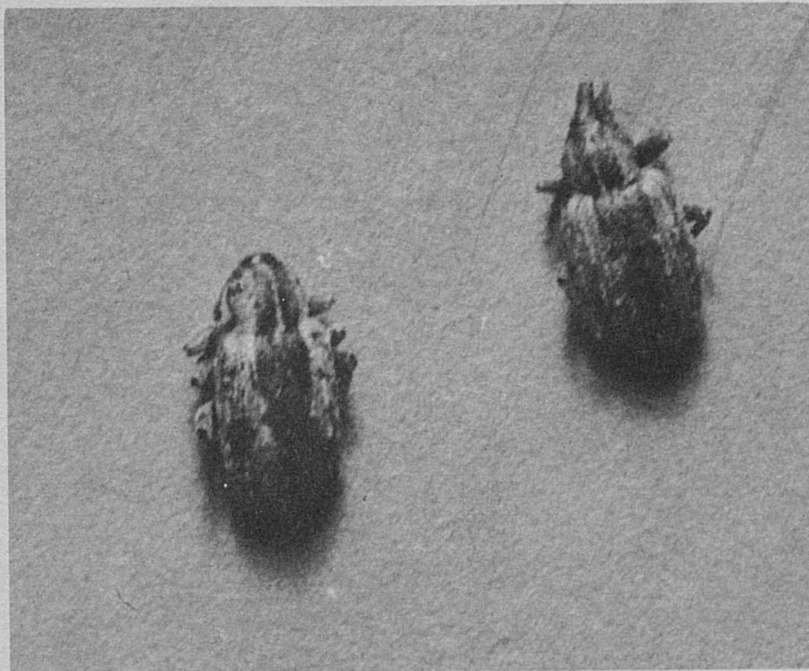


Regulatory Bulletin 187

KENTUCKY  
ECONOMIC POISONS  
REPORT, 1964



Adult Alfalfa Weevil

University of Kentucky  
Agricultural Experiment Station  
Lexington

FEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT STATION

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Robert Mathews, Assistant Administrator and Chief Inspector

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\*Guy P. Zickefoose, Auditor-Inspector

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\*Died April 10, 1964

This report compiled and prepared by Bruce Poundstone and W. J. Huffman  
Analytical data by Laboratory Staff

## COMPANIES LICENSED UNDER KENTUCKY ECONOMIC POISONS LAW IN 1964

Abbott Laboratories, 1400 Sheridan Road, North Chicago, Illinois  
ABC Compounding Company, 3285 Oakcliff Road, N.W., Atlanta, Georgia  
Aceline Products Corporation, 27 Gorham Street, Rochester, New York  
Acme Quality Paints, Inc., 8250 St. Aubin Avenue, Detroit, Michigan  
Aero-Master, Inc., 325 West Pacific Avenue, St. Louis, Missouri  
"Ag" Supply Company, Route 1, Hopkinsville, Kentucky  
Agricultural Specialties, 12200 Denton Drive, Dallas, Texas  
Airkem, Incorporated, 241 East 44th Street, New York, New York  
Airosol Company, Inc., 525 North 11th Street, Neodesha, Kansas  
Alco Chemical Company, 19027 Pioneer Boulevard, Artesia, California  
Allen-Crowl Company, 1559 Allentown Road - Box 627, Lima, Ohio  
Allied Chemical Corp., Gen. Chemical Div., Box 70, Morristown, New Jersey  
Allied Drug Products Company, P. O. Box 871, Chattanooga, Tennessee  
Amchem Products, Ambler, Pennsylvania  
American Agricultural Chemical Company, P. O. Box 130, London, Kentucky  
American Chemical Products of Lansing, 800 Prudden Building, Lansing, Michigan  
American Cyanamid Company, P. O. Box 400, Princeton, New Jersey  
American Cyanamid Co., Household Prod. Dept., 859 Berdan, Wayne, New Jersey  
American Exterminator, Inc., 817 Race Street, Cincinnati, Ohio  
American Mineral Spirits Company, Mountain View Avenue, Murray Hill, New Jersey  
American Oil Company, 910 S. Michigan Avenue, Chicago, Illinois  
American Riverside, Inc., 6417 Manchester Avenue, St. Louis, Missouri  
American Sterilizer Company, 2424 West 23rd Street, Erie, Pennsylvania  
Amway Corporation, 7575 East Fulton Road, Ada, Michigan  
Animal Repellents, 980 Ellicott Street, Buffalo, New York  
The Antimite Company, 319 N. 4th Street, St. Louis, Missouri  
Armour Agricultural Chemical Company, 5184 Broerman Avenue, Cincinnati, Ohio  
Arnold Laboratories, 2039 Madison Ave., Indianapolis, Indiana  
Arnott Chemical & Exterminating Co., 249 Massachusetts Ave., Indianapolis, Indiana  
Asgrow Seed Company, 272 George Street, New Haven, Connecticut  
Associated Sales & Supply Co., 5137 Southwest Avenue, St. Louis, Missouri  
Atla Chemical Company, 415 S. Spring Street, Greensboro, North Carolina  
Atlantic & Pacific Tea Company, 3041 Wilson Avenue, Louisville, Kentucky  
Auto Chlor System, 746 Poplar, Memphis, Tennessee  
Avon Products, Inc., 30 Rockefeller Plaza, New York, New York  
Ayerst Laboratories, Inc., 685 3rd Avenue, New York, New York  
B. T. Babbitt, Inc., 20 Broadway, Albany, New York  
Bacon Products, Inc., P. O. Box 8127, Chattanooga, Tennessee  
Banz Manufacturing Company, Portageville, Missouri  
Bauer & Black, Div. of the Kendall Co., 309 W. Jackson Blvd., Chicago, Illinois  
The Bell Company, Inc., 411 North Walcott, Chicago, Illinois  
Berlou Manufacturing Company, 421 Monroe Street, Marion, Ohio  
Big Four Feed & Implement Company, Maple & Cemetery Sts., Scottsville, Kentucky  
Big Star Foods, P. O. Box 4358, Atlanta, Georgia  
Black Leaf Products Company, 6147 N. Broadway, Chicago, Illinois  
Black Panther Company, Inc., P. O. Box 690, Stanford, North Carolina  
Bluegrass Plant Foods, Inc., 447 North Main Street, Cynthia, Kentucky  
A. Z. Bogert Company, 1000 E. Mermaid Lane, Philadelphia, Pennsylvania  
Bohlender Plant Chemicals, Inc., Tipp City, Ohio  
Bonewitz Chemicals, Inc., 1731 N. Roosevelt Avenue, Burlington, Iowa  
Bonide Chemical Company, 382 N. Genesee Street, Utica, New York  
Borderland Products, Inc., 560 Fulton Street, Buffalo, New York  
The Bourbon Company, P. O. Box 466, Lexington, Kentucky  
Boyer Chemical Company, 1161 Church Street, Evanston, Illinois  
Boyle-Midway, Inc., 685 3rd Avenue, New York, New York  
Brown Manufacturing Company, 1 Church Street, LeRoy, New York  
E. L. Bruce Company, P. O. Box 397, Memphis, Tennessee  
Brulin & Company, Inc., 2939-45 Columbia Avenue, Indianapolis, Indiana

Burley Belt Fertilizer Company, Route 4, Lexington, Kentucky  
Cabell Chemical Company, 101 22nd Street, Huntington, West Virginia  
California Chemical Company, Lucas & Ortho Way, Richmond, California  
Camp Chemical Company, Inc., Second & 13th Streets, Brooklyn, New York  
Carajon Chemical Company, 426 W. Main Street, Fremont, Michigan  
Carbola Chemical Company, Inc., Natural Bridge, New York  
Carbolineum Wood Preserving Company, 6633 N. 40th St., Milwaukee, Wisconsin  
Carson Chemicals, Inc., P. O. Box 288, New Castle, Indiana  
Cato Oil & Grease Company, 915 N. Eastern, Oklahoma City, Oklahoma  
Cenol Company, Inc., 3240 West Chicago Avenue, Chicago, Illinois  
Center Chemical Company, P. O. Box 1888, Atlanta, Georgia  
Central Chemical Corporation, 49 N. Jonathan Street, Hagerstown, Maryland  
Central City Chemicals Company, 3240 W. Chicago Avenue, Chicago, Illinois  
Chambers-Godfrey Manufacturing Co., 302-04 Broadway, Martin, Tennessee  
Chapman Chemical Company, 416 Brooks Rd., Memphis, Tennessee  
Chase Products Company, 19th & Gardner Road, Broadview, Illinois  
Chemagro Corporation, P. O. Box 4913, Kansas City, Missouri  
Chemical Corporation of America, P. O. Box 1480, Sanford, Florida  
Chemical Products Div., Ex-Cell-O Corp., 1143 E. 10 Mile Rd., Madison Heights, Mich.  
Chemistry Hall Laboratories, Inc., P. O. Box 255, Bradenton, Florida  
Chemway Corporation, Fairfield Road, Wayne, New Jersey  
Chipman Chemical Company, Inc., Bound Brook, New Jersey  
John Clarke & Company, Inc., 420 Lexington Avenue, New York, New York  
Clean Home Products, Inc., 2805 Locust Street, St. Louis, Missouri  
W. A. Cleary Corporation, P. O. Box 749, New Brunswick, New Jersey  
Climalene Company, 1022 Ninth Street, S.W., Canton, Ohio  
Clorox Company, P. O. Box 599, Cincinnati, Ohio  
Colgate-Palmolive Company, 300 Park Avenue, New York, New York  
Colonial Products, Inc., 6207 Georgia Avenue, West Palm Beach, Florida  
Combs Associates, Inc., 1630 North Broadway, Lexington, Kentucky  
Comet Manufacturing Company, 1381 Dalon Drive, N.E., Atlanta, Georgia  
Commercial Chemical Company, 1021 Summer Street, Cincinnati, Ohio  
Commercial Solvents Corporation, 1331 South 1st Street, Terre Haute, Indiana  
Common Sense Manufacturing Co., Inc., 1392 Niagara Street, Buffalo, New York  
Consumer Products Div., Union Carbide Corp., 270 Park Avenue, New York, New York  
Cook Chemical Company, 2500 Summitt, Kansas City, Missouri  
Cook Paint & Varnish Company, P. O. Box 389, Kansas City, Missouri  
Wm. Cooper & Nephews, Inc., 1909 North Clifton, Chicago, Illinois  
Cooperative Fertilizer Service, Inc., Box 13065 Camp Taylor Station, Louisville, Ky.  
Coopers Creek Chemical Corporation, River Road, W. Conshohocken, Pennsylvania  
Cowles Chemical Company, 12000 Shaker Boulevard, Cleveland, Ohio  
S. L. Cowley & Sons Manufacturing Co., 708 West McAlester, Hugo, Oklahoma  
Cre-O-Tox Chemical Products Company, 2670 Broad Avenue, Memphis, Tennessee  
Cumberland Manufacturing Company, 501 25th Avenue N., Nashville, Tennessee  
Frank J. Curran Company, 8101 S. Lamont Road, Downers Grove, Illinois  
Cutter Laboratories, Fourth & Parker Streets, Berkeley, California  
C-Z Chemical Company, Inc., 1447 Argall Avenue, Beloit, Wisconsin  
The d-Con Company, Inc., 1450 Broadway, New York, New York  
Dacus Drug Company, Inc., P. O. Drawer 528, Tupelo, Mississippi  
Dameron Enterprises, 1600 S. Floyd Street, Louisville, Kentucky  
Darling & Company, 4201 South Ashland Avenue, Chicago, Illinois  
Darworth, Incorporated, 632 Hopmeadow Street, Simsbury, Connecticut  
Darris Products, Inc., 8731 N. Faraday Street, Denver, Colorado  
Daubert Chemical Company, 4700 South Central Avenue, Chicago, Illinois  
DeKalb Agricultural Association, Inc., 310 North Fifth Street, DeKalb, Illinois  
DeSoto Chemical Company, Inc., North DeSoto Avenue, Arcadia, Florida  
Destruxol Corporation, Ltd., 1450 W. 228th Street, Torrance, California  
Dettelbach Insecticide Corporation, 4103 Peachtree Rd. N.E., Atlanta, Georgia

Dewitt Chemical Company, P. O. Box 343, Atlanta, Georgia  
Diamond Alkali Company, 300 Union Commerce Building, Cleveland, Ohio  
The Dill Company, Washington St. & McKinley Avenue, Norristown, Pennsylvania  
Diversey Corporation, 212 W. Monroe Street, Chicago, Illinois  
Dixi Chemical Company, P. O. Box 1711, Chattanooga, Tennessee  
Dixie Mills Company, 10th & Walnut Streets, E. St. Louis, Illinois  
Douglas Chemical Company, P. O. Box 350, Liberty, Missouri  
The Dow Chemical Company, Midland, Michigan  
The Drackett Products Company, 5020 Spring Grove Avenue, Cincinnati, Ohio  
Dun Win Company, 136 Elm Street, South Williamsport, Pennsylvania  
E. I. duPont de Nemours & Co., 6054 DuPont Building, Wilmington, Delaware  
Economics Laboratory, Inc., 914 Guardian Building, St. Paul, Minnesota  
Elanco Products Company, 740 South Alabama Street, Indianapolis, Indiana  
Electrolux Corporation, 235 E. 42nd Street, New York, New York  
Emery Industries, 4300 Carew Tower, Cincinnati, Ohio  
Empire Laboratories, 700 Marietta Street N.W., Atlanta, Georgia  
Empire Manufacturing Company, 1110 Grand Avenue, Kansas City, Missouri  
Henry A. Enrich & Company, Inc., 6 East 32nd Street, New York, New York  
Erbrich Products Company, 1120 East 32nd Street, Indianapolis, Indiana  
Ethicon, Inc., Route 22, Somerville, New Jersey  
Evans Supply Company, 318 S. Green Street, Glasgow, Kentucky  
E-Z Flo Chemical Company, 317 Baxter Avenue, Louisville, Kentucky  
Fairfield Chemicals, 100 North Niagara, Middleport, New York  
Far-Best Corporation, 6715 McKinley Avenue, Los Angeles, California  
Farnam Companies, 613 N. Central Street, Phoenix, Arizona  
Federal Chemical Company, 646 Starks Building, Louisville, Kentucky  
Federal Chemical Company, Inc., 2701 Winthrop Avenue, Indianapolis, Indiana  
Fischer Products Company, Inc., 5050 Edgewood Court, Jacksonville, Florida  
FMC Corporation, 633 Third Avenue, New York, New York  
Fox Hardware, 19 East Center Street, Madisonville, Kentucky  
The Frank Tea & Spice Company, 538 East Fifth Street, Cincinnati, Ohio  
Franklin Research Company, 5134 Lancaster Avenue, Philadelphia, Pennsylvania  
Frasier Supply Company, 505 W. Main Street, Glasgow, Kentucky  
Frontier Chemical Company, Box 545, Wichita, Kansas  
The Fuller Brush Company, 88 Long Hill Street, East Hartford, Connecticut  
Furst-McNess Company, 120 East Clark Street, Freeport, Illinois  
Garden Products Company, 3246 S. Grand Blvd., St. Louis, Missouri  
Gaston Johnston Corporation, 24-64 45th Street, Long Island City, New York  
Geigy Agricultural Chemicals, P. O. Box 430, Yonkers, New York  
Gerdau Chemical Corporation, 82 Wall Street, New York, New York  
Glamorene, Inc., 175 Entin Road, Clifton, New Jersey  
The Glidden Company, 900 Union Commerce Building, Cleveland, Ohio  
Globe Laboratories, 116 Commerce Street, Fort Worth, Texas  
H. Clay Glover Company, Inc., 1001 Franklin Avenue, Garden City, New York  
Good-Life Chemicals, Inc., 310 South First Street, Effington, Illinois  
Goulard & Olena, Inc., Skillman, New Jersey  
W. R. Grace & Co., Davison Chemical Div., 101 N. Charles St., Baltimore, Md.  
Great Lakes Chemical Corporation, 753 Warner Building, Washington, D. C.  
Greever's, Chilhowie, Virginia  
Earl Grissmer Company, 712 E. 64th Street, Indianapolis, Indiana  
Gro-Greater Chemical Company, Box 132, Shelbyville, Kentucky  
Guarantee Pest Control Company, 23 N. 31-West By-Pass, Bowling Green, Kentucky  
Gulf Oil Corporation, P. O. Box 1519, Houston, Texas  
Guth Chemical Company, 1455 W. Congress Pkwy., Chicago, Illinois  
Hanksraft Company, 728 Booster Blvd., Reedsburg, Wisconsin  
Hardy Salt Company, P. O. Drawer 449, St. Louis, Missouri  
J. M. Harris & Company, Inc., P. O. Box 411, Roanoke, Virginia  
P. F. Harris Mfg. Company, 101 West Eighth, North Little Rock, Arkansas

Harris Products Company, Inc., P. O. Box 4, Miami Beach, Florida  
Harrison Oil Company, Inc., P. O. Box 5585, Milwaukee, Wisconsin  
Hartz Mountain Products Corp., 50 Cooper Square, New York, New York  
Harvest Brand, Inc., Box 46, Pittsburg, Kansas  
Hat-Ra Chemical Company, 1100 North Adams Street, Henderson, Kentucky  
Haver-Lockhart Laboratories, 1915 Broadway, Kansas City, Missouri  
Health-Mor, Inc., 203 North Wabash Avenue, Chicago, Illinois  
Heco, Incorporated, 13000 Athens Avenue, Cleveland, Ohio  
Heller Laboratories, Inc., Calumet Avenue & 40th Street, Chicago, Illinois  
Hercules Powder Company, 910 Market Street, Wilmington, Delaware  
Heritage House Products, Inc., 701 South Front St., Philadelphia, Pennsylvania  
Hess & Clark, Inc., Seventh & Orange Streets, Ashland, Ohio  
Hexol, Incorporated, 1500-17th Street, San Francisco, California  
Hillenmeyer Nurseries, Route #6, Lexington, Kentucky  
Hillyard Sales Company (Eastern) 302 N. 4th Street, St. Joseph, Missouri  
Hilo Products, Inc., 375 Park Avenue, New York, New York  
Hinton & Company, 67 Murray Street, New York, New York  
J. I. Holcomb Manufacturing Co., 1601 Barth Avenue, Indianapolis, Indiana  
Holland Rantos Company, Inc., 393 Seventh Avenue, New York, New York  
R. M. Hollingshead Corporation, 840 Cooper Street, Camden, New Jersey  
Hollywood Termite Control Co., 2221 Poplar Blvd., Alhambra, California  
Hooker Chemical Corporation, P. O. Box 344 - Buffalo Ave., Niagara Falls, New York  
Hopkins Agricultural Chemical Company, 124 S. Dickinson Street, Madison, Wisconsin  
Horizon Industries, Box 3968, Shaker Heights Station, Cleveland, Ohio  
Hot Shot Quality Products, Inc., 701 N. Main Street, Memphis, Tennessee  
Sam Houston Company, P. O. Box 662, Talladega, Alabama  
The Huge Company, Inc., 884 Hodiament Avenue, St. Louis, Missouri  
Hulman & Company Laboratories, 900 Wabash Avenue, Terre Haute, Indiana  
Humble Oil Company, Box 2180, Houston, Texas  
Humco Laboratory, Inc., 1008 Whitaker Street, Texarkana, Texas  
Hunt Manufacturing Company, 2730 Grand Avenue, Cleveland, Ohio  
Hunter Products Corporation, 4307 Belmont Street, Dallas, Texas  
Hutson Chemical Company, Railroad Avenue, Murray, Kentucky  
Hydroponic Chemical Company, Box 97-C, Copley, Ohio  
Hysan Products Co., 919 W. 38th Street, Chicago, Illinois  
Indiana Farm Bureau Coop. Ass'n., 47 S. Pennsylvania St., Indianapolis, Indiana  
Industrial Colloids & Chemicals, 127 W. Jackson Avenue, Knoxville, Tennessee  
Industrial Fumigant Company, 923 State Line, Kansas City, Missouri  
International Minerals & Chemical Corp., Box 15067 Lockland Sta., Cincinnati, Ohio  
International Salt Company, Clarks Summit, Pennsylvania  
Irwin-Willert Company, 4044 Park Avenue, St. Louis, Missouri  
J & F Manufacturing Company, P. O. Box 40205, Houston, Texas  
Jewel Tea Company, Inc., 1955 West North Avenue, Melrose Park, Illinois  
S. C. Johnston & Sons, Inc., 1525 Howe Street, Racine, Wisconsin  
Eck Jones, Route #1, Central City, Kentucky  
Kane Molass Laboratories, Inc., P. O. Box 27, Mt. Pulaski, Illinois  
Carl Kaster Company, 516 W. Main Street, Louisville, Kentucky  
Kentucky Fertilizer Works, Box 595, Winchester, Kentucky  
Kimbell-Diamond Milling Company, P. O. Box 1540, Fort Worth, Texas  
King Chemical Company, 2342 South Lauderdale, Memphis, Tennessee  
Klenzade Products Division, P. O. Box 1020, Beloit, Wisconsin  
H. Kohnstamm & Company, 161 Avenue of the Americas, New York, New York  
Koppers Company, Inc., 430 Park Avenue, New York, New York  
The K-R-O Company, 19½ North Limestone Street, Springfield, Ohio  
H. B. Fred Kuhls, 512-86th Street, Brooklyn, New York  
KVP Sutherland Paper Company, 243 East Paterson Street, Kalamazoo, Michigan  
Lab Automated Chemical Corporation, Howard & West Streets, Baltimore, Md.  
Lamb Products Company, 3728 Hilltop Lane, Nashville, Tennessee

Lang Brothers, 213 Broadway, Paducah, Kentucky  
Dr. L. D. LeGear, Inc., 4161 Beck Avenue, St. Louis, Missouri  
LeHigh Chemical Company, Inc., P. O. Box 31, Louisville, Kentucky  
Lehn & Fink Products Corporation, 445 Park Avenue, New York, New York  
Lester Laboratories, Inc., P. O. Box 4897, Atlanta, Georgia  
Lethelin Products Company, Inc., 15 MacQuesten Parkway South, Mount Vernon, N. Y.  
O. E. Linck Company, 1236 State Highway 46, Clifton, New Jersey  
Louisiana Fortifying & Mixing Plant, Abbeville, Louisiana  
Louisville Chemical Company, 601 East Jefferson Street, Louisville, Kentucky  
McCall Manufacturing Company, Box 145, Jasper, Florida  
McConnon & Company, 25 McConnon Drive, Winona, Minnesota  
McCormick & Company, Inc., 414 Light Street, Baltimore, Maryland  
McKesson Laboratories, P. O. Box 548, Bridgeport, Connecticut  
McLaughlin Gormley King Company, 2107 Fairways Lane, St. Paul, Minnesota  
The Mabex Company, Umbria & Lemonte Streets, Philadelphia, Pennsylvania  
Maloney Chemical Company, 1520 N. Irwin Avenue, Green Bay, Wisconsin  
Mariah Rodenticide Company, Inc., Hi-Way 41, North, Vincennes, Indiana  
Martin-Marietta Company, 901 N. Greenwood Avenue, Kankakee, Illinois  
Masury-Young Company, 76 Roland Street, Boston, Massachusetts  
Me-Hi Enterprises, Inc., 4865 Exposition Blvd., Los Angeles, California  
Charles R. Mehle, 2712 Baker Avenue, Cincinnati, Ohio  
Merck & Company, Inc., Rahway, New Jersey  
Miami Products & Chemical Company, 520 Lonoke Street, Dayton, Ohio  
Michigan Chemical Corporation, 500 N. Bankson Street, Saint Louis, Michigan  
Midland Laboratories, 210-220 Jones Street, Dubuque, Iowa  
Midwest American Aerovap, 1125 University, Des Moines, Iowa  
Miles Laboratories, Inc., 1127 Myrtle Street, Elkhart, Indiana  
Miller Chemical & Fertilizer Corp., 3006 W. Cold Spring Lane, Baltimore, Maryland  
Miller Products Company, 607 Del Monte Way, St. Louis, Missouri  
Mobile Finishes Company, Inc., 901 N. Greenwood Avenue, Kankakee, Illinois  
Monroe Grain Supply, Box 300, Monroe, Indiana  
Monsanto Chemical Company, 800 N. Lindbergh Boulevard, St. Louis, Missouri  
Montgomery Ward & Company, Inc., 10th & Washington Sts., Chicago Heights, Illinois  
E. R. Moore, Georgetown, Kentucky  
Moorman Manufacturing Company, Quincy, Illinois  
Morton Chemical Company, 110 N. Wacker Drive, Chicago, Illinois  
Motomco, Incorporated, 89 Terminal Avenue, Clark, New Jersey  
Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul, Minnesota  
Muncie Laboratories, Inc., 405 East Main Street, Muncie, Indiana  
Murphy Chemical Company, 695 Grand Avenue, Ridgefield, New Jersey  
Edgar A. Murray Company, Electronic Road, Clinton Corners, New York  
Muskin Manufacturing Co., 38 Courtright Street, Wilkes-Barre, Pennsylvania  
Mutual Products Company, 509 N. Fourth Street, Minneapolis, Minnesota  
Myzon Laboratories, 6320 Kansas Avenue, Muncie, Kansas  
Nalco Chemical Company, 6216 W. 66 Place, Chicago, Illinois  
Nash & Kinsella Laboratories, Inc., 3638 Olive Street, St. Louis, Missouri  
National Chemsearch Corporation, Box 10087, Dallas Texas  
National Laboratories Div., 4934 Lewis Avenue, Toledo, Ohio  
National Paint & Oil Company, 3651 Trousdale Drive, Nashville, Tennessee  
H. W. Naylor Company, Morris, New York  
Niagara Chemical Div., FMC Corporation, P. O. Box D, Wyoming, Illinois  
Nip-Co Manufacturing, Inc., 200 Main Street, New Rochelle, New York  
Norcliff Laboratories, P. O. Box 471, Fairfield, Connecticut  
North American Fertilizer Co., Inc., 1419 South Preston St., Louisville, Kentucky  
Northern Industries, Inc., 407 E. Michigan Street, Milwaukee, Wisconsin  
Nott Manufacturing Company, Inc., 200 South Water St., Poughkeepsie, New York  
Nuodex Products Company, 110 E. 42nd Street, New York, New York  
Odor-Aire, Inc., 1708 W. Main Street, Oklahoma City, Oklahoma

Ohio Valley Fertilizer, Inc., Box 799, Maysville, Kentucky  
Olin Mathieson Chemical Corporation, P. O. Box 946, Richmond, Indiana  
Olin Mathieson Chemical Corporation, 745 Fifth Avenue, New York, New York  
One-Spot Company, Jessup, Maryland  
Osborn Sales & Service, 3504 Robin Drive, Louisville, Kentucky  
Osmose Wood Preserving Co., 980 Ellicott Street, Buffalo, New York  
Paper Products, Inc., P. O. Box 5158, Long Beach, California  
Para Industries, Inc., 225 W. 34th Street, New York, New York  
Parke, Davis & Company, Jos. Campau at the River, Detroit, Michigan  
PAX Company, P. O. Box 2310, Salt Lake City, Utah  
Paxton Enterprises, Drawer A, Palcacios, Texas  
Pearson & Company, 155 N. Commerce Street, Mobile, Alabama  
Peck's Products Company, 610 E. Clarence St., St. Louis, Missouri  
S. B. Penick & Company, 100 Church Street, New York, New York  
Wm. Penn Laboratories, 1824 Midland Building, Cleveland, Ohio  
Pennsalt Chemical Corporation, 3 Penn Center Plaza, Philadelphia, Pennsylvania  
Pennsalt of Washington, 2901 Taylor Way, Tacoma, Washington  
Pennsylvania Engineering Company, 1109-21 North Howard St., Philadelphia, Pa.  
Pennsylvania Refining Company, P. O. Box 671, Butler, Pennsylvania  
L. Perrigo Company, 100 Brady Street, Allegan, Michigan  
Pest Guard Products, Inc., 731 West Davis, Dallas, Texas  
Petrolane Gas Service, Inc., 1600 East Hill Street, Long Beach, California  
Pfanstiehl Detergent Chemicals, Inc., 2843 W. 19th Street, Chicago, Illinois  
The Pfeiffer Company, 3965 Laclede Avenue, St. Louis, Missouri  
Chas. Pfizer & Company, 235 East 42nd Street, New York, New York  
Phelan-Faust Paint Manufacturing Co., 932 Loughborough Ave., St. Louis, Missouri  
Phelps Dodge Refining Corporation, 300 Park Avenue, New York, New York  
The Piper Company, Inc., 2152 Yale Avenue, St. Louis, Missouri  
Pitman-Moore Company, Div. Dow Chemical Co., P. O. Box 1656, Indianapolis, Ind.  
Pittsburgh Chemical Laboratory, Century Bldg., 130 7th Street, Pittsburgh, Pa.  
Pittsburgh Plate Glass Company, New Albany Road, Morrestown, New Jersey  
Plantabbs Corporation, Timonium, Maryland  
Plasti-Kote, Inc., 1000 Lake Road, Medina, Ohio  
Plough, Inc., 3022 Jackson Avenue, Memphis, Tennessee  
Polk Miller Products Corporation, 2007 N. Hamilton Street, Richmond, Virginia  
Porter Paint Company, 1320 Cedar Street, Louisville, Kentucky  
B. G. Pratt Company, 204 21st Street, Paterson, New Jersey  
Pratt & Lambert, Inc., 75 Tonawanda Street, Buffalo, New York  
Price Chemical Co., Div. F. S. Royster Guano, P. O. Drawer 1940, Norfolk, Va.  
Private Brands, Inc., 300 South Third Street, Kansas City, Kansas  
The Proctor & Gamble Company, P. O. Box 599, Cincinnati, Ohio  
Protection Products Mfg. Company, 2305 Superior Avenue, Kalamazoo, Michigan  
Purex Corporation, Ltd., 5101 Clark Avenue, Lakewood, California  
Pyrrole Chemical Corporation, 817 Spring Lane, Portsmouth, Ohio  
James E. Quinn Sales, 518 Polk Blvd., Des Moines, Iowa  
Ralston Purina Company, 835 South Eighth Street, St. Louis, Missouri  
The W. T. Rawleigh Company, 223-225 East Main Street, Freeport, Illinois  
W. G. Reardon Laboratories, Inc., 330 N. Main Street, Port Chester, New York  
Reefer-Galler, Inc., 521 Fifth Avenue, New York, New York  
Reilly Tar & Chemical Corp., 1615 Merchants Bank Bldg., Indianapolis, Indiana  
Rex Research Corporation, 600 Montrose Avenue, Toledo, Ohio  
Rexair, Incorporated, 700 N. Wheeling Street, Toledo, Ohio  
Rexall Drug Company, 8480 Beverly Boulevard, Los Angeles, California  
Ricketts Drug Company, 416 Main Street, Carrollton, Kentucky  
Rigo Manufacturing Company, Inc., 638 Benton Avenue, Nashville, Tennessee  
Riley Brothers, Inc., 209 North Main Street, Burlington, Iowa  
Judd Ringer Corporation, 3355 Republic Avenue, Minneapolis, Minnesota  
Riverdale Chemical Company, 220 E. 17th Street, Chicago Heights, Illinois



Allen Robertson & Co., 139 N. First Street, Louisville, Kentucky  
Robeson Preservo Company, 208 Merchants Street, Port Huron, Michigan  
G. S. Robins & Company, 126 Chouteau Avenue, St. Louis, Missouri  
Rodent Control Fund, US Fish & Wildlife Service, UK Ag. Exp. Sta., Lexington, Ky.  
Rohm & Haas Company, 222 W. Washington Square, Philadelphia, Pennsylvania  
Rokeby Chemical Company, Second Street at St. Clair, Marietta, Ohio  
Roman Cleanser Company, 2700 E. McNichols Building, Detroit, Michigan  
Rotenone Products Company, 110 Eaton Place, East Orange, New Jersey  
Royal Appliance Manufacturing Company, 1975 E. 61st Street, Cleveland, Ohio  
I. D. Russell Company Laboratories, 2463 Harrison St., Kansas City, Missouri  
Rust-Oleum Corporation, 2425 Oakton Street, Evanston, Illinois  
Sabine Chemical Company, P. O. Box 1206, Port Arthur, Texas  
Dr. Salsbury's Laboratories, 500 Gilbert Street, Charles City, Iowa  
The Sanfax Company, P. O. Box 604, Atlanta, Georgia  
Sapo Elixir Chemical Company, 9870 Big Bend Boulevard, Kirkwood, Missouri  
Schering Corporation, 60 Orange Street, Bloomfield, New Jersey  
O. M. Scott & Sons Company, Marysville, Ohio  
Seaboard Seed Company, 701 South Front Street, Philadelphia, Pennsylvania  
Sears, Roebuck & Company, Dept. 671, 925 South Homan Ave., Chicago, Illinois  
Seedkem, Inc., 526 N.W. Fourth Street, Evansville, Indiana  
Senoret Chemical Company, 631 Leffingwell Avenue, St. Louis, Missouri  
John Sexton & Company, Box 1531, Indianapolis, Indiana  
Shell Chemical Company, 110 West 51st Street, New York, New York  
Shell Oil Company, 50 West 50th Street, New York, New York  
Sherwin-Williams Company, 8250 St. Aubin Avenue, Detroit, Michigan  
Shulton, Inc., 697 Route 46, Clifton, New Jersey  
The Sinclair Manufacturing Co., 6120 North Detroit Avenue, Toledo, Ohio  
Skasol Corporation, 112 Glencoe Avenue, Webster Grove, Missouri  
Smith Chemical Company, 1113 Clark Avenue, Ames, Iowa  
Smith-Douglas Company, P. O. Box 419, Norfolk, Virginia  
Sno-Bol Company, 22nd & Eldorado Streets, Decatur, Illinois  
Sno-Wash Distributors, 1523 O'Bryne Street, Henderson, Kentucky  
Southern States Cooperative, Inc., 7th & Main Streets, Richmond, Virginia  
A. E. Staley Manufacturing Co., 2200 East Eldorado, Decatur, Illinois  
Stalford Pressure Pak, Inc., 2012 Hammonds Ferry Road, Baltimore, Maryland  
Standard Laboratories, Inc., 201 Tabor Road, Morris Plains, New Jersey  
Standard Oil Company (Ky.), 430 West Bloom Street, Louisville, Kentucky  
Standard Oil Company (Ohio), 1867 Guild Hall Bldg., Cleveland, Ohio  
Standard Packaging Company, 200 East 42nd Street, New York, New York  
Stanley Home Products, Inc., 42 Arnold Street, Westfield, Massachusetts  
Stark Brothers Nurseries & Orchards Company, Louisiana, Missouri  
Stauffer Chemical Company, 380 Madison Avenue, New York, New York  
Stearns Chemical Corporation, 4200 Sycamore Avenue, Madison, Wisconsin  
The Sterling Company, Inc., 2801-05 Locust Street, St. Louis, Missouri  
Sterno, Incorporated, 300 Park Avenue, New York, New York  
Sterwin Chemicals, Inc., 1450 Broadway, New York, New York  
Stim-U-Plant Laboratories, Inc., 2077 Parkwood Avenue, Columbus, Ohio  
J. Strickland & Company, 1400 Ragan Street, Memphis, Tennessee  
Stull Chemical Company, P. O. Box 6386, San Antonio, Texas  
W. R. Sweeney Manufacturing, Inc., 340 South Main, Salisbury, Missouri  
Sweet Feeds Div., Internat'l Milling Co., 1200 Investors Bldg., Minneapolis, Minn.  
Swift & Company, Agricultural Chemical Division, National Stock Yards, Illinois  
Synco-Mist Controls, Inc., 270 Madison Avenue, New York, New York  
Tabtrol Company, 7003 Deerfield Road, Baltimore, Maryland  
Tavolek Laboratories, Camp Hill Road, Fort Washington, Pennsylvania  
Tennessee Corporation, 617-29 Grant Building, Atlanta, Georgia  
Tennessee Corporation, 2521 Glendale-Milford Road, Cincinnati, Ohio  
L. Teweles Seed Company, 222 South 3rd Street, Milwaukee, Wisconsin

Texas Refining Corporation, P. O. Box 711, Fort Worth, Texas  
Texize Chemicals, Inc., 125 Broadus Avenue, Greenville, South Carolina  
Thomas Enterprises, Inc., 4801 South Peoria Avenue, Tulsa, Oklahoma  
Thompson Chemical Corporation, 3028 Locust Street, St. Louis, Missouri  
Thompson-Hayward Chemical Company, P. O. Box 768, Kansas City, Missouri  
Thompson Sanitary Supply, 761 E. Seventh Street, Lexington, Kentucky  
Thuron Industries, Inc., 12200 Denton Drive, Dallas, Texas  
Tobacco States Chemical Company, P. O. Box 479, Lexington, Kentucky  
Triangle Chemical Company, 206 Lower Elm Street, Macon, Georgia  
Tri-County Termite & Pest Control, 506 Ford Street, Corbin, Kentucky  
Trylon Products Corporation, 2750 N. Wolcott Avenue, Chicago, Illinois  
Tull Chemical Company, P. O. Box 246, Oxford, Alabama  
Turco Products, Inc., 24600 Main Street, Wilmington, California  
Tykor Products, Div. Borden Company, 350 Madison Avenue, New York, New York  
Union Carbide Corporation, 270 Park Avenue, New York, New York  
Unit Chemical Corporation, 4161 Redwood Avenue, Los Angeles, California  
United Cooperatives, Inc., 111 Glamorgan Street, Alliance, Ohio  
United States Borax & Chemical Corp., 3075 Wilshire Blvd., Los Angeles, Cal.  
United States Rubber Co., Naugatuck Chemical Div., Elm St., Naugatuck, Conn.  
Universal Milking Machine, First Ave. at College, Albert Lea, Minn.  
The Upjohn Company, 7000 Portage Road, Kalamazoo, Michigan  
R. T. Vanderbilt Company, Inc., 230 Park Avenue, New York, New York  
Vaporette, Inc., 2425 Central Expressway, Dallas, Texas  
Velsicol Chemical Corporation, 330 E. Grand Avenue, Chicago, Illinois  
The Verkamp Corporation, 1920 Losantiville Avenue, Cincinnati, Ohio  
Vestal Laboratories, Inc., 4963 Manchester, St. Louis, Missouri  
Vicrylite Candle Company, P. O. Box 890, Oshkosh, Wisconsin  
Vineland Chemical Sales Corporation, W. Wheat Road, Vineland, New Jersey  
V-C Chemical Company, Murray Rd., St. Bernard Sta., Cincinnati, Ohio  
V-C Chemical Company, 401 East Main Street, Richmond, Virginia  
Virginia Smelting Company, West Norfolk, Virginia  
Walgreen Laboratories, 4300 Peterson Avenue, Chicago, Illinois  
Walton-March, 1592 Deerfield Road, Highland Park, Illinois  
Watkins Products, Inc., 150 Liberty Street, Winona, Minnesota  
Weevil-Cide Company, 1323 Union Avenue, Kansas City, Missouri  
West Chemical Products, Inc., 42-16 West St., Long Island City, New York  
Westchester Veterinary Products, 180 Mamaroneck Avenue, White Plains, New York  
Winn Chemical Company, Box 612, Anniston, Alabama  
Wood Treating Chemical Company, 5137 Southwest Avenue, St. Louis, Missouri  
Woodbury Chemical Co., P. O. Box 788, St. Joseph, Missouri  
Woodlets, Inc., 2048 Niagara Street, Buffalo, New York  
Woolfolk Chemical Works, Ltd., East Main Street, Fort Valley, Georgia  
Worden Manufacturing Company, P. O. Box 525, Grand Island, Nebraska  
Wyandotte Chemicals Corporation, 1609 Biddle Avenue, Wyandotte, Michigan  
Wyeth Laboratories, P. O. Box 8299, Philadelphia, Pennsylvania  
Yopp Seed Company, 300 South Second Street, Paducah, Kentucky  
Zep Manufacturing Corporation, 1310 Seaboard Ind. Blvd., N.W., Atlanta, Georgia

## INTRODUCTION

During the period January 1 through December 31, 1964, 1,024 pesticide samples were analyzed.

## LABELING REQUIREMENTS

Chemicals that require registration under the Kentucky Economic Poisons Law must bear a label stating directions for use, which if complied with, are considered adequate for the protection of the public. With few exceptions, the label must contain a warning or caution statement, designed to prevent injury to man and other vertebrate animals, vegetation, or other useful living things.

The label of the product must also contain a guaranteed analysis which shows either the name and percentage of each active ingredient together with the total percentage of the inert ingredients or the names of each active ingredient in the descending order of their percentages together with the name of each and the total percentage of the inert ingredients. The ingredient statement of any product may be of either form except in the case of compounds which are highly toxic to man. The ingredient statement for products containing highly toxic compounds must list the name and percentage of each active ingredient. Highly toxic materials may also be required to be colored or discolored for the protection of the public health.

The label provides the public with information on the uses of and the precautions to be taken in the use of all economic poisons sold in Kentucky.

The name and address of the manufacturer, the net weight or measure of the contents of any package or bottle and the brand or trade mark under which the product is sold must appear on the label.

## FIELD INSPECTION

In order to adequately enforce the provision of the act, field inspectors are authorized to collect samples of economic poisons and devices and to enter into any car, warehouse, store, etc., supposed to contain economic poisons or devices, for the purpose of inspection or sampling. They are also authorized to issue and enforce a written or printed stop sale or removal order on a lot of economic poison when the material being offered for sale is in violation of any of the provisions of the Kentucky Economic Poisons Law and to hold this material at a designated place.

Field inspectors are in a position to explain the various aspects of the Kentucky Economic Poisons Law so that dealers and users of pesticide products will have an understanding of this act.

## FERTILIZER-PESTICIDE MIXTURES

An important group of specialty products are the products in which an insecticide, herbicide, or other economic poison is incorporated into a fertilizer. Because of the nature of these products, special regulations are employed in their registration. For example, an insecticide incorporated into a fertilizer is manufactured usually to be applied to the ground and, therefore, will be effective only against certain soil-inhabiting pests. Another inherent restriction in the use of these products may be in the method or in the time of application of either of the component parts of the product.

## EXPLANATION OF TABLES

The following tables are compiled by active ingredient. Manufacturers are listed alphabetically above their respective products. The examinations reported are official samples of pesticide products offered for sale in Kentucky.

Of the samples reported, 104 samples were found to be deficient in one or more of the active ingredients guaranteed. Twenty products were not registered when the sample was taken and four samples were of products that were mislabeled.

The symbols in the right hand column of each table have the following meaning:

- P (Passed) denotes the amount of active ingredient found was not significantly at variance from the amount guaranteed.
- D (Deficient) denotes the amount of active ingredient found was significantly below the amount guaranteed.
- X (Not registered) denotes the product was not registered in Kentucky at the time the sample was taken.
- M (Mislabeled) denotes the product did not meet the label requirements in all respects.

## ANALYSES OF ALDRIN IN FERTILIZER

Registrant Product	Aldrin		Remarks
	Guarantee %	Found %	
AMERICAN AGRICULTURAL CHEMICAL COMPANY			
4-9-3 Sulfate with Aldrin	0.10	0.12	X
Do	0.10	0.04	DX
Do	0.10	0.01	D
4-16-4 Sulfate with Aldrin	0.30	0.27	P
Do	0.30	0.26	P
Do	0.30	0.38	P
Do	0.30	0.24	P
Do	0.30	0.30	P
Do	0.30	0.42	P
Do	0.20	0.05	DM
Do	0.30	0.33	P
Do	0.30	0.28	P
Do	0.30	0.25	P
Do	0.30	0.19	D
5-10-15 Sulfate with Aldrin	0.15	0.09	D
Do	0.15	0.08	D
Do	0.30	0.36	P
6-6-18 Sulfate with Aldrin	0.15	0.11	D
8-8-18 Sulfate with Aldrin	0.15	0.17	P
10-6-4 Muriate with Aldrin	0.30	0.22	D
ARMOUR AGRICULTURAL CHEMICAL COMPANY			
5-10-15 Sulfate with Aldrin	0.15	0.05	D
Do	0.15	0.09	D
Do	0.15	0.22	P
Do	0.15	0.15	P
6-12-12 Muriate with Aldrin	0.25	0.26	P
Do	0.15	0.05	DX
Do	0.50	0.57	M
6-12-18 Sulfate with Aldrin	0.15	0.09	D
BLUEGRASS PLANT FOODS, INC.			
4-16-4 Sulfate with Aldrin	0.31	0.19	D
Do	0.31	0.31	P
Do	0.31	0.27	P
Do	0.31	0.32	P
Do	0.31	0.33	P
5-10-15 Sulfate with Aldrin	0.15	0.08	D
6-6-18 Sulfate with Aldrin	0.20	0.12	D
Do	0.20	0.21	P
6-8-6 Sulfate with Aldrin	1.00	0.76	D
Do	1.00	0.75	D
6-12-18 Sulfate with Aldrin	0.15	0.20	P
Do	0.15	0.11	D
Do	0.15	0.31	P
BURLEY BELT FERTILIZER COMPANY			
3-9-6 Sulfate with Aldrin	0.15	0.16	P
4-16-4 Sulfate with Aldrin	0.30	0.25	P
Do	0.30	0.27	P

(Continued)

## ANALYSES OF ALDRIN IN FERTILIZER (Cont'd.)

Registrant Product	Aldrin		Remarks
	Guarantee %	Found %	
BURLEY BELT FERTILIZER COMPANY (Continued)			
4-16-4 Sulfate with Aldrin	0.30	<u>0.16</u>	D
5-10-15 Sulfate with Aldrin	0.15	<u>0.16</u>	P
6-6-18 Sulfate with Aldrin	0.30	0.33	P
COOPERATIVE FERTILIZER SERVICE			
4-16-4 Sulfate with Aldrin	0.31	0.30	P
Do	0.31	0.28	P
Do	0.31	0.30	P
Do	0.31	0.33	P
Do	0.31	0.30	P
Do	0.31	0.31	P
Do	0.31	0.34	P
Do	0.31	0.35	P
Do	0.31	0.33	P
Do	0.31	0.30	P
Do	0.31	0.32	P
Do	0.31	0.33	P
Do	0.31	0.31	P
Do	0.31	0.31	P
5-10-15 Sulfate with Aldrin	0.15	0.18	P
Do	0.15	0.16	P
Do	0.15	0.13	P
Do	0.15	<u>0.10</u>	D
Do	0.15	<u>0.14</u>	P
5-15-5 Muriate with Aldrin	0.50	<u>0.37</u>	D
10-10-10 Muriate with Aldrin	0.40	<u>0.40</u>	P
Do	0.50	0.61	P
FEDERAL CHEMICAL COMPANY			
4-16-4 Sulfate with Aldrin	0.18	0.18	P
Do	0.18	<u>0.14</u>	D
Do	0.18	<u>0.12</u>	D
Do	0.18	<u>0.06</u>	D
Do	0.18	<u>0.04</u>	D
Do	0.18	<u>0.02</u>	D
5-10-15 Sulfate with Aldrin	0.15	0.22	P
Do	0.15	<u>0.07</u>	D
Do	0.15	0.12	P
Do	0.15	0.19	P
Do	0.15	0.17	P
6-6-18 Sulfate with Aldrin	0.15	0.12	P
6-12-12 Muriate with Aldrin	0.50	<u>0.26</u>	D
Do	0.50	<u>0.32</u>	D
9-10-15 Sulfate with Aldrin	0.15	0.15	P
Do	0.15	0.19	P
GLASGOW FERTILIZER COMPANY			
4-16-4 Sulfate with Aldrin	0.31	0.34	P
Do	0.31	0.37	P

(Continued)

## ANALYSES OF ALDRIN IN FERTILIZER (Cont'd)

Registrant Product	Aldrin		Remarks
	Guarantee %	Found %	
W.R. GRACE & COMPANY, DAVISON CHEM. DIV.			
4-16-4 Sulfate with Aldrin	0.31	<u>0.16</u>	<u>D</u>
Do	0.31	0.28	P
Do	0.31	<u>0.13</u>	<u>D</u>
Do	0.31	<u>0.17</u>	<u>D</u>
4-16-16 Muriate with Aldrin	0.50	0.40	P
5-10-15 Sulfate with Aldrin	0.15	0.13	P
Do	0.15	<u>0.11</u>	<u>D</u>
Do	0.15	<u>0.10</u>	<u>D</u>
Do	0.15	<u>0.07</u>	<u>DM</u>
GRO-GREEN CHEMICAL COMPANY, INC.			
4-16-4 Sulfate with Aldrin	0.31	0.31	P
Do	0.31	0.33	P
8-10-15 Sulfate with Aldrin	0.15	0.23	P
Custom Mix with Aldrin		0.14	P
Custom Mix with Aldrin	0.35	0.34	P
Custom Mix with Aldrin	0.07	0.08	P
HUTSON CHEMICAL COMPANY			
Custom Mix with Aldrin	0.35	<u>0.22</u>	<u>D</u>
INTERNATIONAL MINERAL & CHEMICAL CORP.			
4-16-4 Sulfate with Aldrin	0.20	0.19	P
Do	0.20	0.22	P
Do	0.31	0.27	P
Do	0.31	0.47	P
5-10-15 Sulfate with Aldrin	0.15	<u>0.11</u>	<u>D</u>
10-10-10 Sulfate with Aldrin	0.25	<u>0.15</u>	<u>D</u>
KENTUCKY FERTILIZER WORKS, INC.			
0-20-20 Muriate with Aldrin	0.15	<u>0.09</u>	<u>D</u>
4-16-4 Sulfate with Aldrin	0.31	<u>0.25</u>	<u>P</u>
Do	0.31	0.30	P
Do	0.31	0.31	P
5-10-15 Sulfate with Aldrin	0.15	0.10	<u>D</u>
Do	0.15	<u>0.10</u>	<u>D</u>
10-10-10 Muriate with Aldrin	0.15	0.12	P
Custom Mix with Aldrin	0.24	0.26	P
Custom Mix with Aldrin	0.24	0.26	P
OHIO VALLEY FERTILIZER INC.			
4-16-4 Sulfate with Aldrin	0.31	0.27	P
5-10-15 Sulfate with Aldrin	0.15	0.16	P
5-10-20 Sulfate with Aldrin	0.15	0.13	P
10-10-20 Sulfate with Aldrin	0.15	0.12	P
PRICE CHEM. CO. - div.-F.S. ROYSTER GUANO CO.			
4-16-4 Sulfate with Aldrin	0.31	0.29	P
Do	0.31	<u>0.23</u>	<u>D</u>

(Continued)

## ANALYSES OF ALDRIN IN FERTILIZER (Cont'd.)

Registrant Product	Aldrin		Remarks
	Guarantee %	Found %	
PRICE CHEM. CO. - div. - F.S. ROYSTER GUANO CO.			
4-16-4 Sulfate with Aldrin	0.31	<u>0.19</u>	<u>D</u>
Do	0.31	<u>0.22</u>	<u>D</u>
TENNESSEE CORPORATION			
4-16-4 Sulfate with Aldrin	0.16	0.13	P
Do	0.16	0.15	P
5-10-15 Sulfate with Aldrin	0.16	<u>0.08</u>	<u>D</u>
Do	0.16	<u>0.11</u>	<u>D</u>
V-C CHEMICAL COMPANY			
4-12-8 Muriate with Aldrin	0.50	<u>0.14</u>	<u>D</u>
4-16-4 Sulfate with Aldrin	0.31	<u>0.30</u>	<u>P</u>
Do	0.31	<u>0.11</u>	<u>D</u>
Do	0.31	<u>0.15</u>	<u>D</u>
Do	0.31	<u>0.20</u>	<u>D</u>
Do	0.31	<u>0.17</u>	<u>D</u>
Do	0.31	<u>0.27</u>	<u>P</u>
Do	0.31	0.34	P
Do	0.31	<u>0.12</u>	<u>D</u>
Do	0.31	<u>0.16</u>	<u>D</u>
5-10-15 Sulfate with Aldrin	0.15	<u>0.17</u>	<u>P</u>
Do	0.15	<u>0.07</u>	<u>D</u>
Do	0.15	<u>0.06</u>	<u>D</u>
Do	0.15	<u>0.07</u>	<u>D</u>
Do	0.15	<u>0.02</u>	<u>D</u>
6-12-18 Sulfate with Aldrin	0.30	<u>0.16</u>	<u>D</u>
6-18-12 Sulfate with Aldrin	0.15	<u>0.09</u>	<u>D</u>

## ANALYSES OF DIELDRIN IN FERTILIZER

Registrant Product	Dieldrin		Remarks
	Guarantee %	Found %	
ARMOUR AGRICULTURAL CHEMICAL COMPANY			
4-16-4 Sulfate with Dieldrin	0.18	None*	<u>DM</u>
Do	0.18	0.17	P
Do	0.18	0.25	P
5-10-5 Sulfate with Dieldrin	0.18	<u>0.12</u>	<u>D</u>
Do	0.18	<u>0.24</u>	<u>P</u>
Do	0.18	<u>0.06</u>	<u>D</u>
Do	0.18	0.17	P
Do	0.18	<u>0.14</u>	<u>D</u>
Do	0.18	<u>0.07</u>	<u>D</u>
Do	0.18	0.18	P

\* Contained 0.37% Aldrin

(Continued)



## ANALYSES OF DIELDRIN IN FERTILIZER (Cont'd.)

Registrant Product	Dieldrin		Remarks
	Guarantee %	Found %	
ARMOUR AGRICULTURAL CHEMICAL COMPANY (Cont'd.)			
5-10-5 Sulfate with Dieldrin	0.18	0.26	P
Do	0.18	0.05	D
Do	0.18	0.25	P
Do	0.18	0.25	P
Do	0.18	0.30	P

## ANALYSES OF HEPTACHLOR IN FERTILIZER

Registrant Product	Heptachlor		Remarks
	Guarantee %	Found %	
AMERICAN AGRICULTURAL CHEMICAL CO.			
0-9-27 with Borax and Heptachlor	0.20	0.17	X
SADLER FERTILIZER COMPANY			
6-24-24 Muriate with Heptachlor	0.50	None*	DX

\* Contains 1.8% Aldrin

## ANALYSES OF PRODUCTS CONTAINING DACTHAL

Registrant Product	Dacthal		Remarks
	Guaranteed %	Found %	
DIAMOND ALKALI COMPANY			
Dacthal W-75	75.0	73.2	P
Do	75.0	76.5	P

## ANALYSES OF PRODUCTS CONTAINING DDT

Registrant Product	DDT		Remarks
	Guaranteed %	Found %	
TOBACCO STATES CHEMICAL COMPANY			
DDT #2	23.0	26.5	P

## ANALYSES OF PRODUCTS CONTAINING DDVP

Registrant Products	DDVP		Remarks
	Guaranteed %	Found %	
BACON PRODUCTS COMPANY, INC. Flipo Special Fly Bait	0.50	0.51	<u>X</u>
E. JOSEPH COSSMAN & COMPANY Cossman Fly Cake	0.25	<u>0.06</u>	<u>D</u>
Do	0.25	<u>0.02</u>	<u>D</u>
THE FARNAM COMPANY Farnam Die-Fly 3-Way Sugar-Base Fly Killer	0.50	0.60	P
Do	0.50	0.79	P
LEHIGH CHEMICAL COMPANY, INC. Expel Fly Cake	0.25	0.34	P
Do	0.25	0.36	P
Do	0.25	0.37	P
RIGO MANUFACTURING COMPANY Kill-Ko Fly Cake	0.25	0.34	P
Do	0.25	0.52	P
New Kill-Ko Fly Cake	0.25	0.32	P
Do	0.50	0.46	P
Kill Ko Sugar Base Fly Bait	0.50	0.51	P
UNITED COOPERATIVES, INC. Unico DDVP Face Fly Syrup	0.20	0.16	P
Do	0.20	0.15	P
Do	0.20	0.15	P
Unico DDVP Fly Syrup	0.50	0.61	P
Unico DDVP Stock Spray	0.92	1.80	P
Do	0.92	1.72	P
WHITMOYER LABORATORIES, INC. Whitmor Fly-Stick	0.25	<u>0.11</u>	<u>DX</u>

## ANALYSES OF PRODUCTS CONTAINING ENDOSULFAN (THIODAN)

Registrant Product	ENDOSULFAN (THIODAN)		Remarks
	Guaranteed %	Found %	
E-Z FLO CHEMICAL COMPANY E-Z Flo Thiodan	24.0	23.8	P
Do	24.0	24.5	P
Do	24.0	24.0	P
UNITED COOPERATIVES, INC. Unico Thiodan Emulsifiable Concentrate	22.80	22.0	P

## ANALYSES OF PRODUCTS CONTAINING FERBAM

Registrant Products	FERBAM		Remarks
	Guaranteed %	Found %	
E. I. DU PONT DE NEMOURS & COMPANY, INC. Fermate	76.0	74.9	P

## ANALYSES OF PRODUCTS CONTAINING MANEB

Registrant Products	MANEB		Remarks
	Guaranteed %	Found %	
E. I. DU PONT DE NEMOURS & COMPANY, INC. Maneb	80.0	69.4	D

## ANALYSES OF PRODUCTS CONTAINING MH - 30

Registrant Products	MH - 30		Remarks
	Guaranteed %	Found %	
UNITED STATES RUBBER CO., NAUGATUCK CHEM. DIV. MH -30 Plant Growth Inhibitor	30.0	30.5	P
Do	30.0	30.4	P
Do	30.0	30.0	P
Do	30.0	30.7	P
Do	30.0	30.4	P
Do	30.0	30.4	P
Do	30.0	30.8	P
Do	30.0	30.0	P
Do	30.0	30.3	P

## ANALYSES OF PRODUCTS CONTAINING SESONE

Registrant Product	SESONE		Remarks
	Guaranteed %	Found %	
AMCHEM PRODUCTS COMPANY Sesone	90.0	89.0	P

## ANALYSES OF PRODUCTS CONTAINING SEVIN

Registrant Products	SEVIN		Remarks
	Guaranteed %	Found %	
ACME QUALITY PAINTS, INC. Acme Sevin 50W	50.0	50.7	P
AGRICULTURAL SUPPLY COMPANY Sevin - 5 - Dust	05.0	05.2	P
Do	05.0	06.2	P
CABELL CHEMICAL COMPANY Cabell's Sevin Dust	02.0	02.1	<u>X</u>
CENTRAL CHEMICAL CORPORATION Farmrite Sevin 50-W	50.0	48.9	P
Do	50.0	52.8	P
CHEMICAL FORMULATORS, INC. Chemform Brand Sevin Garden Dust	03.0	<u>02.2</u>	<u>DX</u>
E-Z FLO CHEMICAL COMPANY E-Z Flo Dust #2S	02.0	<u>0.85</u>	<u>D</u>
Do	02.0	<u>0.77</u>	<u>D</u>
E-Z Flo Dust #5S	05.0	05.1	P
Do	05.0	04.5	P
Do	05.0	05.3	P
E-Z Flo Sevin 50	50.0	51.5	P
J.M. HARRIS & CO., INC. New Blue Dragon	02.0	02.1	P
Do	02.0	02.4	P
Do	02.0	02.2	P
Copper Dragon	02.0	02.1	P
SAM HOUSTON COMPANY Houston's Sevin 1.75 Bean Dust	1.75	1.79	P
LOUISVILLE CHEMICAL COMPANY Creal-O Sevin 5 Dust	05.0	05.6	<u>X</u>
MILLER CHEMICAL & FERTILIZER CORP. Miller Sevin 50% Wettable Powder	50.0	47.6	<u>X</u>
Do	50.0	50.8	<u>X</u>
Do	50.0	49.9	<u>X</u>
RIGO MANUFACTURING COMPANY Kill-Ko Vegetable Dust	05.0	04.7	P
Do	05.0	06.7	P
Kill-Ko 80% Sevin Wettable	80.0	83.5	<u>X</u>
SOUTHERN STATES COOPERATIVE, INC. Statesman 3% Sevin Dust	03.0	03.2	P
Do	03.0	03.2	P
Do	03.0	03.3	P
Statesman Bean and Potato Dust	05.0	05.8	P

(Continued)

## ANALYSES OF PRODUCTS CONTAINING SEVIN (Cont'd.)

Registrant Product	SEVIN		Remarks
	Guaranteed %	Found %	
TOBACCO STATES CHEMICAL COMPANY			
Tobacco States 1 3/4% Bean Dust	1.75	1.58	P
Do	1.75	<u>1.15</u>	<u>D</u>
Do	1.75	<u>1.21</u>	<u>D</u>
Tobacco States Flea Beetle Dust	5.00	<u>4.10</u>	<u>D</u>
Tobacco States Vegetable Dust	5.00	<u>4.20</u>	<u>D</u>
Tobacco States 50% Wettable Powder	50.00	50.20	P
Do	50.00	50.90	P
UNITED CO-OPERATIVES, INC.			
Unico Sevin Dust	3.00	3.20	P
Unico Sevin Spray Powder	50.00	51.50	<u>X</u>

## ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE

Registrant Product	SODIUM HYPOCHLORITE		Remarks
	Guaranteed %	Found %	
BONEWITZ CHEMICALS INC.			
Bonchem Liquid Chlorine Disinfectant	10.9	5.92	<u>DX</u>
THE CLOROX COMPANY			
Clorox Bleach	5.25	5.30	P
Do	5.25	5.32	P
Do	5.25	5.29	P
Do	5.25	5.25	P
Do	5.25	5.10	P
Do	5.25	5.10	P
Do	5.25	5.11	P
Do	5.25	5.09	P
Do	5.25	4.99	P
Do	5.25	4.91	P
Do	5.25	5.15	P
Do	5.25	5.20	P
COLONIAL STORES, INC.			
3 D Bleach	5.25	<u>4.60</u>	<u>DX</u>
CUMBERLAND MANUFACTURING COMPANY			
Bri-Tex Bleach	5.25	<u>4.44</u>	<u>D</u>
Do	5.25	<u>2.90</u>	<u>D</u>
Do	5.25	<u>5.26</u>	<u>P</u>
DELTOX CHEMICAL COMPANY			
Stawite	5.00	4.90	P
Do	5.00	5.10	P

(Continued)

## ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE (Cont'd.)

Registrant Product	SODIUM HYPOCHLORITE		Remarks
	Guaranteed %	Found %	
DELTOX CHEMICAL COMPANY (Continued)			
Del-Tox Bleach	5.0	5.37	P
Do	5.0	4.51	P
DIVERSEY CORPORATION			
New Diversey Diversol CX	3.25	3.53	<u>X</u>
FISCHER PRODUCTS COMPANY, INC.			
White Arrow Bleach	5.25	5.24	P
Do	5.25	5.22	P
GREAT ATLANTIC & PACIFIC TEA COMPANY			
Bright Sail Brand Laundry Bleach	5.25	5.31	P
Do	5.25	5.41	P
Do	5.25	5.50	P
Do	5.25	5.46	P
Do	5.25	5.38	P
HOUCHENS			
Our Special Bleach	5.25	<u>4.56</u>	<u>D</u>
Do	5.25	<u>4.55</u>	<u>D</u>
KLENZADE PRODUCTS			
Klenzade X-4 Liquid Bactericide	6.40	6.47	P
Do	6.40	<u>3.31</u>	<u>D</u>
Klenzade XY-12	10.20	10.56	P
THE KROGER COMPANY			
Kroger Kandu Bleach	5.25	5.33	P
Do	5.25	4.95	P
Do	5.25	5.31	P
Do	5.25	5.29	P
Do	5.25	4.93	P
THE MIAMI PRODUCTS & CHEMICAL COMPANY			
Jack and Jill	5.25	<u>3.88</u>	<u>D</u>
NOVEL WASH COMPANY			
Novel Bleach	5.25	<u>4.60</u>	<u>DX</u>
PARKVIEW I.G.A.			
Little Skipper Laundry Bleach & Cleaner	5.25	<u>3.40</u>	<u>D</u>
Do	5.25	<u>4.74</u>	<u>D</u>
Do	5.25	5.02	P
PENNSALT CHEMICALS CORPORATION			
B-K Chlorine-Bearing Liquid Bactericide	5.25	4.92	P
PFANSTIEHL DETERGENT CHEMICAL, INC.			
Surge Zinicin Chlorinated Sanitizer	12.50	<u>8.02</u>	<u>D</u>

(Continued)

## ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE (Cont'd.)

Registrant Product	SODIUM HYPOCHLORITE		Remarks
	Guaranteed %	Found %	
PUREX CORPORATION, LTD.			
Fleecy White Liquid Bleach	5.25	4.87	P
Do	5.25	5.24	P
Do	5.25	4.94	P
Do	5.25	5.40	P
Do	5.25	5.70	P
Do	5.25	5.34	P
Purex Bleach	5.25	4.77	P
Do	5.25	4.81	P
Do	5.25	5.13	P
Do	5.25	5.19	P
Do	5.25	5.23	P
Do	5.25	5.44	P
Do	5.25	5.28	P
Do	5.25	5.85	P
Do	5.25	5.16	P
Do	5.25	4.96	P
Do	5.25	5.37	P
Do	5.25	<u>4.24</u>	<u>D</u>
Do	5.25	<u>4.66</u>	<u>D</u>
Do	5.25	<u>4.45</u>	<u>D</u>
ROBERT ORR & COMPANY			
Roco Bleach	5.25	<u>4.22</u>	<u>DX</u>
ROMAN CLEANSER COMPANY			
Roman Cleanser Bleach	5.25	5.37	P
Do	5.25	5.47	P
Do	5.25	5.70	P
Do	5.25	5.57	P
Do	5.25	5.38	P
Do	5.25	5.05	P
Do	5.25	5.37	P
Do	5.25	5.52	P
Do	5.25	5.79	P
Do	5.25	<u>1.04</u>	<u>D</u>
Do	5.25	<u>5.60</u>	<u>P</u>
Do	5.25	1.00	<u>D</u>
Do	5.25	<u>0.38</u>	<u>D</u>
Do	5.25	6.12	P
Do	5.25	6.25	P
Do	5.25	<u>1.85</u>	<u>D</u>
THE SINCLAIR MANUFACTURING COMPANY			
Sunrae	5.25	5.73	P
Do	5.25	5.86	P
White Monday Bleach	5.25	5.32	P
Do	5.25	5.73	P
Do	5.25	5.86	P
Do	5.25	5.68	P
Do	5.25	5.07	P

(Continued)

## ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE (Cont'd.)

Registrant Product	SODIUM HYPOCHLORITE		Remarks
	Guaranteed %	Found %	
THE SINCLAIR MANUFACTURING COMPANY (Continued)			
White Monday Bleach	5.25	4.86	P
Do	5.25	5.68	P
Do	5.25	5.85	P
Do	5.25	<u>4.45</u>	<u>D</u>
TEXIZE CHEMICALS, INC.			
Texize Bleach	5.25	5.33	P
Do	5.25	<u>4.43</u>	<u>D</u>
UNIVERSAL MILKING MACHINE DIVISION NATIONAL COOPERATIVES, INC.			
Chlor-O-San Sodium Hypochlorite Bactericide	6.40	6.52	P
Do	6.40	<u>4.42</u>	<u>D</u>
Do	6.40	<u>5.73</u>	<u>D</u>
Do	6.40	<u>5.62</u>	<u>D</u>
Do	6.40	6.50	P
Do	6.40	6.47	P
Do	6.40	6.44	P
Do	6.40	<u>5.39</u>	<u>D</u>

## ANALYSES OF PRODUCTS CONTAINING WARFARIN

Registrant Product	WARFARIN		Remarks
	Guaranteed %	Found %	
CALE CHEMICAL COMPANY			
Kilz Rat & Mouse Killer	0.025	0.022	P
THE D-CON COMPANY, INC.			
d-Con Pellets Exclusive Blend LX 3-2-1	0.025	0.022	P
GOOD-LIFE CHEMICALS, INC.			
Good-Life Rat Dume	0.025	0.022	P
HYDROPONIC CHEMICAL COMPANY			
Raponex Warfarin Mouse Killer Bait	0.025	0.024	P
THE PIPER COMPANY, INC.			
Paket Brand Warfarin Mouse & Rat Bait	0.025	0.021	P
UNITED CO-OPERATIVES, INC.			
Unico Prolin Rat & Mouse Killer Pellets	0.025	0.025	P



## ANALYSES OF PRODUCTS CONTAINING ZINEB

Registrant Product	ZINEB		Remarks
	Guaranteed %	Found %	
ACME QUALITY PAINTS, INC. Acme Zineb 75 W	75.0	79.9	P
E.I. DU PONT DE NEMOURS & COMPANY, INC. Parzate C	75.0	83.4	P
Do	75.0	78.6	P
TOBACCO STATES CHEMICAL COMPANY, INC. Tobacco States Dithane Z-78	65.0	81.3	P

## ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
HOT SHOT QUALITY PRODUCTS, INC. Hot Shot Fly Bait			
DDVP	0.50	0.72	P
Malathion	1.00	*	
Do			
DDVP	0.50	0.47	P
Malathion	1.00	*	
Do			
DDVP	0.50	0.42	P
Malathion	1.00	*	
Do			
DDVP	0.50	0.48	P
Malathion	1.00	*	
RALSTON PURINA COMPANY Purina Fly Checkers			
DDVP	0.25	0.24	P
Dipterex	1.00	*	
Do			
DDVP	0.25	0.28	P
Dipterex	1.00	*	
Do			
DDVP	0.25	0.06	<u>D</u>
Dipterex	1.00	*	
Do			
DDVP	0.25	0.25	P
Dipterex	1.00	*	
UNITED COOPERATIVES, INC. Unico Kill Fly			
DDVP	0.50	0.47	P
Malathion	1.00	*	

\* Product not analyzed for this ingredient.

## KENTUCKY ECONOMIC POISON LAW

An act concerning regulation of the manufacture, sale, transportation, distribution and use of economic poisons and devices including fungicides, rodenticides and herbicides.

217.540 Definitions for KRS 217.540 to 217.640. As used in KRS 217.540 to 217.640, unless the context requires otherwise:

- (1) "Economic poison" means any substance or mixture of substances intended for preventing, destroying, repelling or mitigating any insects, rodents, fungi, bacteria, weeds or other form of plant or animal life or viruses (except viruses on or in living man or other animals) which the Director shall declare to be a pest;
- (2) "Device" means any instrument or contrivance intended for trapping, destroying, repelling or mitigating insects or rodents or destroying, repelling or mitigating fungi, bacteria or weeds, or such other pests as may be designated by the Director, but not including simple mechanical devices such as rat traps or equipment used for the application of economic poisons when sold separately therefrom;
- (3) "Insecticide" means any substance or mixture of substances intended for preventing, destroying, repelling or mitigating any insects which may be present in any environment whatsoever;
- (4) "Fungicide" means any substance or mixture of substances intended for preventing, destroying, repelling or mitigating any fungi or plant disease;
- (5) "Rodenticide" means any substance or mixture of substances intended for preventing, destroying, repelling or mitigating rodents or any other vertebrate animal which the Director shall declare to be a pest;
- (6) "Herbicide" means any substance or mixture of substances intended for preventing, destroying, repelling or mitigating any weed;
- (7) "Weed" means any plant which grows where not wanted;
- (8) "Insect" means any of the numerous small invertebrate animals generally having the body more or less obviously segmented, for the most part belonging to the class Insecta, comprising six-legged, usually winged forms as for example, beetles, bugs, bees, flies and to other allied classes of arthropods whose members are wingless and usually have more than six legs, as for example, spiders, mites, ticks, centipedes, and wood lice, also nematodes and other worms, or any other invertebrates which are destructive, constitute a liability, and may be classed as pests;
- (9) "Fungi" means all non-chlorophyll bearing thallophytes (that is, all non-chlorophyll bearing plants of a lower order than mosses and liverworts) as for example, rusts, smuts, mildews, molds, yeasts, bacteria and viruses, except those on or in living man or other animals;
- (10) "Ingredient statement" or "guaranteed analysis statement" means either (1) a statement of the name and percentage of each active ingredient, together with the total percentage of the inert ingredients, in the economic poisons; and in addition, in case the economic poisons contain arsenic in any form, a statement of the percentage of total and water soluble arsenic, each stated as elemental (metallic) arsenic; or (2) a statement of the name of each active ingredient in the descending order of percentages, together with the name of each and total percentage of the inert ingredients, if any there be, in the economic poison (except option one shall apply if the preparation is highly toxic to man, determined as provided in KRS 217.580), and in case the economic poisons contain arsenic in any form a statement of the percentage of total and water soluble arsenic, each stated as elemental (metallic) arsenic;
- (11) "Active ingredient" means an ingredient which will prevent, destroy, repel or mitigate insects, fungi, rodents, weeds or other pests;
- (12) "Inert ingredient" means an ingredient which is not an active ingredient.
- (13) "Antidote" means the most practical immediate treatment in case of poisoning and includes first aid treatment;
- (14) "Person" means any individual, partnership, association, corporation or organized group of persons whether incorporated or not;
- (15) "Director" means the Director of the Kentucky Agricultural Experiment Station;
- (16) "Registrant" means the person registering any economic poison pursuant to the provisions of KRS 217.540 to 217.640;
- (17) "Label" means the written, printed or graphic matter on or attached to, the economic poison or device, or the immediate container thereof, and the outside container or wrapper of the retail package, if any there be, of the economic poison or device;
- (18) "Labeling" means all labels and other written, printed or graphic matter:

- (a) Upon the economic poison or device or any of its containers or wrappers;
  - (b) Accompanying the economic poison or device at any time;
  - (c) To which reference is made on the label or in literature accompanying the economic poison or device, except when accurate, non-misleading reference is made to current official publications of the Kentucky Agricultural Experiment Station, the College of Agriculture of the University of Kentucky, the Department of Agriculture, Labor and Statistics, the Department of Health, or similar Federal institutions or other official agencies of this state or other states when such agencies are authorized to conduct research in the field of economic poisons;
- (19) "Adulterated" means any economic poison the strength or purity of which falls below the professed standard or quality as expressed on labeling or under which it is sold, or any substance of which has been substituted wholly or in part, or any valuable constituent of which has been wholly, or in part, abstracted;
- (20) "Misbranded" shall mean any economic poison or device:
- (a) The labeling of which bears any statement, design or graphic representation relative thereto or to its ingredients which is false or misleading in any particular;
  - (b) Which is an imitation of or is offered for sale under the name of another economic poison;
  - (c) The labeling of which bears any false reference to registration under KRS 217.540 to 217.640;
  - (d) The accompanying label of which does not contain directions for use which are necessary and, if complied with, adequate for the protection of the public;
  - (e) The label of which does not contain a warning or caution statement which may be necessary and, if complied with, adequate to prevent injury to living man and other vertebrate animals, vegetation, and useful invertebrate animals;
  - (f) The label of which does not bear an ingredient statement or guaranteed analysis statement on that part of the immediate container and on the outside container or wrapper, if there be one, through which the ingredient statement or guaranteed analysis statement on the immediate container cannot be clearly read, of the retail package which is presented or displayed under customary conditions of purchase;
  - (g) In which any word, statement, or other information required by or under the authority of KRS 217.540 to 217.640 to appear on the labeling is not prominently placed thereon with such conspicuousness (as compared with other words, statements, designs or graphic matter in the labeling) and in such terms as to render it likely to be read and understood by the ordinary individual under customary conditions of purchase and use; or
  - (h) Which, in the case of insecticide, fungicide or herbicide, when used as directed or in accordance with commonly recognized safe practice, shall be injurious to living man or other vertebrate animals or vegetation, to which it is applied, or to the person applying such economic poison, excepting pests and weeds. (1956 c. 218, 1; effective July 1, 1956)

217.550 Prohibitions relating to the distribution, sale or transportation of economic poisons. It shall be unlawful for any person to distribute, sell or offer for sale within the state or deliver for transportation or transport in intrastate commerce or between points within this state through any point outside this state any of the following:

- (1) Any economic poison which is not registered pursuant to the provisions of KRS 217.570, or any economic poison if any of the claims made for it or any of the directions for its use differ in substances from the representation made in connection with its registration, or if the composition of an economic poison differs from its composition as represented in connection with its registration; provided, that in the discretion of the Director, a change in the labeling or formula of an economic poison may be made, within a registration period, without requiring a re-registration of the product;
- (2) Any economic poison, except in the registrant's or the manufacturer's broken immediate container, unless there is affixed to the container, and to the outside container or wrapper of the retail package, if there be one, through which the required information on the immediate container cannot be clearly read, a label bearing:
  - (a) The name and address of the manufacturer, registrant or person for whom manufactured;
  - (b) The name, brand or trade-mark under which said article is sold; and
  - (c) The net weight or measure of the content subject, however to such reasonable variations as the Director may permit;
- (3) Any economic poison which contains any substance or substances in quantities highly toxic to man, determined as provided in KRS 217.580, unless the label shall bear, in addition to any other matter required by KRS 217.540 to 217.640:

- (a) The skull and crossbones;
- (b) The word "poison" prominently in red, on a background of distinctly contrast color; and
- (c) A statement of an antidote for the economic poison;
- (4) The economic poisons commonly known as lead arsenate, basic lead arsenate, calcium arsenate, magnesium arsenate, zinc arsenate, zinc arsenite, sodium fluoride, sodium fluosilicate, and barium fluosilicate unless they have been distinctly colored or discolored as provided by regulations issued in accordance with KRS 217.540 to 217.640, or any other white powder economic poison which the Director, after investigation of and after public hearing on the necessity for such action for the protection of the public health and the feasibility of such coloration or discoloration, shall by regulation, require to be distinctly colored or discolored; unless it has been so colored or discolored; provided, that the Director may exempt any economic poison, to the extent that it is intended for a particular use or uses, from the coloring or discoloring required or authorized by this subsection if he determines that such coloring or discoloring for such use or uses is not necessary for the protection of the public health;
- (5) Any economic poison which is adulterated or misbranded, or any device which is misbranded. (1956, c. 218, 2; effective July 1, 1956)

217.560 Unlawful practices. It shall be unlawful:

- (1) For any person to detach, alter, deface, or destroy, in whole or in part, any label or labeling provided for in KRS 217.540 to 217.640 or the rules and regulations promulgated hereunder, or to add any substance to, or take any substance from an economic poison in a manner that may defeat the purposes of KRS 217.540 to 217.640;
- (2) For any person to use for his own advantage or to reveal, other than to the Director, or officials or employees of the state or officials or employees of the United States Department of Agriculture, or other Federal agencies, or to the courts in response to a subpoena, or to physicians, and in emergencies to pharmacists and other qualified persons for use in the preparation of antidotes, in accordance with such directions as the Director may prescribe, any information relative to formulas of products acquired by authority of KRS 217.570;
- (3) For any person to oppose or interfere in any way with the Director or his duly authorized agents in carrying out the duties imposed by KRS 217.540 to 217.640 (1956 c. 218, 3; effective July 1, 1956)

217.570 Registration of economic poisons; renewal.

- (1) Every economic poison which is distributed, sold or offered for sale within this state or delivered for transportation or transported in intrastate commerce or between points within the state through any point outside this state shall be registered with the Director. The Director may register and permit the sale of any such economic poison which has been duly registered without protest under the provisions of the Federal Insecticide, Fungicide and Rodenticide Act, but products so registered shall be subject to the inspection fees provided for herein, and to all other provisions of KRS 217.540 to 217.640. All registration of products shall expire on the thirty-first day of December following date of issuance, unless such registration shall be renewed annually, in which event expiration date shall be extended for each year of renewal registration, or until otherwise terminated; provided that:
  - (a) Products which have the same formula, and are manufactured by the same person, the labeling of which contains the same claims, and the labels of which bear a designation identifying the product as the same economic poison may be registered as a single economic poison; additional names and labels shall be added by supplement statements during the current period of registration.
  - (b) Within the discretion of the Director, or his authorized representative, a change in the labeling or formulas of an economic poison may be made within the current period of registration, without requiring a re-registration of the product, provided the name of the item is not changed.
- (2) The registrant shall file with the Director, a statement containing:
  - (a) The name and address of the registrant and the name and address of the person whose name will appear on the label, if other than the registrant;
  - (b) The name of the economic poison;
  - (c) A complete copy of the labeling accompanying the economic poison and a statement of all claims made and to be made for it including directions for use; and
  - (d) If requested by the Director, a full description of the tests made and results thereof upon which the claims are based. In the case of renewal of registration, a statement shall be required only with respect to information which is different from that

furnished when the economic poison was registered or last re-registered;

(3) The registrant, before selling or offering for sale any economic poison in this state, shall register each brand or grade of such economic poison with the Director upon forms furnished by the Director, and for the purposes of defraying expenses connected with the enforcement of KRS 217.540 to 217.640, shall pay to the Director an annual inspection fee of five dollars for each and every brand or grade to be offered for sale in this state provided, however, that any registrant may register annually any number of brands after the payment of annual fees aggregating fifty dollars. There shall be issued to the registrant by the Director a license entitling the registrant to sell all duly registered brands in this state until the expiration of the license;

(4) The Director, whenever he deems it necessary in the administration of KRS 217.540 to 217.640, may require the submission of the complete formula of any economic poison. If it appears to the Director that the composition of the article is such as to warrant the proposed claims for it and if the article and its labeling and other material required to be submitted comply with the requirements of KRS 217.540 to 217.640, he shall register the article;

(5) If it does not appear to the Director that the article is such as to warrant the proposed claims for it or if the article and its labeling and other material required to be submitted do not comply with the provisions of KRS 217.540 to 217.640, he shall notify the registrant of the manner in which the article, labeling, or other material required to be submitted fail to comply with KRS 217.540 to 217.640, so as to afford the registrant an opportunity to make the necessary corrections;

(6) If, upon receipt of such notice, the registrant insists that such corrections are not necessary and requests in writing that the article be registered, the commissioner shall register the article under protest, and such registration shall be accompanied by a warning in writing to the registrant of the apparent failure of the article to comply with the provisions of KRS 217.540 to 217.640;

(7) The Director is authorized and empowered to refuse to register, or to cancel the registration of, any brand of economic poison as herein provided, upon satisfactory proof that the registrant has been guilty of fraudulent and deceptive practices in evasions or attempted evasions of the provisions of KRS 217.540 to 217.640 or any rules and regulations promulgated thereunder; provided, that no registration shall be revoked or refused until the registrant shall have been given a hearing by the Director;

(8) Notwithstanding any other provisions of KRS 217.540 to 217.640, registration is not required in the case of an economic poison shipped from one plant within this state to another plant within this state operated by the same person. (1956, c. 218, 5; effective July 1, 1956)

#### 217.580 Authority of Director.

(1) The Director is authorized, after opportunity for a hearing:

(a) To declare as a pest any form of plant or invertebrate animal life or virus which is injurious to plants, animals, articles or substances;

(b) To determine whether economic poisons are highly toxic to man;

(c) To determine standards of coloring or discoloring for economic poisons and to subject economic poisons to the requirements for coloration or discoloration imposed by KRS 217.540 to 217.640;

(2) The Director is further authorized:

(a) To effect the collection and examination of samples of economic poisons and devices to determine compliance with the requirements of KRS 217.540 to 217.640; and he shall have the authority at all reasonable hours to enter into any car, warehouse, store, building, boat, vessel or place supposed to contain economic poisons or devices, for the purpose of inspection or sampling, and to procure samples for analysis or examination from any lot, package or parcel of economic poison, or any device;

(b) To publish from time to time, in such forms as he may deem proper, reports of the results of the analyses based on official samples of economic poisons sold within the state;

(c) After due public hearing, to make, promulgate, alter, change, rescind such rules and regulations relating to the sale and distribution of economic poisons as he may find necessary to carry into effect the full intent and meaning of KRS 217.540 to 217.640;

(d) To cooperate with, and enter into agreements with, any other agency of this state, the United States Department of Agriculture, and any other state or agency thereof for the purpose of carrying out the provisions of KRS 217.540 to 217.640 and securing uniformity of regulations. (1956, c. 218, 6; effective July 1, 1956)

217.590 Violation of KRS 217.540 to 217.640, duties of Director relating to; penalties.

(1) If it shall appear from examination or evidence that any of the provisions of KRS 217.540 to 217.640 or the rules and regulations issued thereunder have been violated, the Director may cause notice of such violations to be given to the registrant, distributor and processor, from whom any samples or evidence was taken. Any party so notified shall be given an opportunity to be heard under such rules and regulations as may be prescribed by the Director. If it appears after such hearing that there have been a sufficient number of violations of KRS 217.540 to 217.640 or the rules and regulations issued thereunder, the Director may certify the facts to the Commonwealth's attorney or the county attorney for the county in which the violation shall have occurred and furnish that officer with a copy of the results of any examination of such sample duly authenticated by the officer making the examination. It shall be the duty of every such attorney to whom the Director shall report any violation of KRS 217.540 to 217.640 to cause proceedings to be prosecuted without delay for the fines and penalties in such cases. Any person convicted of violating any provisions of KRS 217.540 to 217.640 or the rules and regulations issued thereunder shall be adjudged guilty of a misdemeanor and shall be subject to a penalty of not less than twenty-five dollars nor more than five hundred dollars;

(2) Nothing in this section shall be construed as requiring the Director to report minor violations for the institution of proceedings under KRS 217.540 to 217.640 whenever the Director believes that the public interest will be adequately served in the circumstances by a suitable written notice or warning. (1956, c. 218, 7; effective July 1, 1956)

217.600 When penalties not applicable. The penalties provided for violations of KRS 217.550 shall not apply to:

(1) Any carrier, while lawfully engaged in transporting an economic poison within this state, if such carrier shall, upon request, permit the Director or his designated agent to copy all records showing the transactions in and movements of the articles;

(2) Public officials of this state and of the federal government engaged in the performance of their official duties;

(3) The manufacturer or shipper of an economic poison for experimental use only:  
(a) By or under the supervision of an agency of this state or of the federal government authorized by law to conduct research in the field of economic poisons; or

(b) By others if the economic poison is not sold and if the container thereof is plainly and conspicuously marked "For experimental use only - Not to be sold," together with the manufacturer's name and address' provided, however, that if a written permit has been obtained from the Director, economic poisons may be sold for experimental purposes subject to such restrictions and conditions as may be set forth in the permit;

(4) Any preparation, drug or chemical intended to be used or sold solely for medicinal use or for toilet purposes. (1956, c. 218, 8; effective July 1, 1956)

217.610 Director to issue written "stop sale, use or removal" order; when; appeal.

It shall be the duty of the Director to issue and enforce a written or printed "stop sale, use or removal" order to the owner or custodian of any lot of economic poison and to hold at a designated place when the Director finds said economic poison is being offered or exposed for sale in violation of any of the provisions of KRS 217.540 to 217.640 until the law has been complied with and said economic poison is released in writing to the Director or said violation has been otherwise legally disposed of by written authority; provided, that the owner or custodian of such economic poison shall have the right to appeal from such order to a court of competent jurisdiction in the county where the said economic poison or poisons are found, praying for a judgment as to the jurisdiction of said order, and for the discharge of such economic poison from the order prohibiting the sale in accordance with the findings of the court; and provided further that the provisions of this paragraph shall not be construed as limiting the right of the enforcement officer to proceed as authorized by other provisions of KRS 217.540 to 217.640. The Director shall release the economic poison so withdrawn when the requirements of the provisions of KRS 217.540 to 217.640 have been complied with and upon payment of all costs and expenses incurred in connection with the withdrawal. (1956, c. 218, 9; effective July 1, 1956)

217.620 Seizure of economic poison; when. Any lot of economic poison not in compliance with the provisions of KRS 217.540 to 217.640 shall be subject to seizure on complaint of the Director to a court of competent jurisdiction in the county in which said economic poison is located. In the event the court finds the said economic poison

to be in violation of KRS 217.540 to 217.640 and orders the condemnation of said economic poison, it shall be disposed of in any manner consistent with the quality of the economic poison and the laws of the state, provided, that in no instance shall the disposition of said economic poison be ordered by the court without first giving the claimant an opportunity to apply to the court for release of said economic poison or for permission to process or relabel said product to bring it into compliance with KRS 217.540 to 217.640. (1956, c. 218, 10; effective July 1, 1956)

217.630 Authority vested in Director may be executed by employees of Agricultural Experiment Station. All authority vested in the Director by virtue of the provisions of KRS 217.540 to 217.640 may, with like force and effect, be executed by such employees of the Kentucky Agricultural Experiment Station as the Director may from time to time designate for said purpose. (1956, c. 218, 11; effective July 1, 1956)

217.640 Jurisdiction vested in Director; repealing clause. Jurisdiction in all matters pertaining to the distribution, sale and transportation of economic poisons is by KRS 217.540 to 217.640 vested exclusively in the Director and all acts and parts of acts inconsistent with KRS 217.540 to 217.640 are hereby expressly repealed including the provisions of Sections 217.010 and 217.400 of the Kentucky Revised Statutes which cover economic poisons subject to KRS 217.540 to 217.640. (1956, c. 218, 13; effective July 1, 1956)

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