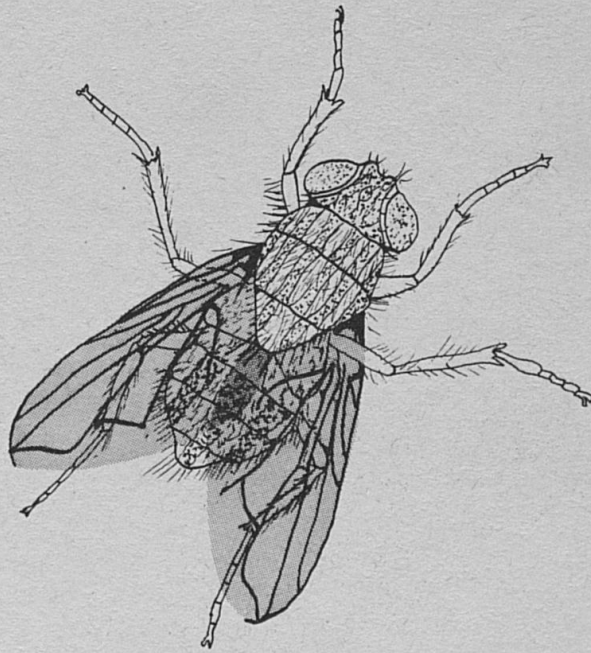


REGULATORY BULLETIN 154

KENTUCKY

ECONOMIC POISONS REPORT

FOR 1958



UNIVERSITY OF KENTUCKY

AGRICULTURAL EXPERIMENT STATION

LEXINGTON

FEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT STATION

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Prepared by David M. Daugherty and Bruce Poundstone
Analytical data by the Laboratory Staff

COMPANIES LICENSED UNDER KENTUCKY ECONOMIC POISONS LAW IN 1958

Abbott Laboratories, 1400 Sheridan Road, North Chicago, Illinois
ABCO, Incorporated, 705 Fifth Avenue, McKeesport, Pennsylvania
Abmor Associates, Inc., 515 Flushing Avenue, Brooklyn 5, New York
Ace Exterminating Company, 3934 Bardstown Road, Louisville 18, Kentucky
Aceline Products Corporation, 27 Gorham Street, Rochester 1, New York
Acme Quality Paints, Inc., 8250 St. Aubin Avenue, Detroit 11, Michigan
Aero-Sanitation Company, 325 West Pacific Avenue, St. Louis 19, Missouri
"Ag" Supply Company, Old Clarksville Road, Hopkinsville, Kentucky
Airkem, Incorporated, 241 East 44th Street, New York 17, 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 & Dye Corp., Barrett Division, 40 Rector Street, New York 6, N. Y.
Allied Chemical & Dye Corp., General Chemical Div., 40 Rector St., New York 6, N.Y.
Allied Drug Products Company, 16th & Pierce Streets, Chattanooga 1, Tennessee
American Aerovap, Inc., 1125 University, Des Moines 14, Iowa
American Chemical Paint Company, Ambler, Pennsylvania
American Cyanamid Company, 30 Rockefeller Plaza, New York 20, New York
American Exterminator, Inc., 817 Race Street, Cincinnati, Ohio
American Lace Paper Company, 4425 N. Port Washington Road, Milwaukee, Wisconsin
American-Marietta Company, 901 N. Greenwood Avenue, Kankakee, Illinois
American Mothproofing Company, 2510 Hampton Avenue, St. Louis 10, Missouri
American Nicotine & Chemical Company, Henderson, Kentucky
American Scientific Laboratories, P. O. Box 232, Madison 1, Wisconsin
American Sterilizer Company, 2424 West 23rd Street, Erie, Pennsylvania
Amsco Chemical Company, 701 North Main Street, Memphis, Tennessee
The Antimite Company, 5137 Southwest Avenue, St. Louis 10, Missouri
Arkansas Fuel Oil Corporation, P. O. Box 1117, Shreveport, Louisiana
Armour Fertilizer Works, P. O. Box 1088, Nashville, Tennessee
Arnold Laboratories, P. O. Box 111, 206 Spring Street, New Castle, Indiana
Arnott Chemical & Exterminating Co., Inc., 249 Massachusetts Ave., Indianapolis, Ind.
Asco Electronics Company, 26 Essex Street, Andover, Massachusetts
Associated Sales & Supply Company, 5137 Southwest Avenue, St. Louis 10, Missouri
Associated Seed Growers, Inc., 15 Main Street, Cambridge, New York
Auto Chlor System, 746 Poplar, Memphis, Tennessee
Avon Products, Inc., 30 Rockefeller Plaza, New York 20, New York
B & M Products Company, P. O. Box 213, Springfield, Tennessee
W. H. Barber Company, 3650 South Homan Avenue, Chicago 32, Illinois
Barnett & Company, 825 S. Meridian Street, Indianapolis, Indiana
Bauer & Black, Div. of the Kendall Co., 309 W. Jackson Blvd., Chicago 6, Illinois
Ben Venue Laboratories, Inc., 270 Northfield Road, Bedford, Ohio
F. W. Berk & Company, Inc., Park Place East, Wood-Ridge, New Jersey
Berlout Manufacturing Company, 421 Monroe Street, Marion, Ohio
Better Brushes, Inc., 9-13 Church Street, Palmer, Massachusetts
Big Four Feed & Implement Company, Maple & Cemetery Streets, Scottsville, Ky.
Black Panther Company, Inc., P. O. Box 132, Sanford, North Carolina
Bleach Products Company, Inc., 517 Russell Street, Charleston, West Virginia
Blitz Products, Inc., P. O. Box 776, Foley, Alabama
Blue Grass Supply Company, 1091 W. High Street, Lexington, Kentucky
Bluegrass Plant Foods, Inc., 447 North Main, Cynthiana, Kentucky
Bolender Plant Chemicals, Inc., Tipp City, Ohio
Bonide Chemical Company, 382 N. Genesee Street, Utica 4, New York
The Bourbon Company, P. O. Box 466, Lexington, Kentucky
Boyer Chemical Company, 1161 Church Street, Evanston, Illinois
Boyle-Midway, Inc., 22 East 40th Street, New York 16, New York
Bridgeport Brass Company, 30 Grand Street, Bridgeport, Connecticut
E. L. Bruce Company, P. O. Box 397, Memphis, Tennessee
Brulin & Company, Inc., 2939-45 Columbia Avenue, Indianapolis 7, Indiana
Cabell Chemical Company, 101 22nd Street, Huntington 3, West Virginia

California Spray-Chemical Corp., Lucas and Ortho Way, Richmond, California
Campbell Chemicals, Inc., 9225 Watson Industrial Park, St. Louis 19, Missouri
Carajon Chemical Company, Inc., P. O. Box 167, Fremont, Michigan
Carbola Chemical Company, Inc., Natural Bridge, New York
Carbolineum Wood Preserving Co., 528 West Highland Ave., Milwaukee 3, Wisconsin
Carson Chemicals, Inc., P. O. Box 182, New Castle, Indiana
Cato Oil & Grease Company, 1808 N.E. Ninth Street, Oklahoma City, Oklahoma
Cedar Hill Formulae Company, 234 Steele Street, New Britain, Connecticut
Genol Company, Inc., 3240 West Chicago Avenue, Chicago 51, Illinois
Center Chemical Company, P. O. Box 1888, Atlanta, Georgia
Chambers-Godfrey Manufacturing Company, 304-02 Broadway, Martin, Tennessee
Chapman Chemical Company, P. O. Box 3158, Mallory Station, Memphis 9, Tennessee
Chase Products Company, 20th & Gardner Road, Broadview, Illinois
Chemagro Corporation, 437 Fifth Avenue, New York 16, New York
Chemical Corporation of America, P. O. Drawer 509, Tallahassee, Florida
Chemical Formulators, Inc., P. O. Box 26, Nitro, West Virginia
Chemistry Hall Laboratories, Inc., 2300 - 30th Avenue West, Bradenton, Florida
Chemley Products Company, 5744 North Western Avenue, Chicago 45, Illinois
Chemway Corporation, Fairfield Road, Mountain View, New Jersey
Chestnut & Anderson Supply, East Ninth Street, Hopkinsville, Kentucky
Chipman Chemical Company, Inc., Bound Brook, New Jersey
John Clarke & Company, Inc., 420 Lexington Avenue, New York 17, New York
Clean Home Products, Inc., 507 N. Cardinal Avenue, St. Louis 3, Missouri
W. A. Cleary Corporation, P. O. Box 749, New Brunswick, New Jersey
Click Chemical Corporation, 601 South Columbus Avenue, Mount Vernon, New York
The Clorox Company, c/o Procter & Gamble Co., P. O. Box 599, Cincinnati 1, Ohio
Coahoma Chemical Company, Inc., P. O. Box 728, Clarksdale, Mississippi
E. A. Cohen, Greenville, Kentucky
Colgate-Palmolive Company, 300 Park Avenue, New York 22, New York
Colonial Products, Inc., 6207 Georgia Avenue, West Palm Beach, Florida
Columbian Hog & Cattle Powder Company, 1457 Genesee Street, Kansas City, Missouri
Commonwealth Fertilizer Company, Inc., P. O. Box 388, Russellville, Kentucky
Common Sense Manufacturing Co., Inc., 1392 Niagara Street, Buffalo 13, New York
Connecticut Chemical Research Corporation, 706 Bostwick Ave., Bridgeport 5, Conn.
Continental Chemiste Corporation, 2256 West Ogden Avenue, Chicago 12, Illinois
Cook Chemical Company, 2500 Summit, Kansas City, Missouri
Thomas E. Cook Chemical Company, 305 North Main Street, Springfield, Tennessee
Wm. Cooper & Nephews, Inc., 1909 North Clifton, Chicago 14, Illinois
Cooperative Fertilizer Service, Inc., P.O.Box 65, Camp Taylor Sta., Louisville 13, Ky.
Cooperative Seed & Farm Supply Service, Seventh & Main Streets, Richmond, Virginia
Cowles Chemical Company, 7016 Euclid Avenue, Cleveland, Ohio
S. L. Cowley & Sons Manufacturing Co., 708 West McAlester, Hugo, Oklahoma
Crawford Industries, Inc., West First at Darr Street, Oil City, Pennsylvania
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 South Main Street, Downers Grove, Illinois
Cutter Laboratories, Fourth & Parker Street, Berkeley 10, California
The d-CON Company, Inc., 1450 Broadway, New York 18, New York
Darling & Company, 4201 South Ashland, Chicago 8, Illinois
Darworth Incorporated, P. O. Box 308, Simsbury, Connecticut
Daubert Chemical Company, 4700 South Central Avenue, Chicago 38, Illinois
Davison Chemical Company, P. O. Box 350, New Albany, Indiana
DeKalb Agricultural Association, Inc., 310 North Fifth Street, DeKalb, Illinois
Deseghers, 256 West 31st Street, New York 1, New York
DeSoto Chemical Company, Inc., North DeSoto Avenue, Arcadia, Florida
Diamond Black Leaf Company, P. O. Box 726, Richmond 6, Virginia
The Dill Company, Washington Street & McKinley Avenue, Norristown, Pennsylvania
J. A. Ditman, P. O. Box 186, Laurel, Maryland
Dixi Chemical Company, P. O. Box 1711, Chattanooga, Tennessee
Donaldson Company, Inc., 666 Pelham Boulevard, St. Paul 14, Minnesota
The Dow Chemical Company, Midland, Michigan
Driskell Drug Company, 416 Main Street, Carrollton, Kentucky
Drugmaster, Inc., 5239 Brown Street, St. Louis 15, Missouri

E. I. du Pont de Nemours & Company, 5113 Du Pont Bldg., Wilmington 98, Delaware
Economics Laboratory, Inc., 914 Guardian Building, St. Paul, Minnesota
Electrolux Corporation, 500 Fifth Avenue, New York 36, New York
Emery Industries, Inc., 4200 Carew Tower, Cincinnati 2, Ohio
Empire Laboratories, 700 Marietta Street, N.W., Atlanta, Georgia
Empire Manufacturing Company, 1111 Grand Avenue, Kansas City, Missouri
Henry A. Enrich & Company, Inc., Six East 32nd Street, New York 16, New York
Erbrich Products Company, 1120 East 32nd Street, Indianapolis, Indiana
Esso Incorporated, 15 West 51st Street, New York 19, New York
J. C. Everett Company, Inc., 35 East Second Street, Maysville, Kentucky
Fairfield Chemical Division, P. O. Box 1616, Baltimore 3, Maryland
Farnam Companies, Inc., 711 North First Street, Phoenix, Arizona
Federal Chemical Company, 646 Starks Building, Louisville 2, Kentucky
Federal Chemical Company, Inc., 2701 Winthrop Avenue, Indianapolis 5, Indiana
Alex C. Fergusson Company, 44 East Oregon Avenue, Philadelphia, Pennsylvania
Florida Agricultural Supply Company, 1611 Talleyrand Avenue, Jacksonville, Florida
R. M. Flowers Company, Inc., 156 West Public Square, Russellville, Kentucky
Fly-Cord, Inc., P. O. Box 2006, Savannah, Georgia
Food Machinery & Chemical Corporation, 161 East 42nd Street, New York 17, N. Y.
Fox Hardware, 19 East Center Street, Madisonville, Kentucky
The Frank Tea & Spice Company, 538 East Fifth Street, Cincinnati 2, Ohio
Franklin Research Company, 5134 Lancaster Avenue, Philadelphia 31, Pennsylvania
O. M. Franklin Serum Company, 409 Livestock Exchange Bldg., Denver 16, Colorado
The Fuller Brush Company, 3580 Main Street, Hartford, Connecticut
Furst-McNess Company, 120 East Clark Street, Freeport, Illinois
Gallowhur Chemical Corporation, North Water Street, Ossining, New York
Garden Hose Spray Company, Inc., 7 Upland Road, Cambridge 40, Massachusetts
Garden Products Company, 3246 South Grand Boulevard, St. Louis 18, Missouri
Gaston Johnston Corporation, 24-64 45th Street, Long Island City 3, New York
Geigy Agricultural Chemicals, P. O. Box 430, Yonkers, New York
General Insecticide Company, Inc., P. O. Box 187, Utica, New York
The Glidden Company, 900 Union Commerce Building, Cleveland 14, Ohio
Globe Laboratories, 116 Commerce Street, Fort Worth 2, Texas
H. Clay Glover Company, Inc., 60 Hempstead Avenue, West Hempstead, New York
Good-Life Chemicals, Inc., 310 South First Street, Effingham, Illinois
The Grant Company, 2735 North Ashland Avenue, Chicago, Illinois
The Great Atlantic & Pacific Tea Company, 3041 Wilson Avenue, Louisville, Kentucky
Great Lakes Chemical Corp., Div. Great Lakes Oil & Chemical Corp., 753 Warner Bldg.,
Washington 4, D.C.
Greever's Incorporated, Chilhowie, Virginia
Griffin Chemical Company, 528 Franklin Street, Louisville 2, Kentucky
Earl Grissmer Company, P. O. Box 5992, Indianapolis, Indiana
Guarantee Pest Control Company, 1317 East 13th Street, Bowling Green, Kentucky
Gulf Oil Corporation, P. O. Box 1166, Pittsburgh 30, Pennsylvania
J. M. Harris & Company, Inc., P. O. Box 411, Roanoke, Virginia
P. F. Harris Manufacturing Company, 101 West Eighth, North Little Rock, Arkansas
Harris Products Company, Inc., P. O. Box 4, Miami Beach 39, Florida
Hartz Mountain Products Corporation, 36 Cooper Square, New York 3, New York
Haver-Lockhart Laboratories, 1915 Broadway, P. O. Box 676, Kansas City 41, Mo.
Health-Mor, Incorporated, 203 North Wabash Avenue, Chicago 1, Illinois
Helena Chemical Company, P. O. Box 36, West Helena, Arkansas
Heller Laboratories, Inc., 3925 Calumet Avenue, Chicago 15, Illinois
Hess & Clark, Inc., Seventh & Orange Street, Ashland, Ohio
Hexol, Incorporated, 1500 - 17th Street, San Francisco 7, California
Hillmeyer Nurseries, Georgetown Pike, Lexington, Kentucky
Hillyard Sales Company (Eastern), P. O. Box 909, St. Joseph 1, Missouri
The Hilo Company, P. O. Box 246, Norwalk, Connecticut
J. I. Holcomb Manufacturing Company, 1601 Barth Avenue, Indianapolis 7, Indiana
Hooker Electrochemical Company, Buffalo Ave. & 47th Street, Niagara Falls, N. Y.
Hopkins Agricultural Chemical Company, 124 S. Dickinson Street, Madison, Wisconsin
House of Huston, Inc., 4135 Laguna Street, Coral Gables, Florida
The House of Twain, Inc., 609 N. LaSalle Street, Chicago 10, Illinois
Sam Houston Company, P. O. Box 662, Talladega, Alabama

The Huge' Company, Inc., 884-886 Hodiament Avenue, St. Louis 12, Missouri
Hulman & Company Laboratories, 900 Wabash Avenue, Terre Haute, Indiana
Hutson Chemical Company, West Railroad Avenue, Murray, Kentucky
Humco Laboratory, Inc., 1008 Whitaker Street, Texarkana, Texas
Hy-G Corporation, 130 Russ Street, San Francisco 3, California
Hydroponic Chemical Company, Copley, Ohio
Imperial Chemical Company, P. O. Box 24, Shenandoah, Iowa
Indiana Farm Bureau Cooperative Ass'n, 47 S. Pennsylvania St., Indianapolis 9, Ind.
Industrial Fumigant, 923 State Line, Kansas City, Missouri
International Distributors, Inc., 725 South Fifth Street, Memphis, Tennessee
International Minerals & Chemical Corporation, P.O.Box 67, Lockland 15, Ohio
Irwin-Willert Company, 4044 Park Avenue, St. Louis 10, Missouri
Jewel Tea Company, Inc., 1955 West North Avenue, Melrose Park, Illinois
Raymond Johns Distributing Company, 1506 W. Main St., Louisville 3, Kentucky
S. C. Johnson & Son, Inc., 1525 Howe Street, Racine, Wisconsin
H. D. Jones, 310 North Main Street, Glasgow, Kentucky
Eck Jones, Route #1, Central City, Kentucky
Jones Products Company, Inc., 25 N. Charter Street, Madison 5, Wisconsin
Judson Dunaway Corporation, Third & Grove Streets, Dover, New Hampshire
The K-R-O Company, 19½ North Limestone Street, Springfield, Ohio
The Keever Starch Company, 538 East Town Street, Columbus 15, Ohio
Kelly-Western Seed Div., Utah Cooperative Ass'n, P.O.Box 2310, Salt Lake City 10, Utah
Kentucky Chemical & Supply Company, 256 West Vine Street, Lexington, Kentucky
King Chemical Company, 2336 South Lauderdale, Memphis 6, Tennessee
Klenzade Products, Inc., P. O. Box 1020, Beloit, Wisconsin
Knapp-Monarch Company, 3501 Bent Avenue, St. Louis 16, Missouri
Knoxville Fertilizer Company, P. O. Box 118, Nashville, Tennessee
H. Kohnstamm & Company, Inc., 83-93 Park Place, New York 7, New York
Koppers Company, Inc., Tar Products Div., 430 Park Ave., New York 22, New York
H. B. Fred Kuhls, 6413 Third Avenue, Brooklyn 20, New York
Lamb Products Company, 3728 Hilltop Lane, Nashville, Tennessee
Lang Brothers, 213 Broadway, Paducah, Kentucky
LaSalle Chemical Company, 3601 South Racine, Chicago 9, Illinois
Laurence, Wiest and Sherman, 753 Warner Building, Washington 4, D. C.
Lebanon Chemical Corporation, P. O. Box 532, Lebanon, Pennsylvania
Leeds Chemical Products, Inc., 112 East Walton, Chicago 11, Illinois
Dr. L. D. LeGear Medicine Company, 4161 Beck Avenue, St. Louis 16, Missouri
Lehigh Chemical Company, Inc., 5510 New Cut Road, Louisville 14, Kentucky
Lehn & Fink Products Corporation, 192 Bloomfield Avenue, Bloomfield, New Jersey
Lester Laboratories, Inc., P. O. Box 4897, Atlanta 2, Georgia
The Lewy Chemical Company, 707 Broadway, New York 3, New York
Lien Chemical Company, 9229 West Grand Avenue, Franklin Park, Illinois
O. E. Linck Company, Inc., Route 46 & Valley Road, Clifton, New Jersey
Long Manufacturing Company, 991 Williams Street, San Leandro, California
Andy Lotshaw Company, 1474 West Hubbard Street, Chicago 22, Illinois
Louisville Chemical Company, 601 East Jefferson Street, Louisville, Kentucky
Lowe's Incorporated, 212 York Street, Cassopolis, Michigan
McCormick & Company, Inc., McCormick Building, Baltimore 2, Maryland
McKesson & Robbins, Inc., P. O. Box 548, Bridgeport, Connecticut
McLaughlin Gormley King Company, 1715 Fifth Street S.E., Minneapolis 14, Minnesota
L. C. McLoney & Sons, 316-7 South Church Street, Cynthiana, Kentucky
The Mabex Company, Umbria & Lemonte Streets, Philadelphia, Pennsylvania
Magna Incorporated, 511 Pine, Bensenville, Illinois
Mallinckrodt Chemical Works, 3600 North Second Street, St. Louis 7, Missouri
Maloney Chemical Company, 1520 N. Irwin Avenue, Green Bay, Wisconsin
Mariah Rodenticide Company, Inc., R.F.D. #1, Hi-Way 41 North, Vincennes, Indiana
Masury-Young Company, 76 Roland Street, Boston, Massachusetts
Charles R. Mehle, Insecticides, 2712 Baker Avenue, Cincinnati 11, Ohio
Merck & Company, Inc., Rahway, New Jersey
Michigan Chemical Corporation, 500 N. Bankson Street, St. Louis, Michigan
Mid-South Chemical Corporation, 1222 Riverside Boulevard, Memphis, Tennessee
Midland Laboratories, 210-220 Jones Street, Dubuque, Iowa
Midwest Oil Company, 2500 Minnehaha Avenue, Minneapolis, Minnesota

Miles Laboratories, Inc., 1127 Myrtle Street, Elkhart, Indiana
Miller Products Company, 607 Del Monte Way, St. Louis 12, Missouri
Dumas Milner Corporation, 4359 Northview Drive, Jackson, Mississippi
Minnesota Paints, Inc., 1101 South Third Street, Minneapolis, Minnesota
Minnesota Perlite Corporation, 315 West 86th Street, Minneapolis 20, Minnesota
Monsanto Chemical Company, Lindbergh & Olive Street Road, St. Louis 4, Missouri
Montgomery Ward & Company, Inc., 619 West Chicago Avenue, Chicago, Illinois
E. R. Moore, Georgetown, Kentucky
Moorman Manufacturing Company, Quincy, Illinois
Morton Chemical Company, 120 S. LaSalle Street, Woodstock, Illinois
Motomco, Incorporated, 89 Terminal Avenue, Clark, New Jersey
Muncie Laboratories, Inc., P. O. Box 1129, Marion, Indiana
Murphy Chemical Co., c/o McHutcheson Co., 695 Grand Ave., Box 95, Ridgefield, N.J.
Murphy Products Company, 556 Dodge Street, Burlington, Wisconsin
Edgar A. Murray Company, Electronic Road, Clinton Corners, New York
Mutual Products Company, 509 N. Fourth Street, Minneapolis, Minnesota
Naphthalene Product Company, P. O. Box 6328, Tarrant, Alabama
Nash & Kinsella Laboratories, Inc., 3741 Washington Blvd., St. Louis 8, Missouri
National Aluminate Corporation, 6216 West 66th Street, Chicago 38, Illinois
National Carbon Co., Div. Union Carbide Corp., 30 E. 42nd St., New York 17, N.Y.
National Cooperatives, Inc., 408 First Avenue, Albert Lea, Minnesota
National Laboratories, Inc., 4934 Lewis Avenue, Toledo 12, Ohio
National Paint & Oil Company, 207 North Second Street, Nashville, Tennessee
H. W. Naylor Company, Morris, New York
Niagara Chemical Div., Food Machinery & Chem. Corp., 100 Niagara St., Middleport, N.Y.
Nip-Co Manufacturing, Inc., 200 Main Street, New Rochelle, New York
Northern Industries, Inc., 407 E. Michigan Street, Milwaukee 2, Wisconsin
Nott Manufacturing Company, Inc., P. O. Box 87, Mt. Vernon, New York
Nuodex Products Company, Cornelius Zabriskie, 110 E. 42nd St., New York 17, N. Y.
Odor-Aire, Inc., 330 North Mosley, Wichita, Kansas
Olin Mathieson Chemical Corporation, Mathieson Building, Baltimore 3, Maryland
Olin Mathieson Chemical Corp., Forward House Div., P.O.Box 991, Little Rock, Ark.
One-Spot Company, Jessup, Maryland
Ottawa Chemical Company, 823 Hamilton Street, Toledo, Ohio
Panogen Incorporated, Research Department, Woodstock, Illinois
Panther Oil & Grease Manufacturing Co., P. O. Box 711, Fort Worth, Texas
Paper Products, Inc., 18554 South Susana Road, Long Beach 5, California
Parke, Davis & Company, Jos. Campau at the River, Detroit 32, Michigan
S. B. Penick & Company, 50 Church Street, New York 8, New York
Penn-Champ Oil Corporation, P. O. Box 191, Butler, Pennsylvania
Pennsalt Chemical Corporation, 3 Penn Center Plaza, Philadelphia 2, Pennsylvania
Pennsylvania Engineering Co., 1119-21 Howard Street, Philadelphia 23, Pennsylvania
Penola Oil Company, 15 West 51st Street, New York 19, New York
Perk Products Company, 1338 Lewis Street, Nashville, Tennessee
Peoples Farm Supply Company, Smith Grove, Kentucky
L. Perrigo Company, Allegan, Michigan
Pest Guard Products, Inc., 731 West Davis, Dallas 8, Texas
Pet Chemicals, Inc., 1038 N.W. 21st Terrace, Miami, Florida
Pfanstiehl Detergent Chemicals, Inc., 669 S. Market Street, Waukegan, Illinois
The Pfeiffer Company, 3965 Laclede Avenue, St. Louis 8, Missouri
Chas. Pfizer & Company, Inc., 11 Bartlett Street, Brooklyn 6, New York
Phelan-Faust Paint Manufacturing Co., 932 Loughborough Ave., St. Louis 11, Mo.
Phelps Dodge Refining Corporation, 300 Park Avenue, New York 22, New York
Phoenix Closet Accessories, Inc., 101 N.J.R.R. Avenue, Newark, New Jersey
Piatt & Smillie Chemical, Inc., 2322 Olive Street, St. Louis 3, Missouri
The Piper Company, Inc., 2152 Yale Avenue, St. Louis 17, Missouri
Pitman-Moore Co., Div. Allied Laboratories, P. O. Box 1656, Indianapolis 6, Ind.
Pittsburgh Chemical Laboratory, 715 Penn Avenue, Pittsburgh 22, Pennsylvania
Pittsburgh Plate Glass Company, New Albany Road, Moorestown, New Jersey
Plantabbs Corporation, 1105 Maryland Avenue, Baltimore 1, Maryland
Planters Chemical Corporation, 3111 Virginia Beach Blvd., Norfolk, Virginia
Plasti-Kote, Inc., 9801 Harvard Road, Cleveland, Ohio
Plough, Inc., 3022 Jackson Avenue, Memphis, Tennessee

Polk Miller Products Corporation, 2007 N. Hamilton Street, Richmond, Virginia
Porter Paint Company, 419 South 14th Street, Louisville, Kentucky
B. G. Pratt Company, 204 21st Street, Paterson, New Jersey
Pratt Laboratories, Inc., P. O. Box 602, Danville, Kentucky
Pratt & Lambert, Inc., 75 Tonawanda Street, Buffalo 7, New York
Prentiss Drug & Chemical Company, 101 West 31st Street, New York 1, New York
Private Brands, Inc., 300 South Third Street, Kansas City, Kansas
The Procter & Gamble Company, P. O. Box 599, Cincinnati 1, Ohio
Protection Products Manufacturing Co., 2305 Superior Ave., Kalamazoo, Michigan
The John Puhl Products Company, 1450 Broadway, New York 18, New York
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., 225 Fifth Avenue, New York 10, New York
Reilly Tar & Chemical Corp., 1615 Merchant Bank Bldg., Indianapolis 4, Indiana
Rex Research Corporation, 600 Montrose Avenue, Toledo 7, Ohio
Rexall Drug Company, 8480 Beverly Boulevard, Los Angeles 54, California
Rigo Manufacturing Co., Inc., 638 Benton Avenue, Nashville, Tennessee
Riley Brothers, Inc., 209 North Main Street, Burlington, Iowa
Riverdale Chemical Company, 17th & Hanover Streets, Chicago Heights, Illinois
Robeson Preservo Company, 208 Merchant Street, Port Huron, Michigan
G. S. Robins & Company, 126 Chouteau Avenue, St. Louis 2, Missouri
Rodent Control Fund, P. O. Box 395, State College, Mississippi
Rohm & Haas Company, 222 W. Washington Square, Philadelphia 5, Pennsylvania
Rokey Chemical Company, Second Street at St. Clair, Marietta, Ohio
Roman Cleanser Company, 2700 E. McNichols Road, Detroit 12, Michigan
Rose Manufacturing Company, 160 Main Street, Beacon, New York
Rotenone Products Company, 110 Eaton Place, East Orange, New Jersey
Royal Appliance Manufacturing Company, 1975 E. 61st Street, Cleveland 3, Ohio
Royal Lace Paper Works, 99 Gold Street, Brooklyn 1, New York
I. D. Russell Company Laboratories, 2463 Harrison Street, Kansas City, Missouri
Dr. Salsbury's Laboratories, 500 Gilbert, Charles City, Iowa
The Sanfax Company, P. O. Box 604, Atlanta, Georgia
Sapo Elixir Chemical Company, 800 E. Big Bend Road, Kirkwood 22, Missouri
Saywell Laboratories, 2004 St. Clair Avenue, Cleveland 14, Ohio
Scott Industries, 311 Bellevue, Jackson, Tennessee
O M Scott & Sons Company, Marysville, Ohio
Sears, Roebuck & Company, 925 South Homan Avenue, Chicago, Illinois
Sennewald Drug Company, Inc., 2723 Chouteau Avenue, St. Louis 3, Missouri
Senoret Chemical Company, 610 Gratiot Street, St. Louis 2, Missouri
John Sexton & Company, 4501 W. 47th Street, Chicago 32, Illinois
Shaker Seed & Feed Company, P. O. Box 6, South Union, Kentucky
Shell Oil Company, 50 West 50th Street, New York 20, New York
Sherman Laboratories, 5031 Grandy Avenue, Detroit 11, Michigan
Shulton, Inc., 697 Route 46, Clifton, New Jersey
Sinclair Manufacturing Company, 1125 Brown Avenue, Toledo 7, Ohio
The Smith Agricultural Chemical Company, 1850 Kentucky Ave., Indianapolis, Indiana
Smith Chemical Company, 1113 Clark Avenue, Ames, Iowa
Sno-Wash Distributor, 1523 Obyrne Street, Henderson, Kentucky
Southern Agricultural Insecticides, Inc., P. O. Box 324, Palmetto, Florida
Southern National Manufacturing Company, Hollister, Missouri
The Stadler Fertilizer Company, 1010 Denison Avenue, Cleveland 9, Ohio
Stalfort Pressure Pak, Inc., 2012 Hammonds Ferry Road, Baltimore 27, Maryland
Standard Laboratories, Inc., 201 Tabor Road, Morris Plains, New Jersey
Standard Naphthalene Products Co., Inc., 115 Jacobus Ave., South Kearny, New Jersey
Standard Oil Company, Inc., 430 West Bloom Street, Louisville, Kentucky
Sohio Laboratories, 1823 Midland Building, Cleveland 5, Ohio
Stanley Home Products, Inc., 42 Arnold Street, Westfield, Massachusetts
Stark Brothers Nurseries & Orchards Company, Louisiana, Missouri
Stauffer Chemical Company, Lawrence Street, Chauncey, New York
Stearn's Electric Paste Company, 111 W. Washington Street, Chicago 2, Illinois

The Sterling Company, Inc., 2801-05 Locust Street, St. Louis 3, Missouri
Sterwin Chemicals, Inc., 1450 Broadway, New York 18, New York
Stim-U-Plant Laboratories, Inc., 2077 Parkwood Avenue, Columbus 19, Ohio
J. Strickland & Company, 1400 Ragan, Memphis, Tennessee
The Styron-Beggs Company, 39 South Fourth Street, Newark, Ohio
Stull's Chemical, Inc., 3400 Nacogdoches Road, San Antonio, Texas
Sun Oil Company, 1608 Walnut Street, Philadelphia 3, Pennsylvania
Superior Chemical Products, Inc., 47 N. Second Street, Philadelphia 6, Pennsylvania
W. R. Sweeney Manufacturing, Inc., 340 South Main, Salisbury, Missouri
Swift & Company, Plant Food Division, National Stock Yards, Illinois
Tabtrol Company, 7003 Deerfield Road, Baltimore 8, Maryland
Ray H. Tanck, Inc., Middleton, Wisconsin
The Taylor-Reed Corporation, Glenbrook, Connecticut
Tennessee Corporation, Lockland Station, Cincinnati 15, Ohio
Tennessee Copper Company, Copperhill, Tennessee
Texize Chemicals, Inc., P. O. Box 1820, Greenville, South Carolina
Thermo-Vap, Inc., Wisconsin Dells, Wisconsin
Thompson Chemicals Corporation, 3028 Locust Street, St. Louis 3, Missouri
Thompson-Hayward Chemical Company, 2915 Southwest Blvd., Kansas City 8, Missouri
Thompson's Sanitary Supply House, 761 East Seventh St., Lexington, Kentucky
Tidy House Products Company, 604 West Thomas, Shenandoah, Iowa
Tobacco States Chemical Company, P. O. Box 479, Lexington, Kentucky
Tom-Cat Products Company, 101 Union Street, Jonesboro, Arkansas
Toxite Laboratories, Inc., Cumberland, Indiana
Trylon Products Corporation, 2750 N. Wolcott Avenue, Chicago 14, Illinois
Tull Chemical Company, P. O. Box 246, Oxford, Alabama
Turco Products, Inc., 6135 South Central Avenue, Los Angeles, California
W. C. Turner Feed & Farm Supply Company, Greensburg, Kentucky
Tykor Products, Div. of Borden Company, 350 Madison Ave., New York 17, New York
Union Carbide & Carbon Corp., 30 East 42nd Street, New York 17, New York
Unit Chemical Corporation, 4161 Redwood Avenue, Los Angeles 66, California
United Co-Operatives, Inc., 111 Glamorgan Street, Alliance, Ohio
Union Drug Company, 4300 Peterson Avenue, Chicago 30, Illinois
United States Borax & Chemical Corporation, 630 Shatto Place, Los Angeles 5, Calif.
United States Rubber Company, 1230 Avenue of the Americas, New York 20, New York
Universal Electric Products Company, 4200 Sycamore Avenue, Madison 4, Wisconsin
Van Brode Milling Company, Inc., 20 Cameron Street, Clinton, Massachusetts
R. T. Vanderbilt Company, Inc., 230 Park Avenue, New York 17, New York
Vaporette, Inc., 2416 South Harwood, Dallas 1, Texas
Vaughan's Seed Company, 601 West Jackson, Chicago 6, Illinois
Vestal Laboratories, Inc., 4963 Manchester, St. Louis, Missouri
Vicrylite Candle Company, P. O. Box 890, Oshkosh, Wisconsin
Virginia-Carolina Chemical Corp., Murray Road, St. Bernard Station, Cincinnati, Ohio
Virginia-Carolina Chemical Corp., 401 East Main Street, Richmond, Virginia
Virginia Smelting Company, West Norfolk, Virginia
Walker Remedy Company, 224 Commercial Street, Waterloo, Iowa
The J. R. Watkins Company, 150 Liberty Street, Winona, Minnesota
Weco Products Company, 20 North Wacker Drive, Chicago 6, Illinois
Weedez Corporation, 812 Board of Trade Building, Kansas City, Missouri
The Weevil-Cide Company, 1323 Union Avenue, Kansas City, Missouri
Weil-Elliott Chemical Company, Inc., 401 N. 37th Street, Louisville, Kentucky
S. C. Wells & Company, One Church Street, LeRoy, New York
West Disinfecting Company, 42-16 West Street, Long Island City 1, New York
Westchester Veterinary Products, Div. of Eastco, Inc., 180 Mamaroneck Avenue,
White Plains, New York
Whitmire Research Laboratories, Inc., 339 S. Vandeventer, St. Louis 10, Missouri
Wilbert Products Company, Inc., 805 E. 139th Street, New York 54, New York
Winn-Dixie #425, 1923 Nicholasville Pike, Lexington, Kentucky
Winru Chemical & Sales Company, 923 State Line, Kansas City 1, Missouri
Wisconsin Chemical Products Company, 5117-19 N. 32nd St., Milwaukee 9, Wisconsin
Wood Treating Chemical Company, 5137 Southwest Avenue, St. Louis 10, Missouri
Woodlets, Inc., 2048 Niagara Street, Buffalo 7, 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
Wyco, Incorporated, 5200 South Dixie, West Palm Beach, Florida
Wyeth Laboratories, Div. American Home Products Corp., P. O. Box 8299,
Philadelphia 1, Pennsylvania
Yopp Seed Company, 120 South Second Street, Paducah, Kentucky
Zep Manufacturing Corporation, 300 South Second Street, Atlanta 1, Georgia

INTRODUCTION

This bulletin contains results of analyses of official pesticide samples secured during the period January 1, 1958, through December 31, 1958. Of the 277 samples reported 32 were found to be deficient below tolerance. Twenty-nine samples represented products unregistered as required by the Kentucky Economic Poisons Law at the time of sampling.

Labeling Requirements

Chemicals eligible for registration under the act must bear a label stating the directions for use which if complied with are considered adequate. 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" to indicate their toxic nature.

These label requirements provide the public with information as to the uses of and the precautions to be taken in the use of all economic poisons sold in Kentucky.

The name and the address of the manufacturer or registrant must appear on the label. The net weight or measure of the contents of any bottle or package must be stated on the label, and also the name, brand or trademark under which the article is sold.

Purpose of The Pesticide Law

The Kentucky Economic Poisons Law, though designed primarily to protect the purchaser or consumer of pesticide products, also indirectly benefits the dealers in these products and the general public, even though they may not be directly involved in the purchase or distribution of pesticide chemicals

Because of the labeling requirements for economic poisons, any individual entirely unconnected with the purchase and distribution of pesticides can be protected knowing that in case of emergency the labeled information shown on the pesticide container may be of extreme importance. Likewise, every housewife who purchases fresh fruits and vegetables from the local grocer is indirectly protected by the labeling of pesticide products whose directions for use indicate safe rates of application which will not leave a dangerous residue of pesticides on fresh fruits and vegetables.

Under the act a manufacturer is required to submit claims he wishes to make for his products in advance of the sale. If the composition of an article is such as to warrant the proposed claims and if the labeling complies with the requirements of the law, the product can be registered. In light of this, dealers not only operate in an orderly market from the standpoint of uniform labeling requirements but, by virtue of the authority provided the Director of the Kentucky Agricultural Experiment Station to review proposed claims under the act, the dealer further has reason to believe products are adequate for the purpose intended. This undoubtedly tends to keep ineffective and worthless items of this kind off the market.

Field Inspection

In order to adequately enforce the provisions of the act, five field inspectors are charged with the important job of bringing the various aspects of the Kentucky Economic Poisons Law to manufacturers, dealers and the general public.

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. Field inspectors are also authorized to issue and enforce a written or printed stop sale or removal order of 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 consumers of pesticide products will have an understanding of this act.

Fertilizer-Pesticide Mixtures

An important group of speciality products are the products in which a pesticide, 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. For this reason, upon advice of the Departments of Agronomy, Entomology and Botany, Horticulture and the Director of the Kentucky Agricultural Experiment Station, the sale of fertilizer-insecticide mixtures has been restricted to specific crops and at definite rates of application. The use of these products is based on the result of scientific experimental evidence. Uses and recommendations will be varied as new evidence is brought to light.

Several fertilizer-insecticide mixtures are made and sold exclusively for use on lawns and other turf as distinguished from application to agricultural crops. Requirements for the registration of this group of fertilizer-pesticide mixtures are less severe and many formulations are acceptable for registration in Kentucky. Additional information regarding fertilizer-pesticide mixtures may be obtained by writing to the Department of Feed and Fertilizer, Kentucky Agricultural Experiment Station.

Laboratory Analysis

The field inspection staff regularly samples the various pesticide products offered for sale in Kentucky. These samples are forwarded to the laboratories of the Feed and Fertilizer Department at Lexington for chemical analysis.

One of the most important aspects of the pesticide program is the function of the laboratory in analyzing pesticide products to determine whether or not the contents of a given package equal the guarantee stated by the manufacturer. The complexity of the newer pesticide chemicals is such that special equipment is required to give speedy and reproducible results in the hands of trained personnel.

Usually the materials that are used as pesticides contain, in addition to the active ingredients, one or many components which are chemically similar but which are worthless with respect to insecticidal activity. Often other materials such as solvents, diluents and other agents may prevent an accurate

analysis. The separation of the component to be analyzed from materials which would interfere with the analysis is often a long, tedious process.

Through the years scientists have developed many techniques which give results equivalent to those obtained by gravimetric analysis -- that is, weighing the component obtained from a given amount of the material. Often methods of analysis utilizing newer techniques are superior to gravimetric methods. The use of these new methods calls for a wide variety of equipment permitting more thorough coverage of the pesticides offered for sale in the state. Some of the finest equipment available is employed in the analysis of pesticide products by the Feed and Fertilizer Department.

The chemists of the Department of Feed and Fertilizer employed in the analysis of pesticide products must of necessity be well trained and must have a high sense of scientific honesty in the evaluation of their methods and techniques. Kentucky pesticide chemists cooperate with chemists in other states and with the government in the search for better and more accurate methods.

If the laboratory report shows the composition of the product notably at variance from the guaranteed content, a stop sale is issued. The material may then be returned to the manufacturer or otherwise disposed of.

Control Officials Association

Serving as a nerve center for the administration of pesticide laws in the country is the Association of American Pesticide Control Officials, Inc. This organization composed of state and federal control officials supplies information and advice concerning the regulations and operations of pesticide laws in the country with an eye to more effective operation and uniform service among the states.

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 277 samples analyzed during the year from January 1958 through December 31, 1958, twenty-nine were found to be deficient in one or more of the active ingredients guaranteed. This represents over ten percent of the number of samples secured. Thirty 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 amount of active ingredient 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 secured.

ANALYSES OF PRODUCTS CONTAINING ALDRIN

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
ARMOUR FERTILIZER WORKS			
5-10-15 Sulfate with Aldrin			
Aldrin	0.15	0.12	P
5-10-20 Sulfate with Aldrin			
Aldrin	0.15	0.20	XP
5-10-15 Sulfate with Aldrin			
Aldrin	0.15	0.08	D
5-10-15 Sulfate with Aldrin			
Aldrin	0.15	0.09	D
BLUEGRASS PLANT FOODS, INC.			
3-9-6 Muriate with Aldrin			
Aldrin	0.15	0.14	XP
BOURBON COMPANY			
2 lb. Aldrin Equivalent Emuls. Conc.			
Aldrin	23.40	24.80	P
COMMONWEALTH FERTILIZER COMPANY			
4-12-8 Muriate with Aldrin			
Aldrin	0.50	0.50	P
5-10-15 Sulfate with Aldrin			
Aldrin	0.30	0.31	P
DAVISON CHEMICAL COMPANY			
Davco 5-10-15 Sulfate with Aldrin			
Aldrin	0.50	0.23	D
Davco 5-10-15 Sulfate with Aldrin			
Aldrin	0.50	0.46	P
HUTSON CHEMICAL COMPANY			
4-12-8 Muriate with Aldrin			
Aldrin	1.00	0.80	P
5-10-15 Sulfate with Aldrin			
Aldrin	1.00	1.17	P
INTERNATIONAL MINERALS & CHEMICAL CORP.			
5-10-10 Muriate with Aldrin			
Aldrin	0.50	0.54	XP
5-10-12S-3M with Aldrin			
Aldrin	0.20	0.17	P
Rainbow 10-10-10 M with Aldrin			
Aldrin	0.50	0.14	XD
KNOXVILLE FERTILIZER COMPANY			
3-9-6 Sulfate with .4% Aldrin			
Aldrin	0.40	0.38	P
4-12-8 Sulfate with .4% Aldrin			
Aldrin	0.40	0.30	D
5-10-15 Sulfate with .4% Aldrin			
Aldrin	0.40	0.37	P
5-10-10 Muriate with .5% Aldrin			
Aldrin	0.50	0.43	XP
PEOPLES FARM SUPPLY COMPANY			
Ford Brand Aldrin 2-E			
Aldrin	23.00	24.70	P

ANALYSES OF PRODUCTS CONTAINING ALDRIN (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
TENNESSEE CORPORATION			
4-16-16 Muriate with Aldrin			
Aldrin	0.33	0.30	XP
THOMPSON-HAYWARD COMPANY			
Aldrin Spray WE-25			
Aldrin	21.95	22.60	XP
TOBACCO STATES CHEMICAL COMPANY			
23% Aldrin Equivalent Emuls. Conc.			
Aldrin	23.00	23.20	P
2 lb./gal. Aldrin Equivalent			
Aldrin	23.40	24.60	P
25% Aldrin Wettable Powder			
Aldrin	23.80	23.50	P
UNITED COOPERATIVES, INC.			
Unico Aldrin Emulsifiable Conc.			
Aldrin	22.20	22.90	P
Unico Aldrin Emulsifiable Conc.			
Aldrin	22.20	23.10	P
VIRGINIA-CAROLINA CHEMICAL CORPORATION			
5-10-15 Sulfate with Aldrin			
Aldrin	0.30	0.15	D
4-12-8 Muriate with Aldrin			
Aldrin	0.50	0.18	D
4-12-8 Muriate with Aldrin			
Aldrin	0.50	0.48	P

ANALYSES OF PRODUCTS CONTAINING ARSENIC

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
ACME QUALITY PAINTS, INC.			
Acme Arsenate of Lead			
Arsenic	20.00	21.20	P
ALLIED CHEMICAL & DYE CORPORATION			
Orchard Brand Lead Arsenate			
Arsenic	20.50	20.80	P
Do	20.50	21.00	P
UNITED COOPERATIVES, INC.			
Unico Standard Lead Arsenate			
Arsenic	19.60	21.20	P
Do	20.70	21.00	P
Do	19.60	21.20	P

ANALYSES OF PRODUCTS CONTAINING GAMMA ISOMER
OF BENZENE HEXACHLORIDE FROM LINDANE

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
CALIFORNIA SPRAY-CHEMICAL CORPORATION			
Isotox Garden Dust containing Lindane			
Gamma Isomer of BHC	1.50	1.47	XP
Ortho Louse, Tick & Flea Powder			
Gamma Isomer of BHC	1.00	0.91	P
THE FARNAM COMPANY			
Farnam Lindanox Livestock Spray Conc.			
Gamma Isomer of BHC	12.20	12.20	XP
DR. L. D. LeGEAR MEDICINE COMPANY			
New Louse Powder contains Lindane			
Gamma Isomer of BHC	1.00	0.95	P
UNITED COOPERATIVES, INC.			
Unico Lindane Wettable Powder			
Gamma Isomer of BHC	25.00	23.90	P
Do	25.00	24.40	P
WOOLFOLK CHEMICAL WORKS, Ltd.			
Security 20% Emulsifiable Conc.			
Gamma Isomer of BHC	20.00	20.10	P

ANALYSES OF PRODUCTS CONTAINING CHLORDANE

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
ACME QUALITY PAINTS, INC.			
Acme 6% Chlordane Dust			
Chlordane	6.00	5.42	P
Do	6.00	6.53	P
CABELL CHEMICAL COMPANY			
5% Chlordane Dust			
Chlordane	5.00	5.38	XP
CALIFORNIA SPRAY-CHEMICAL COMPANY			
Ortho-Klor 10 Chlordane Dust			
Chlordane	10.00	11.60	P
Do	10.00	11.30	P
Do	10.00	9.50	P
Ortho-Klor 44 Chlordane Spray			
Chlordane	44.00	44.70	P
COOPERATIVE SEED AND FARM SUPPLY			
C-5 Dust			
Chlordane	5.00	5.48	P
DIAMOND BLACK LEAF COMPANY			
Chlordane Dust			
Chlordane	5.00	4.63	P
GLOBE LABORATORIES			
Globe Glo-dane 45			
Chlordane	45.43	45.75	P

ANALYSES OF PRODUCTS CONTAINING CHLORDANE (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
GREEVERS, INC.			
Greever's Chlordane Wettable Powder			
Chlordane	50.00	43.10	D
HESS AND CLARK, INC.			
Dr. Hess 6% Chlordane Dust			
Chlordane	6.00	6.48	P
Do	6.00	6.35	P
KENTUCKY COLOR & CHEMICAL COMPANY			
Ken-Ko Chlordane Tobacco Transplanter Sol.			
Chlordane	45.00	36.60	XP
KNOXVILLE FERTILIZER COMPANY			
5-10-10 Muriate with 1% Chlordane			
Chlordane	1.00	1.19	P
CHAS. McCULLOUGH SEED COMPANY			
McCullough's 16% Chlordane Dust			
Chlordane	10.00	9.80	P
NIAGARA CHEMICAL, DIV. FOOD MACHINERY & CHEMICAL CORP.			
Niagara 10% Chlordane Dust			
Chlordane	10.00	10.10	P
Chlordane 45 Liquid for Lawns			
Chlordane	45.00	51.20	P
Niagara 6% Chlordane Dust			
Chlordane	6.00	5.85	P
SWIFT & COMPANY			
Vigro 6-10-4 Muriate with Chlordane			
Chlordane	0.40	0.60	P
TOBACCO BY-PRODUCTS COMPANY			
Black Leaf Chlordane Dust			
Chlordane	5.00	4.18	XD
Black Leaf 45% Chlordane Spray			
Chlordane	45.00	43.90	XP
TOBACCO STATES CHEMICAL COMPANY			
Tobacco States 5% Chlordane Dust			
Chlordane	5.00	5.30	P
Do	5.00	5.45	P
UNITED COOPERATIVES, INC.			
Unico Chlordane Spray Powder			
Chlordane	40.00	40.20	P
Unico Chlordane Emulsifiable Conc.			
Chlordane	45.00	42.90	P
Do	45.00	45.30	P
WEIL-ELLIOT CHEMICAL COMPANY			
Ken-Ko 45% Chlordane			
Chlordane	45.00	44.40	P

ANALYSES OF PRODUCTS CONTAINING COPPER

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
COOPERATIVE SEED & FARM SUPPLY SERVICE			
Copper Sulfate			
Copper	25.20	25.37	P
Do	25.20	25.40	P
TOBACCO STATES CHEMICAL COMPANY			
Tomato Copper Dust			
Copper (metallic)	7.00	6.49	P
UNITED COOPERATIVES, INC.			
Copper Fungicide (Basic Copper Sulfate)			
Copper (metallic)	53.00	53.00	P

ANALYSES OF PRODUCTS CONTAINING DDT

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
ACME QUALITY PAINTS, INC.			
Acme Dura Dust 50% Wettable DDT			
DDT	50.00	54.00	P
ALLIED CHEMICAL & DYE CORPORATION			
Orchard Brand Genitox S-50			
DDT	50.00	55.10	P
CALIFORNIA SPRAY-CHEMICAL COMPANY			
Pest-B-Gone 50% Wettable			
DDT	50.00	54.70	P
Do	50.00	54.80	P
Do	50.00	59.50	P
CHESTNUT AND ANDERSON COMPANY			
Little River 10 Dust			
DDT	10.00	11.43	P
COOPERATIVE FEED & FARM SUPPLY, INC.			
D-5 Dust			
DDT	5.00	5.26	P
Statesman D-10 Dust			
DDT	10.00	10.90	P
DIAMOND ALKALI COMPANY			
Black Leaf 50% DDT Wettable Powder			
DDT	50.00	53.40	P
E. I. du PONT de NEMOURS COMPANY			
50% DDT Wettable Powder			
DDT	50.00	56.30	P
GULF OIL COMPANY			
Gulf Trak Moth Spray with 6% DDT			
DDT	6.00	5.84	P

ANALYSES OF PRODUCTS CONTAINING DDT (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
LEBANON CHEMICAL CORPORATION			
Lebanon DDT 50% Wettable Powder			
DDT	50.00	52.50	P
LOUISVILLE CHEMICAL COMPANY			
Creal-O 6% DDT			
DDT	6.00	6.23	P
10% DDT Dust			
DDT	10.00	10.59	P
NIAGARA CHEMICAL, DIV. FOOD MACHINERY CHEMICAL CORP.			
Niagara DDT 50 Spray			
DDT	50.00	52.70	P
Do	50.00	53.40	P
Niagara Niatox 10 Dust			
DDT	10.00	9.96	P
PEOPLES FARM SUPPLY			
Ford Brand DDT 2-E			
DDT	25.00	24.20	P
RALSTON PURINA COMPANY			
Purina DDT Insecticide			
DDT	75.00	80.50	P
JOHN SPEED COMPANY			
Ken-Ko Tobacco Flea-Beetle Dust			
DDT	10.00	9.98	P
THOMPSON SANITARY SUPPLY COMPANY			
Dragon Bug Killer Liquid			
DDT	5.00	5.70	P
TOBACCO BY-PRODUCTS COMPANY			
Black Leaf 25% DDT Emulsifiable Conc.			
DDT	25.00	23.80	P
TOBACCO PRODUCTS & CHEMICAL CORPORATION			
Black Leaf Wettable 50% DDT Powder			
DDT	50.00	53.40	P
TOBACCO STATES CHEMICAL COMPANY			
DDT 50% Wettable Powder			
DDT	50.00	53.40	P
Do	50.00	51.80	P
Do	50.00	53.50	P
10% DDT Ready Mixed Dust			
DDT	10.00	10.00	P
Cucumber & Melon Dust			
DDT	3.00	3.30	P
5% DDT			
DDT	5.00	5.00	P

ANALYSES OF PRODUCTS CONTAINING DDT (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
UNITED COOPERATIVES, INC.			
Unico 50% DDT Wettable Powder			
DDT	50.00	54.70	P
Do	50.00	56.50	P
Unico DDT Emulsifiable Concentrate			
DDT	24.00	23.00	P
WEIL-ELLIOT CHEMICAL COMPANY			
Ken-Ko Tobacco Flea Beetle Dust			
DDT	10.00	10.50	P
WOOLFOLK CHEMICAL WORKS			
Security 10% DDT Dust			
DDT	10.00	11.16	P
Security 25% DDT Emulsifiable Liquid			
DDT	25.00	25.40	P

ANALYSES OF PRODUCTS CONTAINING ENDRIN

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
"AG" SUPPLY COMPANY			
Endrin Tobacco Spray			
Endrin	19.50	18.70	P
BIG FOUR FEED & IMPLEMENT COMPANY			
Endrin 1.6-E			
Endrin	19.80	18.80	P
CALIFORNIA SPRAY-CHEMICAL COMPANY			
Ortho Endrin 1.6 Emulsive			
Endrin	18.60	19.50	P
R. M. FLOWERS COMPANY			
Flowers Endrin Tobacco Spray			
Endrin	19.50	17.50	P
PEOPLES FARM SUPPLY COMPANY			
Ford Brand Endrin 1.6-E			
Endrin	19.80	20.60	P
UNITED COOPERATIVES, INC.			
Unico Endrin Emulsifiable Concentrate			
Endrin	18.90	18.10	P

ANALYSES OF PRODUCTS CONTAINING FERBAM

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
CALIFORNIA SPRAY-CHEMICAL COMPANY			
Nu-Leaf Black Fungicide			
Ferbam	76.00	74.60	P

ANALYSES OF PRODUCTS CONTAINING FERBAM (Con't)

Registrant	Product	Guaranteed	Found	Remarks
	Active Ingredient	%	%	
E. I. du PONT de NEMOURS COMPANY				
	Fermete			
	Ferbam	76.00	75.70	P
NIAGARA CHEMICAL DIV. FOOD MACHINERY & CHEMICAL CORP.				
	Niagara Ferbam Wettable Powder			
	Ferbam	76.00	76.50	XP
TOBACCO BY-PRODUCTS COMPANY				
	Black Leaf Ferbam			
	Ferbam	76.00	75.30	XP

ANALYSES OF PRODUCTS CONTAINING DIELDRIN

Registrant	Product	Guaranteed	Found	Remarks
	Active Ingredient	%	%	
CALIFORNIA SPRAY-CHEMICAL COMPANY				
	Ortho Dieldrin Spray			
	Dieldrin (HEOD)	15.80	16.20	P
DIAMOND BLACK LEAF COMPANY				
	Lawn Black Leaf 5% Dieldrin Gran. Insecticide			
	Dieldrin (HEOD)	4.25	4.37	P
STULL'S CHEMICALS, INC.				
	Stull's Seedtreater 50% Dieldrin W.P.			
	Dieldrin (HEOD)	42.50	42.30	XP
THOMPSON-HAYWARD COMPANY				
	Dieldrin (Granules) 5%			
	Dieldrin (HEOD)	4.30	4.65	XP
UNITED COOPERATIVES, INC.				
	Unico Dieldrin Granules			
	Dieldrin (HEOD)	4.30	4.64	P
	Dieldrin Emulsifiable Concentrate			
	Dieldrin (HEOD)	15.30	15.60	P

ANALYSES OF PRODUCTS CONTAINING HEPTACHLOR

Registrant	Product	Guaranteed	Found	Remarks
	Active Ingredient	%	%	
ARMOUR FERTILIZER WORKS				
	6-12-12 Muriate with .25% Heptachlor			
	Heptachlor	0.25	0.008	D
	Do	0.25	0.15	D
	6-12-12 Muriate with .50% Heptachlor			
	Heptachlor	0.50	0.40	P
	10-10-10 Muriate with .25% Heptachlor			
	Heptachlor	0.25	0.00	D
COOPERATIVE FERTILIZER SERVICE				
	10-10-10 Muriate with 0.4% Heptachlor			
	Heptachlor	0.40	0.30	P

ANALYSES OF PRODUCTS CONTAINING HEPTACHLOR (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
COOPERATIVE FERTILIZER SERVICE (Con't)			
6-12-12 Muriate with 0.4% Heptachlor Heptachlor	0.40	0.35	P
DAVISON CHEMICAL COMPANY			
6-12-12 Muriate with .5% Heptachlor Heptachlor	0.50	0.45	P
FEDERAL CHEMICAL COMPANY			
4-12-8 Muriate with 0.5% Heptachlor Heptachlor	0.50	0.38	D
6-12-12 Muriate with 0.5% Heptachlor Heptachlor	0.50	0.72	P
Do	0.50	0.36	D
Do	0.50	0.50	P
Do	0.50	0.40	P
Do	0.50	0.07	D
10-10-10 Muriate with 0.5% Heptachlor Heptachlor	0.50	0.18	D
Do	0.50	0.50	P
Do	0.50	0.40	P
5-10-15 Sulfate with 0.5% Heptachlor Heptachlor	0.50	0.16	D
Do	0.50	0.15	D
Do	0.50	0.34	D
Do	0.50	0.38	D
LOUISVILLE FERTILIZER COMPANY			
6-12-12 Muriate with 0.25% Heptachlor Heptachlor	0.25	0.20	P

ANALYSES OF PRODUCTS CONTAINING MALATHION

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
ACME QUALITY PAINTS, INC.			
Acme 50% Malathion Malathion	50.00	55.90	P
AMSCO CHEMICAL COMPANY			
Hot Shot Fly Bait Malathion	2.00	1.92	P
CALIFORNIA SPRAY-CHEMICAL COMPANY			
Ortho Malathion 25 Wetttable Malathion	25.00	23.60	P
Ortho Fly Killer Dry Bait Malathion	2.00	1.85	P
COOPERATIVE SEED & FARM SUPPLY SERVICE, INC.			
5% Malathion Dust Malathion	5.00	5.15	P
Do	5.00	4.62	P

ANALYSES OF PRODUCTS CONTAINING MALATHION (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
E. I. du PONT de NEMOURS & COMPANY			
DuPont Aphid and Mite Spray			
Malathion	50.00	50.80	P
GENERAL CHEMICAL DIV., ALLIED CHEMICAL & DYE CORP.			
Orchard Brand 25% Malathion Wettable Powder			
Malathion	25.00	29.25	P
NIAGARA CHEMICAL DIV. FOOD MACHINERY & CHEMICAL CORP.			
Farm and Garden Brand Malathion 50 Liquid			
Malathion	50.00	53.10	P
RALSTON PURINA COMPANY			
Purina Malathion Spray			
Malathion	50.00	51.50	P
Do	50.00	52.10	P
Do	50.00	51.70	P
RIGO MANUFACTURING COMPANY, INC.			
Kill-Ko Malathion Fly Bait			
Malathion	2.00	2.84	P
Do	2.00	2.54	P
Kill-Ko Malathion 5% Dust			
Malathion	5.00	5.05	P
Kill-Ko Fly Bait			
Malathion	1.00	1.03	P
Kill-Ko Malathion 50% Emulsifiable			
Malathion	50.00	50.05	P
Kill-Ko Flea Powder			
Malathion	4.00	2.20	D
JOHN SPEED COMPANY			
Ken-Ko Malathion 4% Dust			
Malathion	4.00	3.96	P
STAUFFER CHEMICAL COMPANY			
Malathion 5-E			
Malathion	56.00	56.80	P
TOBACCO STATES CHEMICAL COMPANY			
Fly Chips			
Malathion	2.00	2.16	P
Do	2.00	0.72	D
UNITED COOPERATIVES, INC.			
Malathion 51 Spray			
Malathion	51.30	52.60	P
Do	51.30	50.50	P
WEIL-ELLIOT CHEMICAL COMPANY			
Ken-Ko Brand Malathion 5% Dust			
Malathion	5.00	4.52	P

ANALYSES OF PRODUCTS CONTAINING METHOXYCHLOR

Registrant	Product	Guaranteed	Found	Remarks
	Active Ingredient	%	%	
"AG" SUPPLY COMPANY				
	Methoxychlor Garden Dust			
	Methoxychlor	5.00	5.62	P
	Do	5.00	4.80	P
	Do	5.00	5.20	P
	Methoxychlor 25% EM			
	Methoxychlor	25.00	24.50	P
	Do	25.00	24.50	P
THE BOURBON COMPANY				
	Bourbon 7½% Methoxy Garden Dust			
	Methoxychlor	7.50	7.00	P
CHESTNUT AND ANDERSON SUPPLY COMPANY				
	Little River ABC Concentrate			
	Methoxychlor	25.00	24.90	P
E. I. du PONT de NEMOURS & COMPANY				
	DuPont Dairy Cattle Spray			
	Methoxychlor	50.00	46.90	P
	Do	50.00	46.60	P
	Do	50.00	45.40	P
	Do	50.00	46.50	P
GEIGY AGRICULTURAL CHEMICAL CORPORATION				
	Geigy Methoxychlor 50			
	Methoxychlor	50.00	46.00	P
	Do	50.00	46.60	P
	Do	50.00	45.40	P
	Do	50.00	48.20	P
	Geigy Methoxychlor 25			
	Methoxychlor	25.00	23.60	P
GENERAL CHEMICAL DIV. FOOD MACHINERY & CHEMICAL CORP.				
	Orchard Brand 50% Methoxychlor			
	Methoxychlor	50.00	44.80	P
TOBACCO STATES CHEMICAL COMPANY				
	Tobacco States 7½% Methoxychlor Garden Dust			
	Methoxychlor	7.50	6.95	P
	Do	7.50	7.02	P
YOPP SEED COMPANY				
	Chief Brand 5% Methoxychlor Dust			
	Methoxychlor	5.00	4.56	P

ANALYSES OF PRODUCTS CONTAINING NABAM

Registrant	Product	Guaranteed	Found	Remarks
	Active Ingredient	%	%	
TOBACCO STATES CHEMICAL COMPANY				
	Black Shank Solution			
	Nabam	19.00	22.40	P

ANALYSES OF PRODUCTS CONTAINING PARATHION

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
CALIFORNIA SPRAY-CHEMICAL CORPORATION			
Ortho Parathion 15 Wettable Parathion	15.00	13.50	P
NIAGARA CHEMICAL DIV. FOOD MACHINERY & CHEMICAL CORP.			
Niagara Phos-Kill Spray Parathion	15.00	14.40	P
TOBACCO STATES CHEMICAL COMPANY			
Tobacco States 1% Parathion Dust Parathion	1.00	0.95	P
Tobacco States Emulsifiable Concentrate Parathion	24.25	23.60	P

ANALYSES OF PRODUCTS CONTAINING ROTENONE

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
THE BOURBON COMPANY			
Bourbon 1% Rotenone Dust Rotenone	1.00	0.92	P
Do	1.00	0.89	P
Bourbon .75% Rotenone Dust Rotenone	0.75	0.74	P
CALIFORNIA SPRAY-CHEMICAL CORPORATION			
Ortho Rotenone Dust or Spray Rotenone	1.00	0.70	P
Do	1.00	0.96	P
Do	1.00	0.68	D
Ortho Cattle Grub Spray or Dust Rotenone	5.00	5.92	P
CHESTNUT AND ANDERSON SUPPLY COMPANY			
Little River Rotenone Bearing Dust Rotenone	1.00	1.12	P
CHIPMAN CHEMICAL COMPANY, INC.			
Cubor Dust "100" Rotenone	1.00	0.89	P
COOPERATIVE SEED & FARM SUPPLY SERVICE			
Southern States Cattle Grub & Louse Dust Rotenone	1.66	1.52	P
Statesman .75 Dust Rotenone	0.75	0.78	P
Do	0.75	0.82	P
Do	0.75	0.76	P
DIAMOND BLACK LEAF COMPANY			
Diamond Black Leaf 1% Rotenone Garden Dust Rotenone	1.00	1.03	P
HESS AND CLARK, INC.			
Cattle Grub Killer Rotenone	1.50	1.67	P

ANALYSES OF PRODUCTS CONTAINING ROTENONE (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
SAM HOUSTON COMPANY			
Houston's Rotenone .75			
Rotenone	0.75	0.72	P
LOUISVILLE CHEMICAL COMPANY			
Creal-O Bug Dust 1% Rotenone			
Rotenone	1.00	0.80	P
NIAGARA CHEMICAL DIV. FOOD MACHINERY & CHEMICAL CORP.			
Niagara Rotenone Bearing Dust			
Rotenone	0.75	0.60	P
RIGO MANUFACTURING COMPANY			
Gismo Rotenone .75% Bean Beetle Dust			
Rotenone	0.75	0.35	D
TOBACCO STATES CHEMICAL COMPANY			
100 Rotenone Garden Dust			
Rotenone	1.00	0.88	P
Do	1.00	1.01	P
Tobacco States Cube Root Powder			
Rotenone	5.00	4.79	P
Tobacco States Heavy Duty Garden Dust			
Rotenone	1.50	1.43	P
Tobacco States Rotenone .75% Garden Dust			
Rotenone	0.75	0.76	P
WEIL-ELLIOT CHEMICAL COMPANY			
Ken-Ko "75" Rotenone Dust			
Rotenone	0.75	0.77	P

ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
ALSTON MANUFACTURING COMPANY			
Krown Supreme Laundry Bleach			
Sodium Hypochlorite	5.25	5.69	XP
BARTON CHEMICAL COMPANY			
Sav-A-Day Bleach			
Sodium Hypochlorite	5.25	4.91	XP
BLEACH PRODUCTS COMPANY			
Blink Bleach			
Sodium Hypochlorite	5.25	4.75	P
White Star Laundry Bleach			
Sodium Hypochlorite	5.25	4.76	P
THE CLOROX COMPANY			
Clorox Disinfectant Bleach			
Sodium Hypochlorite	5.25	5.42	P
Do	5.25	5.49	P

ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
CUMBERLAND MANUFACTURING COMPANY			
Bri-Tex Bleach			
Sodium Hypochlorite	5.25	3.93	D
Do	5.25	4.54	P
Do	5.25	4.29	P
ERBRICK PRODUCTS COMPANY			
Time Saver Bleach			
Sodium Hypochlorite	5.25	4.78	P
B. FISCHER AND COMPANY			
White Arrow Bleach			
Sodium Hypochlorite	5.25	5.46	P
Do	5.25	5.41	P
GREAT ATLANTIC & PACIFIC TEA COMPANY			
Bright Sail Laundry Bleach			
Sodium Hypochlorite	5.25	5.56	P
HULMAN AND COMPANY			
Mira-Clo Bleach			
Sodium Hypochlorite	5.25	4.84	P
McKNIGHT-KEATON GROCERY COMPANY			
Chloro-San Household Bleach			
Sodium Hypochlorite	5.25	5.11	XP
MAGIC MANUFACTURING COMPANY			
Magic Washing Solution			
Sodium Hypochlorite	5.25	5.42	XP
NATIONAL CORPORATION, INC.			
Universal Chloro-San			
Sodium Hypochlorite	6.40	5.55	XP
NuWAY PRODUCTS INCORPORATED			
NuWay Bleach			
Sodium Hypochlorite	5.25	4.82	XP
JOHN PUHL PRODUCTS COMPANY			
Fleecy White Bleach			
Sodium Hypochlorite	5.25	4.75	P
Do	5.25	5.06	P
PUREX CORPORATION LTD.			
Purex Bleach			
Sodium Hypochlorite	5.25	5.19	P
Do	5.25	4.95	P
Do	5.25	5.56	P
ROMAN CLEANSER COMPANY			
Roman Cleanser Bleach			
Sodium Hypochlorite	5.25	4.90	P
Do	5.25	4.96	P
Do	5.25	5.15	P

ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
SAPO ELIXIR CHEMICAL COMPANY			
Sapo Brand Bleach			
Sodium Hypochlorite	5.25	5.68	P
SINCLAIR MANUFACTURING COMPANY			
White Monday Bleach			
Sodium Hypochlorite	5.25	5.30	XP
Do	5.25	4.91	P
Do	5.25	5.06	P
Do	5.25	5.43	P
Sunrae Bleach			
Sodium Hypochlorite	5.25	4.80	XP
Do	5.25	5.20	XP
TEXIZE CHEMICALS, INCORPORATED			
Texize Foaming Action Bleach			
Sodium Hypochlorite	5.25	5.06	XP
Do	5.25	5.72	XP
UBC DISTRIBUTORS, INC.			
Klenzcraft Household Bleach			
Sodium Hypochlorite	5.25	3.72	XD

ANALYSES OF PRODUCTS CONTAINING TOXAPHENE

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
BIG FOUR FEED & IMPLEMENT COMPANY			
Toxaphene 6-E			
Toxaphene	59.00	61.00	P
PEOPLES FARM SUPPLY COMPANY			
Ford Brand Toxaphene			
Toxaphene	59.00	62.40	P

ANALYSES OF PRODUCTS CONTAINING TDE

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
NIAGARA CHEMICAL DIV. FOOD MACHINERY & CHEMICAL CORP.			
Niagara DDD 50% Wettable Powder			
TDE	50.00	53.30	P
PEOPLES FARM SUPPLY COMPANY			
Ford Brand DDD 2-E			
TDE	25.20	28.60	XP
WOOLFOLK CHEMICAL COMPANY			
10% 3-D's Tobacco Dust			
TDE	10.00	8.45	D

ANALYSES OF PRODUCTS CONTAINING 2,4-D

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
ACME QUALITY PAINTS, INC.			
Weed-No-More Low Volatile Lawn Weed Killer			
2,4-D	9.20	9.27	P
BOYLE-MIDWAY, INC.			
Antrol Hose Spray Concentrate			
2,4-D	3.90	3.85	P
CHEMAGRO CORPORATION			
Amine Weed Killer 40			
2,4-D	49.40	43.10	D
DOW CHEMICAL COMPANY			
Dow Esteron 99			
2,4-D	25.05	23.80	P
E. I. du PONT de NEMOURS & COMPANY			
DuPont Lawn Weed Killer			
2,4-D	11.50	12.50	P
Do	11.50	12.20	P
REASOR-HILL CORPORATION			
R-H Amine Weed RHAP-4			
2,4-D	41.00	41.70	P
Do	41.00	40.90	P
R-H Ester Brush RHAP-4			
2,4-D	43.90	46.40	P
R-H Granular Weed RHAP-20			
2,4-D	30.12	29.00	P
STULLS CHEMICALS, INC.			
Stulls Low Volatile Weed Killer			
2,4-D	36.30	34.80	P
THOMPSON-HAYWARD COMPANY			
Ded-Weed ME-5			
2,4-D	47.60	40.30	D
UNITED COOPERATIVES, INC.			
Unico 2,4-D Ester Weed Killer			
2,4-D	38.20	37.60	P
Do	38.20	36.90	P
Do	38.20	39.80	P
Do	41.10	39.50	P
Do	41.10	40.70	P
Do	37.00	41.50	P

ANALYSES OF PRODUCTS CONTAINING 2,4,5-T

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
REASOR-HILL CORPORATION			
R-H Ester Brush RHAP-4			
2,4,5-T	43.90	46.40	P

ANALYSES OF PRODUCTS CONTAINING 2,4,5-T (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
UNITED COOPERATIVES, INC.			
Unico 2,4,5-T Lo-V Ester Weed Killer			
2,4,5-T	43.00	42.00	P
Do	43.00	45.50	P

ANALYSES OF PRODUCTS CONTAINING ZINEB

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
COOPERATIVE SEED & FARM SUPPLY COMPANY			
Statesman Z Dust			
Zineb	5.20	5.34	P
Do	5.20	5.80	P
ROHM & HAAS COMPANY			
Dithane Z-78			
Zineb	65.00	77.30	P

ANALYSES OF PRODUCTS CONTAINING MIXTURES OF INSECTICIDES

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
BUNTON SEED COMPANY			
Bunton's 100 Garden Dust or Spray			
Rotenone	1.00	0.96	P
DDT	3.00	3.57	
SAM HOUSTON COMPANY			
Houston's Rotenone Sulfur 50S Mixture			
Rotenone	0.50	0.50	P
Sulphur	87.50	Met	
Houston's Rotenone .75-75S			
Rotenone	0.75	0.72	P
Sulphur	81.25	Met	

KENTUCKY ECONOMIC POISONS 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 forms 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 of 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 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;
- (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 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 by law 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 labeling 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 of 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 which 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 substance from the representations 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 reregistration of the product;

(2) Any economic poison, except in the registrant's or the manufacturer's unbroken 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 contrasting 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 flouride, 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 217.340 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 brand 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 provision 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 State 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 Violations 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 sample 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 circumstance 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 of 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 by 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 justification 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 in 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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