# KENTUCKY ECONOMIC POISONS REPORT, 1961



**European Corn Borer Overwintering** 

University of Kentucky Agricultural Experiment Station Lexington

#### FEED AND FERTILIZER DEPARTMENT

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Kentucky Economic Poisons Law	

#### COMPANIES LICENSED UNDER KENTUCKY ECONOMIC POISONS LAW IN 1961

Abbott Laboratories, 1400 Sheridan Road, North Chicago, Illinois Aceline Products Corporation, Box 236, Rochester 1, New York Acme Quality Paints, Inc., 8250 St. Aubin Avenue, Detroit 11, Michigan Aero-Master, Inc., 325 West Pacific Avenue, St. Louis 19, Missouri "Ag" Supply Company, Old Clarksville Road, Hopkinsville, Kentucky Agricultural Specialties, 12200 Denton Drive, Dallas 34, Texas 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 Corp., Plastics Division, 40 Rector St., New York 6, New York Allied Chemical Corp., Gen. Chemical Division, 40 Rector Street, New York 6, New York Allied Drug Products Company, 16th & Gulf Streets, Chattanooga 1, Tennessee American Agricultural Chemical Company, P.O. Box 464, London, Kentucky Amchem Products, Ambler, Pa. American Cyanamid Company, P.O. Box 383, Princeton, New Jersey American Exterminator, Inc., 817 Race Street, Cincinnati, Ohio American Lace Paper Company, 4425, N. Port Washington Road, Milwaukee 12, Wisconsin American-Marietta Company, 901 N. Greenwood Avenue, Kankakee, Illinois American Mothproofing Company, 2510 Hampton Avenue, St. Louis 10, Missouri American Scientific Laboratories, P.O. Box 1288, Madison 1, Wisconsin American Sterilizer Company, 2424 West 23rd Street, Erie, Pennsylvania Armour Fertilizer Works, 5184 Broerman Avenue, Cincinnati 17, Ohio Arnold Laboratories, P.O. Box 111, 206 Spring Street, New Castle, Indiana Arnott Chemical & Exterminating Co., 249 Massachusetts Ave., Indianapolis, Indiana Associated Sales & Supply Company, 5137 Southwest Avenue, St. Louis 10, Missouri Auto Chlor System, 746 Poplar, Memphis, Tennessee Avon Products, Inc., 30 Rockefeller Plaza, New York 20, New York B. T. Babbitt, Inc., 20 Broadway, Albany 1, New York W. H. Barber Company, 3650 South Homan Avenue, Chicago 32, Illinois Barco Manufacturing Company, 340 Main Street, Worchester 8, Massachusetts Bauer & Black, Div. of the Kendall Co., 309 W. Jackson Blvd., Chicago 6, Illinois Berlou Manufacturing Company, 421 Monroe Street, Marion, Ohio Big Four Feed & Implement Company, Maple & Cemetery Streets, Scottsville, Kentucky Bird & Sons, Inc., Washington Street, East Walpole, Massachusetts Bissell, Incorporated, Grand Rapids 1, Michigan 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, Cynthiana, Kentucky Bohlender 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 E. L. Bruce Company, P.O. Box 397, Memphis 1, Tennessee Brulin & Company, Inc., 2939-45 Columbia Avenue, Indianapolis 7, Indiana Burley Belt Plant Food Works, Route 4, Lexington, Kentucky California Chemical Company, Lucas & Ortho Way, Richmond 4, California Carajon Chemical Company, 426-432 W. Main Street, Fremont, Michigan Carbola Chemical Company, Inc., Natural Bridge, New York Carbolineum Wood Preserving Co., 6683 North 40th Street, Milwaukee 3, Wisconsin Carson Chemicals, Inc., P.O. Box 288, New Castle, Indiana Cato Oil & Grease Company, 915 N. Eastern, Oklahoma City, Oklahoma Cedar Hill Formulae Company, 234 Steele Street, New Britain, Connecticut Cenol Company, Inc., 3240 West Chicago Avenue, Chicago 51, Illinois Center Chemical Company, P.O. Box 1888, Atlanta, Georgia Chambers-Godfrey Manufacturing Company, 302-04 Broadway, Martin, Tennessee Chapman Chemical Company, 60 N. Third Street, Memphis 1, Tennessee Chase Products Company, 20th & Gardner Road, Broadview, Illinois Chemagro Corporation, P.O. Box 4913, Kansas City 20, Missouri Chemical Corporation of America, Monroe St. Station, Tallahassee, Florida Chemical Formulators, Inc. P.O. Box 26, Nitro, West Virginia

Chemistry Hall Laboratories, Inc., P.O. Box 255, Bradenton, Florida Chemley Products Company, 5744, North Western Avenue, Chicago 45, Illinois Chemway Corporation, Fairfield Road, Wayne, New Jersey Chestnut & Anderson Feed & 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., 2805 Locust Street, 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 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 Commercial Chemical Company, Box 202, Louisville 18, Kentucky Commercial Solvents Corporation, 1331 South 1st Street, Terre Haute, Indiana Commonwealth Fertilizer, Company, Inc., P.O. Box 388, Russellville, Kentucky Common Sense Manufacturing, Company, Inc., 1392 Niagara St., Buffalo 13, New York Continental Chemiste Corporation, 2256 West Odgen Avenue, Chicago 12, Illinois Cook Chemical Company, 2550 Summitt, Kansas City, Missouri Wm. Cooper & Nephews, Inc., 1909 North Clifton, Chicago 14, Illinois Cooperative Fertilizer Service, Inc., Box 13065 Camp Taylor Sta., Louisville 13, Kentucky Cooperative Seed & Farm Supply Service, Seventh & Main Sts., Richmond, Virginia G. N. Coughlan, 29 Spring Street, West Orange, New Jersey Cowles Chemical Company, 7016 Euclid Avenue, Cleveland 3, Ohio S. L. Cowley & Sons Manufacturing Company, 708 West McAlester, Hugo, Oklahoma Crawford Industries, Inc., 215 Seneca St., Oil City, Pennsylvania Cre-O-Tox Chemical Products Company, 2670 Broad Avenue, Memphis, Tennessee Cumberland Manufacturing Company, 501 25th Avenue, N., Nashville, Tennessee Cutter Laboratories, Fourth & Parker Sts., Berkeley 10, California The d-CON Company, Inc., 1450 Broadway, New York 18, New York Dacus Drug Company, Inc., Box 241, Tupelo, Mississippi Dameron Enterprises, 427 S. 20th Street, Louisville, Kentucky Darling & Company, 4201 South Ashland Avenue, Chicago 8, Illinois Darworth, Incorporated, P.O. Box 308, Simsbury, Connecticut Daubert Chemical Company, 4700 South Central Avenue, Chicago 38, Illinois Davis Brothers Company, 205 West Main Street, Greenfield, Indiana Davison Chemical Div. W. R. Grace & Co., 54th Avenue, N., Nashville 9, Tennessee Davison Chemical Div. W. R. Grace & Co., 101 North Charles St., Baltimore 3, Maryland DeKalb Agricultural Association, Inc., 310 North Fifth St., DeKalb, Illinois DeSoto Chemical Company, Inc., North DeSoto Avenue, Arcadia, Florida Dettelbach Insecticide Company, 4103 Peachtree Road, N.E. Atlanta 19, Georgia Diamond Alkali Company, 300 Union Commerce Bldg., Cleveland 14, Ohio 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 Blvd., St. Paul 14, Minnesota The Dow Chemical Company, Midland, Michigan The Drackett Products Co., 5020 Spring Grove Avenue, Cincinnati 32, Ohio Eagle Chemical Company, P.O. Box 8127, Chattanooga, Tennessee E. I. du Pont de Nemours & Company, 6054 DuPont Bldg., Wilmington 98, Delaware Economics Laboratory, 914 Guardian Building, St. Paul 1, Minnesota Elanco Products Company, 740 South Alabama Street, Indianapolis 6, Indiana Electrolux Corporation, 500 Fifth Avenue, New York 36, New York Emery Industries, 4200 Carew Tower, Cincinnati 2, Ohio Empire Laboratories, 700 Marietta, St., N.W. Atlanta, Georgia Empire Manufacturing Company, 1110 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 J. C. Everett Company, Inc., 35 East Second Street, Maysville, Kentucky Fairfield Chemicals, 100 North Niagara, Middleport, New York Far-Best Corporation, 6715 McKinley Avenue, Los Angeles 1, California Federal Chemical Company, 646 Starks Building, Louisville 2, Kentucky Inc., 2701 Winthrop Avenue, Indianapolis 5, Indiana Federal Chemical Company, Fly-Cord Inc., P.O. Box 2006, Savannah, Georgia Food Machinery & Chemical Corp., 161 East 42nd Street, New York 17, New York Fox Hardware 19, East Center Street, Madisonville, Kentucky The Frank Tea & Spice Company, 538 East Fifth Street, Cincinnati 2, Ohio

Franklin Research Company 5312 Lancaster Avenue, Philadelphia 31, Pennsylvania Frontier Chemical Company, Box 545, Wichita, Kansas The Fuller Brush Company, 88 Long Hill Street, East Hartford 8, Connecticut Furst-McNess Company, 120 East Clark Street, Freeport, Illinois Gamble-Skogmo, Inc., 15 North Eighth Street, Minneapolis 3, Minnesota Garden Hose Spray Company, Inc., 7 Upland Road, Cambridge 40, Massachusetts Gaston Johnston Corporation, 24-64 45th Street, Long Island City 3, New York Gaylord Container Div. Crown Zellerbach Corp., 143 Arsenal St. St. Louis 18, Missouri Geigy Agricultural Chemicals, P.O. Box 430, Yonkers, New York Glamorene, Inc., 175 Entin Road, Clifton, New Jersey The Glidden Company, 900 Union Commerce Building, Cleveland 14, Ohio Globe Laboratories, 116 Commerce Street, Fort Worth 2, Texas H. Clay Glover Company, Inc., 1001 Franklin Avenue, Garden City, New York Good-Life Chemicals, Inc., 310 South First Street, Effington, Illinois The Great Atlantic & Pacific Tea Company, 3041 Wilson Avenue, Louisville, Kentucky Great Lakes Chemical Corporation, 753 Warner Building, Washington 4, D.C. Greever's, Incorporated, Chilhowie, Virginia Earl Grissmer Company, P.O. Box 20092, Indianapolis 20, Indiana Guarantee Pest Control Company, 23 N. 31-West Bypass, Bowling Green, Kentucky Gulf Oil Corporation, P.O. Box 2140, Houston 1, Texas 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 Harrison Oil Company, P.O. Box 5585, Milwaukee 11, Wisconsin Hart Products Company, Hardyville, Kentucky Hartz Mountain Products Corporation, 36 Cooper Square, New York 3, New York Hat-Ra Chemical Company, 1100 North Adams Street, Henderson, Kentucky Haver-Lockhart Laboratories, 1915 Broadway, Kansas City 41, Missouri Health-Mor, Incorporated, 203 North Wabash Avenue, Chicago 1, Illinois Heller Laboratories, Inc., Calumet Avenue & 40th Street, Chicago 53, Illinois Hess & Clark, Inc., Seventh & Orange Streets, Ashland, Ohio Hexol, Incorporated, 1500-17th Street, San Francisco 7, California Hillenmeyer Nurseries, Route #6, Lexington, Kentucky Hillyard Sales Company (Eastern), P.O. Box 909, St. Joseph 1, 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 Company, 1601 Barth Avenue, Indianapolis 7, Indiana Hollywood Termite Control, Inc., 938 N. Eastern Avenue, Los Angeles 63, California Hooker Chemical Corporation, 666 5th Avenue, New York 19, New York Hopkins Agricultural Chemical Company, 124 S. Dickinson St., Madison 1, Wisconsin Hot Shot Quality Products, Inc., 701 N. Main St., Memphis, Tennessee House of Houston, Inc., 1450 Broadway, New York 18, New York 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 Hodiamont Avenue, St. Louis 12, Missouri Hulman & Company, Laboratories, 900 Wabash Avenue, Terre Haute, Indiana Humco Laboratory, Inc., 1008 Whitaker Street, Texarkana, Texas Hutson Chemical Company, Railroad Avenue, Murray, Kentucky Hydroponic Chemical Company, Box 97-C, Copley 21, Ohio Hy-G Corporation, 130 Russ Street, San Francisco 3, California Indiana Farm Bureau Coop. Assn. 47 S. Pennsylvania St., Indianapolis 9, Indiana Industrial Fumigant, 923 State Line, Kansas City, Missouri Insect-O-Lite Company, Inc., 1925 Queen City Avenue, Cincinnati 14, Ohio International Distributors, Inc., 725 South Fifth Street, Memphis, Tennessee International Minerals & Chemical Corporation, P.O. Box 67, Lockland Sta., Cincinnati, Ohio Irwin-Willert Company, 4044 Park Avenue, St. Louis 10, Missouri J. & J. Chemical Company, Inc., P.O. Box 3411, Houston 36, Texas Jewel Tea Company, Inc., 1955 West North Avenue, Melrose Park, Illinois Raymond Johns Distributing 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 The K-R-O Company,  $19\frac{1}{2}$  North Limestone Street, Springfield, Ohio Carl Kaster Company, 516 W. Main Street, Louisville 2, Kentucky The Keever Starch Company, 538 East Town Street, Columbus 15, Ohio

Kentucky Chemical & Supply Company, 256 West Vine Street, Lexington, Kentucky Kentucky Fertilizer Works, 222 Cook Street, Winchester, Kentucky King Chemical Company, 2342 South Lauderdale, Memphis 6, Tennessee Klenzade Products, Inc., P.O. Box 1020, Beloit, Wisconsin H. Kohnstamm & Company, Inc., 161 Avenue of the Americas, New York 13, New York Koppers Company, Inc., 430 Park Avenue, 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 Lebanon Chemical Corporation, P.O. Box 532, Lebanon, Pennsylvania Dr. L. D. LeGear, Inc., 4161 Beck Avenue, St. Louis 16, Missouri LeHigh Chemical Company, Inc., 8511 Grade Lane, Louisville 14, Kentucky Lehn & Fink Products Corporation, 445 Park Avenue, New York 22, New York Lester Laboratories, Inc., P.O. Box 4897, Atlanta 2, Georgia The Lewy Chemical Company, 1 East 43rd Street, New York 17, New York O. E. Linck Company, Inc., Route 46 & Valley Road, Clifton, New Jersey Andy Lotshaw Company, 1474 West Hubbard Street, Chicago 22, Illinois Louisiana Fortifying & Mixing Plant, Abbeville, Louisiana Louisville Chemical Company, 601 East Jefferson Street, Louisville, Kentucky McCormick & Company, Inc., 414 Light Street, Baltimore 2, Maryland McKesson & Robbins, Inc., P.O. Box 548, Bridgeport, Connecticut McKnight-Keaton Grocery Company, Prosperity Street, Sikeston, Missouri McLaughlin Gormley King Company, 1715 Fifth Street, S.E., Minneapolis 14, Minnesota The Mabex Company, Umbria & Lemonte Streets, Philadelphia 27, Pennsylvania Magic Manufacturing Company, Charleston, West Virginia Mallinkrodt Chemical Works, 3600 North Second Street, St. Louis 7, Missouri Maloney Chemical Company, 1520 N. Irwin Avenue, Green Bay, Wisconsin Mariah Rodenticide Company, Inc., Hi-Way 41, North, Vincennes, Indiana Masury-Young Company, 76 Roland Street, Boston 29, Massachusetts Charles R. Mehle Insecticides, 2712 Baker Avenue, Cincinnati 11, Ohio Merck & Company, Inc., Rahway, New Jersey Midland Laboratories, 210-220 Jones Street, Dubuque, Iowa Midwest American Aerovap, 1125 University, Des Moines 14, Iowa Midwest Oil Company, 2500 Minnehaha Avenue, Minneapolis 4, Minnesota Miles Laboratories, Inc., 1127 Myrtle Street, Elkhart, Indiana Miller Products Company, 607 Del Monte Way, St. Louis 12, Missouri Duman Milner Corporation, Northside Station, Jackson, Mississippi Minnesota Paints, Inc., 1101 South Third Street, Minneapolis 15, Minnesota Monsanto Chemical Company, 800 N. Lindbergh Boulevard, St. Louis 66, Missouri Montgomery Ward & Company, Inc., 10th & Washington Sts., Chicago Heights, Illinois Moorman Manufacturing Company, Quincy, Illinois Morton Chemical Company, Agricultural Division, Woodstock, Illinois Motomco, Incorporated, 89 Terminal Avenue, Clark, New Jersey Multi-Clean Products, Inc., 2277 Ford Parkway, St. Paul 16, Minnesota Muncie Laboratories, 405 East Main Street, Muncie, Indiana Murphy Chemical Company, 695 Grand Avenue, Ridgefield, New Jersey 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 Myzon Laboratories, 3129 West 47th Street, Chicago 32, Illinois Naphthalene Products Company, P.O. Box 6328, Tarrant, Alabama Nash & Kinsella Laboratories, Inc., 3741 Washington Blvd., St. Louis 8, Missouri NALCO Chemical Company, 6216 West 66th Street, Chicago 38, Illinois Universal Milking Machine Div. Nat. Coop., Inc., 1st Ave. At College, Albert Lea, Minnesota National Laboratories, Inc., 4934, Lewis Avenue, Toledo 13, Ohio National Paint & Oil Company, 207 North Second Street, Nashville, Tennessee H. W. Naylor Company, Morris, New York Niagara Chemical Div. Food Mach. & Chem. Corp., 100 Niagara St., Middleport, New York 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., 200 South Water Street, Poughkeepsie, New York Nuodex Products Company, 110 E. 42nd Street, New York 17, New York Nu-Way Products Company, P.O. Box 42, West Memphis, Arkansas Vince B. Nyhan Company, 1300 South Canal Street, Chicago 7, Illinois

Odor-Aire, Inc., 330 North Mosley, Wichita, Kansas Ohio Valley Fertilizer Company, Box 799, Maysville, Kentucky Olin Mathieson Chemical Corp., Mathieson Building, Baltimore 3, Maryland Olin Mathieson Chemical Corp., P.O. Box 991, Little Rock, Arkansas One-Spot Company, Jessup, Maryland Paper Products, Inc., 18554 South Susana Road, Long Beach 5, California Parke, Davis & Company, Jos. Campau at the River, Detroit 32, Michigan PAX Company, P.O. Box 2310 Salt Lake City 10, Utah Paxton Enterprises, Box 728, Palacios, Texas S. B. Penick & Company, 100 Church Street, New York 8, New York Pennsalt Chemical Corporation, 3 Penn Center Plaza, Philadelphia 2, Pennsylvania Pennsalt of Washington, 2901 Taylor Way, Tacoma 1, Washington Pennsylvania Engineering Co., 1109-21 North Howard Street, Philadelphia 23, Pennsylvania Pennsylvania Refining Company, Butler Savings & Trust Bldg., Butler, Pennsylvania Penola Oil Company, 15 West 51st Street, New York 19, New York Perk Products Company, 1338 Lewis Street, Nashville, Tennessee L. Perrigo Company, Bridge & Brady Streets, Allegan, Michigan Pest Guard Products, Inc., 731 West Davis, Dallas 8, Texas Pet Chemicals, Inc., 1038 N.W., 21st Street Terrace, Miami, Florida Pfanstiehl Detergent Chemicals, Inc., 2843 W. 19th St., Chicago 23, 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 Avenue, St. Louis 11, Missouri Phelps Dodge Refining Corporation, 300 Park Avenue, New York 22, New York Piatt & Smillie Chemical, Inc., 3419 Gratiot Street, St. Louis 3, Missouri The Piper Company, Inc., 2152 Yale Avenue, St. Louis 17, Missouri Pitman-Moore Company, Div. Allied Labs. P.O. Box 1656, Indianapolis 6, Indiana Pittsburgh Chemical Laboratory, Century Bldg., 130 7th St., Pittsburgh 22, Pennsylvania Pittsburgh Plate Glass Company, New Albany Road, Moorestown, New Jersey Plantabbs Corporation, 1105 Maryland Avenue, Baltimore 1, Maryland Plasti-Kote, Inc., 9801 Harvard Avenue, Cleveland, Ohio Plough, Inc., 3022 Jackson Avenue, Memphis, Tennessee Porter Paint Company, 1320 Cedar 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 The Proctor & Gamble Company, P.O. Box 599, Cincinnati 1, Ohio Protection Products Manufacturing Co., 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 Rat-Now Products, Inc., Route #1, Columbus, Indiana 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 Reasor-Hill Corporation, P.O. Box 36, Jacksonville, Arkansas Reefer-Galler, Inc., 521 Fifth Avenue, New York 17, New York Reilly Tar & Chemical Corp., 1615 Merchants Bank Bldg., Indianapolis 4, Indiana Rex Research Corporation, 600 Montrose Avenue, Toledo 7, Ohio Rexall Drug Company, 8480 Beverly Boulevard, Los Angeles 54, 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 Riverdale Chemical Company, 17th & Hanover Streets, Chicago Heights, Illinois Robeson Preservo Company, 208 Merchants 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 W. T. Rogers Company, P.O. Box 2095, Madison, Wisconsin Rohm & Haas Company, 222 W. Washington Square, Philadelphia 5, Pennsylvania Rokeby Chemical Company, Second Street at St. Clair, Marietta, Ohio Roman Cleanser Company, 2700 E. McNichols Bldg., Detroit 12, Michigan Rotenone Products Company, 110 Eaton Place, East Orange, New Jersey Royal Appliance Manufacturing Company, 1975 E. 61st Street, Cleveland 3, Ohio I. D. Russell Company Laboratories, 2463 Harrison Street, Kansas City, Missouri

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 1, Georgia Sapo Elixir Chemical Company, 9870 Big Bend Blvd., 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 Seaboard Sea Company, 701 South Front Street, Philadelphia 47, Pennsylvania Sears, Roebuck & Company, 925 South Homan Ave., Dept. 671, Chicago 7, Illinois Sennewald Drug Company, Inc., 2723 Chouteau Avenue, St. Louis 3, Missouri Senoret Chemical Company, 610 Gratiot Street, St. Louis 2, Missouri Septi-San Manufacturing Company, 720 East High Street, Farmer City, Illinois John Sexton & Company, P.O.Box JS, Chicago 90, Illinois Shell Chemical Company, 110 West 51st Street, New York 20 New York 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 Smith Chemical Company, 1113 Clark Avenue, Ames, Iowa Smith-Douglas Company, P.O. Box 419, Norfolk, Virginia Sno-Wash Distributors, 1523 Obryne Street, Henderson, Kentucky Southern Agricultural Insecticides, Inc., P.O. Box 218, Palmetto, Florida Southwestern Drug Company, 1451 Madison Avenue, Memphis 4, Tennessee Sputnik Fly Killer Company, 5120 East Florence Avenue, Bell, California Stalfort Pressure Pak, Inc., 2012 Hammonds Ferry Road, Baltimore 27, Maryland Standard Oil Company, Inc., 430 West Bloom Street, Louisville, Kentucky Standard Packaging Company, 200 East 42nd Street, New York 17, New York Stanley Home Products, Inc., 42 Arnold Street, Westfield, Massachusetts Sta-Pine Products, Inc., Box 27, Quitman, Louisiana Stark Brothers Nurseries & Orchards Company, Louisiana, Missouri Stauffer Chemical Company, 555 5th Avenue, New York 17, New York Stearn's Electric Paste Company , 8 South Dearborn Street, Chicago 3, 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 21, Ohio J. Strickland & Company, 1400 Ragan, Memphis, Tennessee Stull's Chemical, Inc., 3400 Nacogdoches Road, San Antonio, Texas Sun Oil Company, 1608 Walnut Street, Philadelphia 3, Pennsylvania W. R. Sweeney Manufacturing, Inc., 340 South Main, Salisbury, Missouri Swift & Company, Agricultural Chemical Div., National Stock Yards, Illinois Syncro-Mist Control, Inc. 270 Madison Avenue, New York 16, New York Tabtrol Company, 7003 Deerfield Road, Baltimore 3, Maryland Ray H. Tanck, Inc., Middleton, Wisconsin The Taylor-Reed Corporation, Glenbrook, Connecticut Tennessee Copper Company, 617-29 Grant Bldg, Atlanta 1, Georgia Tennessee Corporation, Lockland Station, Cincinnati 15, Ohio Texas Refining Corporation, P.O. Box 711, Fort Worth, Texas Texize Chemicals, Inc., 215 Lawyers Bldg, Greenville, South Carolina Thompson Chemicals Corporation, 3600 Monon Street, Los Angeles, California Thompson-Hayward Chemical Company, 2915 Southwest Blvd., Kansas City 8, Missouri Tidy House Products Company, 604 West Thomas, Shenandoah, Iowa Tobacco States Chemical Company, P.O. Box 479, Lexington, Kentucky Tom-Cat Products Company, 208 Front Street, Jonesboro, Arkansas Toxite Laboratories, Inc., Box 29241, Cumberland, Indiana Trylon Products Corporation, 2750 N. Wolcott Avenue, Chicago 14, Illinois Tull Chemical Company, P.O. Box 246, Oxford, Alabama Turco Products, Inc., 24600 Main Street, Wilmington, California Tykor Products, Div. of Borden Company, 350 Madison Avenue, New York 17, New York Union Carbide Corporation, 270 Park Avenue, New York 17, New York Union Carbide Consumer Products Company, 270 Park Avenue, New York 17, New York Unit Chemical Corporation, 4161 Redwood Avenue, Los Angeles 66, California United Cooperatives, Inc., 111 Glamorgan Street, Alliance, Ohio United States Borax & Chem. Corporation, 530 Shatto Place, Los Angeles 5, California United States Rubber Company, 1230 Avenue of the Americas, New York 20, New York 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 15, Texas Vaughan's Seed Company, 601 West Jackson, Chicago 6, Illinois

Westal Laboratories, Inc., 4963 Manchester, St. Louis 10, Missouri Victrylite Candle Company, P.O. Box 890, Oshkosh, Wisconsin Virginia-Carolina Chemical Corporation, Murray Road, St. Bernard Sta., Cincinnati 17, Ohio Virginia-Carolina Chemical Corporation, 401 East Main Street, Richmond, Virginia Virginia Smelting Company, West Norfolk, Virginia Walgreen Laboratories, 4300 Peterson Avenue, Chicago 46, Illinois Watkins Products, Inc., 150 Liberty Street, Winona, Minnesota Weco Products Company, 20 North Wacker Drive, Chicago 6, Illinois Weil-Elliott Chemical Company, Inc., 401 N. 37th Street, Louisville 12, 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, 180 Mamaroneck Avenue, White Plains, New York Whitmire Research Laboratories, Inc., 339 S. Vandeventer, St. Louis 10, Missouri Winston Sales Company, 4100 West Grand Avenue, Chicago, Illinois Wisconsin Chemical Products Company, 5117-19 N 32nd Street, 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 Wyandotte Chemicals Corporation, 1609 Biddle Avenue, Wyandotte, Michigan Wyeth Laboratories, P.O. Box 8299, Philadelphia 1, Pennsylvania Yopp Seed Company, 300 South Second Street, Paducah, Kentucky Zep Manufacturing Corporation, 1310 Seaboard Ind. Blvd. N.W. Atlanta 1, Georgia

#### INTRODUCTION

This bulletin contains results of analyses of official pesticide samples secured during the period January 1, 1961, through December 31, 1961. Of the 295 samples reported, 38 were found to be deficient. Twelve samples represented products not registered, as required by the Kentucky Economics Poison Law at the time of sampling.

#### LABELING REQUIREMENTS

Chemicals that require registration under the act 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.

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 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 trade-mark under which the article is sold.

#### PURPOSE OF THE PESTICIDE LAW

The Kentucky Economic Poisons Law, though designed primarily to protect the purchaser or user 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 use 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 information shown on the label 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 because the 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 in-effective and worthless items of this kind off the market.

#### FIELD INSPECTION

In order to adequately enforce the provision 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 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 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, and Horticulture, the Director of the Kentucky Agricultural Experiment Station has restricted the sale of such fertilizer-pesticide mixtures to specific crops and at definite rates of application. The use of these products is based on 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 more 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 call 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 neccessity 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 295 samples analyzed during the year from January 1, 1961, through December 31, 1961, 38 samples were found to be deficient in one or more of the active ingredients guaranteed. This represents about thirteen percent of the number of samples secured. Twelve 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 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 PESTICIDES IN FERTILIZER

Registrant Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	Remarks
AMERICAN AGRICULTURAL CHEMICAL COMPANY			
3-9-6 Sulfate with 0.15 Aldrin	0.15	0.17	
Aldrin	0.15	0.17	P
Aldrin	0.15	0.14	P
4-9-3 Sulfate with 0.20 Aldrin			
Aldrin	0.20	0.15	D
Aldrin	0.15	0.24	P
4-16-4 Sulfate with 0.30 Aldrin			
Aldrin	0.30	0.36	P
Aldrin	0.30	0.39	P
4-16-4 Sulfate with 0.30 Aldrin			
Aldrin	0.30	0.30	P
Aldrin	0.30	0.25	P
5-10-15 Sulfate with 0.15 Aldrin			
Aldrin	0.15	0.15	P
Aldrin	0.15	0.15	P
5-10-15 Sulfate with 0.15 Aldrin	0.00		
Aldrin	0.38	0.18	М
Aldrin	0.15	0.11	D
6- 6-18 Sulfate with 0.15 Aldrin			
Aldrin	0.15	0.16	P
Aldrin	0.40	0.51	P
10- 6- 4 Muriate with 0.30 Aldrin			
Aldrin	0.30	0.22	D
Dieldrin	0.375	0.37	P
10- 6- 4 Muriate with 0.375 Dieldrin	0.075		
Dieldrin	0.375	0.29	D
ARMOUR AGRICULTURAL CHEMICAL COMPANY			
5-10-15 Sulfate with 0.15 Aldrin	0.15		
Aldrin	0.15	0.18	P
Aldrin	0.15	0.15	P
5-10-15 Sulfate with 0.15 Aldrin			
Aldrin	0.15	<u>0.08</u> Hepta	achlor DM
Aldrin	0.15	0.07 Hepta	achlor DM
5-10-15 Sulfate with 0.15 Aldrin			
Aldrin	0.15	0.15	P
Aldrin	0.15	0.15	P
6-12-12 Muriate with 0.25 Aldrin			
Aldrin	0.25	0.10	D
Aldrin	0.25	0.24	P
6-12-18 Sulfate with 0.15 Aldrin			
Aldrin	0.15	0.20	P
Aldrin	0.15	0.14	P
10-10-10 Muriate with 0.50 Aldrin			
Aldrin	0.50	0.45	P

# ANALYSES OF PESTICIDES IN FERTILIZER (Con't)

Registrant Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	Kemarks
ARMOUR AGRICULTURAL CHEMICAL CO. (Con't)			
5-10-5 Muriate with 0.1875 Dieldrin	0.1875	0.02	D
Dieldrin	0.1075	0.03	и
Dieldrin	0.1875	0.02	D
5-10-5 Muriate with 0.1875 Dieldrin	0.1075	0.02	•
Dieldrin	0.1875	0.08	D
5-10-5 Sulfate with 0.1875 Dieldrin			
Dieldrin	0.1875	0.19	P
5-10-5 Sulfate with 0.375 Dieldrin			
Dieldrin	0.375	0.08	D
5-10-5 Sulfate with 0.1875 Dieldrin			
Dieldrin	0.1875	0.18	P
BY IEADACC DI ANT. BOODS THE			
BLUEGRASS PLANT FOODS, INC. 0-20-20 Muriate with 0.50 Aldrin			
Aldrin	0.50	0.50	х
4-12-8 Muriate with 0.1875 Aldrin			
Aldrin	0.31	0.18	D
4-12-8 Muriate with 0.31 Aldrin			
Aldrin	0.31	0.31	P
5-15-0 Muriate with 0.31 Aldrin			
Aldrin	0.31	0.32	P
5-15-0 Muriate with 0.31 Aldrin			
Aldrin	0.31	0.28	P
5-15-0 Muriate with 0.35 Aldrin	0.25	0.05	<b></b>
Aldrin	0.35	0.25	DM
Aldrin	0.31	0.25	D
5-10-15 Sulfate with 0.15 Aldrin	0.31	<u> </u>	
Aldrin	0.15	0.12	P
5-10-15 Sulfate with 0.20 Aldrin			
Aldrin	0.20	0.19	P
5-10-15 Sulfate with 0.20 Aldrin			
Aldrin	0.20	0.22	P
6- 6-18 Sulfate with 0.15 Aldrin			
Aldrin	0.15	0.17	P
6- 6-18 Sulfate with 0.20 Aldrin	0.20	0.16	<b>D</b>
Aldrin	0.20	0.16	P
Aldrin	0.50	0.52	P
AIGIII	0.50	0.52	
BURLEY BELT PLANT FOOD WORKS, INC.			
4-16-4 Sulfate with 0.3125 Aldrin			
Aldrin	0.3125	0.34	P
4-16-4 Sulfate with 0.312 Aldrin			
Aldrin	0.3125	0.34	P
4-16-4 Sulfate with 0.3125 Aldrin			
Aldrin	0.3125	0.37	P
4-16-4 Sulfate with 0.312 Aldrin	0.2125	0.20	D
Aldrin	0.3125	0.29	P
COOPERATUE PERTITUES CERUTOR			
COOPERATIVE FERTILIZER SERVICE 4-16-4 Sulfate with 0.31 Aldrin			
Aldrin	0.31	0.34	P
With the contract			

# ANALYSES OF PESTICIDES IN FERTILIZER (Con't)

Registrant Product			
Active Ingredient	Guaranteed %	Found %	Remarks
		10	
COOPERATIVE FERTILIZER SERVICE (Con't) 4-16-4 Sulfate with 0.31 Aldrin			
Aldrin	0.31	0.33	P
4-16-4 Sulfate with 0.31 Aldrin	0.31	0.33	P
Aldrin	0.31	0.30	P
4-16-4 Sulfate with 0.31 Aldrin			
Aldrin4-16-4 Sulfate with 0.31 Aldrin	0.31	0.34	P
Aldrin	0.31	0.27	P
5-10-15 Sulfate with 0.15 Aldrin		0.27	
Aldrin	0.15	0.16	P
5-10-15 Sulfate with 0.15 Aldrin	0.15		
Aldrin5-10-15 Sulfate with 0.15 Aldrin	0.15	0.15	P
Aldrin	0.15	0.15	P
10-10-10 Muriate with 0.50 Aldrin			
Aldrin	0.50	0.47	P
10-10-10 Muriate with 0.40 Heptachlor Heptachlor	0.40	0.00	
neptachioi	0.40	0.30	D
COMMONWEALTH FERTILIZER COMPANY			
4-12-8 Muriate with 0.50 Aldrin			
Aldrin	0.50	0.44	P
FEDERAL CHEMICAL COMPANY			
4-12-8 Muriate with 0.1875 Aldrin			
Aldrin	0.1875	0.13	D
4-12-8 Muriate with 0.1875 Aldrin	0.1075		
Aldrin	0.1875	0.14	D
Aldrin	0.1875	0.18	P
5-10-15 Sulfate with 0.15 Aldrin			
Aldrin	0.15	0.15	P
9-10-15 Sulfate with 0.50 Aldrin Aldrin	0.50	0.01	
10-10-10 Muriate with 0.50 Aldrin	0.50	0.24	D
Aldrin	0.50	0.49	P
IUTSON CHEMICAL COMPANY			
5-10-15 Sulfate with 1.00 Aldrin Aldrin	1.00	0.97	
5-10-15 Sulfate with 1.00 Aldrin	1.00	0.87	P
Aldrin	1.00	1.01	P
NUMBER OF THE PARTY OF THE PART			
NTERNATIONAL MINERALS & CHEMICAL CORP. 5-10-15 Sulfate with 0.20 Aldrin			
Aldrin	0.20	0.13	D
5-10-15 Sulfate with 0.20 Aldrin	0.20	0.15	ъ
Aldrin	0.20	0.12	D
5-10-15 Sulfate with 0.20 Aldrin	0.20		
Aldrin	0.20	0.18	P
Aldrin	0.20	0.19	P
6- 6-18 Sulfate with 0.15 Aldrin			
Aldrin	0.15	0.13	P
6- 6-18 Sulfate with 0.6 Aldrin Aldrin	0.60	0.15	
ALULIII	0.60	0.45	D

# ANALYSES OF PESTICIDES IN FERTILIZER (Con't)

Guaranteed	Found	Remarks
76	%	
0.20	0.22	P
0.50	0.00	
0.50	0.08	D
0.31	0.29	P
0.31	0.21	D
0.10	0.10	
0.18	0.18	P
0.31	0.28	P
0.31	0.44	P
0.31	0.28	P
0.51	0.20	•
0.345	0.38	P
0.50	0.43	P
0.30	0.43	1
0.16	0.10	D
0.15	0.07	D
0.30	0.00	D
0.30	0.09	D
CONTAINING ALDI	RIN*	
Δ1,	lrin	
		Remarks
%	%	ACINGE RO
20.0	17.7	D
00.0	23.0	М
23.0	23.0	M
23.0	23.0	PI
20.0	19.7	M
	0.20 0.50  0.31 0.31 0.18  0.31 0.31  0.345  0.50  0.16 0.15 0.30  CONTAINING ALDER  Guaranteed	%     %       0.20     0.22       0.50     0.08       0.31     0.29       0.31     0.21       0.18     0.18       0.31     0.28       0.31     0.44       0.31     0.28       0.31     0.28       0.31     0.44       0.31     0.28       0.345     0.38       0.50     0.43       0.16     0.10       0.15     0.07       0.30     0.09       S CONTAINING ALDRIN*       Guaranteed %     Found %

\*See pages 13 to 16 for Aldrin in Fertilizer

# ANALYSES OF PRODUCTS CONTAINING ALDRIN (Con't)

Registrant Product Active Ingredient	Guaranteed %	Found %	Remarks
UNITED COOPERATIVES, INC. Aldrin Emuls. Concentrate Unico Aldrin Emuls. Conc	23.4	24.1	P
	23.4	23.2	P

# ANALYSES OF PRODUCTS CONTAINING DDT

Product	Guaranteed % 50.0 50.0	Found % 50.7	Remarks
ACME QUALITY PAINTS, INC. Acme Dura Dust 50% Wettable DDT  "AG" SUPPLY COMPANY 50% DDT	50.0		
Acme Dura Dust 50% Wettable DDT  "AG" SUPPLY COMPANY 50% DDT		50.7	P
Acme Dura Dust 50% Wettable DDT  "AG" SUPPLY COMPANY 50% DDT		50.7	P
"AG" SUPPLY COMPANY 50% DDT		50.7	P
50% DDT	50.0		
	50.0		
ATTIED CHEMICAL & DIE COPPORATION		48.0	P
ALLIED CHEMICAL & DYE CORPORATION			
Orchard Brand Genitox S-50% Wettable			
DDT Powder	EO 0		
221 TOWACT	50.0	50.1	P
THE BOURBON COMPANY			
Bourbon DDT 50% Wettable Powder	50.0	51.1	P
CALIFORNIA CHEMICAL COMPANY			
Ortho Pest-B-Gon 50% DDT Wettable	50.0	51.6	P
COOPERATIVE SEED & FARM SUPPLY SERVICE, INC.			
Statesman D-10 Dust (Contains DDT)	10.0	9.08	
Do	10.0		P
Poultry Louse Powder	10.0	9.30	P
D-5 Dust		10.40	P
	5.00	5.06	P
GULF OIL CORPORATION			
Gulf Trak Moth Spray with 6% DDT	6.00	6.19	P
NIAGARA CHEMICAL DIV. FOOD MACHINERY CORP.			
Niagara Farm & Garden DDT 50 Spray.	FO 0		
Niatox 10 Dust	50.0	50.0	X
Niagara Farm & Garden DDT 5 Dust	10.0	10.0	P
Magara Farm & Garden DDI 5 Dust	5.00	5.40	P
ALSTON PURINA COMPANY			
Purina DDT Insecticide	75.0	75.0	P
Purina DDT Insecticide 75% DDT Wett.	75.0	73.4	P
REX RESEARCH CORPORATION			
Rex Surface Insecticide	F 00		
nex burrace insecticide	5.00	5.36	P
IGO MANUFACTURING COMPANY			
Kill-Ko 50% DDT Wettable Powder	50.0	47.4	D
Kill-Ko Spec. 25% DDT Conc	25.0	25.8	P
Kill-Ko Super Strength 5% DDT	5.00	5.39	P

ANALYSES OF PRODUCTS CONTAINING DDT (Con't)

Registrant	DD		Remarks
Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	
OUTHERN STATES COOPERATIVE		10.3	P
D-10 Dust	10.0	10.3	
TOBACCO STATES CHEMICAL COMPANY	10.0	9.93	P
Tobacco States 10% DDT Residual Spray	10.0	24.7	P
Tobacco States 25% DDT Concentrate	25.0	24.7	P
Tobacco States 2# DDT Concentrate	22.9	49.1	P
DDT 50% Wettable Powder	50.0	50.0	P
Tobacco States 50% Wettable Powder	50.0		P
Do	50.0	49.5	P
Do	50.0	50.2	P
Do	50.0	51.3	P
Tobacco States 5% DDT	5.00	4.87	r
Tobacco States 10% DDT Ready Mixed			D
Dust	10.0	10.1	P
Do	10.0	10.0	P
Do	10.0	10.0	P
UNITED COOPERATIVES, INC.			
Unico DDT Spray-Powder	50.0	50.5	P
50% DDT Wettable Powder	50.0	48.8	P
Do	50.0	48.3	P
Do	50.0	52.3	P
Do	50.0	51.4	P
Do	50.0	48.0	P
Unico DDT Spray Powder	50.0	50.5	P
Do	50.0	50.5	P
Do	50.0	48.9	P
Unico DDT Emulsifiable Concentrate	24.0	25.3	P
Unico DDT 24% Emulsifiable Conc	24.0	24.1	P
Unico DDI 24% Emulsiliable Conc			
THE TOWN GUINTOAT COMPANY			
WEIL-ELLIOTT CHEMICAL COMPANY	24.0	24.2	P
Ken-Ko DDT Spray	50.0	48.3	P
Ken-Ko 50% Wettable DDT Dust	50.0	47.8	P
Do	10.0	9.56	P
Ken-Ko Tobacco Flea Bettle Dust		51.1	P
Ken-Ko 50% Wettable Dust for Ag. Spray	30.0	31.1	
ANALYSES OF PRODUC	THE CONTAINING DI	ET DRIN*	
ANALYSES OF PRODUC	13 CONTAINING DI	LIDALIA.	
	Die	ldrin	
Registrant	Guaranteed	Found	Remark
Product	%	%	
Active Ingredient	70		
ACRE OHALTTY DATNES THE			
ACME QUALITY PAINTS, INC. Acme Dieldrin 18	18.6	21.9	P
Acme Dieldrin 10			
CAN THORNES GURNIGAT CORPORATION			
CALIFORNIA CHEMICAL CORPORATION	18.6	20.1	P
Ortho Dieldrin Spray	17.9	18.9	P
Do			
STAUFFER CHEMICAL COMPANY	18.7	20.8	P
Stauffer Dieldrin 1.5E	10.7		
TOBACCO STATES CHEMICAL COMPANY			
Tobacco States Brand Plant Bed		0.00	
& Lawn Saver	2.50	2.68	P

\* See pages 14 to 16 for Dieldrin in Fertilizer

# ANALYSES OF PRODUCTS CONTAINING DIELDRIN (Con't)

Registrant	Diel	drin	
Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	Kemar Ko
TOBACCO STATES CHEMICAL COMPANY (Con't)			
Tobacco States 1.5# Dieldrin Emul Conc.	17.6	18.1	P
UNITED COOPERATIVES, INC.			
Dieldrin Emulsifiable Concentrate	18.0	19.8	р
Do	18.0	19.6	P
Unico Dieldrin Granules	5.00	5,30	p
Do	5.00	5.22	P
Do	5.00	5.80	P

# ANALYSES OF PRODUCTS CONTAINING ENDRIN

Registrant	E	ndrin	
Product Active Ingredient	Guaranteed %	Found %	Remarks
"AG" SUPPLY COMPANY			
Endrin Tobacco Spray	19.5	19.7	P
CALIFORNIA CHEMICAL COMPANY			
Ortho Endrin 1.6 Emulsive	18.6	18.9	P
PEOPLE'S FARM SUPPLY			
Ford Brand Endrin 1.6E	19.8	19.0	P
UNITED COOPERATIVES, INC.			
Unico Endrin Emuls. Concentrate	18.9	18.6	P
Do	18.9	18.9	P
WEIL-ELLIOTT CHEMICAL COMPANY			
Ken-Ko Endrin 1.6E	19.0	19.4	P
Do	18.7	19.1	P
WOOLFOLK CHEMICAL WORKS, LTD.			
Security Endri-Sol	18.5	19.7	P
Security Endri-Sol. Emul. Liquid	18.5	19.0	P
becarrey Butt-501. Buildi. Liquid	10.3	19.0	P

# ANALYSES OF PRODUCTS CONTAINING FERBAM

Registrant	Ferbam		
Product Active Ingredient	Guaranteed %	Found %	Remarks
ATTITUD CHINATAL CONTOURS		- "	
ALLIED CHEMICAL CORPORATION			
Orchard Brand GC Ferbam Wett. Powder.	76.0	78.5	P
CALIFORNIA CHEMICAL COMPANY			
Nu-Leaf Black Fungicide	76.0	75.6	
Do			P
Во	76.0	74.0	P
CHEMICAL FORMULATORS, INC.			
Chemform Brand Ferbam Fungicide Spray			
Powder	76.0		
Towdet	76.0	76.3	P
COOP. SEED & FARM SUPPLY SERVICE			
Tobacco Blue Mold Dust	11.4	11 1	
Do		11.1	P
20	11.4	10.6	D

# ANALYSES OF PRODUCTS CONTAINING FERBAM (Con't)

		Remarks
%	%	
76.0	76.6	P
		P
		P
76.0	/5.0	Р
	70.1	
76.0	78.1	P
11.4	10.9	P
CTS CONTAINING M	MALATHION	
Mal	athion	
Guaranteed	Found	Remarks
%	%	
50.0	52.8	P
	F0 0	
50.0	52.9	P
50.0	47.5	P
50.0	48.4	P
2.00	2.41	X
	/5.0	
50.0	45.8	D
50.0	51.8	P
	3.85	P
	4.78	P
J.03		
F 00	F 04	D
		P
5.00	5.16	P
50.0	53.3	P
2.00	1.88	P
51 3	49.7	P
		P
		P
54.8	56.6	Р
50.0	50.0	P
	Guaranteed %  76.0 76.0 76.0 76.0 11.4  CTS CONTAINING Mal Guaranteed %  50.0 50.0 50.0 50.0 50.0 50.0 50.0 50	76.0 76.6 76.0 77.2 76.0 75.6  ORP. 76.0 78.1  11.4 10.9  CTS CONTAINING MALATHION  Malathion  Guaranteed Found %  50.0 52.8  50.0 52.9  50.0 47.5 50.0 48.4  2.00 2.41  50.0 45.8  50.0 51.8 4.00 3.85 5.00 4.78  5.00 5.04 5.00 5.16

5.00

5.36

WOOLFOLK CHEMICAL WORKS, LTD.
Security 5% Malathion Dust.......

# ANALYSES OF PRODUCTS CONTAINING MALEIC HYDRAZIDE

Registrant	Maleic Hydrazide		
Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	
NIACADA CHEM DIN BOOD MAGNITURDI S GURL			
NIAGARA CHEM. DIV. FOOD MACHINERY & CHEM. C	ORP.		
Niagara MH30 Liquid Maleic Hydrazide	30.0	29.6	P
STAUFFER CHEMICAL COMPANY			
Stauffer MH-30	30.0	21 1	
Company of the control of the contro	30.0	31.1	P
UNITED STATES RUBBER COMPANY			
MH-30 Plant Growth Inhibitor	30.0	30.2	P
MH-30	30.0	29.3	P
Do	30.0	29.9	P
ANALYSES OF PROD	OUCTS CONTAINING	MANEB	
Registrant	Ma	neb	
Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	
E. I. DU PONT DE NEMOURS & COMPANY			
Du Pont Manzate Maneb Fungicide	80.0	70.0	
Manzate	80.0	78.9	P
Handace	80.0	83.5	P
ANALYSES OF PRODUCTS	CONTAINING METHO	OXYCHLOR	
Registrant	Metho	cychlor	
Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	Remarks
"AG" SUPPLY COMPANY			
Ag 50% Methoxychlor Wett. Powder	50.0	48.6	P
Methoxychlor Garden Dust	5.00	4.83	P
Methoxychlor Emulsion Concentrate	24.0	21.8	D
ALLIED CHEMICAL CORPORATION			
Orchard Brand 50% Methoxychlor			
Wettable Powder	50.0	FO 1	
weetable lowdel	30.0	50.1	P
E. I. DU PONT DE NEMOURS & COMPANY			
DuPont Dairy Cattle Insecticide	50.0	48.8	
service serry dutile insecticiae	30.0	40.0	P
THE FARNAM COMPANY			
Methanox-Fly Spray Concentrate	21.0	20.8	х
GEIGY AGRICULTURAL CHEMICALS			
Geigy Methoxychlor 25E	25.0	26.2	P
Geigy Methoxychlor "50"	50.0	50.1	P
Do	50.0	48.8	P
DTG0 WINENESS			
RIGO MANUFACTURING COMPANY			
Kill-Ko Methoxychlor Dairy Kattle Dust	10.0	10.0	P
TOBACCO STATES CHEMICAL COMPANY			
7½% Methoxy Garden Dust	7.50	7.54	P
· 200 Housely Gazden Baser	7.50	7.54	P
ANALYSES OF PRODU	CTS CONTAINING R	OTENONE	
Registrant	Rote	none	
Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	
CABELL CHEMICAL COMPANY			
Cabell's Dustox with Rotenone	0.75	0.64	х
			^

# ANALYSES OF PRODUCTS CONTAINING ROTENONE (Con't)

Registrant	Roten	Found	Remark
Froduce	Guaranteed	round %	Kemark
Active Ingredient	%	/0	
TO THE PARTY OF THE PARTY			
CALIFORNIA CHEMICAL CORPORATION	1.00	0.50	D
Ortho Rotenone Dust or Spray	1.00	0.50	
COOP. SEED & FARM SUPPLY SERVICE			
Statesman Cattle Grub & Louse Dust	1.66	1.49	P
Statesman Cattle Grub & Louse bust	1.66	1.49	P
Do	5.00	4.89	P
Statesman 5% Wettable Rotenone	5.00	4.73	P
Do	3.00		
J. M. HARRIS & COMPANY			
Blue Dragon Dust	0.75	0.76	P
Blue Bragon Sastriction			
SAM HOUSTON COMPANY		0.00	n.
100-S Rotenone Mixture	1.00	0.88	P
Houston's 50-S Rotenone Mixture	0.50	0.56	Р
SOUTHERN STATES COOPERATIVE, INC.		1 55	P
Cattle Grub and Louse Dust	1.66	1.55	
Statesman 75 Dust	0.75	0.70	P
Do	0.75	0.69	P
TOBACCO STATES CHEMICAL CO., INC.			
Tobacco States Brand Rotenone .75			
Garden Dust	0.75	0.81	P
WEIL-ELLIOTT CHEMICAL COMPANY			
WEIL-ELLIOII CHEMICAL COMMANI			
Ken-Ko "75" Rotenone Dust	0.75	0.85	P
Ken-Ko "75" Rotenone Dust	0.75 0.75	0.85 0.74	P P
Ken-Ko "75" Rotenone Dust Do	0.75	0.74	
Ken-Ko "75" Rotenone Dust	0.75	0.74	
Ken-Ko "75" Rotenone Dust  Do  ANALYSES OF PRODU	0.75 UCTS CONTAINING	0.74 SEVIN	
Ken-Ko "75" Rotenone Dust  Do  ANALYSES OF PRODU	0.75 UCTS CONTAINING Se	0.74 SEVIN vin	
Ken-Ko "75" Rotenone Dust  Do  ANALYSES OF PRODU  Registrant  Product	0.75  JCTS CONTAINING  Se  Guaranteed	0.74 SEVIN vin Found	P
Ken-Ko "75" Rotenone Dust  Do  ANALYSES OF PRODU	0.75 UCTS CONTAINING Se	0.74 SEVIN vin	P
Ken-Ko "75" Rotenone Dust  Do  ANALYSES OF PRODU  Registrant  Product  Active Ingredient	0.75  JCTS CONTAINING  Se  Guaranteed	0.74 SEVIN vin Found	P
Ken-Ko "75" Rotenone Dust  Do	0.75  UCTS CONTAINING  Second	0.74 SEVIN vin Found	P
Ken-Ko "75" Rotenone Dust  Do  ANALYSES OF PRODU  Registrant  Product  Active Ingredient	0.75  JCTS CONTAINING  Se  Guaranteed	0.74 SEVIN vin Found %	P Remarks
Registrant Product Active Ingredient  CABELL CHEMICAL COMPANY Cabell's 7 Dust	0.75  UCTS CONTAINING  Second	0.74 SEVIN vin Found %	P Remarks
Registrant Product Active Ingredient  CABELL CHEMICAL COMPANY Cabell's 7 Dust	0.75  UCTS CONTAINING  Second 1/2  Guaranteed 1/2  2.00	0.74 SEVIN vin Found %	P Remarks
Registrant Product Active Ingredient  CABELL CHEMICAL COMPANY Cabell's 7 Dust	0.75  UCTS CONTAINING Second S	0.74 SEVIN vin Found % 1.78	P Remarks X
Registrant Product Active Ingredient  CABELL CHEMICAL COMPANY Cabell's 7 Dust	0.75  UCTS CONTAINING  Second 1/2  Guaranteed 1/2  2.00	0.74  SEVIN  vin  Found  %  1.78  51.2	P Remarks X
Registrant Product Active Ingredient  CABELL CHEMICAL COMPANY Cabell's 7 Dust  CALIFORNIA CHEMICAL CORPORATION Ortho Sevin 50 Wettable	0.75  UCTS CONTAINING Second S	0.74 SEVIN  vin  Found  %  1.78  51.2  42.4	P Remarks X
Ken-Ko "75" Rotenone Dust  Do	0.75  JCTS CONTAINING  Set Guaranteed %  2.00  50.0 50.0	0.74 SEVIN  vin  Found  %  1.78  51.2  42.4	P Remarks X
Registrant Product Active Ingredient  CABELL CHEMICAL COMPANY Cabell's 7 Dust  CALIFORNIA CHEMICAL CORPORATION Ortho Sevin 50 Wettable	0.75  UCTS CONTAINING Second S	0.74  SEVIN  vin  Found  %  1.78  51.2	Remarks X P D
Ken-Ko "75" Rotenone Dust  Do	0.75  UCTS CONTAINING Second S	0.74 SEVIN  vin  Found  %  1.78  51.2  42.4	Remarks X P D
Ken-Ko "75" Rotenone Dust  Do	0.75  UCTS CONTAINING Set	0.74 SEVIN  vin  Found  %  1.78  51.2  42.4	Remarks X P D
Ken-Ko "75" Rotenone Dust  Do	0.75  UCTS CONTAINING Second S	0.74  SEVIN  vin  Found  %  1.78  51.2  42.4  4.48	Remarks X P D
Ken-Ko "75" Rotenone Dust  Do	0.75  UCTS CONTAINING Set	0.74  SEVIN  vin  Found  %  1.78  51.2  42.4  4.48	Remarks X P D
Registrant Product Active Ingredient  CABELL CHEMICAL COMPANY Cabell's 7 Dust  CALIFORNIA CHEMICAL CORPORATION Ortho Sevin 50 Wettable Do  CHEMICAL FORMULATORS Chemform Brand "7" Dust  NIAGARA CHEM. DIV. FOOD MACHINERY & CHEM. C Sevin 50 Wettable Powder Insecticide.	0.75  UCTS CONTAINING  Secontaining  2.00  50.0  50.0  50.0  50.0  50.0	0.74  SEVIN  vin  Found  %  1.78  51.2  42.4  4.48	Remarks X P D
Ken-Ko "75" Rotenone Dust  Do	0.75  UCTS CONTAINING Set	0.74  SEVIN  vin  Found %  1.78  51.2 42.4  4.48  52.0	P Remarks X P D
Ken-Ko "75" Rotenone Dust  Do	0.75  UCTS CONTAINING  Secontaining  2.00  50.0  50.0  50.0  50.0  50.0	0.74  SEVIN  vin  Found %  1.78  51.2 42.4  4.48  52.0	P Remarks X P D
Ken-Ko "75" Rotenone Dust  Do	0.75  JCTS CONTAINING  Ser  Guaranteed %  2.00  50.0 50.0 50.0  1.75	0.74  SEVIN  vin  Found %  1.78  51.2 42.4  4.48  52.0	P Remark: X P D P
Ken-Ko "75" Rotenone Dust  Do	0.75  JCTS CONTAINING  Ser  Guaranteed %  2.00  50.0 50.0 50.0 1.75 5.00	0.74  SEVIN  vin  Found  1.78  51.2  42.4  4.48  52.0  2.42  5.01	P Remarks X P D P
Ken-Ko "75" Rotenone Dust  Do	0.75  JCTS CONTAINING  Ser Guaranteed %  2.00  50.0 50.0 50.0  1.75  5.00 5.00	0.74  SEVIN  vin  Found  1.78  51.2  42.4  4.48  52.0  2.42  5.01  4.88	P Remarks X P D P P P
Ken-Ko "75" Rotenone Dust  Do	0.75  JCTS CONTAINING  Ser Guaranteed %  2.00  50.0 50.0 50.0  1.75  5.00 5.00 5.00 5.00 5.00	0.74  SEVIN  vin  Found  1.78  51.2  42.4  4.48  52.0  2.42  5.01  4.88  4.99	P Remarks X P D P P P
Registrant Product Active Ingredient  CABELL CHEMICAL COMPANY Cabell's 7 Dust  CALIFORNIA CHEMICAL CORPORATION Ortho Sevin 50 Wettable  CHEMICAL FORMULATORS Chemform Brand "7" Dust  NIAGARA CHEM. DIV. FOOD MACHINERY & CHEM. C Sevin 50 Wettable Powder Insecticide.  RIGO MANUFACTURING COMPANY Kill-Ko Wettable Dust  TOBACCO STATES CHEMICAL COMPANY Vegetable Dust  Tobacco States Flea Beetle Dust	0.75  JCTS CONTAINING  Ser Guaranteed %  2.00  50.0 50.0 50.0  1.75  5.00 5.00	0.74  SEVIN  vin  Found  1.78  51.2  42.4  4.48  52.0  2.42  5.01  4.88  4.99  5.07	P Remarks X P D P P P P P
Registrant Product Active Ingredient  CABELL CHEMICAL COMPANY Cabell's 7 Dust  CALIFORNIA CHEMICAL CORPORATION Ortho Sevin 50 Wettable  CHEMICAL FORMULATORS Chemform Brand "7" Dust  NIAGARA CHEM. DIV. FOOD MACHINERY & CHEM. C Sevin 50 Wettable Powder Insecticide.  RIGO MANUFACTURING COMPANY Kill-Ko Wettable Dust  TOBACCO STATES CHEMICAL COMPANY Vegetable Dust  Tobacco States Flea Beetle Dust	0.75  JCTS CONTAINING  Ser Guaranteed %  2.00  50.0 50.0 50.0  1.75  5.00 5.00 5.00 5.00 5.00	0.74 SEVIN  vin  Found  %  1.78  51.2  42.4  4.48  52.0  2.42  5.01  4.88  4.99  5.07  1.84	P Remarks X P D P P P P P P P
Ken-Ko "75" Rotenone Dust  Do	0.75  JCTS CONTAINING  Set Guaranteed %  2.00  50.0 50.0 50.0  1.75  5.00 5.00 5.00 5.00 5.00 5.00	0.74  SEVIN  vin  Found  1.78  51.2  42.4  4.48  52.0  2.42  5.01  4.88  4.99  5.07	P Remarks X P D P P P P P

ANALYSES OF PRODUCT	S CONTAINING SEV	/IN (Con't)	
Registrant		Sevin	
Product	Guaranteed	Found	Remark
Active Ingredient	%	%	
UNION CARBIDE CHEMICAL COMPANY			
Crag Sevin	80.0	87.0	P
Sevin Brand Sprayable Insecticide	80.0	85.4	P
Do	80.0	89.6	P
WOOLFOLK CHEMICAL WORKS, LTD.			
Security 5% Sevin Garden Dust	5.00	4.99	P
Do	5.00	4.88	P
ANALYSES OF PROD	OUCTS CONTAINING	VAPAM	
Registrant	V	apam	
Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	
E. I. DU PONT DE NEMOURS & COMPANY			
VPM Soil Fumigant	32.7	34.2	ъ
Do	32.7	34.7	P
STAUFFER CHEMICAL COMPANY			
Vapam / C C-il D	32.7	36.0	P
Vapam 4-S Soil Fumigant Solution Stauffer Vapam Soil Fumigant for	31.0	36.7	P
All Crops	32.7	32.6	
Do	32.7	34.1	P
Stauffer Vapam	32.7	34.6	P P
ANALYSES OF PRODUC	TS CONTAINING ZI	INE B	
Registrant	7	lineb	
Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	Remarks
CHEMICAL FORMULATORS, INC.			
Zineb Fungicide	65.0	51.5	
Chemform Brand Zineb Fungicide		51.5	D
Spray Powder	65.0	49.0	D
Joonana marin anna a min			
COOPERATIVE SEED & FARM SUPPLY			
Statesman Z Dust	5.20	4.94	P
Do	5.20	4.95	P
. I. DU PONT DE NEMOURS & COMPANY			
Parzate Zineb Fungicide	65.0	67.9	P
OHM & HAAS COMPANY			
Dithane Z-78 Agricultural Fungicide	65.0	74.7	P
ANALYSES OF PRODUCTS CONTAIN	VING MIXTURES OF	PESTICIDES	
egistrant			
Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	
EL KNAP HARDWARE & MFG. COMPANY Tomahawk Vegetable Garden Dust			
	2 00	3.66	
Zineb	3.90	3.00	THE RELEASE WITH SHORT AND ASSESSED.
Zineb Methoxychlor	5.00	*	P
Zineb Methoxychlor Rotenone			P P P

# ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES (Con't)

Registrant	Guaranteed	Found	Remarks
Product Active Ingredient	%	%	Nomaz III
Active ingredient			
BUNTON SEED COMPANY			
Bunton's 100 Garden Dust or Spray		0.05	х
Rotenone	1.00	0.95	X
DDT	3.00	•	^
Do	1.00	0.97	х
Rotenone	3.00	3.16	P
DDT	3.00	3.10	
CABELL CHEMICAL COMPANY			
7-11 Dust			
Sevin	2.00	1.80	X
Zinc Ethylene Bis-DithioCarbamate	5.00	5.24	X
Cabell's Potato Dust			
DDT	3.00	2.85	X
Copper	6.75	6.90	X
CALIFORNIA CHEMICAL COMPANY			
Ortho Tobacco Spray-D	24.5	24.3	P
DDD	2.30	2.20	P
Dieldrin	2.30	2.20	
Ortho Rhothane & Dieldrin	24.5	24.0	P
DDD	2.30	2.40	P
Dieldrin	2.30	2.40	
Ortho Tobacco Spray-D	24.5	24.3	P
DDD Dieldrin	2.30	2.29	P
Dieidi in	2.50		
CHEMICAL FORMULATORS, INC.			
Grape & Berry Spray Powder			
Ferbam	38.0	$\frac{33.4}{26.3}$	D
DDT	25.0	26.3	P
Chemform Brand Tomato Dust			
Zineb	5.00	$\frac{4.29}{2.17}$	D
DDT	2.00	2.17	P
Chemform Special Potato Dust			
DDT	5.00	5.88	P
Copper	7.00	7.15	P
RALSTON PURINA COMPANY Purina Stock Spray (Powder)			
DDT	45.0	45.0	P
BHC from Lindane	2.50	*	P
bho irom Erndane			
RIGO MANUFACTURING COMPANY			
Kill-Ko Tobacco Spray			
DDD	25.0	25.3	P
Dieldrin	2.34	2.12	P
TOBACCO STATES CHEMICAL COMPANY			
Improved Hopper & Worm Dust	0.22	*	P
DDD	1.50	1.71	P
Dieldrin		1./1	
Tobacco States Tomato Multi-Purpose Du	5.00	5.76	P
Zineb	5.00	*	P
DDD	5.00		
8-1 Cuke Dust	6.40	6.82	P
Maneb BHC from Lindane	1.00	*	P
Tobacco States Paration 10% Sevin Dust			
Sevin	10.0	10.2	P
Parathion	1.00	*	P
PATALITUIL			

# ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES (Con't)

Registrant			
Product	Guaranteed	Found	Remarks
Active Ingredient	%	%	
UNITED COOPERATIVES, INC.			
Unico TDE Dieldrin Emuls. Concentrate			
DDD	23.9	24.1	P
Dieldrin	2.20	2.25	P
Do			
DDD	23.9	23.9	P
Dieldrin	2.20	2.41	P
Do			
DDD	23.9	23.7	P
Dieldrin	2.20	2.12	P
Do			
DDD	23.9	24.0	P
Dieldrin	2.20	2.19	P
Unico Rose and Floral Dust			
DDT	5.00	*	P
Lindane	1.00	*	P
Zineb	5.00	5.43	P
Phaltan	25.0	*	P
Sulphur	25.0	*	P
WEIL-ELLIOTT CHEMICAL COMPANY			
Ken-Ko Rhothane and Dieldrin			
DDD	23.3	23.6	P
Dieldrin	2.19	2.31	P
Ken-Ko Special Pickle Dust			
BHC from Lindane	1.00	*	P
Maneb	6.40	6.07	P

<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 non-chlorophyll bearing plants of a lower order than mosses and liverworts) as for example, rusts, smuts, mildews, molds, yeasts, bacteria and viruses, except those on or in living man or other animals;

(10) "Ingredient statement" or "guaranteed analysis statement" means either (1) a statement of the name and percentage of each active ingredient, together with the total percentage of the inert ingredients, in the economic poisons; and in addition, in case the economic poisons contain arsenic in any form, a statement of the percentage of total and water soluble arsenic, each stated as elemental (metallic) arsenic; or (2) a statement of the name of each active ingredient in the descending order of percentages, together with the name of each and total percentage of the inert ingredients, if any there be, in the economic poison (except option one shall apply if the preparation is highly toxic to man, determined as provided in KRS 217.580), and in case the economic poisons contain arsenic in any form a statement of the percentage of total and water soluble arsenic, each stated as elemental (metallic) arsenic;

(11) "Active ingredient" means an ingredient which will prevent, destroy, repel or mitigate insects, fungi, rodents, weeds or other pests;

(12) "Inert ingredient" means an ingredient which is not an active ingredient.

(13) "Antidote" means the most practical immediate treatment in case of poisoning and includes first aid treatment;

(14) "Person" means any individual, partnership, association, corporation or organized group of persons whether incorporated or not;

(15) "Director" means the Director of the Kentucky Agricultural Experiment Station; (16) "Registrant" means the person registering any economic poison pursuant to the

provisions of KRS 217.540 to 217.640;

(17) "Label" means the written, printed or graphic matter on or attached to, the economic poison or device, or the immediate container thereof, and the outside container or wrapper of the retail package, if any there be, of the economic poison or device;

(18) "Labeling" means all labels and other written, printed or graphic matter:

(a) Upon the economic poison or device or any of its containers or wrappers;

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;

"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;

The label of which does not bear an ingredient statement or guaranteed analysis statement on that part of the immediate container and on the outside container or wrapper, if there be one, through which the ingredient statement or guaranteed analysis statement on the immediate container cannot be clearly read, of the retail package which is presented or displayed under customary conditions of purchase;

(g) In which any word, statement, or other information required by or under the authority of KRS 217.540 to 217.640 to appear on the labeling is not prominently placed thereon with such conspicuousness (as compared with other words, statements, designs or graphic matter in the labeling) and in such terms as to render it likely to be read and understood by the ordinary individual under customary conditions of purchase and use; or

(h) Which, in the case of insecticide, fungicide or herbicide, when used as directed or in accordance with commonly recognized safe practice, shall be injurious to living man or other vertebrate animals or vegetation, to which it is applied, or to the person applying such economic poison, excepting pests and weeds. (1956 c. 218, 1; effective July 1, 1956)

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

(1) Any economic poison which is not registered pursuant to the provisions of KRS 217.570, or any economic poison if any of the claims made for it or any of the directions for its use differ in substances from the representation made in connection with its registration, or if the composition of an economic poison differs from its composition as represented in connection with its registration; provided, that in the discretion of the Director, a change in the labeling or formula of an economic poison may be made,

within a registration period, without requiring a re-registration of the product;
(2) Any economic poison, except in the registrant's or the manufacturer's broken immediate container, unless there is affixed to the container, and to the outside container or wrapper of the retail package, if there be one, through which the required information on the immediate container cannot be clearly read, a label bearing:

(a) The name and address of the manufacturer, registrant or person for whom manufactured;

(b) The name, brand or trade-mark under which said article is sold; and

(c) The net weight or measure of the content subject, however to such reasonable variations as the Director may permit;

(3) Any economic poison which contains any substance or substances in quantities highly toxic to man, determined as provided in KRS 217.580, unless the label shall bear, in addition to any other matter required by KRS 217.540 to 217.640:

(a) The skull and crossbones;

(b) The word "poison" prominently in red, on a background of distinctly contrast color; and

(c) A statement of an antidote for the economic poison;

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

217.560 Unlawful practices. It shall be unlawful:
(1) For any person to detach, alter, deface, or destroy, in whole or in part, any label or labeling provided for in KRS 217.540 to 217.640 or the rules and regulations promulgated hereunder, or to add any substance to, or take any substance from an economic poison in a manner that may defeat the purposes of KRS 217.540 to 217.640;

(2) For any person to use for his own advantage or to reveal, other than to the Director, or officials or employees of the state or officials or employees of the United States Department of Agriculture, or other Federal agencies, or to the courts in response to a subpoena, or to physicians, and in emergencies to pharmacists and other qualified persons for use in the preparation of antidotes, in accordance with such directions as the Director may prescribe, any information relative to formulas of products acquired by authority of KRS 217.570;

(3) For any person to oppose or interfere in any way with the Director or his duly authorized agents in carrying out the duties imposed by KRS 217.540 to 217.640 (1956

c. 218, 3; effective July 1, 1956)

217.570 Registration of economic poisons; renewal.

(1) Every economic poison which is distributed, sold or offered for sale within this state or delivered for transportation or transported in intrastate commerce or between points within the state through any point outside this state shall be registered with the Director. The Director may register and permit the sale of any such economic poison which has been duly registered without protest under the provisions of the Federal Insecticide, Fungicide and Rodenticide Act, but products so registered shall be subject to the inspection fees provided for herein, and to all other provisions of KRS 217.540 to 217.640. All registration of products shall expire on the thirty-first day of December following date of issuance, unless such registration shall be renewed annually, in which event expiration date shall be extended for each year of renewal registration, or until otherwise terminated; provided that:

(a) Products which have the same formula, and are manufactured by the same person, the labeling of which contains the same claims, and the labels of which bear a designation identifying the product as the same economic poison may be registered as a single economic poison; additional names and labels shall be added by supplement statements during the

current period of registration.

(b) Within the discretion of the Director, or his authorized representative, a change in the labeling or formulas of an economic poison may be made within the current period of registration, without requiring a re-registration of the product, provided the name of the item is not changed.

(2) The registrant shall file with the Director, a statement containing:

(a) The name and address of the registrant and the name and address of the person whose name will appear on the label, if other than the registrant;

(b) The name of the economic poison;

(c) A complete copy of the labeling accompanying the economic poison and a statement of all claims made and to be made for it including directions for use; and

(d) If requested by the Director, a full description of the tests made and results thereof upon which the claims are based. In the case of renewal of registration, a statement shall be required only with respect to information which is different from that

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

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

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

register the article;

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

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

with the provisions of KRS 217.540 to 217.640;

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

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

5; effective July 1, 1956)

217.580 Authority of Director.

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

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

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

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

(2) The Director is further authorized:

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

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

the state;

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

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

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

- If it shall appear from examination or evidence that any of the provisions of (1) 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:

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)