Pa.

Fordhook—seeds—W. Atlee Burpee Co., Philadelphia, Pa.

"For Land Sake Buy Land O'Lakes Seeds"—Land O'Lakes Creameries, Inc., Minneapolis, Minn.

"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.

G Hybrids—Funk Bros. Seed Co., Bloomington, Ill.

- 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.
- G. L. F.**—seeds and feed—Cooperative G. L. F. Mills, Inc., Buffalo, N. Y.
- Globe Brand**—specialty feeds and bird seeds—The Albert Dickinson Co., Chicago, Ill.
- Gold**—field seeds—The Ackerman Co., Lima, Ohio.
- Goldinhardt**—seeds—W. Atlee Burpee Co., Philadelphia, Pa.
- Gold Medal**—field seeds—the sure growing kind—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 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.
- Gro-Green Brand**—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.
- Gro-Sod**—lawn food—F. H. Woodruff & Sons, Inc., Milford, Conn.
- "Grown by Hurff"**—Edgar F. Hurff Co., Swedesboro, N. Y.
- "Growers of California and Colorado Seeds"**—vine seeds—Lawrence Robinson & Sons, Modesto, Calif.
- Growers of "Merit" Flower Seeds**—Waller-Franklin Seed Co., Guadalupe, Calif.
- "Growers of Select Stocks"**—garden seeds—Pieters Wheeler Seed Co., Gilroy, Calif.
- "Grown Where Dahlias Grow Best"**—dahlias—Wayland Dahlia Gardens, Wayland, Mich.
- "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.
- "Highest Quality Vine Seeds"**—seeds—H. D. Garwood Seed Co., Rocky Ford, Colo.
- 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.
- "Hungarian Grown Seeds"**—field seeds—Hungarian Farmers Co-op. Ass'n., Budapest, Hungary.
- Hurff**—garden seeds—Edgar F. Hurff Co., Swedesboro, N. J.
- Idaho Grown Seeds**—field seeds—Edgar L. Oakes & Co., Caldwell, Idaho.
- Imperial**—lawn seed—Philadelphia Seed Co., Philadelphia, Pa.
- Irish Green**—lawn grass seed—Peppard Seed Co., Kansas City, Mo.
- "It Pays to Sow 'Em"**—field seeds—Ross Seed Co., Louisville, Ky.
- Jacques**—sweet corn—Jacques Seed Co., Prescott, Wis.
- Judge Brand**—field seeds—Purcell Seed Co., Evansville, Ind.
- K**—brand seeds—Geo. Keller & Sons, Quincy, Ill.
- "Kelly's Seeds Grow"**—field seeds—Kelly Seed Co., Peoria, Ill.
- Keystone**—seeds—Corneli Seed Co., St. Louis, Mo.
- Kingscrost**—hybrid corn—Northrup, King & Co., Minneapolis, Minn.
- "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.
- 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.
- Land o' Lakes**—field seeds—Land o' Lakes Creameries, Inc., Minneapolis, Minn.
- Landreth's Seeds**—garden seeds—D. Landreth Seed Co., Bristol, Pa.
- Lake of the Woods Brand**—field seeds—Northern Field Seed Co., Winona, Minn.
- Leonard's Seeds**—Michael-Leonard Co., Sioux City, Iowa.
- Liberty**—field seeds—Stanford Seed Co., Buffalo, N. Y.
- Lilly's**—farm 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**—red clover seed—Steele, Briggs Seed Co., Ltd., Toronto, Ont., Canada.
- Lone Star**—bulbs—American Bulb Co., Chicago, Ill.
- M**—all seeds—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.
- Marvelawn**—grass seed—The Page Seed Co., Greene, N. Y.
- Master Farm Seeds Brand**—field seeds—Farmer Seed & Nursery Co., Faribault, Minn.
- Maybell**—pure field seeds—Ross Seed Co., Louisville, Ky.
- McCullough's Seeds**—seeds—The J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- Merit**—flower seed—Waller-Franklin Seed Co., Guadalupe, Cal.
- Milford**—grass seed—F. H. Woodruff & Sons, Inc., Milford, Conn.
- Milford Green**—lawn seed mixture—F. H. Woodruff & Sons, Inc., Milford, Conn.
- Minhybrid No. 250—Japanese Hulless Pop Corn**—Farmer Seed & Nursery Co., Faribault, Minn.
- Minrol—Soy Meal**—soybean feed—Funk Bros. Seed Co., Bloomington, Ill.
- 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.
- Nord**—farm seeds—Twin City Seed Co., Minneapolis, Minn.
- "Northern Grown Farm Seeds"**—Cargill, Inc., Minneapolis, Minn.
- 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.
- Old English**—lawn seed—Philadelphia Seed Co., 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.
- Osco Brand**—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.
- P**—field seeds—A. S. Paterson & Co., Ltd., Dunedin, New Zealand.
- "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.
- Pa-Se-Co**—seed corn—The Page Seed Co., Greene, N. Y.
- Patriot Brand**—lawn and farm 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**—popcorn—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.
- Pilgrim Brand**—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.
- Pine Tree**—farm seeds—The Albert Dickinson Co., Chicago, Ill.
- "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.
- Premier**—lawn seed—F. H. Woodruff & Sons, Inc., Milford, Conn.

- Pride**—hybrid seed corn—Twin City Seed Co., Minneapolis, Minn.
- Pride of the North**—farm and lawn seeds—Twin City Seed Co., Minneapolis, Minn.
- Puget Sound Brand**—seeds—Leckenby Seed Co., Seattle, Wash.
- Pure Bred Seeds Brand**—garden seeds—Condon Bros. Seedsmen, Rockford, Ill.
- "Pure Tested Seeds"**—Holmes Seed Co., Canton, Ohio.
- Puritan**—blue grass seed—Sphar & Gay Seed 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—Philadelphia Seed Co., Philadelphia, Pa.
- "Quality H & T Seeds"**—Jacob Hartz Seed Co., Stuttgart, Ark.
- Quality Seeds**—field seeds—Stollers Seed House, Paulding, Ohio.
- "Quality Seeds That Grow"**—field and garden seeds—Valker-Christensen Co., Inc., Minot, N. D.
- Queen City**—seeds—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- Quicklawn Brand**—lawn grass seed mixture—Associated Seed Growers, Inc., New Haven, Conn.
- Radway's**—garden & field seeds—I. L. Radwaner Seed Co., Inc., New York, N. Y.
- 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 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.
- 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.
- Royal**—field and grass seeds—Rudy-Patrick Seed Co., Kansas City, Mo.
- Santa Barbara Seed Beans**—McCrea Seed Co., Santa Barbara, Calif.
- Scott's**—lawn seed—O. M. Scott & Sons Co., Marysville, Ohio.
- Security**—field seeds—Cargill, Inc., Minneapolis, Minn.
- "Seedsmen For Over a Century"**—garden and lawn seeds, bulbs—Robert Buist Co., Philadelphia, Pa.
- "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 Succeed"**—garden, field and lawn seed—S. D. Woodruff & Sons, Inc., Orange, Conn.
- "Seeds That Grow, Need Any?"**—The Nebraska Seed Co., Omaha, Nebr.
- Service First Brand**—field seeds—International Seed, Inc., New York, N. Y.
- 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.
- 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.
- "Since 1820"**—Comstock, Ferre & Co., Wethersfield, Conn.
- Sioux**—field, garden and flower seeds—Michael-Leonard Co., Sioux City, Iowa.
- Six Green Stripes**—blue grass seed—The Nebraska Seed Co., Omaha, Nebr.
- Skagit Valley Brand**—garden seeds—J. A. Boyce Co., Mt. Vernon, Wash.
- Solar Brand**—field seeds—Henry Hirsch & Sons, Inc., Toledo, Ohio.
- Soo-Bred**—bantam sweet corn—Michael-Leonard Co., Sioux City, Iowa.
- Sterling**—farm seeds and feeds—Northrup, King & Co., Minneapolis, Minn.
- "Stollers' Quality Seed For All Your Needs"**—Stollers Seed House, Paulding, Ohio.
- Stork**—field seeds—Cargill, Inc., Minneapolis, Minn.
- 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.
- "Suhrcro Seed Sure Success"**—garden seeds—John Mosbell Co., Montvale, N. J.
- Sunnybrook**—seeds—W. Atlee Burpee Co., Philadelphia, Pa.
- Sunrise Brand**—strawberry clover—The Chas. H. Lilly Co., Seattle, Wash.
- Superior**—lawn grass mixture—Duryea Seed Co., Inc., New York, N. Y.
- Superfine Brand**—lawn seed—The J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- Supreme**—seed grain, corn and grass seeds—Goldberg Seed & Feed Co., Fargo, N. D.
- Sterling Brand**—farm seeds—Northrup, King & Co., Minneapolis, Minn.
- 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"**—C. S. Clark & Sons, Wakeman, Ohio.
- "The Oldest & Largest Seed House in the South"**—T. W. Wood & Sons, Richmond, Va.
- "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**—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.
- 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-Shade**—lawn seed—F. H. Woodruff & Sons, Inc., Milford, Conn.
- Truval**—field seeds 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.
- 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.
- Washington Park**—lawn seed—J. Chas. McCullough Seed Co., Cincinnati, Ohio.
- W.D.G. Blue Label Dahlias**—Grown where Dahlias grow Best—Wayland Dahlia Gardens, Wayland, Mich.
- "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 Quality**—grass seed—F. H. Woodruff & Sons, Inc., Milford, Conn.
- 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.
- 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.
- 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.
- "Ace of Bug Killers"**—insecticide—One-Spot Co., Elkridge, Md.
- Acme**—insecticide—Acme White Lead & Color Works, Detroit, Mich.
- Actirote**—insecticide—Hammond Paint & Chem. Co., Beacon, N. Y.
- A & D**—Peat moss stable bedding—Atkins & Durbrow, 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 Live Line for Live Dealers"**—garden sprays—Calif. Spray Chemical Corp., Elizabeth, N. J.
- All Purpose Hoe**—garden tools—Easy-fold Mfrg., 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.
- 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-L-Set**—plant hormone—Dow Chemical Co., Midland, Mich.
- 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.
- "Automatic Seed Packeting"**—The Brown Bag Filling Machine Co., Fitchburg, Mass.
- B & T Creosote**—C-A-Wood Preserver Co., St. Louis, Mo.
- "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.
- Bee Brand**—insecticides and disinfectants—The McCormick Sales Co., Baltimore, Md.
- Bemis "A's"**—standard seamless seed bag of America—Bemis Bro. Bag Co., St. Louis, Mo.
- Bemis Special**—threads for machine closing of bags—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**—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.
- 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—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—Bayer-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.
- 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.
- 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"**—Seedburo Equipment Co., Chicago, Ill.
- Compound Lever**—tree trimming equipment—Bartlett Mfg. Co., Detroit, Mich.
- Congo**—raffia—McHutchison & Co., New York, N. Y.
- Copper-Rotene**—combined dust—Mechling Bros., Chemicals, Philadelphia, Pa.
- Copper Solution**—fungicide—Hammond Paint & Chem. Co., Beacon, N. Y.
- 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.
- Dandelion Killer**—weed killer—Hammond Paint & Chem. Co., Beacon, N. Y.
- Deltaseal**—small package bag closure—Bemis Bro. Bag Co., St. Louis, Mo.
- 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.
- DuBay New Improved "Ceresan"**—seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.
- DuBay "Nu Green"**—seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.
- DuBay 2% "Ceresan"**—seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.
- DuBay "Semesan, Jr."**—seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.
- DuBay "Semesan Bel"**—seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.
- DuBay "Semesan"**—seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.
- DuBay Special "Semesan"**—seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.
- 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.
- Easy-Wear**—garden gloves—National Glove Co., Columbus, Ohio.
- Erosionet**—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 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—Cleland Mfg. Co., Minneapolis, Minn.
- Extrax**—complete organic insecticide—Calif. Spray Chem. Corp., Elizabeth, N. J.
- Eye-Identify**—sea's—Stoffel Seals Co., Inc., Chicago, Ill.
- E-Z**—fertilizer spreader—Germain Seed & Plant Co., Los Angeles, Calif.
- 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.
- Flea-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.
- Fly-Away**—spray—Hammond Paint & Chemical Co., Beacon, N. Y.
- Flyzoff**—fly repellent—Bohlender Plant Chemicals, Inc., Tipp City, Ohio.
- For-Get-Me-Not**—natural and colored raffia and peat moss—Julius Loewith, Inc., New York, N. Y.
- Formacide**—fungicide—Hammond Paint & Chem. Co., Beacon, N. Y.
- Four-In-One**—percentage scale—Seedburo Equipment Co., Chicago, Ill.
- Fruitone**—hormone to avoid fruit drop—American Chemical Paint Co., Ambler, Pa.
- 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 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 Volk**—positive contact insecticide with Nicotine—Calif. Spray Chem. Corp., Elizabeth, N. J.
- Gardex**—garden 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.
- Glass-O-Net**—mesh base glass substitute—Flex-O-Glass Mfg. Co., Chicago, Ill.
- Goldena**—feeds—Goldberg Seed & Feed Co., Fargo, N. Dak.
- Gold Leaf**—tobacco powder—Tobacco By-Products & Chem. Corp., Louisville, Ky.
- 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.
- 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
- Harco**—sprayer—Germain Seed & Plant Co., Los Angeles, Calif.
- Hart**—corn grader—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.
- 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, Inc., Bloomfield, N. J.
- H. W. K.**—weed killer—Hammond Paint & Chemical Co., Beacon, N. Y.
- Hydroxide**—insecticide—Mechling Bros. Chemicals, Philadelphia, Pa.
- "Hyponex grows 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.
- Iscro Spray**—insecticide—Innis, Speiden & Co., New York, N. Y.
- Instant-Weed-Cane**—Weed-Knell, Aurora, Ill.
- Jak Tung**—trucks—Thomas Truck & Caster Co., Keokuk, Iowa.
- Japto**—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.
- 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 biscuit—Quaker Oats Co., Rockford, Ill.
- Kerosene Emulsion**—insecticide—Hammond Paint & Chemical Co., Beacon, N. Y.
- 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.
- Krussow**—double spiral seed separator—Cleland Mfg. Co., Minneapolis, Minn.
- Kwik-Camp**—auto tents—Bemis Bro. Bag Co., St. Louis, Mo.
- Lac-Hi-Potash**—soil test for available potassium—Urbana Laboratories, Urbana, Ill.
- Larvacide**—fumigant for insect, soil and rodents—Innis, Speiden & Co., New York, N. Y.
- Legume-Aid**—inoculant—Agricultural Laboratories, Inc., Columbus, Ohio.
- Leonard**—horticultural knives, nursery spades, arboricultural supplies—A. M. Leonard & Son., Piqua, Ohio.
- Lenonet**—soil fixation material—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 Wonder**—hedge trimmer—Detco Mfg. Co., Oaks, Pa.
- Loma**—The perfect plant food—Tennessee Corp., New York, N. Y.
- Lyric**—mixed bird seed—Philadelphia Seed Co., Philadelphia, Pa.
- 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—Bemis Bro. Bag Co., St. Louis, Mo.
- 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 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.
- 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—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**—Vitamin B, tablets and liquid—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.
- 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.
- Pioneer**—garden and poultry peat moss (Ontario, Canada)—Atkins & Durbrow, Inc., New York, N. Y.
- Plantabbs**—plant food and fertilizer—Plantabbs Corp., Baltimore, Md.
- Plasti Chrome**—garden tools—Union Fork & Hoe Co., Columbus, Ohio
- Post-O-Meter Scales**—Detecto-Gram Scales, Brooklyn, N. Y.
- Pratt**—sprays—B. G. Pratt Co., New York, N. Y.
- Premier**—Vacuum Cleaned Certified Swedish Peat Moss—Premier Peat Moss Corp., New York, N. Y.
- Pree-Plant**—plant stimulant—Wm. T. Thompson Co., Los Angeles, Calif.
- "Printed Salesmakers"**—printing—A. B. Morse Co., St. Joseph, Mich.
- Purgrain**—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**—non-poisonous double acting insecticide—Mechling Bros. Chemicals, Philadelphia, Pa.
- "Quality Seed Bags"**—Fulton Bag & Cotton Mills, Atlanta, Ga.
- Racine**—fanning mill type seed cleaners—S. Howes Co., Inc., Silver Creek, N. Y.
- Rat Lunches**—exterminator—Rat Lunches Co., Carroll, Iowa.
- Rat-Nots**—repellent—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**—insecticide—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.
- Roach Flakes**—"It Get's 'Em" for roaches and waterbugs—Agricultural Laboratories, Inc., Columbus, Ohio
- 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**—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.
- Sanosseed**—seed disinfectant—Ansbacher-Siegle Corp., Brooklyn, N. Y.
- Scalecide**—dormant spray—B. G. Pratt Co., New York, N. Y.
- Seram**—dog repellent—Calif. Spray Chem. Corp., Elizabeth, N. J.
- Screen-Glass**—plastic covered wire cloth—Flex-O-Glass Mfg. Co., Chicago, Ill.
- Seal Brand Packet**—seed packets—The Disbrow Mfg. Co., Newark, N. J.
- "Sealed-Brooks"**—bag seals—E. J. Brooks Co., Newark, N. J.
- "Seed Worth Planting is Worth Treating"**—DuBay Products—Bayer-Semesan Co., Inc., Wilmington, Del.
- Seedburo Quality**—grain, seed and flour grading equipment—Seedburo Equipment Co., Chicago, Ill.
- Semesan, Jr.**—seed disinfectant—Bayer-Semesan Co., Inc., Wilmington, Del.
- Semesan Bel**—seed disinfectant—Bayer-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.
- 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.
- Snarol**—snail killer—The A. S. Boyle Co., Jersey City, N. J.
- "Soil-Flow"**—garden tools—Gardex, Inc., Michigan City, Ind.
- Sorbex**—moss peat—Atkins & Durbrow, Inc., New York, N. Y.
- Spear**—envelopes—Heinrich Envelope Co., Minneapolis, Minn.
- Speedline**—garden tools—Union Fork & Hoe Co., Columbus, Ohio.
- Spergon**—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 powder—Mechling Bros. Chemicals, Philadelphia, Pa.
- Spratt's**—dog food and supplies—Spratt's Patent, Ltd., Newark, N. J.
- Spraycide**—guaranteed household insecticide—Agricultural Laboratories, Inc., Columbus, Ohio
- Stabilized Rotenone Dust**—insecticide—Hammond Paint & Chemical Co., Beacon, N. Y.
- Stand-Bilt**—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.
- "Stoffel Seals—they Seal and Sell"**—seals—Stoffel Seals Co., Chicago, Ill.
- Stop That Rot**—wood preserver—C-A-Wood Preserver Co., St. Louis, Mo.
- 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**—dusting mixture, insecticide and fungicide—Mechling Bros. Chemicals, Philadelphia, Pa.
- Summers**—fertilizer—Summers Fertilizer Co., Baltimore, Md.
- Sunray**—plant cover—Paxton Products Co., Riverside, Calif.
- Superbilt**—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 Shot**—concentrated pyrethrum soap spray—Hammond Paint & Chemical Co., Beacon, N. Y.
- Tetrafume**—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.
- "Their Last Meal"**—repellent—Nott Mfg. Co., Mt. Vernon, N. Y.
- "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.
- Thomas**—floor trucks—Thomas Truck & Caster Co., Keokuk, Iowa.
- 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.
- Ti-o-ga**—dog food—Tioga Mills, Waverly, N. Y.
- Torsion**—laboratory scales—Torsion Balance Co., New York, N. Y.
- Train-etts**—weathered trellis netting—Germain Seed & Plant Co., Los Angeles, Calif.
- Transplantone**—root stimulant—American Chemical Paint Co., Ambler, Pa.
- Transplant Tablet**—root stimulant—Wm. T. Thompson Co., Los Angeles, Calif.
- "Treat Seed Every Year—It Pays"**—Du-
- Bay products—Bayer-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 seed bags with probe stripes—Bemis Bro. Bag Co., St. Louis, Mo.
- Twist-Ems**—plant ties—Germain Seed & Plant Co., Los Angeles, Calif.
- Two-In-One Envelope Bags**—sample mailing bags—Bemis Bro. Bag Co., St. Louis, Mo.
- Uni-Culture**—inoculant—Kalo Co., Quincy, Ill.
- Union**—farm and garden tools—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.
- Vac-a-Way**—seed and grain cleaner and grader—J. W. Hance Mfg. Co., Westerville, Ohio.
- Vacuum Cleaned Premier**—Swedish Peat Moss—Premier Peat Moss Corp., New York, N. Y.
- Veget-Aid**—plant food—Mechling Bros. Chemicals, Philadelphia, Pa.
- Vigoro**—plant food—Swift & Co., Chicago, Ill.
- Visinet**—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.
- 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.
- XX Superior Brand**—raffia—McHutchinson & Co., New York, N. Y.
- XXX Superior Brand**—raffia—McHutchinson & Co., New York, N. Y.
- Zotox**—crab grass killer and chick weed killer—Garden Products Co., St. Louis, Mo.

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ALSIKE CLOVER SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

| STATE | Acreage Harvested | | | Yield Per Acre | | | Production | | |
|---------------|-------------------|--------------|--------|-----------------|----------------|------|-----------------|----------------|---------|
| | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 |
| | | <i>Acres</i> | | | <i>Bushels</i> | | | <i>Bushels</i> | |
| New York | 1,330 | 1,500 | 1,000 | 1.68 | 1.80 | 1.80 | 2,250 | 2,700 | 1,800 |
| Ohio | 43,400 | 21,000 | 14,100 | 1.62 | 1.85 | 2.05 | 66,300 | 39,000 | 29,000 |
| Indiana | 9,200 | 6,000 | 3,000 | 1.32 | 1.20 | 1.10 | 11,160 | 7,200 | 3,300 |
| Illinois | 14,450 | 9,000 | 8,000 | 1.46 | 1.40 | 2.00 | 20,380 | 12,600 | 16,000 |
| Michigan | 15,800 | 10,000 | 5,000 | 1.66 | 2.10 | 2.00 | 25,640 | 21,000 | 10,000 |
| Wisconsin | 14,590 | 16,000 | 4,000 | 1.81 | 2.50 | 2.50 | 27,440 | 40,000 | 10,000 |
| Minnesota | 29,390 | 23,000 | 22,000 | 2.69 | 2.10 | 2.40 | 80,600 | 48,000 | 53,000 |
| Iowa | 4,920 | 3,200 | 5,400 | 1.50 | 1.20 | 1.10 | 7,670 | 3,800 | 5,900 |
| Missouri | 1,400 | 1,800 | 1,400 | 1.36 | 1.30 | 1.20 | 1,920 | 2,300 | 1,700 |
| Idaho | 3,300 | 5,200 | 5,200 | 5.58 | 5.00 | 5.00 | 17,920 | 26,000 | 26,000 |
| Oregon | 13,070 | 20,000 | 18,000 | 3.97 | 5.50 | 5.50 | 53,000 | 110,000 | 99,000 |
| United States | 150,850 | 116,700 | 87,100 | 2.12 | 2.68 | 2.94 | 314,280 | 312,600 | 255,700 |

VELVETBEAN PRODUCTION¹

| STATE | Total Acreage | | | Yield Per Acre | | | Production | | |
|----------------|-----------------|---------------------|-------|-----------------|---------------|-------|-----------------|--------------------|------|
| | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 |
| | | <i>Thous. Acres</i> | | | <i>Pounds</i> | | | <i>Thous. Tons</i> | |
| South Carolina | 80 | 85 | 82 | 997 | 1,100 | 1,075 | 40 | 47 | 44 |
| Georgia | 1,071 | 1,188 | 1,009 | 823 | 850 | 810 | 442 | 505 | 409 |
| Florida | 189 | 218 | 197 | 598 | 600 | 540 | 56 | 65 | 53 |
| Alabama | 437 | 474 | 414 | 779 | 950 | 800 | 171 | 225 | 166 |
| Mississippi | 77 | 103 | 93 | 1,030 | 940 | 980 | 39 | 48 | 46 |
| Louisiana | 56 | 97 | 89 | 779 | 800 | 710 | 22 | 39 | 32 |
| United States | 1,910 | 2,165 | 1,884 | 806.0 | 858.2 | 796.2 | 771 | 929 | 750 |

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 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 |
| | | <i>Acres</i> | | | <i>Pounds</i> | | | <i>Thous. Pounds</i> | |
| Indiana | 28,000 | 28,000 | 25,000 | 230 | 230 | 190 | 6,400 | 6,400 | 4,800 |
| Illinois | 121,000 | 24,000 | 12,000 | 1175 | 190 | 150 | 13,900 | 4,600 | 1,800 |
| Missouri | 167,333 | 248,000 | 180,000 | 1159 | 230 | 165 | 111,903 | 57,000 | 29,700 |
| Kansas | 46,000 | 46,000 | 48,000 | 200 | 200 | 190 | 9,200 | 9,200 | 9,100 |
| Virginia | 117,889 | 27,000 | 34,000 | 1228 | 250 | 270 | 13,757 | 6,800 | 9,200 |
| North Carolina | 92,300 | 150,000 | 185,000 | 159 | 190 | 210 | 15,377 | 28,500 | 38,800 |
| South Carolina | 30,000 | 30,000 | 42,000 | 185 | 215 | 215 | 5,600 | 5,600 | 9,000 |
| Georgia | 27,000 | 27,000 | 40,000 | 200 | 210 | 210 | 5,400 | 5,400 | 8,400 |
| Kentucky | 83,100 | 82,000 | 92,000 | 174 | 215 | 265 | 16,540 | 17,600 | 24,400 |
| Tennessee | 89,200 | 114,000 | 122,000 | 163 | 230 | 250 | 16,790 | 26,200 | 30,500 |
| Alabama | 15,000 | 15,000 | 16,000 | 180 | 180 | 200 | 2,700 | 2,700 | 3,200 |
| Mississippi | 3,590 | 20,000 | 18,000 | 104 | 150 | 185 | 387 | 3,000 | 3,300 |
| Arkansas | 18,000 | 18,000 | 22,000 | 240 | 240 | 275 | 4,300 | 4,300 | 6,000 |
| Louisiana | 3,710 | 9,900 | 11,600 | 106 | 140 | 130 | 396 | 1,400 | 1,500 |
| United States | 360,620 | 838,900 | 847,600 | 163.8 | 213.0 | 212.0 | 65,786 | 178,700 | 179,700 |

¹ Short-time average.

SWEETCLOVER SEED PRODUCTION

Compiled by Bureau of Agricultural Economics, USDA

| STATE | Acreage Harvested | | | Yield Per Acre | | | Production | | |
|---------------|-------------------|--------------|---------|-----------------|----------------|------|-----------------|----------------|---------|
| | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 |
| | | <i>Acres</i> | | | <i>Bushels</i> | | | <i>Bushels</i> | |
| Ohio | 9,600 | 8,000 | 9,000 | 2.31 | 2.50 | 2.70 | 20,940 | 20,000 | 24,000 |
| Indiana | 5,040 | 5,900 | 5,900 | 2.26 | 2.80 | 1.90 | 10,480 | 16,500 | 11,200 |
| Illinois | 21,500 | 33,000 | 17,000 | 2.17 | 2.00 | 1.90 | 45,800 | 66,000 | 32,000 |
| Michigan | 4,000 | 4,000 | 5,000 | 2.60 | 2.60 | 3.30 | 10,400 | 10,400 | 16,500 |
| Wisconsin | 3,230 | 3,300 | 2,600 | 3.14 | 3.30 | 3.20 | 10,230 | 10,900 | 8,300 |
| Minnesota | 124,200 | 147,000 | 88,000 | 3.75 | 2.10 | 3.60 | 413,100 | 309,000 | 317,000 |
| Iowa | 22,000 | 29,000 | 14,800 | 2.58 | 2.05 | 2.10 | 49,320 | 59,000 | 31,000 |
| Missouri | 5,600 | 10,600 | 7,000 | 2.24 | 2.40 | 2.50 | 13,170 | 25,000 | 17,500 |
| North Dakota | 35,900 | 15,000 | 15,000 | 2.68 | 2.90 | 2.30 | 95,060 | 44,000 | 34,000 |
| South Dakota | 28,220 | 16,900 | 10,000 | 2.36 | 2.20 | 2.80 | 68,480 | 37,000 | 28,000 |
| Nebraska | 19,800 | 20,000 | 21,000 | 2.53 | 1.90 | 2.50 | 50,540 | 38,000 | 52,000 |
| Kansas | 20,800 | 42,000 | 36,000 | 2.57 | 2.60 | 2.50 | 54,980 | 109,000 | 90,000 |
| Montana | 4,920 | 3,000 | 5,400 | 2.42 | 4.00 | 4.00 | 12,470 | 12,000 | 22,000 |
| Wyoming | 3,210 | 1,300 | 3,000 | 3.36 | 3.00 | 3.10 | 10,700 | 3,900 | 9,300 |
| Colorado | 5,100 | 6,500 | 9,100 | 4.02 | 4.00 | 3.50 | 20,500 | 26,000 | 32,000 |
| United States | 313,020 | 345,500 | 248,800 | 2.96 | 2.28 | 2.91 | 887,170 | 786,700 | 724,800 |

SOYBEAN ACREAGE (for all purposes)
Compiled by Bureau of Agricultural Economics, USDA

| STATE | Grown Alone | | | Interplanted | | | Equivalent Solid ¹ | | |
|----------------|-----------------|--------|--------|-----------------|---------------------|-------|-------------------------------|--------|--------|
| | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 |
| | | | | | <i>Thous. Acres</i> | | | | |
| New York | 6 | 17 | 34 | | | | 6 | 17 | 34 |
| New Jersey | 11 | 37 | 60 | | | | 11 | 37 | 60 |
| Pennsylvania | 33 | 77 | 108 | | | | 33 | 77 | 108 |
| Ohio | 318 | 923 | 1,440 | | | | 318 | 923 | 1,440 |
| Indiana | 733 | 1,234 | 1,728 | | | | 733 | 1,234 | 1,728 |
| Illinois | 1,681 | 2,813 | 3,940 | | | | 1,681 | 2,813 | 3,940 |
| Michigan | 43 | 149 | 274 | | | | 43 | 149 | 274 |
| Wisconsin | 124 | 168 | 160 | | | | 124 | 168 | 160 |
| Minnesota | 289 | 270 | 413 | | | | 289 | 270 | 413 |
| Iowa | 636 | 1,288 | 2,202 | | | | 636 | 1,288 | 2,202 |
| Missouri | 464 | 580 | 700 | 44 | 100 | 140 | 486 | 630 | 770 |
| South Dakota | | 8 | 19 | | | | | 8 | 19 |
| Nebraska | 5 | 32 | 55 | | | | 5 | 32 | 55 |
| Kansas | 41 | 83 | 290 | | | | 41 | 83 | 290 |
| Delaware | 33 | 53 | 66 | | | | 33 | 53 | 66 |
| Maryland | 42 | 71 | 100 | | | | 42 | 71 | 100 |
| Virginia | 110 | 140 | 196 | 51 | 86 | 87 | 136 | 183 | 240 |
| West Virginia | 43 | 57 | 40 | | | | 43 | 57 | 40 |
| North Carolina | 250 | 371 | 434 | 314 | 414 | 352 | 407 | 578 | 610 |
| South Carolina | 24 | 48 | 48 | 60 | 97 | 87 | 54 | 96 | 92 |
| Georgia | 68 | 131 | 106 | 70 | 90 | 60 | 103 | 176 | 136 |
| Kentucky | 120 | 198 | 224 | 14 | 22 | 28 | 127 | 209 | 238 |
| Tennessee | 162 | 175 | 224 | 142 | 288 | 292 | 233 | 319 | 370 |
| Alabama | 194 | 350 | 298 | 35 | 35 | 30 | 212 | 368 | 313 |
| Mississippi | 196 | 455 | 500 | 275 | 376 | 353 | 343 | 643 | 676 |
| Arkansas | 146 | 236 | 330 | 168 | 425 | 400 | 230 | 448 | 530 |
| Louisiana | 46 | 149 | 155 | 309 | 550 | 517 | 200 | 424 | 413 |
| Oklahoma | 16 | 16 | 32 | 3 | 3 | 3 | 17 | 18 | 34 |
| Texas | 227 | 17 | 46 | 28 | 4 | 7 | 231 | 19 | 50 |
| United States | 5,622 | 10,146 | 14,222 | 1,491 | 2,490 | 2,356 | 6,376 | 11,391 | 15,401 |

¹ Acres grown alone plus approximately one-half the interplanted acres.
² Short-time average.

SOYBEANS (for beans)

| STATE | Acreage Harvested ¹ | | | Yield Per Acre | | | Production | | |
|----------------|--------------------------------|---------------------|--------|-----------------|----------------|------|-----------------|---------------------|---------|
| | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 |
| | | <i>Thous. Acres</i> | | | <i>Bushels</i> | | | <i>Thous. Bush.</i> | |
| New York | 24 | 12 | 24 | 214.5 | 15.0 | 16.0 | 255 | 180 | 384 |
| New Jersey | | 9 | 23 | | 13.0 | 18.0 | | 117 | 414 |
| Pennsylvania | 25 | 15 | 35 | 216.2 | 15.0 | 17.0 | 278 | 225 | 595 |
| Ohio | 139 | 674 | 1,253 | 18.0 | 19.5 | 23.0 | 2,748 | 13,143 | 28,819 |
| Indiana | 303 | 815 | 1,417 | 16.6 | 17.0 | 21.0 | 5,264 | 13,855 | 29,757 |
| Illinois | 978 | 2,338 | 3,514 | 19.2 | 21.0 | 21.0 | 19,710 | 49,098 | 73,794 |
| Michigan | 16 | 100 | 220 | 13.2 | 14.0 | 17.0 | 236 | 1,400 | 3,740 |
| Wisconsin | 4 | 37 | 83 | 12.5 | 15.0 | 13.0 | 48 | 555 | 1,079 |
| Minnesota | 211 | 80 | 273 | 214.5 | 15.0 | 13.0 | 2168 | 1,200 | 3,549 |
| Iowa | 214 | 942 | 1,872 | 16.8 | 17.0 | 21.0 | 3,804 | 16,014 | 39,312 |
| Missouri | 107 | 187 | 500 | 9.0 | 11.5 | 15.0 | 926 | 2,150 | 7,500 |
| South Dakota | | 3 | 14 | | 12.0 | 15.0 | | 36 | 210 |
| Nebraska | | 20 | 40 | | 11.0 | 14.0 | | 220 | 560 |
| Kansas | 8 | 47 | 212 | 7.4 | 12.0 | 12.0 | 62 | 564 | 2,544 |
| Delaware | 18 | 30 | 42 | 12.8 | 11.5 | 16.0 | 230 | 345 | 672 |
| Maryland | 8 | 20 | 43 | 12.7 | 12.0 | 15.5 | 101 | 240 | 666 |
| Virginia | 27 | 51 | 115 | 12.2 | 12.5 | 15.5 | 335 | 638 | 1,782 |
| West Virginia | 1 | 2 | 2 | 11.6 | 13.0 | 12.5 | 16 | 26 | 25 |
| North Carolina | 133 | 176 | 300 | 11.3 | 10.0 | 13.0 | 1,507 | 1,760 | 3,900 |
| South Carolina | 8 | 12 | 12 | 6.5 | 7.5 | 8.0 | 53 | 90 | 96 |
| Georgia | 11 | 16 | 12 | 5.6 | 6.8 | 7.2 | 60 | 109 | 86 |
| Kentucky | 12 | 42 | 82 | 10.8 | 13.5 | 13.0 | 128 | 567 | 1,066 |
| Tennessee | 20 | 20 | 75 | 7.4 | 9.0 | 12.0 | 147 | 180 | 900 |
| Alabama | 10 | 24 | 38 | 5.8 | 6.0 | 6.0 | 57 | 144 | 228 |
| Mississippi | 26 | 71 | 203 | 8.2 | 10.5 | 14.0 | 215 | 746 | 2,842 |
| Arkansas | 32 | 116 | 239 | 10.5 | 15.0 | 15.0 | 363 | 1,740 | 3,585 |
| Louisiana | 12 | 17 | 85 | 11.8 | 11.5 | 13.5 | 148 | 196 | 1,148 |
| Oklahoma | 3 | 2 | 9 | 6.8 | 8.0 | 9.0 | 20 | 16 | 81 |
| Texas | 22 | 3 | 25 | 28.0 | 11.0 | 9.0 | 218 | 33 | 225 |
| United States | 2,103 | 5,881 | 10,762 | 16.1 | 18.0 | 19.5 | 36,385 | 105,587 | 209,559 |

¹ Equivalent solid acreage. (Acreage grown alone, with an allowance for acreage grown with other crops.)
² Short-time average.

HOPS PRODUCTION

| STATE | Acreage Harvested | | | Yield Per Acre | | | Production ¹ | | |
|---------------|-------------------|--------------|--------|-----------------|---------------|-------|-------------------------|---------------------|--------|
| | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 |
| | | <i>Acres</i> | | | <i>Pounds</i> | | | <i>Thous Pounds</i> | |
| Washington | 4,350 | 7,200 | 7,600 | 1,771 | 1,850 | 1,551 | 7,767 | 13,320 | 11,788 |
| Oregon | 19,540 | 20,000 | 19,300 | 935 | 840 | 680 | 18,188 | 16,800 | 13,124 |
| California | 5,830 | 7,600 | 7,800 | 1,505 | 1,350 | 1,280 | 8,701 | 10,260 | 9,984 |
| United States | 29,720 | 34,800 | 34,700 | 1,166 | 1,160 | 1,006 | 34,655 | 40,380 | 34,896 |

¹ For some States in certain years, production includes some quantities not available for marketing because of economic conditions and the marketing agreement allotments.
² Excludes approximately 400 acres not harvested because of rain and wind damage.

ALFALFA SEED PRODUCTION
Compiled by Bureau of Agricultural Economics, USDA

| STATE | Acreage Harvested | | | Yield Per Acre | | | Production | | |
|---------------|-------------------|---------|---------|-----------------|------|------|-----------------|-----------|---------|
| | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 |
| | Acres | | | Bushels | | | Bushels | | |
| Ohio | 15,000 | 29,000 | 9,000 | 1.16 | .90 | .75 | 16,790 | 26,000 | 6,800 |
| Indiana | 6,450 | 16,800 | 2,000 | .94 | .85 | .85 | 5,800 | 14,300 | 1,700 |
| Michigan | 64,400 | 84,000 | 38,000 | 1.28 | .85 | .75 | 69,020 | 71,000 | 28,000 |
| Wisconsin | 28,700 | 28,000 | 9,000 | 1.07 | 1.10 | .80 | 30,820 | 31,000 | 7,200 |
| Minnesota | 68,530 | 72,000 | 48,000 | 1.37 | .80 | .90 | 92,680 | 58,000 | 43,000 |
| Iowa | 10,230 | 24,000 | 7,900 | 1.40 | .90 | 1.00 | 13,470 | 22,000 | 7,900 |
| North Dakota | 16,290 | 15,000 | 9,000 | .91 | 1.00 | .80 | 15,120 | 15,000 | 7,200 |
| South Dakota | 29,370 | 16,000 | 18,400 | 1.00 | 1.50 | 1.10 | 30,200 | 24,000 | 20,000 |
| Nebraska | 56,900 | 76,000 | 65,000 | 1.38 | 1.20 | 1.25 | 77,740 | 91,000 | 81,000 |
| Kansas | 70,200 | 125,000 | 112,000 | 1.74 | 1.20 | 1.20 | 122,320 | 150,000 | 134,000 |
| Oklahoma | 43,200 | 85,000 | 76,000 | 2.20 | 1.40 | 1.75 | 89,150 | 119,000 | 133,000 |
| Texas | 3,920 | 9,000 | 8,000 | 2.78 | 1.80 | 4.00 | 11,170 | 16,200 | 32,000 |
| Montana | 34,200 | 67,000 | 74,000 | 2.00 | 1.75 | 1.30 | 72,580 | 117,000 | 96,000 |
| Idaho | 46,600 | 30,000 | 15,000 | 2.56 | 1.45 | 1.70 | 115,030 | 44,000 | 26,000 |
| Wyoming | 16,050 | 22,000 | 22,000 | 2.12 | 1.90 | 1.60 | 34,570 | 42,000 | 35,000 |
| Colorado | 22,700 | 9,500 | 16,200 | 2.41 | 1.40 | 1.60 | 55,400 | 13,300 | 26,000 |
| New Mexico | 4,260 | 5,300 | 8,500 | 3.41 | 1.60 | 3.00 | 13,550 | 8,500 | 26,000 |
| Arizona | 23,200 | 34,000 | 36,000 | 4.68 | 2.50 | 4.00 | 103,400 | 85,000 | 144,000 |
| Utah | 32,700 | 30,000 | 27,000 | 1.80 | 1.50 | 1.50 | 60,560 | 45,000 | 40,000 |
| Washington | | 3,000 | 3,500 | | 2.00 | 3.50 | | 6,000 | 12,200 |
| Oregon | 5,470 | 6,000 | 5,000 | 2.63 | 1.50 | 1.50 | 14,200 | 9,000 | 7,500 |
| California | 16,650 | 17,600 | 15,000 | 3.36 | 2.40 | 4.00 | 56,110 | 42,000 | 60,000 |
| United States | 616,180 | 804,200 | 624,500 | 1.82 | 1.30 | 1.56 | 1,101,310 | 1,049,300 | 974,500 |

TIMOTHY SEED PRODUCTION
Compiled by Bureau of Agricultural Economics, USDA

| STATE | Acreage Harvested | | | Yield Per Acre | | | Production | | |
|---------------|-------------------|---------|---------|-----------------|------|------|-----------------|-----------|-----------|
| | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 |
| | Acres | | | Bushels | | | Bushels | | |
| Pennsylvania | 4,890 | 4,500 | 5,600 | 2.82 | 2.65 | 2.95 | 13,900 | 11,900 | 16,500 |
| Ohio | 35,400 | 43,000 | 53,000 | 3.19 | 3.25 | 3.35 | 120,070 | 140,000 | 178,000 |
| Indiana | 13,460 | 13,800 | 13,800 | 2.98 | 3.00 | 3.00 | 42,850 | 41,000 | 41,000 |
| Illinois | 60,280 | 40,000 | 34,000 | 2.52 | 2.80 | 2.80 | 162,260 | 112,000 | 95,000 |
| Wisconsin | 10,240 | 15,000 | 20,000 | 3.19 | 3.40 | 4.00 | 33,900 | 51,000 | 80,000 |
| Minnesota | 35,290 | 28,000 | 39,000 | 3.69 | 3.50 | 4.10 | 131,670 | 98,000 | 160,000 |
| Iowa | 242,900 | 183,000 | 210,000 | 3.62 | 3.75 | 4.10 | 971,210 | 686,000 | 861,000 |
| Missouri | 82,400 | 48,000 | 60,000 | 3.03 | 2.80 | 3.20 | 274,030 | 134,000 | 192,000 |
| United States | 487,110 | 375,300 | 435,400 | 3.34 | 3.39 | 3.73 | 1,755,280 | 1,273,900 | 1,623,500 |

RED CLOVER SEED PRODUCTION
Compiled by Bureau of Agricultural Economics, USDA

| STATE | Acreage Harvested | | | Yield Per Acre | | | Production | | |
|---------------|-------------------|-----------|-----------|-----------------|------|------|-----------------|-----------|-----------|
| | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 | Average 1930-39 | 1941 | 1942 |
| | Acres | | | Bushels | | | Bushels | | |
| New York | 6,770 | 13,000 | 9,600 | 1.26 | 1.20 | 1.00 | 8,460 | 15,600 | 9,600 |
| Pennsylvania | 19,500 | 31,000 | 13,000 | .98 | 1.00 | 1.10 | 18,720 | 31,000 | 14,300 |
| Ohio | 117,100 | 225,000 | 169,000 | .96 | .95 | .85 | 111,200 | 214,000 | 144,000 |
| Indiana | 167,000 | 244,000 | 134,000 | .93 | .90 | .70 | 152,500 | 220,000 | 94,000 |
| Illinois | 178,700 | 180,000 | 209,000 | .97 | .80 | .70 | 177,200 | 144,000 | 146,000 |
| Michigan | 82,400 | 140,000 | 77,000 | 1.05 | 1.10 | .95 | 87,300 | 154,000 | 73,000 |
| Wisconsin | 58,600 | 185,000 | 120,000 | 1.19 | 1.10 | .90 | 70,600 | 204,000 | 108,000 |
| Minnesota | 31,450 | 50,000 | 56,000 | 1.38 | .90 | 1.00 | 43,520 | 45,000 | 56,000 |
| Iowa | 102,080 | 104,000 | 185,000 | .79 | .80 | .80 | 86,620 | 83,000 | 148,000 |
| Missouri | 46,600 | 81,000 | 90,000 | .97 | 1.00 | 1.10 | 46,930 | 81,000 | 99,000 |
| Kansas | 11,200 | 14,000 | 16,800 | .80 | .80 | 1.00 | 8,760 | 11,200 | 16,800 |
| Maryland | 20,150 | 29,000 | 14,000 | 1.30 | .80 | .80 | 23,630 | 23,000 | 11,200 |
| Virginia | 9,100 | 19,000 | 5,000 | 1.09 | 1.10 | .80 | 10,370 | 21,000 | 4,000 |
| Kentucky | 29,200 | 18,000 | 18,200 | 1.47 | 1.30 | 1.65 | 13,300 | 23,000 | 30,000 |
| Idaho | 28,700 | 35,000 | 18,200 | 4.56 | 4.40 | 4.60 | 128,500 | 154,000 | 84,000 |
| Washington | 13,200 | 3,000 | 2,000 | 12.95 | 3.50 | 3.50 | 19,520 | 10,500 | 7,000 |
| Oregon | 19,390 | 11,700 | 12,000 | 2.36 | 3.00 | 3.10 | 45,900 | 35,000 | 37,000 |
| United States | 921,900 | 1,382,700 | 1,148,800 | 1.17 | 1.06 | .94 | 1,056,870 | 1,469,300 | 1,081,900 |

¹ Short-time average.
² Includes a small percentage of alsike clover seed.

TIMOTHY SEED EXPORTS FROM THE UNITED STATES, BY COUNTRIES OF DESTINATION 1929-1941

Compiled from Foreign Commerce and Navigation of the United States.

| Country to which exported | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 ¹ |
|---------------------------|------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|-------------------|
| | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds |
| Belgium..... | 11,000 | 28,600 | 130,026 | 0 | 0 | 0 | 48,600 | 77,318 | 132,628 | 138,002 | 40,454 | 0 | 0 |
| Canada..... | 6,342,738 | 12,532,960 | 6,324,495 | 8,565,213 | 3,191,510 | 3,291,045 | 190,483 | 2,342,742 | 411,247 | 1,399,462 | 5,307,717 | 6,072,062 | 1,237,520 |
| Denmark..... | 273,930 | 165,772 | 331,375 | 38,599 | 0 | 0 | 18,500 | 0 | 0 | 0 | 0 | 0 | 0 |
| France..... | 24,449 | 7,516 | 197,542 | 45,563 | 1,228 | 0 | 201,113 | 98,586 | 177,129 | 175,570 | 154,120 | 270,764 | 0 |
| Germany..... | 219,356 | 345,519 | 496,620 | 210,799 | 35,088 | 0 | 173,258 | 0 | 82,475 | 0 | 1,732,902 | 0 | 0 |
| Irish Free State.. | 111,042 | 58,091 | 25,856 | 37,257 | 22,440 | 0 | 35,945 | 108,272 | 168,919 | 233,881 | 170,383 | 114,894 | 0 |
| Italy..... | 2,210 | 44,200 | 2,210 | 1,134 | 0 | 0 | 4,400 | 2,200 | 0 | 0 | 17,600 | 2,200 | 0 |
| Japan..... | 15,184 | 20,244 | 27,514 | 37,887 | 15,000 | 6,046 | 9,981 | 0 | 9,000 | 37,943 | 0 | 0 | 0 |
| Netherlands..... | 65,193 | 88,994 | 166,321 | 51,599 | 65,036 | 0 | 171,780 | 90,468 | 169,932 | 327,151 | 230,679 | 75,313 | 0 |
| New Zealand..... | 294,017 | 191,356 | 191,138 | 218,693 | 259,238 | 114,215 | 472,076 | 184,321 | 296,437 | 233,240 | 275,365 | 312,120 | 20,484 |
| Newfoundland & Labrador. | 31,700 | 44,200 | 47,008 | 34,650 | 48,193 | 42,840 | 19,040 | 25,225 | 55,525 | 48,683 | 54,470 | 84,526 | 36,147 |
| Norway..... | 241,648 | 269,917 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Switzerland..... | 0 | 7,500 | 2,646 | 60,500 | 0 | 11,008 | 94,785 | 59,730 | 0 | 15,676 | 82,971 | 37,775 | 0 |
| United Kingdom | 1,522,323 | 1,985,296 | 2,533,593 | 1,581,728 | 1,353,708 | 233,066 | 1,973,724 | 1,013,444 | 1,727,538 | 1,833,897 | 2,338,565 | 2,608,037 | 796,337 |
| Other Countries.. | 40,232 | 38,406 | 0 | 7,040 | 17,806 | 0 | 11,331 | 300 | 940 | 48,044 | 1,110 | 6,979 | 2,500 |
| Total..... | 9,195,022 | 15,828,571 | 10,476,344 | 10,890,662 | 5,009,247 | 3,698,220 | 3,424,716 | 4,002,606 | 3,231,770 | 4,491,549 | 10,406,336 | 9,584,470 | 2,092,988 |

¹ Three months ended March. ² 32,000 pounds to Hungary. ³ 15,266 pounds to Austria.

RED CLOVER SEED EXPORTS FROM THE UNITED STATES, BY COUNTRIES OF DESTINATION, 1929-1941

Compiled from Foreign Commerce and Navigation of the United States.

| Country to which exported | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 ¹ |
|---------------------------|----------------|----------------|----------------|----------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|
| | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds | Pounds |
| Australia..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11,480 | 17,920 |
| Belgium..... | 16,309 | 0 | 0 | 0 | 234,325 | 172,633 | 0 | 2,200 | 0 | 0 | 0 | 0 | 0 |
| Canada..... | 58,051 | 170,688 | 488,656 | 87,333 | 805 | 121,229 | 6,232 | 9,341 | 79,475 | 0 | 881 | 10,575 | 789 |
| Denmark..... | 44,331 | 11,338 | 0 | 0 | 11,000 | 16,314 | 6,785 | 6,770 | 4,521 | 0 | 0 | 0 | 0 |
| France..... | 8,860 | 21,701 | 0 | 0 | 976,450 | 235,684 | 11,000 | 0 | 33,762 | 0 | 0 | 0 | 0 |
| Germany..... | 117,005 | 206,678 | 49,103 | 76,172 | 230,330 | 120,672 | 20,537 | 10,975 | 15,458 | 0 | 0 | 0 | 0 |
| Netherlands..... | 63,628 | 51,609 | 0 | 0 | 2,500 | 0 | 20,780 | 22,380 | 85,207 | 33,000 | 1,000 | 0 | 0 |
| New Zealand..... | 0 | 114 | 1,142 | 20,340 | 11,200 | 175,682 | 6,990 | 2,427 | 0 | 11,160 | 1,120 | 0 | 0 |
| United Kingdom | 203,133 | 55,150 | 116,065 | 100,545 | 1,420,162 | 195,514 | 184,293 | 34,986 | 232,088 | 135,967 | 220,488 | 681,079 | 124,426 |
| Other Countries.. | 12,218 | 18,194 | 15,338 | 13,509 | 138,666 | 53,892 | 54,820 | 36,192 | 12,678 | 2,645 | 760 | 23,358 | 1,325 |
| Total..... | 523,535 | 535,472 | 670,304 | 297,899 | 3,025,438 | 1,091,620 | 311,437 | 125,271 | 463,189 | 182,772 | 224,249 | 726,492 | 144,460 |

¹ Three months ended March. ² 11,000 pounds to Poland and Danzig. ³ 17,603 pounds to Japan. ⁴ 83,616 pounds to Japan; 22,000 pounds to Austria, and 33,000 pounds to Italy. ⁵ 51,823 pounds to Japan. ⁶ 32,050 pounds to Japan.

WHOLESALE SELLING PRICES FOR BEST GRADES OF FIELD SEEDS AT IMPORTANT MARKETS, 1930-1942

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 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 |
|-------------------------|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars | Dollars |
| Alfalfa..... | Kansas City..... | 24.80 | 22.55 | 13.65 | 13.60 | 13.00 | 19.80 | 15.20 | 29.60 | 34.00 | 24.75 | 22.75 | 19.00 | 33.00 |
| Red clover..... | Chicago..... | 21.35 | 25.05 | 16.35 | 11.40 | 14.75 | 23.65 | 20.90 | 38.25 | 40.00 | 18.00 | 18.70 | 14.00 | 22.50 |
| Alsike clover..... | Chicago..... | 19.90 | 23.50 | 15.05 | 11.95 | 16.25 | 28.65 | 23.30 | 25.95 | 33.00 | 16.25 | 23.00 | 14.50 | 22.50 |
| Sweetclover..... | Minneapolis..... | 8.00 | 9.20 | 5.50 | 4.50 | 6.50 | 10.40 | 6.25 | 17.00 | 11.35 | 7.75 | 6.90 | 6.60 | 13.00 |
| White clover..... | Chicago..... | 27.50 | 39.05 | 40.50 | 27.85 | 30.50 | 27.50 | 27.10 | 30.10 | 35.00 | 42.50 | 62.50 | 72.00 | 73.00 |
| Crimson clover..... | Baltimore..... | 11.50 | 9.00 | 6.75 | 9.20 | 9.20 | 12.05 | 7.55 | 7.80 | 10.35 | 12.70 | 11.60 | 10.85 | 11.50 |
| Lespedeza..... | Louisville..... | 14.35 | 14.70 | 8.10 | 7.50 | 5.00 | 10.50 | 5.65 | 15.60 | 5.45 | 3.50 | 5.55 | 5.40 | 7.10 |
| Timothy..... | Chicago..... | 8.05 | 10.55 | 4.30 | 3.25 | 8.50 | 22.80 | 3.65 | 6.95 | 4.00 | 4.00 | 6.35 | 5.25 | 9.00 |
| Redtop..... | Chicago..... | 16.50 | 24.20 | 8.70 | 5.30 | 8.40 | 13.95 | 9.35 | 21.50 | 11.50 | 11.15 | 11.35 | 10.25 | 11.50 |
| Kentucky bluegrass..... | Kansas City..... | 20.00 | 35.35 | 13.45 | 8.35 | 13.40 | 23.20 | 12.30 | 18.35 | 10.65 | 10.50 | 19.50 | 18.50 | 18.50 |
| Orchard grass..... | Louisville..... | 17.15 | 16.05 | 7.35 | 7.30 | 9.70 | 16.20 | 12.50 | 18.30 | 16.15 | 17.50 | 16.90 | 26.00 | 32.50 |
| Meadow fescue..... | Kansas City..... | 10.00 | 10.75 | 5.50 | 4.15 | 7.05 | 18.00 | 7.00 | 10.50 | 8.85 | 12.00 | 14.00 | 16.00 | ..... |
| Chewings fescue..... | Baltimore..... | 27.00 | 36.00 | 22.65 | 11.75 | 19.35 | 55.45 | 41.90 | 31.80 | 39.75 | 60.00 | 51.00 | 32.90 | 35.00 |
| Sheep's fescue..... | Baltimore..... | 22.00 | 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..... | 55.00 | 85.00 | 71.60 | 62.00 | 72.15 | 85.90 | 52.70 | 45.00 | 58.10 | 55.00 | 59.00 | ..... | ..... |
| Bermuda grass..... | Baltimore..... | 33.80 | 31.35 | 16.25 | 12.10 | 10.55 | 20.40 | 23.45 | 26.75 | 22.90 | 24.60 | 23.70 | 19.70 | 38.00 |
| Bromus inermis..... | Minneapolis..... | 18.50 | 20.00 | 14.00 | 8.00 | 16.20 | 26.00 | 13.45 | 26.00 | 19.45 | 17.05 | 16.60 | 19.00 | 19.00 |
| Italian ryegrass..... | Baltimore..... | 9.25 | 9.50 | 8.85 | 7.10 | ..... | ..... | ..... | 7.10 | 7.50 | 7.80 | ..... | ..... | ..... |
| Perennial ryegrass..... | Baltimore..... | 8.75 | 10.00 | 8.85 | 7.10 | 11.40 | 11.90 | 10.20 | 11.30 | 9.00 | 11.00 | 11.00 | 12.40 | 14.50 |
| 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 |
| German millet..... | Kansas City..... | 3.45 | 3.70 | 1.80 | 1.55 | 3.35 | 7.00 | 2.70 | 4.90 | 3.25 | 1.85 | 2.60 | 3.25 | 3.25 |
| Siberian millet..... | Minneapolis..... | 3.10 | 3.40 | 2.60 | 2.40 | 3.65 | 6.10 | 2.75 | 3.40 | 2.35 | 2.50 | 3.75 | 4.25 | 4.00 |
| Hungarian millet..... | Chicago..... | 4.10 | 3.50 | 2.25 | 1.95 | 2.90 | 6.05 | 3.00 | 5.00 | 3.50 | 3.15 | 4.50 | 3.50 | 4.50 |
| Japanese millet..... | Chicago..... | 4.20 | 3.70 | 3.20 | 2.90 | 3.00 | 6.00 | 2.50 | 3.25 | 3.00 | 3.00 | 5.45 | 5.00 | 4.00 |
| Broomcorn millet..... | Minneapolis..... | 3.00 | 2.40 | 1.95 | 1.80 | 2.20 | 4.30 | 2.25 | 2.75 | 2.30 | 2.50 | 2.15 | 1.65 | 2.15 |
| Amber sorgo..... | Kansas City..... | 3.45 | 2.80 | 1.20 | 1.15 | 1.60 | 5.65 | 2.70 | 4.00 | 1.85 | 1.70 | 2.75 | 2.65 | 2.25 |
| Orange sorgo..... | Kansas City..... | 3.30 | 2.80 | 1.25 | 1.20 | 2.10 | 5.40 | 2.70 | 3.95 | 1.80 | 1.60 | 2.75 | 2.70 | 2.40 |
| Sudan grass..... | Kansas City..... | 5.40 | 7.40 | 1.75 | 2.05 | 5.50 | 12.30 | 3.15 | 4.60 | 3.25 | 3.55 | 3.50 | 3.85 | 3.00 |
| Rape..... | Baltimore..... | 5.70 | 4.30 | 4.15 | 3.75 | 4.30 | 3.60 | 4.00 | 5.95 | 6.55 | 6.35 | 7.30 | 16.50 | 16.00 |
| Hairy vetch..... | Baltimore..... | 9.00 | 8.45 | 7.50 | 7.00 | 8.75 | 11.50 | 9.75 | 8.85 | 8.50 | 8.20 | 10.80 | 10.00 | 10.75 |
| Common vetch..... | Baltimore..... | 4.80 | 4.50 | 4.00 | 3.50 | 5.00 | 3.50 | 3.75 | 5.00 | 4.65 | 5.00 | 6.75 | 6.00 | 7.50 |
| Canada field peas..... | Minneapolis..... | 5.25 | 3.85 | 4.80 | 4.50 | 3.85 | 3.85 | 4.00 | 5.15 | 5.35 | 4.85 | 5.85 | 5.20 | 5.50 |
| Kafir..... | Kansas City..... | 2.05 | 1.75 | 1.15 | 1.10 | 1.40 | 3.20 | 2.00 | 3.15 | 1.75 | 1.55 | 2.30 | 2.30 | 2.75 |
| Cowpeas..... | Bu. Baltimore..... | 3.30 | 2.70 | 1.05 | .95 | 2.50 | 2.50 | 2.30 | 3.00 | 2.20 | 2.40 | 1.90 | 2.25 | 2.85 |
| Soybeans..... | Louisville..... | 2.25 | 2.15 | .75 | .95 | 1.45 | 1.60 | 1.35 | 2.25 | 1.35 | 1.15 | 1.50 | 1.50 | 2.70 |
| Seed corn..... | Chicago..... | 1.75 | 1.65 | 1.20 | .85 | 1.00 | 1.75 | 2.95 | 2.50 | 1.50 | 1.25 | 1.40 | 1.35 | 1.60 |
| Seed wheat..... | Minneapolis..... | 1.65 | 1.15 | 1.00 | .90 | 1.25 | 1.50 | 1.65 | 2.00 | 1.35 | 1.25 | 1.40 | 1.30 | 1.70 |
| Seed oats..... | Minneapolis..... | .80 | .65 | .55 | .45 | .65 | .90 | .70 | .90 | .75 | .65 | .75 | .75 | .90 |
| Seed barley..... | Minneapolis..... | .80 | .75 | .75 | .65 | .95 | 1.45 | 1.00 | 1.70 | 1.15 | .90 | .90 | .90 | 1.25 |
| Seed rye..... | Minneapolis..... | 1.50 | 1.05 | .90 | .80 | 1.35 | 1.50 | 1.25 | | | | | | |

RETAIL SEED PRICES, SPRING OF 1942, BY STATES

(In Dollars per 100 Pounds)

| State or States | Com- mon Alfalfa | Clover | | | Kor. Lespe- deza | Timothy | Redtop | Ky. Blue- grass | Orchard Grass | Com- mon Rye- grass | Smooth Brome- grass | Sudan Grass | Amber Sorgo ("Cane") | Ger- man Millet |
|----------------------|------------------------|---------|---------|---------|------------------------|---------|---------|-----------------------|------------------|------------------------------|---------------------------|----------------|----------------------------|-----------------------|
| | | Red | Alsike | Sweet |  |  |  |  |  |  |  |  |  |  | White |
| New England | \$40.55 | \$28.30 | \$28.10 | \$15.60 | \$95.45 | \$11.60 | \$16.95 | \$28.75 | \$39.65 | \$12.40 | \$23.50 | \$6.55 | ..... | \$6.75 |
| New York | 39.05 | 26.45 | 25.90 | 14.55 | 98.60 | 10.70 | 16.90 | 27.20 | 36.65 | 10.40 | 25.60 | 6.20 | \$5.40 | 6.10 |
| Pennsylvania | 38.80 | 26.10 | 25.45 | 14.05 | 96.60 | 10.75 | 16.50 | 25.85 | 36.45 | 10.65 | 24.50 | 5.85 | 5.55 | 5.95 |
| New Jersey | 40.05 | 27.10 | 26.15 | 14.55 | 93.20 | 11.00 | 16.10 | 25.85 | 35.20 | 10.15 | ..... | 5.75 | 4.80 | 5.40 |
| Maryland | 39.20 | 26.25 | 25.70 | 13.95 | 89.20 | 10.60 | 14.75 | 24.00 | 34.40 | 12.15 | ..... | 5.10 | 5.05 | 5.40 |
| Virginia | 37.00 | 25.75 | 24.80 | 14.35 | 88.05 | 10.50 | 13.90 | 23.50 | 32.45 | 10.05 | ..... | 5.15 | 4.70 | 6.40 |
| West Virginia | 39.00 | 26.10 | 26.00 | 14.55 | ..... | 10.80 | 15.55 | 26.05 | 34.45 | ..... | ..... | 5.65 | ..... | 6.20 |
| Southeastern | 31.45 | 24.40 | 24.20 | 12.95 | 76.55 | 11.20 | 15.10 | 25.75 | 31.65 | 9.15 | ..... | 5.95 | 3.90 | 8.10 |
| Tennessee | 34.40 | 24.85 | 24.80 | 12.80 | 85.60 | 10.80 | 12.95 | 24.20 | 35.00 | 9.75 | ..... | 4.45 | 3.05 | 5.90 |
| Kentucky | 35.00 | 24.80 | 25.10 | 13.75 | 84.80 | 10.30 | 12.50 | 22.35 | 33.70 | 9.30 | ..... | 5.00 | 4.70 | 7.00 |
| Ohio | 34.40 | 23.40 | 23.45 | 12.60 | 88.05 | 10.05 | 16.80 | 26.20 | 36.65 | 11.80 | 22.90 | 5.50 | 5.40 | 6.30 |
| Indiana | 37.20 | 23.60 | 24.60 | 13.95 | 91.90 | 10.45 | 15.40 | 26.10 | 36.20 | 10.50 | 21.70 | 5.10 | 5.40 | 5.15 |
| Illinois | 37.15 | 23.50 | 24.30 | 13.70 | 85.00 | 9.90 | 13.60 | 25.70 | 36.60 | 10.65 | 21.65 | 4.95 | 4.95 | 4.75 |
| Iowa | 36.50 | 24.95 | 25.10 | 14.00 | 86.25 | 9.15 | 15.15 | 25.80 | 34.25 | 10.70 | 21.50 | 4.80 | 4.50 | 4.65 |
| Missouri | 33.50 | 21.50 | 23.60 | 12.20 | 80.60 | 9.10 | 12.00 | 22.95 | 32.80 | 9.80 | 19.70 | 4.20 | 3.70 | 4.05 |
| Michigan | 38.80 | 23.80 | 24.40 | 14.40 | 89.05 | 11.05 | 17.40 | 27.10 | 38.55 | 12.40 | 23.30 | 5.35 | 5.55 | 5.40 |
| Wisconsin | 38.10 | 23.15 | 24.45 | 14.30 | 78.60 | 10.10 | 15.95 | 24.85 | 38.90 | 10.80 | 22.90 | 4.75 | 5.10 | 4.90 |
| Minnesota | 37.80 | 25.10 | 25.70 | 13.10 | 88.00 | 10.25 | 17.10 | 26.30 | 35.50 | 11.95 | 22.10 | 5.00 | 4.65 | 4.90 |
| North Dakota | 33.00 | 25.80 | 25.75 | 12.35 | 79.00 | 9.95 | 15.75 | 25.15 | ..... | 14.40 | 19.00 | 4.60 | 4.00 | 4.55 |
| South Dakota | 35.70 | 25.80 | 26.05 | 11.95 | 86.50 | 10.15 | 15.90 | 26.00 | ..... | 11.10 | 19.95 | 4.05 | 3.70 | 4.20 |
| Nebraska | 32.40 | 25.05 | 25.50 | 12.35 | 90.40 | 9.80 | 15.05 | 28.40 | 35.95 | 11.80 | 20.30 | 3.80 | 2.95 | 3.85 |
| Kansas | 30.00 | 22.15 | 24.80 | 10.70 | 81.95 | 9.40 | 14.35 | 25.50 | 34.50 | 10.60 | 18.95 | 3.60 | 2.75 | 3.60 |
| Oklahoma | 28.95 | 23.30 | 25.15 | 12.35 | 86.25 | 10.55 | 13.05 | 28.50 | 33.15 | 9.30 | ..... | 2.85 | 2.15 | 3.05 |
| Arkansas | 31.40 | 27.40 | 28.60 | 15.20 | 82.10 | 11.40 | 13.95 | 28.40 | 34.30 | 10.05 | ..... | 4.15 | 3.55 | 4.80 |
| Texas | 29.50 | ..... | ..... | 14.05 | ..... | ..... | ..... | ..... | ..... | 8.20 | ..... | 2.85 | 2.20 | 2.90 |
| New Mexico | 30.10 | ..... | ..... | 14.60 | ..... | ..... | ..... | ..... | 32.50 | ..... | ..... | 3.70 | 2.95 | 3.55 |
| Montana | 32.60 | 24.30 | 25.90 | 12.90 | 87.20 | 11.40 | 15.90 | 28.30 | 37.50 | 11.50 | 21.15 | 5.50 | 4.20 | 4.50 |
| Colorado | 34.20 | 24.05 | 27.20 | 12.95 | 98.05 | 12.10 | 17.15 | 30.20 | 35.15 | 12.60 | 21.55 | 3.65 | 2.75 | 3.90 |
| Idaho | 37.70 | 23.95 | 25.20 | 16.40 | 92.10 | 12.20 | 20.25 | 31.30 | 40.60 | 13.70 | 22.35 | 8.90 | ..... | ..... |
| Washington | 39.50 | 25.30 | 25.60 | 17.60 | 95.70 | 12.10 | 20.00 | 34.45 | 39.70 | 9.60 | 23.25 | 6.90 | ..... | ..... |
| Oregon | 36.80 | 22.80 | 22.95 | 17.00 | 85.95 | 11.95 | 19.70 | 34.60 | 40.10 | 8.15 | 22.10 | 5.85 | ..... | ..... |
| California | 32.30 | 28.50 | 28.80 | 17.15 | 95.50 | 14.65 | 20.30 | 33.90 | 44.00 | 10.40 | 25.85 | 6.15 | 5.20 | 5.75 |
| U. S. Average | 36.10 | 24.45 | 24.90 | 13.45 | 88.35 | 10.20 | 14.80 | 26.20 | 35.60 | 9.90 | 21.75 | 4.25 | 3.15 | 4.50 |
| Av. year ago | 21.85 | 15.85 | 17.40 | 7.45 | 82.50 | 6.50 | 13.90 | 25.10 | 28.40 | 7.50 | ..... | 4.50 | 3.00 | 3.95 |
| 5-year (1936-40) Av. | 28.25 | 29.20 | 26.85 | 10.95 | 47.25 | 6.30 | 15.75 | 20.90 | 19.55 | 8.85 | ..... | 4.60 | 3.25 | 4.05 |

(1) Prices based on reports of retail seed dealers to the Division of Agricultural Statistics, Bureau of Agricultural Economics.

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