# KENTUCKY ECONOMIC POISONS REPORT, 1963



Bag Worms On Juniper

University of Kentucky
Agricultural Experiment Station
Lexington

# FEED AND FERTILIZER DEPARTMENT

# KENTUCKY AGRICULTURAL EXPERIMENT STATION

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Kentucky Economic Poisons Law	

Prepared by Bruce Poundstone and W. J. Huffman Analytical data by the Laboratory Staff

### COMPANIES LICENSED UNDER KENTUCKY ECONOMIC POISONS LAW IN 1963

Abbott Laboratories, 1400 Sheridan Road, North Chicago, Illinois Ace Products Company, 3001 Rodman Street, Louisville, Kentucky Aceline Products Corporation, Box 236, 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, Old Clarksville Road, 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, 19220 Pioneer Boulevard, Artesia, California Allen-Crowl Company, 1559 Allentown Road - Box 627, Lima, Ohio Allied Chemical Corp., Plastics Div., 40 Rector St., New York, New York Allied Chemical Corp., Gen. Chemical Div., Box 70, Morristown, New Jersey Allied Drug Products Company, 16th & Gulf Streets, 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., Box 10027 Northside Sta., Jackson, Miss. American Exterminator, Inc., 817 Race Street, Cincinnati, Ohio American Mineral Spirits Company, Mountain View Avenue, Murray Hill, New Jersey American Mothproofing Company, 2510 Hampton Avenue, St. Louis, Missouri American Oil Company, 910 S. Michigan Avenue, Chicago, Illinois American Paper & Plastic Products, Inc., 4425 N. Port Washington Rd., Milwaukee, Wisc. American Sterilizer Company, 2424 West 23rd Street, Erie, Pennsylvania Anchor Serum Company, 1101 Kentucky Avenue, Indianapolis, Indiana Animal Repellents, 980 Ellicott Street, Buffalo, New York The Antimite Company, 5137 Southwest Avenue, St. Louis, Missouri Armour Agricultural Chemical Company, 5184 Broerman Avenue, Cincinnati, Ohio Arnold Laboratories, 206 Spring Street, New Castle, 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 Atlas Agricultural Chemicals, Inc., P. O. Box 169 Mills Rd., Waynesboro, Georgia 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
Babson Bros. Company, 2843 West 19th Street, Chicago, Illinois
W. H. Barber Chemical Co., 3650 So. Homan Avenue, Chicago, Illinois Bauer & Black, Div. of the Kendall Co., 309 W. Jackson Blvd., Chicago, Illinois Beacon Products Corporation, 215 Lawyers Building, Greenville, South Carolina Beacon Division, Textron, Inc., 1401 Armour Road, Kansas City, Missouri 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 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, Cynthiana, Kentucky Bluegrass Supply Company, 1091 W. High Street, Lexington, Kentucky 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 E. L. Bruce Company, P. O. Box 397, Memphis, Tennessee Brulin & Company, Inc., 2939-45 Columbia Avenue, Indianapolis, Indiana Burley Belt Plant Food Works, Route 4, Lexington, Kentucky
Burris Chemical Company, Inc., Starjk Industrial Park, Charleston, South Carolina
Cabell Chemical Company, 101 22nd Street, Huntington, West Virginia
California Chemical Company, Lucas & Ortho Way, Richmond, California
Camp Chamical Company, Inc., Second & 13th Street, Brooklyn, New York Camp Chemical Company, Inc., Second & 13th Street, Brooklyn, New York
Carajon Chemical Company, 426-432 W. Main Street, Fremont, Michigan
Carbola Chemical Company, Inc., Natural Bridge, New York
Carbolineum Wood Preserving Company, 6683 N. 40th St., Milwaukee, Wisconsin
Carson Chemicals, Inc., B. C. Box 288, New Coatle, Indiana 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, P. O. Box 310, 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, Monroe St. Station, Tallahassee, Florida 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 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 N. Broadway, Lexington, Kentucky Comet Manufacturing Company, 688 Spring Street, N. W., Atlanta, Georgia Commercial Chemical Company, 1021 Summer Street, Cincinnati, Ohio Commercial Solvents Corporation, 1331 South 1st Street, Terre Haute, Indiana Commonwealth Fertilizer Company, Inc., P. O. Box 388, Russellville, Kentucky Common Sense Manufacturing Co., Inc., 1392 Niagara Street, Buffalo, New York Consan Chemical Products, 7125 East McNichols Road, Detroit, Michigan Continental Chemiste Corporation, 2256 West Odgen Avenue, Chicago, Illinois 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 Sta., 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 So. Lamont Road, Downers Grove, Illinois Cutter Laboratories, Fourth & Parker Streets, Berkeley, California The d-Con Company, Inc., 1450 Broadway, New York, New York Dacus Drug Company, Inc., Box 241, Tupelo, Mississippi Dameron Enterprises, 1600 So. Floyd Street, Louisville, Kentucky Darling & Company, 4201 South Ashland Avenue, Chicago, Illinois Darworth, Incorporated, P. O. Box 308, Simsbury, Connecticut 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 Dettelbach Insecticide Corporation, 4103 Peachtree Rd. NE, 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 Dixi Chemical Company, P. O. Box 1711, Chattanooga, Tennessee Douglas Chemical Company, 620 E. 16th Avenue, North Kansas City, Missouri The Dow Chemical Company, Midland, Michigan The Drackett Products Company, 5020 Spring Grove Avenue, Cincinnati, Ohio Eagle Chemical Company, P. O. Box 8127, Chattanooga, Tennessee E. I. duPont de Nemours & Co., 6054 DuPont Building, Wilmington, Delaware Economics Laboratory, Inc., 914 Guardian Building, St. Paul, Minnesota Economy Chemical Company, 127 Hinton Road, Lexington, Kentucky 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 32 Street, New York, New York Erbrich Products Company, 1120 East 32nd Street, Indianapolis, Indiana Ethicon, Inc., Route 22, Somerville, New Jersey E-Z Flo Chemical Company, P. O. Box 808, Lansing, Michigan Fairfax Biological Laboratories, Electronic Road, Clinton Corners, New York Fairfield Chemicals, 100 North Niagara, Middleport, New York Far-Best Corporation, 6715 McKinley Avenue, Los Angeles, California Farmers Fertilizer Company, Smiths Grove, Kentucky Farnam Companies, 613 N. Central, Phoenix, Arizona Federal Chemical Company, 646 Starks Building, Louisville, Kentucky Federal Chemical Company, 2701 Winthrop Avenue, Indianapolis, Indiana Ferry-Morse Seed Company, Box 100, Mountain View, California Fischer Products Company, Inc., 5050 Edgewood Court, Jacksonville, Florida Florida Agricultural Supply Company, 1611 Talleyrand Ave., Jacksonville, Florida R. M. Flowers Company, 120 Public Square, Russellville, Kentucky Fly-Cord, Incorporated, P. O. Box 2006, Savannah, Georgia 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 Frontier Chemical Company, Box 545, Wichita, Kansas Henry Fruechtenicht Company, Inc., 211 N. Hancock, Louisville, Kentucky The Fuller Brush Company, 88 Long Hill Street, East Hartford, Connecticut Furst-McNess Company, 120 East Clark Street, Freeport, Illinois Garden Hose Spray Company, Inc., 7 Upland Road, Cambridge, Massachusetts Garden Products Company, 535 East Drive, 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 General Insecticide Company, Inc., 750 Herkimer Road, Utica, 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 W. R. Grace & Co., Davison Chemical Div., 101 N. Charles St., Baltimore, Md. The Great Atlantic & Pacific Tea Co., 3041 Wilson Avenue, Louisville, Kentucky Great Lakes Chemical Corporation, 753 Warner Building, Washington, D. C. Greever's, Incorporated, Chilhowie, Virginia Earl Grissmer Company, P. O. Box 20092, Indianapolis, Indiana Gro-Green Chemical Company, Box 132, Shelbyville, Kentucky Guarantee Pest Control Company, 23 N. 31-West Bypass, Bowling Green, Kentucky Gulf Oil Corporation, P. O. Box 1519, Houston, Texas Guth Chemical Company, 85 Weed Street, Chicago, Illinois

Handcraft Company, Reedsburg, Wisconsin Hardy Salt Company, 800 South Vandeventer, 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, 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, 915 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), P. O. Box 909, St. Joseph, Missouri The Hilo Company, Lexington & Revere Ave., Bethpage, Long Island, New York Hinton & Company, 67 Murray Street, New York, New York J. I. Holcomb Manufacturing Co., 1601 Barth Avenue, Indianapolis, Indiana R. M. Hollingshead Corporation, 840 Cooper Street, Camden, New Jersey Hollywood Termite Control, Inc., 938 N. Eastern Avenue, Los Angeles, California Hooker Chemical Corporation, 666 5th Avenue, New York, New York Horizon Industries, Box 3968, Shaker Heights Station, Cleveland, Ohio Hot Shot Quality Products, Inc., 701 N. Main Street, Memphis, Tennessee Houchens, Bowling Green, Kentucky Sam Houston Company, P. O. Box 662, Talladega, Alabama The Huge Company, Inc., 884 Hodiamont 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 Huntington Laboratories, Huntington, Indiana Hutson Chemical Company, Railroad Avenue, Murray, Kentucky Hydroponic Chemical Company, Box 97-C, Copley, Ohio Hy-G Corporation, 130 Russ Street, San Francisco, California Indiana Farm Bureau Coop. Ass'n., 47 S. Pennsylvania St., Indianapolis, Indiana Industrial Fumigant Company, 923 State Line, Kansas City, Missouri International Distributors, Inc., 725 South Fifth Street, Memphis, Tennessee International Minerals & Chemical Corp., P.O. 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 Raymond Johns Distilling Company, 1506 W. Main Street, Louisville, Kentucky S. C. Johnston & Sons, Inc., 1525 Howe Street, Racine, Wisconsin H. D. Jones, 312 West Main Street, Glasgow, Kentucky Eck Jones, Route #1, Central City, Kentucky Carl Kaster Company, 516 W. Main Street, Louisville, Kentucky Kentucky Fertilizer Works, 222 Cook Street, Winchester, Kentucky Kentucky Lumber Company, P. O. Box 8327, Louisville, Kentucky Kimbell-Diamond Milling Company, P. O. Box 1540, Fort Worth, Texas King Chemical Company, 2342 South Loudeville, Marshin Towards 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 H. B. Fred Kuhls, 6413 Third Avenue, 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 E. F. Laurence, Inc., 42 Whitney Street, North Boro, Massachusetts George H. Lee Company, 4161 Beck Avenue, St. Louis, Missouri Dr. L. D. LeGear, Inc., 4161 Beck Avenue, St. Louis, Missouri LeHigh Chemical Company, Inc., 8511 Grade Lane, 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, Route 46 & Valley Road, Clifton, New Jersey Louisiana Fortifying & Mixing Plant, Abbeville, Louisiana Louisville Chemical Company, 601 East Jefferson Street, Louisville, Kentucky McConnon & Company, 25 McConnon Drive, Winona, Minnesota McCormick & Company, Inc., 414 Light Street, Baltimore, Maryland McKesson Laboratories, P. O. Box 548, Bridgeport, Connecticut McKnight-Keaton Grocery Company, Sikeston, Missouri 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 C. J. Martin & Sons, Inc., 1181 Airport Boulevard, Austin, Texas Martin-Marietta Company, 901 N. Greenwood Avenue, Kankakee, Illinois Masury-Young Company, 76 Roland Street, Boston, Massachusetts Me-Hi Enterprises, Inc., 4910 W. Jefferson Boulevard, 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. St. 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 Co., 3006 W. Cold Spring Lane, Baltimore, Maryland Miller Products Company, 607 Del Monte Way, St. Louis, Missouri Minit Spray, 1001 Northwest Highway, Des Plaines, Illinois Mock Seed Company, 13th & Smallman Streets, Pittsburgh, Pennsylvania 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 Murphy Products Company, 100 Dodge Street, Burlington, Wisconsin Edgar A. Murray Company, Electronic Road, Clinton Corners, New York Mutual Products Company, 509 N. Fourth Street, Minneapolis, Minnesota Myzon Laboratories, 6320 Kansas Avenue, Muncie, Kansas Nalco Chemical Company, 6216 W. 66 Street, Chicago, Illinois Naphthalene Products Company, P. O. Box 6328, Tarrant, Alabama Nash & Kinsella Laboratories, Inc., 3638 Olive Street, St. Louis, Missouri National Chemsearch Corporation, Box 10087, Dallas, Texas National Laboratories, Inc., 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, 100 Niagara St., Middleport, New York Nip-Co Manufacturing, Inc., 200 Main Street, New Rochelle, New York

Non-Toxic, Inc., 4910 W. Jefferson Boulevard, Los Angeles, California
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 Northern Industries, Inc., 407 E. Michigan Street, Milwaukee, Wisconsin Nott Manufacturing Company, Inc., 200 South Water St., Poughkeepsie, New York Nu-Way Products, Inc., Box 42, West Memphis, Arkansas Nuodex Products Company, 110 E. 42nd Street, New York, New York Nutrilite Products, Inc., 5600 Beach Boulevard, Buena Park, California Odor-Aire, Inc., 1019 E. Second Street, Wichita, Kansas Ohio Valley Fertilizer Co., Box 799, Maysville, Kentucky Olin Mathieson Chemical Corporation, P. O. Box 946, Richmond, Indiana Olin Mathieson Chemical Corporation, P. O. Box 946, Richmond, Indiana Olin Mathieson Chemical Corporation, Mathieson Building, Baltimore, Maryland One-Spot Company, Jessup, Maryland Paper Products, Inc., 18554 South Susana Road, 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, 580 W. 13th South, Salt Lake City, Utah Paxton Enterprises, Drawer A, Palacios, Texas
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, 2001 Taylor Way, Taxons, Washington Pennsalt of Washington, 2901 Taylor Way, Tacoma, Washington Pennsylvania Engineering Company, 1109-21 North Howard St., Philadelphia, Penn. Pennsylvania Refining Company, Commonwealth Bank & Trust Bldg., Butler, Penn. Penola Oil Company, Linden, New Jersey L. Perrigo Company, Bridge & Brady Streets, Allegan, Michigan Pest Guard Products, Inc., 731 West Davis, Dallas, Texas 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., Box 7231, St. Louis, Missouri Phelps Dodge Refining Corporation, 300 Park Avenue, New York, New York Piatt & Smillie Chemical, Inc., 3419 Gratiot Street, St. Louis, Missouri
The Piper Company, Inc., 2152 Yale Avenue, St. Louis, Missouri
The Moore Company, Div. Allied Labs., P. O. Box 1656, Indianapolis, Indiana Pittsburgh Chemical Laboratory, Century Bldg., 130 7th Street, Pittsburgh, Penn. 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, Virginia The Proctor & Gamble Company, P. O. Box 599, Cincinnati, Ohio Protection Products Mfg. Company, 2305 Superior Avenue, Kalamazoo, Michigan Purex Corporation, Ltd., 9300 Rayo Avenue, South Gate, California Pyrrole Chemical Corporation, 817 Spring Lane, Portsmouth, Ohio 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 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 George A. Rolfes Company, Industrial Park Site -Box 548, Boone, Iowa 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 Sennewald Drug Company, Inc., 2723 Chouteau Avenue, St. Louis, Missouri Senoret Chemical Company, 610 Gratiot Street, 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 Obryne Street, Henderson, Kentucky Southern States Cooperative, Inc., 7th & Main Streets, Richmond, Virginia The Spelling Company & Tom-Cat Products Co., 208 Front St., Jonesboro, Arkansas Stalfort 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), 1823 Midland Building, 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
State Chemical & Manufacturing Company, 2435 Superior Ave., Cleveland, Ohio Stauffer Chemical Company, 380 Madison Avenue, New York, New York Stearn's Electric Paste Company, 8 South Dearborn Street, Chicago, Illinois 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's Chemical, Inc., 3400 Nacogdoches Road, San Antonio, Texas W. R. Sweeney Manufacturing, Inc., 340 South Main, Salisbury, Missouri Swift & Company, Agricultural Chemical Division, National Stock Yards, Illinois Syncro-Mist Controls, Inc., 270 Madison Avenue, New York, New York Tabtrol Company, 7003 Deerfield Road, Baltimore, Maryland The Taylor-Reed Corporation, Glenbrook, Connecticut

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., 215 Lawyers Building, 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, 2915 Southwest Blvd., Kansas City, Mo. Thuron Industries, Inc., 12200 Denton Drive, Dallas, Texas Time Chemical, Inc., 3950 Karlov Avenue, Chicago, Illinois Tobacco States Chemical Company, P. O. Box 479, Lexington, Kentucky Tri-State Chemical Company, P. O. Box 123, Henderson, Kentucky Tru-Way Products, % Ralph Bailey Jr., 215 Lawyers Building, Greenville, S. C. 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 Consumer Products Company, 270 Park 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, Calif. United States Rubber Co., Naugatuck Chemical Div., Elm St., Naugatuck, Conn. Universal Milking Machine, First Avenue at College, Albert Lea, Minnesota The Upjohn Company, 7000 Portage Road, Kalamazoo, Michigan Vaccinol Chemical Company, 2487 Pennsylvania Avenue, Memphis, Tennessee R. T. Vanderbilt Company, Inc., 230 Park Avenue, New York, New York Vaporette, Inc., 2416 South Harwood, Dallas, Texas Vaughan's Seed Company, 601 West Jackson, Chicago, Illinois The Verkamp Corporation, 1920 Losantiville Avenue, Cincinnati, Ohio Vestal Laboratories, Inc., 4963 Manchester, St. Louis, Missouri Victrylite Candle Company, P. O. Box 890, Oshkosh, Wisconsin Vineland Chemical Sales Corporation, W. Wheat Road, Vineland, New Jersey Virginia-Carolina Chemical Corp., Murray Rd., St. Bernard Sta., Cincinnati, Ohio Virginia-Carolina Chemical Corp., 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 Warren Seed Company, 147 N. Delaware Street, Indianapolis, Indiana Watkins Products, Inc., 150 Liberty Street, Winona, Minnesota Weevil-Cide Company, 1323 Union Avenue, Kansas City, Missouri S. C. Wells & Company, 1 Church Street, LeRoy, New York West Chemical Products, Inc., 42-16 West St., Long Island City, New York Westchester Veterinary Products, 180 Mamaroneck Avenue, White Plains, New York Western Auto Supply Company, Kansas City, Missouri Whitmoyer Laboratories, Inc., 19 N. Railroad Street, Meyerstown, Pennsylvania Whitney Seed Company, Inc., 52 Leslie Street, Buffalo, New York Winn Chemical Company, Box 612, Anniston, Alabama Wood Treating Chemical Company, 5137 Southwest Avenue, St. Louis, 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 Wm. F. Zummach, Inc., 120 E. Mineral Street, Milwaukee, Wisconsin

### INTRODUCTION

This bulletin contains results of analyses of 508 official pesticide samples secured during the period January 1 through December 31, 1963.

### 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 508 samples reported, 137 samples were found to be deficient in one or more of the active ingredients guaranteed. Forty-eight products were not registered when the sample was taken.

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

	Aldri	n	
Registrant	Guarantee	Found	
Product	%	%	Remarks
AMERICAN AGRICULTURAL CHEMICAL C	0		
4- 9- 3 Sulfate with Aldrin	0.20	0.04	D
Do	0.20	0.03	D
4-16- 4 Sulfate with Aldrin	0.30	0.23	D
Do	0.30	0.20	D
Do	0.30	0.12	D
Do	0.30	0.23	D
Do	0.30	0.27	미미미미미마 우
Do	0.30	0.42	
Do	0.30	0.33	P
Do	0.30	0.44	P
Do	0.30	0.26	P
Do	0.30	0.37	P
5-10-10 Muriate with Aldrin	0.50	0.30	<u>D</u> <u>M</u> P
5-10-15 Sulfate with Aldrin	0.15	0.52	M
Do	0.15	0.15	P
Do	0.30	0.24	P P
Do ( ) 0 C 1C + 2 (1) All :	0.15	0.20	P
6- 6-18 Sulfate with Aldrin	0.15 0.15	0.16 0.24	P
Do	0.15	0.22	P
Do 8- 8-18 Sulfate with Aldrin	0.15	0.14	P
Do	0.15	0.14	P
Do	0.15	0.17	P
ARMOUR AGRICULTURAL CHEMICAL CO.			
3-12-12 Muriate with Aldrin	0.50	0.06	D
Do	0.50	0.40	<u>D</u> P
4-12- 8 Muriate with Aldrin	0.50	0.65	X
5-10-15 Sulfate with Aldrin	0.15	0.13	
Do	0.15	0.21	P
Do	0.15	0.07	D
Do	0.15	0.11	D
Do	0.15	0.14	P
Do	0.15	0.11	<u>D</u>
Do	0.15	0.22	P
Do	0.15	0.05	D
Do	0.19	0.34	X
6-12-18 Sulfate with Aldrin	0.15	$\frac{0.11}{0.02}$	XIDIP D
12-12-12 Muriate with Aldrin	0.50	0.83	7
Do	0.50	0.18	חַ
BALE FERTILIZER COMPANY			
6-12-12 Muriate with Aldrin	0.30	0.24	P
BARTLETT & O'BRYAN FERTILIZER CO.			
Custom Mix	0.37	0.33	P

	Aldri			
Registrant	Guarantee	Found		
Product	%	%	Remarks	
BLUEGRASS PLANT FOODS				
4-12- 8 Muriate with Aldrin	0.50	0.49	X P	
4-16- 4 Sulfate with Aldrin	0.31	0.25	P	
Do	0.31	0.34	P	
Do	0.31	0.34	P	
Do	0.31	0.28	P	
Do	0.31	0.31	P	
Do	0.31	0.31	P	
5-10-15 Sulfate with Aldrin	0.15	0.21	P	
Do	0.15	0.45	<u>M</u>	
Do	0.15	0.07	D	
Do	0.15	0.16	P	
Do	0.15	0.11	D	
Do	0.20	0.10	<u>씨</u> 의 무 이이우 무	
Do	0.15	0.13	P	
Do	0.15	0.15		
6- 6-18 Sulfate with Aldrin	0.15	0.13	P	
Do	0.15	0.04	이 보이 이 이 이 이 이 이 이	
Do	0.20	0.17	P	
Do	0.20	0.10	D	
6- 8- 6 Sulfate with Aldrin	0.15	0.11	D	
6-12-18 Sulfate with Aldrin	0.15	0.19	P	
Do	0.15	0.15	P	
Do	0.15	0.10	D	
Do	0.20	0.08	₫	
Do	0.20	0.13	₽	
Do	0.20	0.10	₽	
Do	0.20	0.28	P	
Do	0.15	0.11	D P	
Do	0.15	0.19		
Do	0.15	0.20	P	
8-10-15 Sulfate with Aldrin	0.15	0.16	P	
Do	0.15	0.13	P	
Do	0.20	0.16	P	
10- 0-20 Sulfate with Aldrin	0.25	0.22	P	
DUDI EV DELE DI ANE ECOD WORKS				
BURLEY BELT PLANT FOOD WORKS	0.31	0.31	P	
4-16- 4 Sulfate with Aldrin	0.30	0.31	P	
Do	0.30	0.34	P	
Do	0.30	0.31	DX	
Do	0.30	0.29	Y	
Do 5-10-15 Sulfate with Aldrin	0.15	0.09	X D P	
	0.15	$\frac{0.07}{0.15}$	P	
6- 6-18 Sulfate with Aldrin	0.15	0.13	P	
Do	0.15	0.10	-	
COMMONWEALTH FERTILIZER CO.				
5-10-15 Sulfate with Aldrin	0.30	0.20	D	
Do	0.30	0.20	<u>D</u> D	
			_	

	Aldri	n	
Registrant	Guarantee	Found	
Product	%	%	Remarks
COOPERATIVE FERTILIZER SERVICE			
4-16- 4 Sulfate with Aldrin	0.31	0.32	P
Do	0.31	0.34	P
Do	0.31	0.32	P
Do	0.31	0.30	P
Do	0.31	0.32	P
Do	0.31	0.32	P
Do	0.31	0.33	P
5-10-15 Sulfate with Aldrin	0.15	0.15	P
Do	0.15	0.15	P
Do	0.15	0.12	P
Do	0.15	0.16	P
Do Do	0.15	0.15	P
Do	0.15	0.18	P
Do	0.15	0.16	P
Do 5-10-20 Sulfate with Aldrin	0.15	0.15	P
5-15- 5 Muriate with Aldrin	0.15 0.50	0.16	P
6- 6-18 Sulfate with Aldrin	0.15	0.43	P P
	0.15	0.14	-
DARLING & COMPANY			
6-12-12 Muriate with Aldrin	0.50	0.71	P
Do .	0.50	0.24	₽
E'TOWN FERTILIZER COMPANY			
10-10-10 Muriate with Aldrin	0.33	0.40	P
EARNAERS BEREILIZER SOMBANY			
FARMERS FERTILIZER COMPANY 4-16- 4 Sulfate with Aldrin	0.12	0.03	DV
5-10-15 Sulfate with Aldrin	0.13	0.02	DX P
3-10-15 Sulfate with Aldrin	0.13	0.15	Р
FEDERAL CHEMICAL COMPANY			
4-16- 4 Sulfate with Aldrin	0.19	0.08	D
Do	0.19	0.08	D D P
5-10-15 Sulfate with Aldrin	0.15	0.13	P
Do	0.15	0.13	P
Do	0.15	0.17	P
Do Do	0.15	0.12	P
Do Da	0.15	0.15	P
Do Do	0.15	0.13	P
9-10-15 Sulfate with Aldrin	0.15 0.15	$\frac{0.10}{0.14}$	D P
Do Do	0.15	0.14	P
Do	0.50	$\frac{0.09}{0.11}$	님
10-10-10 Muriate with Aldrin	0.50	$\frac{0.11}{0.13}$	DIDIDIP
Do	0.50	0.46	P
Do	0.50	0.24	D
			_

	A1.3		
	Aldrin	Found	
Registrant Product	%	%	Remarks
W. R. GRACE & CO., DAVISON CHEM. DIV.			
4-16- 4 Sulfate with Aldrin	0.31	0.26	P
Do	0.31	0.29	P
Do	0.31	0.24	P
Do	0.31	$\frac{0.20}{0.10}$	Η
Do	0.31	$\frac{0.19}{0.27}$	D D P
Do	0.31	0.22	Ď
Do	0.15	0.08	
5-10-15 Sulfate with Aldrin	0.25	0.25	P
Do	0.25	0.13	D
Do Do	0.25	0.11	D
Do	0.25	0.21	P
Do	0.50	0.23	<u>D</u>
6- 6-18 Sulfate with Aldrin	0.15	0.14	Р
GRO-GREEN CHEMICAL COMPANY, INC.			
4-16- 4 Sulfate with Aldrin	0.31	0.34	P
Do	0.31	0.13	₽
Do	0.31	None	<u>DM</u>
5-10-15 Sulfate with Aldrin	0.15	0.19	D DM P D P
8-10-15 Sulfate with Aldrin	0.15	$\frac{0.11}{0.33}$	Η
Do	0.15	0.22	P
8-12-15 Sulfate with Aldrin	0.15 0.12	0.14	P
Custom Mix	0.12	0.10	
HUTSON CHEMICAL COMPANY		0.10	
4-12- 8 Muriate with Aldrin	1.00	0.18	D P
5-10-15 Sulfate with Aldrin	1.00	0.82 0.92	P
Do	1.00	0.92	P
Do	1.00	0. 70	
INTERNATIONAL MIN. & CHEM. CORP.			
4-12- 8 Muriate with Aldrin	0.20	0.18	P
4-16- 4 Sulfate with Aldrin	0.20	0.19	X
Do	0.20	$\frac{0.13}{0.17}$	DX P
Do	0.20	0.17 0.17	DX
Do	0.20	$\frac{0.17}{0.18}$	$\frac{DR}{P}$
5-10-15 (3M-12S) with Aldrin	0.20	0.22	P
5-10-15 Sulfate with Aldrin	0.20	0.19	P
Do	0.15	0.09	
Do 6- 6-18 Sulfate with Aldrin	0.15	0.10	חחח
6-12-18 Sulfate with Aldrin	0.15	0.05	D
KENTUCKY FERTILIZER WORKS, INC.			
4-16- 4 Sulfate with Aldrin	0.31	0.31	X P
Do	0.31	0.29	P
Do	0.31	0.17	<u>D</u> P
5-10-15 Sulfate with Aldrin	0.15	0.15	
6- 6-18 Sulfate with Aldrin	0.15	0.15	P P
Do	0.15	0.14	Р

	Aldrin	ı	
Registrant Product	Guarantee %	Found %	Remarks
LAND-O-NAN WAREHOUSE		1 02	
5-20-20 Muriate with Aldrin	1.00	1.02	P
NORTH AMERICAN FERTILIZER CO.			
4-16- 4 Sulfate with Aldrin	0.31	0.31	P
Do	0.31	0.31	P
Do	0.31	$\frac{0.21}{0.14}$	<u>D</u> P
5-10-15 Sulfate with Aldrin Do	0.15 0.15	0.14	P
Do	0.15	0.16	P
Do	0.15	0.15	P
OHIO VALLEY FERTILIZER CO.			
4-16- 4 Sulfate with Aldrin	0.31	0.31	P
Do	0.31	0.43	P
Do	0.31	0.36	P
5-10-15 Sulfate with Aldrin	0.15	0.12	P
Do	0.15 0.15	0.21	P DM
Do 5-10-20 Sulfate with Aldrin	0.15	$\frac{0.11}{0.14}$	P
6- 6-18 Sulfate with Aldrin	0.15	0.13	P
Do	0.15	0.16	P
Do	0.15	0.08	D
6- 8- 6 Sulfate with Aldrin	0.15	0.22	M P
6-24-12 Muriate with Aldrin	0.37	0.41	
8-10-15 Sulfate with Aldrin	0.15 0.15	0.15 0.14	P P
Do Do	0.15	0.14	
Do	0.15	0.07	D D D P
Do	0.20	0.13	D
10-10-10 Sulfate with Aldrin	0.15	0.13	P
10-10-10 Muriate with Aldrin	0.25	0.25	P
Do	0.50	0.51	P
10-10-20 Sulfate with Aldrin	0.12 0.15	$\frac{0.06}{0.10}$	딒
Do Do	0.15	0.18	D D P
E S DOVETTER CITANO CO. PRICE CH	EM DIV		
F. S. ROYSTER GUANO CO., PRICE CH 4-16- 4 Sulfate with Aldrin	0.31	0.24	P
Do	0.31	0.32	P
Do	0.31	0.36	P
Do	0.31	0.35	P
Do	0.31	0.27	P
Do	0.31	0.32	Р
STEWART FERTILIZER SERVICE			
5-10- 5 Muriate with Aldrin	0.15	0.14	P
5-15- 5 Muriate with Aldrin	0.33	$\frac{0.17}{0.18}$	DM P
8-12-18 Sulfate with Aldrin	0.17	0.18	Р

	Aldrin		
Registrant	Guarantee %	Found %	Remarks
Product	70	70	
TENNESSEE CORPORATION			
4-16- 4 Sulfate with Aldrin	0.15	0.13	<u>X</u> <u>X</u> P
	0.16	0.17	X
Do 5-10-15 Sulfate with Aldrin	0.16	0.13	Р
VIRGINIA-CAROLINA CHEMICAL CORP.		0.25	P
4-16- 4 Sulfate with Aldrin	0.31	0.35	
Do	0.15	0.14	X P
5-10-15 Sulfate with Aldrin	0.15	0.15	
Do	0.15	0.05	חוחו
	0.15	0.10	₽
Do	0.15	0.08	
Do 6- 6-18 Sulfate with Aldrin	0.15	0.10	D

### ANALYSES OF DIELDRIN IN FERTILIZER

	Dieldrin		
Registrant	Guarantee %	Found %	Remarks
ARMOUR AGRICULTURAL CHEMICAL CO. 5-10- 5 Muriate with Dieldrin Do 5-10- 5 Sulfate with Dieldrin Do Do Do Do Do	0.1875 0.1875 0.1875 0.1875 0.1875 0.1875 0.1875	0.23 0.11 0.12 0.19 0.18 0.24 0.18 0.20	P DM* DP PP PP

<sup>\*</sup>Contaminated with 0.10% Aldrin

# ANALYSES OF HEPTACHLOR IN FERTILIZER

	Heptachl	or	
Registrant Product	Guarantee %	Found %	Remarks
AMERICAN AGRICULTURAL CHEMICAL CO	D. 0.30	0.18	Р
0- 9-27 Muriate with Heptachlor Do	0.20 0.20	0.18	P
ARMOUR AGRICULTURAL CHEMICAL CO. 3-12-24 Muriate with Heptachlor	0.20	0.05	D
FEDERAL CHEMICAL COMPANY 0- 9-27 Muriate with Heptachlor Do	0.20	0.10 0.11	D D

# ANALYSES OF PRODUCTS CONTAINING ALDRIN

	Aldrin		
Registrant Product	Guaranteed %	Found %	Remarks
TOP A GGO GEATING CHEMICAL CO			
TOBACCO STATES CHEMICAL CO.	20.0	20 2	D
20% Aldrin Granules	20.0	20.3	P
	20.0 25.0 38.0	20.3 24.5 36.7	

### ANALYSES OF PRODUCTS CONTAINING ARSENIC

	Arsen	ic	
Registrant	Guaranteed	Found	
Product	%	%	Remarks
AMCHEM PRODUCTS, INC.	1		
Amchem Liquid Grass Killer	5.002	4.88	P
Amchem Crab Grass Killer	$0.64^{2}_{2}$ 12.85	1.13	P
Weedone Crab Grass Killer	12.85	13.94	P
ARMOUR AGRICULTURAL CHEMICAL CO.			
Verta Gard Post Emergence	,		
Crab Grass Killer	0.852	1.09	P
Grab Grabb Hiller			
BOYLE-MIDWAY, INC.			
Antrol Hose Spray Concentrate	3		
Crabgrass & Chickweek Killer	4.00 <sup>3</sup>	4.10	P
CALIFORNIA CHEMICAL CO., ORTHO DIV.			
Ortho Kleanup Crab Grass Killer	10.774	11.70	P
Do	10.77	12.17	P
Ortho Liquid Crab Grass Killer	$   \begin{array}{c}     10.77_{4}^{4} \\     10.77_{3}^{4} \\     4.20^{3}   \end{array} $	4.10	P
Of the Liquid Cras Grass Killer			
NOTT MANUFACTURING COMPANY, INC.	3		
Nott's Super Artox Liquid Crab Grass F	Killer 4.20	4.20	P
O. M. SCOTT & SONS	0.642	0.72	Р
Clout Crab Grass Blaster	0.04	0.12	•
UNITED COOPERATIVES, INC.	400000000000000000000000000000000000000		
Unico Crab Grass Granules	27.475	28.50	P
Do	27.47	30.70	P

<sup>&</sup>lt;sup>1</sup>Derived from Calcium Acid Methyl Arsonate.

 $<sup>^{2}</sup>$  Derived from Disodium Methylarsonate Hexahydrate.

<sup>&</sup>lt;sup>3</sup>Derived from Octyl Ammonium Methyl Arsonate and Dodecyl Ammonium Methyl Arsonate.

<sup>&</sup>lt;sup>4</sup>Derived from Calcium Propyl Arsenate and Calcium Methyl Arsenate.

<sup>&</sup>lt;sup>5</sup>Derived from Tri-Calcium Arsenate.

# ANALYSES OF PRODUCTS CONTAINING CO-RAL

	Co-Ral		
Registrant Product	Guaranteed %	Found %	Remarks
CHEMAGRO CORPORATION Co-Ral 25% Wettable Powder Livestock Insecticide	25.0	24.9	P
RALSTON PURINA COMPANY Co-Ral Livestock Insecticide (25% Wettable Powder)	25.0	25.0	Р

# ANALYSES OF PRODUCTS CONTAINING DACTHAL

Registrant Product	Dacthal			
	Guaranteed %	Found %	Remarks	
DIAMOND ALKALI COMPANY Dacthal W-75 Do	75.0	74.4	P	
	75.0	73.0	P	
SWIFT & CO., AGR. CHEMICAL DIV. Vitogro Crabgrass Preventer Do	2.30	2.10	P	
	2.53	2.44	P	

# ANALYSES OF PRODUCTS CONTAINING DDD (TDE)

	DDD (TD	E)	
Registrant Product	Guaranteed %	Found %	Remarks
AG SUPPLY COMPANY AG Rhothane Emulsion Do	23.9 23.9	24.2 25.0	P P
R. M. FLOWERS COMPANY Flowers DDD 2-E	25.5	24.5	X
PEOPLES FARM SUPPLY Ford Brand DDD 2-E	25.2	24.5	X
RIGO MANUFACTURING COMPANY Kill-Ko 25% Rhothane Emulsifiable Cond	25.0	26.6	Р
TOBACCO STATES CHEMICAL COMPANY Tobacco States 2 lb. Rhothane Emul. Co Do Tobacco States 25% Rhothane Emul. Cor	45.0	25.6 23.9 23.9	P P P
UNITED COOPERATIVES, INC. Unico TDE Emulsifiable Concentrate Do Do	23.4 23.4 23.4	24.2 23.0 24.8	P P P
WEIL-ELLIOTT CHEMICAL COMPANY, IN Ken-Ko Tobacco Worm Killer	IC. 23.56	24.8	Р

### ANALYSES OF PRODUCTS CONTAINING DDVP

	DDVF	)		
Registrant	Guaranteed	Found		
Product	%	%	Remarks	
AG SUPPLY COMPANY				
New "DDVP" Fly Bait	0.50	0.44	<u>X</u>	
ALLIED DRUG PRODUCT COMPANY				
Allied Fly Cake	0.25	0.47	X	
WM. COOPER & NEPHEWS, INC. Cooper Super Bait Fly Killer	0.50	1.06	<u>x</u>	
			-	
E. JOSEPH COSSMAN & COMPANY	0.25	0 12	D	
Cossman Fly Cake Do	0.25	$\frac{0.12}{0.10}$	D D	
Do	0.25	0.10	P	
Do	0.25	0.36	P	
Do	0.25	0.05	D	
Do	0.25	0.11	Ē	
Do	0.25	0.17	ם ם ם	
FRANK J. CURRAN COMPANY				
Good By Mr. Fly	0.25	0.05	DX.	
DIXI-CHEM COMPANY				
Di-Sect Fly Bait With DDVP	0.50	0.56	P	
EAGLE CHEMICAL COMPANY, INC.				
Flipo Special Fly Cakes	0.25	0.58	P	
Flipo Fly Cakes With DDVP	0.25	0.46	P	
THE FARNAM COMPANY				
Farnam Die-Fly 3-Way Sugar-Base				
Fly Killer	0.50	0.02	DX	
FLY-CORD, INC.				
Flyco Brand Face Fly Bait contains DDV	P 0.50	0.07	DX	
Flyco Face Fly Bait	0.20	$\frac{0.07}{0.67}$	$\frac{DX}{X}$	
GLOBE LABORATORIES, INC.				
Globe Sud-N-Deth Fly Bait	0.50	0.24	DX	
HOT SHOT QUALITY PRODUCTS COMPANY				
Hot Shot Fly Cake	0.30	0.48	P	
FUICH CHEMICAL COMPANY INC				
LEHIGH CHEMICAL COMPANY, INC. Expel Fly Cake	0.25	0.54	P	
Do Do	0.25	0.56	P	
Do	0.25	0.57	P	
Do	0.25	0.54	P	
Do	0.25	0.59	P	
Do	0.25	0.58	P	
PRATT LABORATORIES, INC.				
Pratts Fly Bait (DDVP)	0.50	0.03	DX	

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

	DDVP			
Registrant	Guaranteed	Found		
Product	%	%	Remarks	
RALSTON PURINA COMPANY Purina Fly Bait (Dry Killer) Purina New Formula Fly Bait (Dry Kille Do Purina DDVP Fly Bait Dry Killer Purina Fly Bait (Sugar Base)	0.30 0.30 0.30 0.30 0.30 0.30	$\begin{array}{c} 0.04 \\ 0.21 \\ \hline 0.04 \\ 0.17 \\ \hline 0.14 \\ 0.11 \end{array}$	חוחוחוחום	
Purina New Formula Fly Bait	0.30	0.11	므	
RIGO MANUFACTURING COMPANY Kill-Ko Fly Bait Do Kill-Ko Fly Cake Do New Kill-Ko Fly Cake Kill-Ko Sugar Base Fly Bait Do Kill-Ko Fly & Mosquito Spray Do Do	0.50 0.50 0.25 0.25 0.25 0.50 0.50 0.46 0.46	0.55 0.49 0.78 0.60 0.78 0.57 0.52 0.48 0.52 0.50	P P X P P X P P	
UNITED COOPERATIVES, INC.  Unico DDVP Face Fly Syrup  Do  Unico DDVP Fly Syrup  Do  Unico DDVP Stock Spray  Do  Do  Do  Do	0.20 0.20 0.20 0.50 0.50 0.92 0.92 0.92	0.08 0.05 0.32 0.65 0.53 1.40 1.39 1.41 1.44	DIDIP P P P P P P	
WHITMOYER LABORATORIES, INC. Whitmoyer Fly-Stik	0.25	0.08	DX	

# ANALYSES OF PRODUCTS CONTAINING ENDOSULFAN (THIODAN)

[1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	ENDOSULFAN (THIODAN)		
Registrant	Guaranteed %	Found %	Remarks
Product	70	70	
BLUE GRASS CHEMICAL COMPANY, INC			
E-Z-Flo Thiodan	24.0	24.4	P
Do	24.0	24.3	P
Do	24.0	24.0	P
FMC CORPORATION, NIAGARA CHEM. D	IV.		
Thiodan Miscible Insecticide	24.0	23.5	P
Do	24.0	24.0	P
		(Contin	nued)

# ANALYSES OF PRODUCTS CONTAINING ENDOSULFAN (THIODAN) (Cont'd.)

E	ENDOSULFAN (THIODAN)		
Registrant	Guaranteed	Found	
Product	% .	%	Remarks
TOBACCO STATES CHEMICAL COMPANY			
Thiodan 2 Emulsifiable Concentrate	24.0	24.5	P
Do	24.0	22.4	D
Do	24.0	24.2	Р
UNITED COOPERATIVES, INC. Unico Thiodan Emulsifiable Concentrat	e 22.8	22.6	P

# ANALYSES OF PRODUCTS CONTAINING MALATHION

	MALATH	IION	
Registrant	Guaranteed	Found	Remarks
Product	%	%	Remarks
AG SUPPLY COMPANY  Malathion Emulsion	50.0	56.9	P
Do	50.0	57.1	P
Do	50.0	55.4	P
THE BOURBON COMPANY	t 5.0	4.56	Р
Bourbon 5% Malathion Ready Mixed Dus	1 3.0		
CALIFORNIA CHEMICAL COMPANY		<b>5</b> 1. 2	_
Ortho Malathion 50 Spray	50.0 50.0	51.2 52.0	P
Do	50.0	32.0	•
WM. COOPER & NEPHEWS, INC.			
Cooper Kilathon Dry Fly Bait	2.0	2.7	X
E. I. DUPONT DE NEMOURS & COMPANY			
Dupont Aphid & Mite Spray	50.0	45.2	D
Bupont Tipme & miss speed			
DIXI-CHEMICAL COMPANY	2.0	0.2	D
Dixi Kill Malathion Fly Bait	2.0	0.2	ם
FMC CORPORATION, NIAGARA CHEM. DI	v.		
Niagara Aqua Malathion - 8	80.55	81.5	P
GOOD-LIFE CHEMICALS, INC. Good-Life 4% Malathion Dust	4.0	3.82	x
Good-Life 4% Marathron Dust			
RALSTON PURINA COMPANY		53.4	_
Purina Malathion Spray	50.0	53.4 53.6	P P
Do	50.0	52.4	P
Do	30.0		

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

	_ MALATH	ION	
Registrant	Guaranteed	Found	
Product	%	%	Remarks
RIGO MANUFACTURING COMPANY			
Kill-Ko Malathion 50% Emulsifiable	50.0	50.0	P
Do	50.0	49.7	P
Do	50.0	49.9	P
Do	50.0	50.7	P
Bo			
SOUTHERN STATES COOPERATIVE, INC.			
Statesman Louse & Flea Powder	5.0	4.59	P
biardoman Board & 2 2 au 2 au 3 au			
TOBACCO STATES CHEMICAL COMPANY,	INC.		
50% Malathion Emulsion Concentrate	50.0	51.7	P
Do	50.0	51.9	P
Do	50.0	51.3	P
57% Malathion Emulsifiable Concentrate	57.0	58.0	P
UNITED COOPERATIVES, INC.			
Malathion Dust	5.0	5.38	P
Malathion Spray Powder	25.0	23.9	P
Do	25.0	24.3	P
Malathion Wettable Powder	25.0	22.0	D P
Malathion 51 Spray	51.3	51.5	P
Do	51.3	51.2	P
Do	51.3	51.1	P
Do	51.3	52.2	P
Do	51.3	54.9	P
Malathion Grain Spray	56.6	60.2	P
Do	56.6	61.2	P
WEIL-ELLIOTT CHEMICAL COMPANY, IN	IC.		
Ken-Ko 50% Malathion	50.0	55.5	P
WOOLFOLK CHEMICAL WORKS, LTD.			
Security 5% Malathion Dust	5.0	4.57	P
Security 25% Malathion Wettable Powde		22.2	D P
Security 55% Malathion	55.0	55.8	P

### ANALYSES OF PRODUCTS CONTAINING M H - 30

	мн-	M H - 30	
Registrant Product	Guaranteed %	Found %	Remarks
UNITED STATES RUBBER, NAUGATUC M H - 30 Plant Growth Inhibitor	K CHEM. DIV.	30.2	P
Do	30.0	29.9	P
Do	30.0	30.2	P
이 보고 있는데 그 선생님이 되었다면 하면 이 아무지 않는데 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데	30.0	30.7	P
Do	30.0		
Do Do	30.0	30.2	P

### ANALYSES OF PRODUCTS CONTAINING PARATHION

	PARATH		
Registrant Product	Guaranteed %	Found %	Remarks
FMC CORPORATION, NIAGARA CHEM. DI Niagara Phos Kil Spray	V.	14.7	P
Do Do	15.0	15.1	P
TOBACCO STATES CHEMICAL COMPANY Parathion 2# Emulsifiable Concentrate	24.25	33.7	Р
WOOLFOLK CHEMICAL WORKS, INC. Security Methyl Parathion	25.0	24.9	Р

### ANALYSES OF PRODUCTS CONTAINING SESONE

	SESONE			
Registrant Product	Guaranteed %	Found %	Remarks	
AMCHEM PRODUCTS, INC. Sesone	90.0	93.5	P	

### ANALYSES OF PRODUCTS CONTAINING SEVIN

Registrant Product	SEVIN			
	Guaranteed %	Found %	Remarks	
CABELL CHEMICAL COMPANY				
Cabell's Sevin Dust	2.0	1.77	X	
CALIFORNIA CHEMICAL COMPANY Ortho Sevin Garden Spray	50.0	50.3	P	
CENTRAL CHEMICAL CORPORATION Farmrite Sevin 50-W	50.0	50.3	P	
CHEMICAL FORMULATORS, INC. Chemform Brand Sevin Wettable Spray Powder	50.0	47.2	DX	
E-Z FLO CHEMICAL COMPANY				
E-Z Flo Dust #2S Do	2.0	$\frac{1.02}{1.0}$	D	
E-Z Flo Dust #5S	5.0	$\frac{1.0}{4.47}$		
Do	5.0	5.21		
Do Sevin 50-W Insecticide	5.0 50.0	4.96	P P	

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

	SEVIN			
Registrant Product	Guaranteed %	Found %	Remarks	
TVG GODDOD (TOO)				
FMC CORPORATION, NIAGARA CHEM. DIV Niagara Sevin 5 Dust	5.0	4.93	P	
MILLER CHEMICAL & FERTILIZER CORP.				
Miller Sevin 50% Wettable Powder	50.0	48.6	<u>X</u> <u>X</u>	
Do	50.0	49.1	X	
Do	50.0	48.3	X	
RIGO MANUFACTURING COMPANY				
Kill-Ko Vegetable Dust	1.75	2.0	P	
Do	5.0	5.21	P	
SOUTHERN STATES COOPERATIVE, INC.				
Statesman 3% Sevin Dust	3.0	3.42	P	
Do	3.0	3.35	P	
Statesman Bean & Potato Dust	5.0	5.21	P	
TOBACCO STATES CHEMICAL COMPANY				
Tobacco States 1 3/4% Bean Dust	1.75	1.42	D	
Do	1.75	1.42	DIDIP	
Tobacco States Vegetable Dust	5.0	4.75	P	
Do	5.0	4.83	P	
Do	5.0	4.98	P	
Tobacco States Flea Beetle Dust	5.0	4.04	D P	
Tobacco States 10% Sevin Dust	10.0	9.91		
Tobacco States Tobacco Insect Dust	10.0	10.27	P	
UNION CARBIDE CHEMICAL COMPANY				
Crag Sevin	80.0	82.2	P	
WOOLFOLK CHEMICAL WORKS, LTD.				
Security 5% Sevin Garden Dust	5.0	5.06	P	

### ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE

	SODIUM HYPOC	SODIUM HYPOCHLORITE	
Registrant	Guaranteed	Found	
Product	%	%	Remarks
BARTON CHEMICAL COMPANY			
Sav-A-Day Bleach	5.25	4. 92	X
BEST SALES COMPANY			
Best White Laundry Bleach	5. 25	$\frac{4.04}{3.20}$	D D
Do	5.25	3.20	D
THE CLOROX COMPANY			
Clorox Bleach	5.25	5.27	P
Do	5.25	5.42	P
Do	5.25	5.45	P
		(Contin	ued)

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

<u>S</u>	SODIUM HYPOCHLORITE		
Registrant	Guaranteed	Found	
Product	%	%	Remarks
GYNADDY AND MANHEACHINDING CO			
CUMBERLAND MANUFACTURING CO.  Britex Bleach	5. 25	4.50	D
Do Do	5. 25	4.66	<u>D</u> D
D6	3.10		_
DELTOX CHEMICAL COMPANY		4 01	D
Stawite Laundry Bleach	5.0	4.81	P P
Do	5.0 5.0	4.77	P
Del-Tox Bleach	5.0	7.1	•
EAVEY-SUPER VALU, INC.			
Eavey's Chlorite Liquid Bleach	5.25	3.98	DX
FISCHER PRODUCTS COMPANY, INC.			
White Arrow Bleach	5.25	5.78	X
GREAT ATLANTIC & PACIFIC TEA CO., I	NC.		
Bright Sail Laundry Bleach	5.25	5.50	P
Do	5.25	5.47 5.85	P P
Do	5. 25 5. 25	5.69	P
Do	5.45	3.07	-
HAFNER GROCER COMPANY			
Chloro-San Household Bleach	5.25	5.58	X
HOUCHENS			
Our Special Bleach	5.25	4.68	DX
Do	5.25	$\frac{4.68}{5.20}$	DX P
McKNIGHT-KEATON GROCERY COMPAN	5.25	3.69	DX
Chloro-San Household Bleach	5.25	3.07	DK.
MAGIC BLEACH			
Magic Household Bleach	5.25	5.49	P
THE MIAMI PRODUCTS & CHEMICAL CO			
Blink	5.25	5.0	P
Do	5.25	5.13	P
Wite Way Bleach	5.25	5.0	P
NU-WAY PRODUCTS, INC. Nu-Way Professional Type Bleach	5.25	4.60	DX
Nu-way Professional Type Bleach			
PARKVIEW IGA STORE			v
Little Skipper Laundry Bleach & Clear	ner 5.25	5.76	X
DUREY CORDORATION LTD			
PUREX CORPORATION, LTD.  Magic Household Bleach	5.25	5.55	P
Fleecy White Bleach	5.25	5.46	P
\$18.00 Med 20.00	5. 25	5.48	P
Do	5.25	5.31	P
Do	5.25	4.90	P
Do Di l	5.25	5.55	P
Purex Bleach			P
Do	5.25	5.85	P
Do	5.25	5.01	Р

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

	SODIUM HYPOC	CHLORITE	_
Registrant Product	Guaranteed %	Found %	Remarks
ROMAN CLEANSER COMPANY	5.25	5.9	P
Roman Cleanser Bleach	5.25	5.02	P
Do Do	5.25	5.63	P
SAPO ELIXIR COMPANY			
Sapo Brand Bleach	5, 25	5.48	Р
THE SINCLAIR MANUFACTURING CO.			
Sunrae	5.25	$\frac{4.47}{5.60}$	<u>D</u> P
Do	5.25 5.25	5.60	P P
Do White Manday Planch	5.25	5.49	P
White Monday Bleach Do	5.25	4.62 5.36	D P
Do	5.25	5.36	P
TEXIZE CHEMICALS, INC.			
Texize Bleach	5.25	5.63	P
TRU-WAY PRODUCTS DIVISION	F 25	F	v
Tru-Way Bleach	5, 25	5.57	<u>X</u>

# ANALYSES OF PRODUCTS CONTAINING TOXAPHENE

	TOXAPHENE		
Registrant Product	Guaranteed %	Found %	Remarks
WORDEN MANUFACTURING COMPANY Stockgrower's "Best" Pest Control	5.0	5.04	P

### ANALYSES OF PRODUCTS CONTAINING ZYTRON

	ZYTRON		
Registrant Product	Guaranteed %	Found %	Remarks
THE DOW CHEMICAL COMPANY Dow Crabgrass Killer Granules	4.4	5.5	P

# ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES

Active Ingredient	d Found	Remark
Anchor Dry Fly Bait	-/0	Remark
Anchor Dry Fly Bait		
Malathion   2.00   DDVP		
BLUE GRASS SUPPLY COMPANY, INC.  E-Z-Flo Tobacco Worm & Grasshopper Spray	2.34	P
E-Z-Flo Tobacco Worm & Grasshopper Spray	0.09	P
E-Z-Flo Tobacco Worm & Grasshopper Spray		
Dieldrin   2.19		
BOYLE-MIDWAY INC.   New Black Flag Liquid Ant & Roach Killer   Dieldrin   DDVP   Do   Do   DDVP   Do   Do   DDVP   Do   DDVP   Do   DDVP   Do   Do   DDV	25.10	P
New Black Flag Liquid Ant & Roach Killer   Dieldrin   DDVP   Do   Do   DDVP   Do   DDVP   Do   DDVP   Do   DDVP   Do   DDVP   Do   Do   DDVP   DO	*	
Dieldrin   DDVP   O.19		
DDVP 0.19  CALIFORNIA CHEMICAL COMPANY Ortho Fly Killer Dry Bait		
CALIFORNIA CHEMICAL COMPANY         0rtho Fly Killer Dry Bait           Malathion         1.00           DDVP         0.50           Do         Malathion         2.00           DDVP         0.05           Do         Malathion         1.00           DDVP         0.05           Do         Malathion         1.00           DDVP         0.50           Do         Malathion         1.00           DDVP         0.50	*	
Ortho Fly Killer Dry Bait         Malathion         1.00           DDVP         0.50           Do         Malathion         2.00           DDVP         0.05           Do         Malathion         1.00           DDVP         0.05           Do         Malathion         1.00           DDVP         0.50           Do         Malathion         1.00           DDVP         0.50           Do         Malathion         1.00           DDVP         0.50	0.19	P
Ortho Fly Killer Dry Bait         Malathion         1.00           DDVP         0.50           Do         Malathion         2.00           DDVP         0.05           Do         Malathion         1.00           DDVP         0.05           Do         Malathion         1.00           DDVP         0.50           Do         Malathion         1.00           DDVP         0.50           Do         Malathion         1.00           DDVP         0.50		
Malathion       1.00         DDVP       0.50         Do       Malathion       1.00         Do       Malathion       1.00         DDVP       0.50         Do       Malathion       2.00         DO       Malathion       2.00         DDVP       0.05         Do       Malathion       1.00         DDVP       0.50		
DDVP	*	
Do	0.07	D
DDVP	<u> </u>	2
Do	*	
Malathion DDVP       1.00 0.50         Do       Malathion DDVP       0.05         Do       Malathion DDVP       0.05         Do       Malathion DDVP       0.01         Do       Malathion DDVP       0.50         Malathion DDVP       0.50         Malathion DDVP       0.50         Malathion DDVP       0.50	0.11	D
DDVP		
Do	*	
Malathion DDVP       1.00         DO       Malathion DDVP       0.50         DO       Malathion DDVP       0.05         DO       Malathion DDVP       0.05         DO       Malathion DDVP       0.01         DO       Malathion DDVP       1.00         DO       Malathion DDVP       0.50         DO       Malathion DDVP       0.50         DO       Malathion DDVP       0.50         DO       Malathion DDVP       0.50	0.00	<u>D</u>
DDVP	*	
Do	0.00	D
DDVP		
Do	*	
Malathion DDVP       1.00 D0 D0         Do Malathion DDVP       1.00 D0 D0         Do Malathion DDVP       1.00 D0 D0         Do Malathion DDVP       2.00 D0 D0         Malathion DDVP       0.05         Do Malathion DDVP       1.00 D0         Do Malathion DDVP       0.01         Do Malathion DDVP       1.00 D0         Do Malathion DDVP       0.50         Do Malathion DDVP       0.50	0.06	D
DDVP 0.50  Do		
Do	*	_
DDVP	0.07	D
DDVP	*	
Malathion DDVP       1.00         Do       0.50         Malathion DDVP       2.00         Do       Malathion DDVP       1.00         Do       Malathion DDVP       0.01         Do       Malathion DDVP       0.50         Do       Malathion DDVP       0.50         Do       Malathion DDVP       0.50	0.03	D
DDVP 0.50  Do		$\overline{z}$
Do	*	
Malathion       2.00         DDVP       0.05         Do       Malathion       1.00         DDVP       0.01         Do       Malathion       1.00         DO       0.50         Do       Malathion       1.00         DDVP       0.50	0.05	D
DDVP 0.05  Do		
Do	1.44	D
DDVP 0.01  Do	*	
DDVP 0.01  Do	0.58	D
Do	*	=
DDVP 0.50 Do Malathion 1.00 DDVP 0.50		
Do Malathion 1.00 DDVP 0.50	*	
Malathion 1.00 DDVP 0.50	0.04	D
DDVP 0.50		
	*	_
Do	0.07	D
Malathion 1.00	*	
DDVP 0.50	0.03	D

# ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES (Cont'd.)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
	d \		
CALIFORNIA CHEMICAL COMPANY (Cont Ortho Tobacco Spray D		-/ 10	T.
DDD (TDE)	24.50	26.10	P
Dieldrin	2.30		
Do DDD (TDE)	24.50	25.70	P
Dieldrin	2.30	*	
Do (MDE)	24.50	25.20	P
DDD (TDE) Dieldrin	2.30	*	
Do	24.50	24.40	P
DDD (TDE)	2.30	*	
Dieldrin Do		25 50	Р
DDD (TDE)	24.50	25.50	r
Dieldrin	2.30		
CHEMICAL FORMULATORS, INC.			
Chemform Brand Baricide Insecticide	3.00	1.34	DX
Malathion	1.50	1.30	DX
Sevin			
DIXI-CHEMICAL COMPANY			
Di-Sect Malathion Fly Bait	1.00	*	
Malathion DDVP	1.00	0.17	₽
EAGLE PRODUCTS COMPANY, INC.			
Flipo Special Fly Bait		2.10	ъ
Malathion	2.00 0.20	2.19 0.18	P
DDVP	0.20	0.10	
Do Malathion	2.00	2.10	P
DDVP	0.20	0.20	Р
ELANCO PRODUCTS COMPANY			
Greenfield Triple Action Crab Grass	Killer	4.98	P
Diphenatrile	4.59 0.46	0.52	
Heptachlor Trifluralin	0.09	0.11	
	D.117		
FMC CORPORATION, NIAGARA CHEM.	DIV.		
Niagara DDD Dieldrin Tobacco Spray DDD (TDE)	24.30	26.00	P
Dieldrin	2.29	*	
J. M. HARRIS & COMPANY, INC.			
Blue Dragon Dust	2 00	1.82	P
Sevin	2.00	*	
Sulphur Dust	10.00		
Copper Dragon Dust Sevin	2.00	1.94	
Copper (metallic)	7.00	7.16	6 P
		(Cont	inued)

# ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES (Cont'd.)

Registrant Product		Guaranteed	Found	
Act	ive Ingredient	%	%	Remarks
HOT SHOT	QUALITY PRODUCTS, INC.			
Hot Shot	Fly Bait			
	athion	1.00	*	
DD	/P	0.50	0.31	D
Do				
	athion	1.00	*	
Do DDV	/P	0.50	0.24	<u>DM</u>
	athion	1.00	*	
DDV		0.50		<b>D</b>
Do		0.50	0.36	D
Mal	athion	1.00	1.23	P
DDV	P	0.50	0.57	P
Do				
	athion	1.00	1.35	P
DDV	P	0.50	0.49	P
Do				
	athion	1.00	1.15	P
DDV Do	P	0.50	0.45	P
	athion	1 00	1 27	
DDV		1.00 0.50	1.27 0.55	P P
DDV	erex	0.25 0.25	0.37	P
	ithion	1.00	*	
DDV		0.50	0.03	DV
Do		0.30	0.05	DX
Mala	thion	1.00	*	
DDV	P	0.50	0.03	DX
Do				
	thion	1.00	*	
DDV	New Formula - Fly Bait	0.50	0.02	DX
DDV	P	0.25	0.11	
Dipt		0.25 0.25	0.44	P
		0.23		
IGO MANUF	ACTURING COMPANY			
Kill-Ko V	Vorm & Hopper Spray			
Diele		2.13	2.17	P
Do DDD	(TDE)	22.70	24.00	P
Dielo	luin	2.12		
	(TDE)	2.13	2.33	P
Do	\	22.70	24.00	P
Dielo	lrin	2.13	*	
DDD	(TDE)	22.70	22.90	P
Kill-Ko F	'ly Bait			
Mala	thion	1.00	1.20	P
DDV				

ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES (Cont'd.)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
RIGO MANUFACTURING CO. (Cont'd.) Kill-Ko 3 in 1 Garden Dust			
Methoxychlor	5.00	5. 19 3. 81	P P
Captan	4.00 1.75	1.77	P
Sevin	•••		
TOBACCO STATES CHEMICAL COMPANY			
Tobacco States Instant Fly Bait	1.00	*	
Malathion DDVP	0.50	0.14	D
Tobacco States Hopper & Worm Spray	2.13	1.92	P
Dieldrin	22.70	22.20	P
DDD (TDE) Do	2.12	*	
Dieldrin	2.13 22.70	24.90	P
DDD (TDE)			
Do Dieldrin	2.13	* 24.90	Р
DDD (TDE)	22.70	24.70	
Do Dieldrin	2.13	*	_
DDD (TDE)	22.70	24.00	Р
UNITED COOPERATIVES, INC.			
Unico Kill Fly		0.02	Р
Malathion	1.00 0.50	0.92	P
DDVP	0.30		
Do Malathion	1.00	1.04	P P
DDVP	0.50	0.50	•
Do Malathion	1.00	0.97	P
DDVP	0.50	0.49	Р
Do	1.00	1.00	P
Malathion DDVP	0.50	0.45	P
Do	1 00	0.94	P
Malathion	1.00 0.50	0.49	P
DDVP Do			
Malathion	1.00 0.50	1.09 0.53	P P
DDVP Unico TDE Dieldrin Emulsifiable Co		0.33	
DDD (TDE)	45.40	24.30	
Dieldrin	2.20	1.99	Р
Do DDD (TDF)	23.20	26.10	P
DDD (TDE) Dieldrin	2.20	*	
Do	23.20	24.90	Р
DDD (TDE) Dieldrin	2.20	*	
Dicidiii			

### ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES (Cont'd.)

Registrant Product	Guaranteed	Found	
Active Ingredient		%	Remarks
UNITED COOPERATIVES, INC. (Cont's	d.)		
Unico TDE Dieldrin Emul. Conc. (	Cont'd.)		
DDD (TDE)	23.20	24.50	P
Dieldrin	2.20	*	
Do			
DDD (TDE)	23.20	24.90	P
Dieldrin	2.20	*	
WELL BLLIOMM CHEMICAL CO. INC.			
WEIL-ELLIOTT CHEMICAL CO., INC.	•		
Ken-Ko Tobacco Worm & Grass-			
hopper Spray DDD (TDE)	23.36	24.80	P
Dieldrin	2.19	*	-
Do	2.17		
DDD (TDE)	23.36	23.70	P
Dieldrin	2.19	*	
Do			
DDD (TDE)	23.36	23.50	Р
Dieldrin	2.19	*	
Do			
DDD (TDE)	23.36	25.00	P
Dieldrin	2.19	*	

<sup>\*</sup>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 nonchlorophyll 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;

"Inert ingredient" means an ingredient which is not an active ingredient. (12) (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 orgroup of persons whether incorporated or not; ganized

"Director" means the Director of the Kentucky Agricultural Experiment Station; (15) (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 mecessary 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 pre-

sented 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:

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 state-

ment 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 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;

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.

 The Director is authorized, after opportunity for a hearing:
 To declare as a pest any form of plant or invertebrate animal 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

(c) After due public hearing, to make, promulgate, alter, change, rescind such rules the state; 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;

If it shall appear from examination or evidence that any of the provisions of penalties. 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 govern-

ment 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)