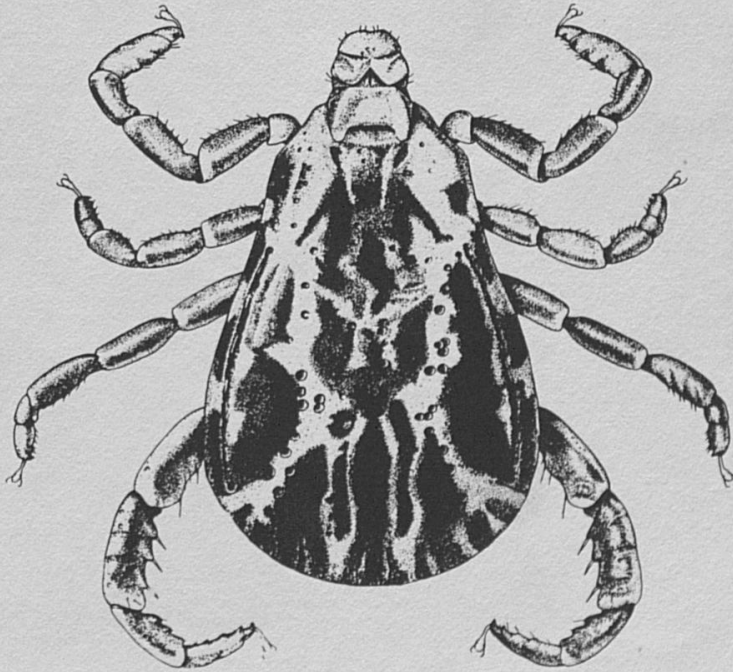


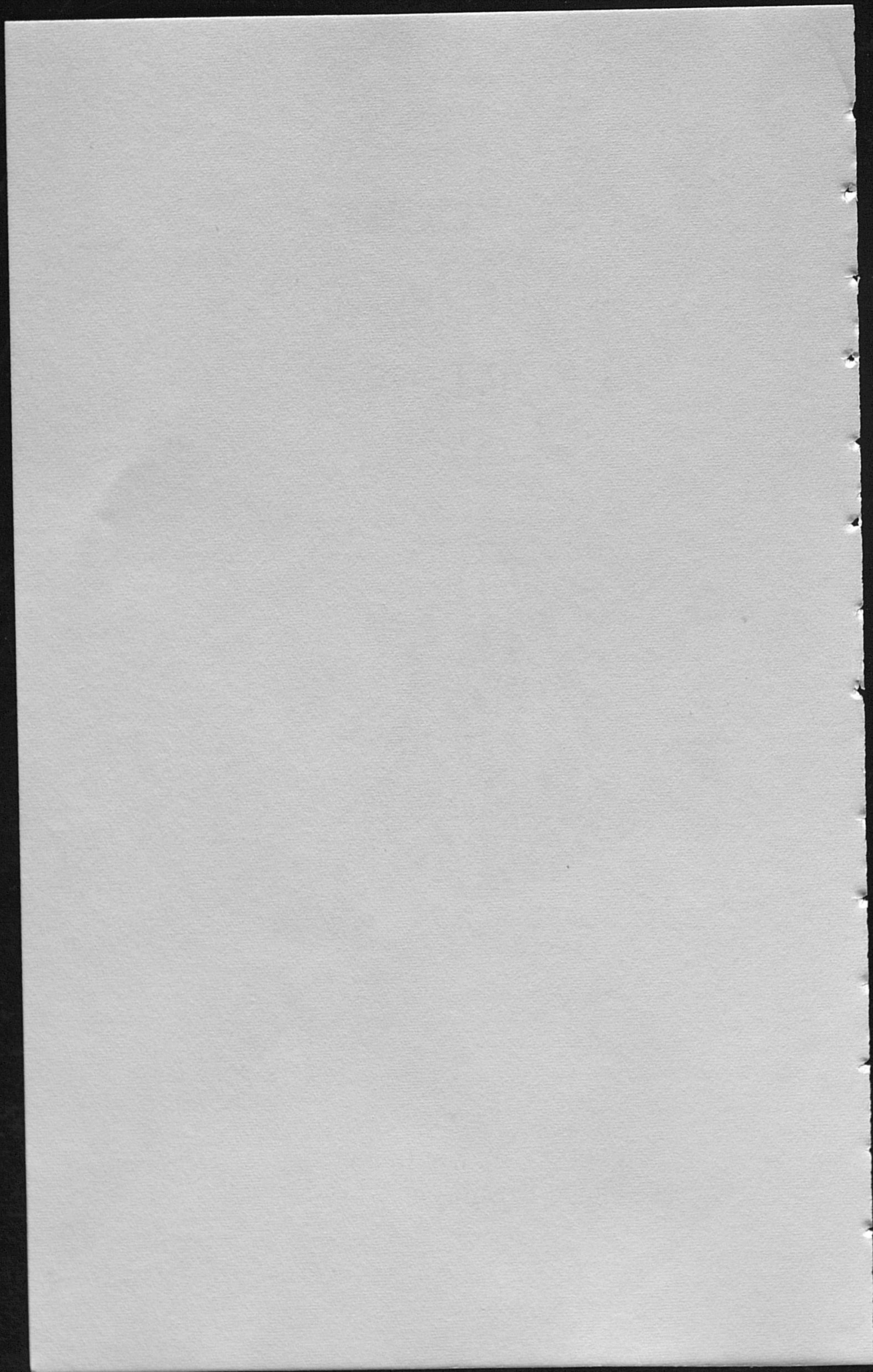
Regulatory Bulletin 201

KENTUCKY
ECONOMIC POISONS
REPORT, 1968



A Wood Tick
(Drawing Greatly Enlarged)

University of Kentucky
Agricultural Experiment Station
Lexington



DIVISION OF REGULATORY SERVICES
KENTUCKY AGRICULTURAL EXPERIMENT STATION

Bruce Poundstone, Director
Paul R. Caudill, Assistant Director

W. J. Huffman, Registration Inspector
*J. M. Fernandez, Auditor-Inspector

FIELD INSPECTORS

Joe B. Brown
Eugene Vanderpool
W. M. Robertson

Claude E. Hensley
Neville Hulette
Ben W. Cox

Wallace King
Wilson M. Routt
Samuel Whitehead

LABORATORY STAFF

Valva Midkiff
John T. Adair
Linda Fritz
Judy Dombrowski

John S. Shrader
Barbara Anderson

John Ellis
Norma Holbrook
Robert N. Price
Carolyn Sue Witt

* * * * *

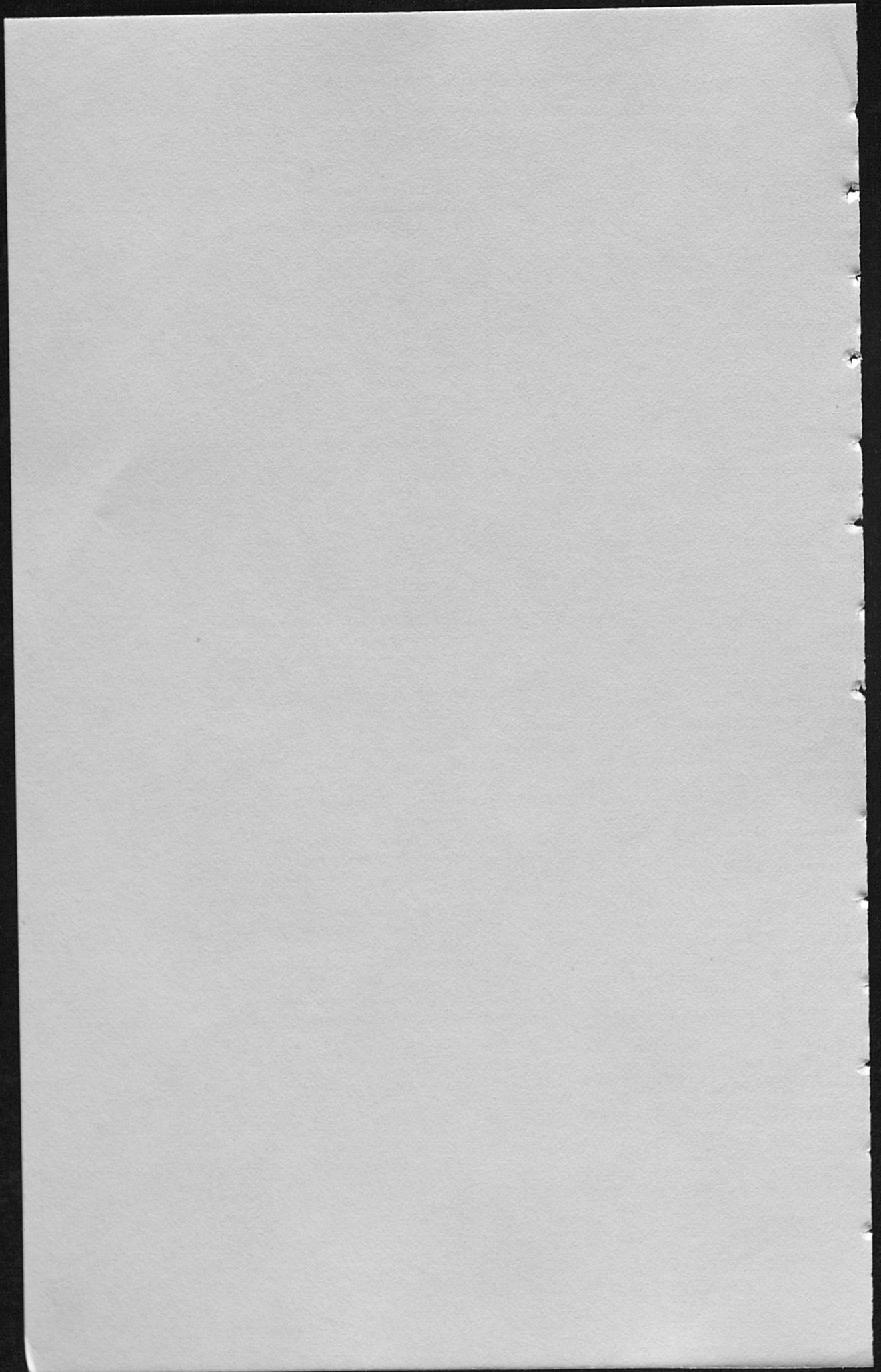
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NOTE - The cover picture is a drawing of a wood tick. The wood tick is only about 1/8 to 1/4 inch in body length. For more on wood ticks and their control see University of Kentucky Cooperative Extension Service leaflet 306.

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

* Resigned July 16, 1968



COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Ag. Supply Company Industrial Drive Hopkinsville, Kentucky 42240	The Clorox Company 850 42nd Ave. Oakland, California 94601
Agrico Chemical Company 5050 Poplar Avenue Memphis, Tennessee 38101	Colonial Stores, Inc. Box 4358 Atlanta, Georgia 30302
Allied Chemical Corp. 40 Rector Street New York, New York 10006	Commonwealth Fertilizer Company Box 438 Russellville, Kentucky 42276
Allied Mills, Inc. P. O. Box 459 Libertyville, Illinois 60048	Wm. Cooper & Nephews, Inc. 1909 North Clifton Chicago, Illinois 60614
The Ansul Company One Stanton Street Marinette, Wisconsin 54143	Cumberland Manufacturing Company 501 25th Avenue, North Nashville, Tennessee 37202
Armour Agricultural Chemical Company Box 1685 Atlanta, Georgia 30301	The D-Con Company, Inc. 90 Park Avenue New York, New York 10016
Babson Brothers Company 2100 S. York Road Oak Brook, Illinois 60521	DeLaval Separator Company 350 Dutchess Turnpike Poughkeepsie, New York 12602
Bacon Products, Inc. Box 8127 Chattanooga, Tennessee 37411	The Diversey Chemical Company 212 W. Monroe Street Chicago, Illinois 60606
Black Leaf Products 6147 North Broadway Chicago, Illinois 60626	Dixi Chem of Greenville 812 Hampton Avenue Greenville, South Carolina 29602
Bluegrass Plant Foods, Inc. North Main Street Cynthiana, Kentucky 41031	E. I. DuPont De Nemours & Company 6054 DuPont Bldg. Wilmington, Delaware 19898
Borden, Inc., Chemical Div. P. O. Box 419 Norfolk, Virginia 23501	E-Z-Flo Chemical Company Div. Growers Service Corporation P. O. Box 808 Lansing, Michigan 48903
Burley Belt Fertilizer Company Box 5150 Lexington, Kentucky 40505	Farmers Fertilizer Company Smiths Grove, Kentucky 42171
Calvert Chemical Company 1920 Losantiville Avenue Cincinnati, Ohio 45237	Farmland Industries 3315 N. Oak Trafficway Kansas City, Missouri 64116
Chevron Chemical Company 940 Hensley Street Richmond, California 94804	Federal Chemical Company 646 Starks Building Louisville, Kentucky 40202

COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN (Cont'd.)

Frasier Supply Company, Inc.
505 West Main Street
Glasgow, Kentucky 42141

Geigy Agricultural Chemicals
Ardsley,
New York 10502

W. R. Grace & Company
Agri Chemical Division
100 N. Main Street
Memphis, Tennessee 38103

The Great Atlantic & Pacific Tea Co.
3041 Wilson Avenue
Louisville, Kentucky 40211

Gro-Green Chemical Company
P. O. Box 388
Shelbyville, Kentucky 40065

Guarantee Pest Control Company
23 N. 31W Bypass
Bowling Green, Kentucky 42101

Hat-Ra Chemical Company
1100 N. Adams Street
Henderson, Kentucky 42420

Hess & Clark
7th & Orange Streets
Ashland, Ohio 44805

Houchen's Stores
Bowling Green,
Kentucky 42101

Independent Grocers Alliance Dist. Co.
Chicago,
Illinois

International Mineral & Chemical Corp.
P. O. Box 15067 - Lockland Station
Cincinnati, Ohio 45215

S. C. Johnson & Son, Inc.
1525 Howe Street
Racine, Wisconsin 53403

Jones Chemicals, Inc.
Iroquois Road
Caledonia, New York 14423

Carl Kaster
516 West Main Street
Louisville, Kentucky 40202

Kentucky Fertilizer Works
222 Cook Avenue
Winchester, Kentucky 40391

Klenzade Products, Inc.
P. O. Box 1020
Beloit, Wisconsin 53511

The Kroger Company
1240 State Avenue
Cincinnati, Ohio 45204

Lamb Products Company
Box 2741 - Arcade Station
Nashville, Tennessee 37219

Dr. L. D. LeGear, Inc.
4161 Beck Avenue
St. Louis, Missouri 63116

Liberty Cash Grocers, Inc.
Memphis,
Tennessee

Meyer-Blanke Company
5432 Highland Park Dr.
St. Louis, Missouri 63110

Mobil Chemical Company
401 E. Main Street
Richmond, Virginia 23208

Moorman Manufacturing Company
Quincy,
Illinois 62301

Niagara Chemical Division
FMC Corporation
201 Lovejoy Avenue
South Haven, Michigan 49090

North American Fertilizer Company
1419 S. Preston Street
Louisville, Kentucky 40217

Novel Wash Company
4045 Garfield Avenue
St. Louis, Missouri 63113

Ohio Valley Fertilizer Company
P. O. Box 567
Maysville, Kentucky 41056

Olin Mathieson Chemical Corporation
P. O. Box 392
Little Rock, Arkansas 72203

COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN (Cont'd.)

Pearson & Company
Box 431
Mobile, Alabama 36601

Pennsalt Chemical Corporation
3 Penn Center Plaza
Philadelphia, Pennsylvania 19102

Chas. Pfizer & Company, Inc.
235 East 42nd Street
New York, New York 10017

Pilot Stores, Inc.
Cincinnati, Ohio 45212

Perk Products Company
1412 Dickerson Road
Nashville, Tennessee 37213

Purex Corporation, Ltd.
24600 S. Main Street
Wilmington, California 90744

C. B. Ragland & Company
600 Thompson Lane
Nashville, Tennessee 37204

Ralston Purina Company
835 S. Eighth Street
St. Louis, Missouri 63199

Rigo Manufacturing Company
638 Benton Avenue
Nashville, Tennessee 37202

Dr. Roberts Laboratories
4995 N. Main Street
Rockford, Illinois 61101

Roman Cleanser Company
2700 E. McNichols Road
Detroit, Michigan 48212

Royster Company
Box 1940
Norfolk, Virginia 23501

Sales Producers Association, Inc.
Kansas City,
Missouri

Sapo Elixir Chemical Company
9870 Big Bend Blvd.
Kirkwood, Missouri 63122

Sep-Ko Chemicals, Inc.
3900 Jakcosn St., N.E.
Minneapolis, Minnesota 55421

The Sinclair Manufacturing Company
6120 N. Detroit Avenue
Toledo, Ohio 43612

Southern States Cooperative, Inc.
7th & Main Streets
Richmond, Virginia 23123

Southern States Cooperative, Inc.
Fertilizer Division
7th & Main Streets
Richmond, Virginia 23123

Sta-Rite Products, Inc.
Box 622
Delavan, Wisconsin 53115

Stauffer Chemical Company
P. O. Box 10
Dayton, New Jersey 08810

Supersweet Feeds Division
International Milling Company
1200 Investors Bldg.
Minneapolis, Minnesota 55415

Super Valu Stores, Inc.
Hopkins, Minnesota 55343

Thompson-Hayward Chemical Company
5200 Speaker Road
Kansas City, Missouri 66110

Tobacco States Chemical Company
P. O. Box 479
Lexington, Kentucky 40501

Union Carbide Corporation
270 Park Avenue
New York, New York 10017

Uniroyal Chemical Division
Amity Road
Bethany, Connecticut 06526

United Cooperatives, Inc.
111 Glamorgan Street
Alliance, Ohio 44601

United States Chemical Corporation
1644 W. Bruce Street
Milwaukee, Wisconsin 53215

Universal Milking Machine Division
1st. Avenue at College
Albert Lea, Minnesota 56007

COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN (Cont'd.)

Woodbury Chemical Company
Box 788
St. Joseph, Missouri 64502

Woolfolk Chemical Works, Ltd.
East Main Street
Fort Valley, Georgia 31030

INTRODUCTION

During the period January 1 through December 31, 1968, 460 pesticide samples were analyzed.

LABELING REQUIREMENTS

Chemicals that require registration under the Kentucky Economic Poisons Law must bear a label stating directions for use, which, if complied with, are considered adequate for the protection of the public. With few exceptions, the label must contain a warning or caution statement, designed to prevent injury to man and other vertebrate animals, vegetation, or other useful living things. The front or display side of the label should also bear the statement "Keep Out Of Reach Of Children." If the product is shipped in interstate commerce, the label should bear the Federal registration number.

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

The label provides the public with information on the uses of and the precautions to be taken in using all economic poisons sold in Kentucky. The name and address of the manufacturer or distributor, the net weight or measure of the contents of any package or bottle, and the brand or trademark under which the product is sold must appear on the label.

FIELD INSPECTION

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

PESTICIDE-FERTILIZER MIXTURES

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

EXPLANATION OF TABLES

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

Of the samples reported, 125 samples were found to be deficient in one or more of the active ingredients guaranteed. Seventeen products were not registered when the sample was taken, and three samples were mislabeled.

The symbols in the right hand column of each table except pesticide-fertilizer mixtures have the following meaning:

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

ANALYSES OF PRODUCTS CONTAINING ALDRIN

Registrant Product	Aldrin		Remarks
	Guarantee %	Found %	
ALLIED CHEMICAL CORPORATION Arcadian Aldrin 4 Emulsive	43.42	43.90	P
CHEVRON CHEMICAL COMPANY Ortho Aldrin 25 Granular	25.00	<u>21.30</u>	<u>D</u>
Ortho Aldrin 4 Emulsive	43.00	<u>39.20</u>	<u>P</u>
E-Z-FLO CHEMICAL COMPANY E-Z Flo Aldrin 4 EC	45.84	<u>43.70</u>	<u>D</u>
W. R. GRACE & COMPANY Grace NACO 20% Aldrin Granules	20.00	<u>17.30</u>	<u>D</u>
Do	20.00	<u>19.66</u>	<u>P</u>
Do	20.00	24.00	P
Do	20.00	19.16	P
Do	20.00	19.92	P
Do	20.00	20.80	P
Do	20.00	20.29	P
Do	20.00	21.85	P
Do	20.00	20.80	P
NIAGARA CHEMICAL DIVISION Granular 20% Aldrin	20.00	21.80	P
BORDEN CHEMICAL COMPANY Aldrin 4 EC	44.00	42.60	P
STAUFFER CHEMICAL COMPANY Aldrin 4 Emulsive	42.90	42.70	P
THOMPSON-HAYWARD CHEMICAL COMPANY Depester Aldrin 20 Granules	20.00	19.62	P
Do	20.00	19.18	P
TOBACCO STATES CHEMICAL COMPANY Aldrin 20% Granules	20.00	19.70	P
Do	20.00	19.60	P
Do	20.00	<u>18.70</u>	<u>D</u>
Do	20.00	<u>20.50</u>	<u>P</u>
Do	20.00	21.60	P
Aldrin 4 lb. Emulsive	41.22	41.70	P
Do	41.22	40.00	P
Do	41.22	41.10	P
UNITED CO-OPERATIVES, INC. Unico Aldrin 4 Emulsive	41.00	43.50	P
WOODBURY CHEMICAL COMPANY Sure Death 20% Aldrin Granules	20.00	19.36	X

ANALYSES OF PRODUCTS CONTAINING ATRAZINE

Registrant Product	Atrazine		Remarks
	Guarantee %	Found %	
GEIGY CHEMICAL COMPANY			
Geigy Atrazine 80 W	80.00	83.13	P
Do	80.00	83.41	P
Do	80.00	80.39	P
Do	80.00	83.40	P
Do	80.00	82.36	P
Do	80.00	81.74	P
Do	80.00	82.07	P
Do	80.00	81.61	P
Do	80.00	80.06	P
Do	80.00	80.09	P
Do	80.00	82.98	P
Do	80.00	80.08	P
Do	80.00	82.27	P
Do	80.00	83.59	P
Do	80.00	81.00	P
Do	80.00	81.05	P
Do	80.00	82.12	P
Do	80.00	83.56	P
Do	80.00	81.92	P
Do	80.00	82.37	P
Do	80.00	81.44	P
Do	80.00	83.28	P
Do	80.00	82.91	P

ANALYSES OF PRODUCTS CONTAINING CALCIUM HYPOCHLORITE

Registrant Product	Calcium Hypochlorite		Remarks
	Guarantee %	Found %	
OLIN MATHIESON CHEMICAL CORPORATION			
Lo-Bax	50.00	57.35	P
Do	50.00	56.69	P
PENNSALT CHEMICAL CORPORATION			
B-K Powder	50.00	60.22	P
RALSTON PURINA COMPANY			
Purina Chlorine Sanitizer	50.00	56.44	P
Do	50.00	62.70	P

ANALYSES OF PRODUCTS CONTAINING CARBARYL

Registrant Product	Carbaryl		Remarks
	Guarantee %	Found %	
AG. SUPPLY COMPANY			
"Ag" Sevin 5 Dust	5.00	4.29	P

ANALYSES OF PRODUCTS CONTAINING CARBARYL (Cont'd.)

Registrant Product	Carbaryl		Remarks
	Guarantee %	Found %	
AG. SUPPLY COMPANY (Cont'd.) "Ag" Sevin 5 Dust	5.00	4.35	P
CHEVRON CHEMICAL COMPANY			
Ortho Sevin Bean Dust	1.75	<u>0.58</u>	<u>D</u>
Ortho Sevin 50 W	50.00	48.73	P
Do	50.00	48.60	P
Do	50.00	49.52	P
E-Z-FLO CHEMICAL COMPANY			
E-Z Flo Sevin 50 W	50.00	51.91	P
FARMLAND INDUSTRIES			
Coop 5% Sevin Dust	5.00	5.06	P
W. R. GRACE & COMPANY			
NACO Sevin 5 Dust	5.00	4.71	P
NIAGARA CHEMICAL DIVISION			
Sevin 5 Dust	5.00	4.30	P
Sevin 50 WP	50.00	49.14	P
RIGO MANUFACTURING COMPANY			
Kill-Ko 80% Sevin Wettable	80.00	<u>66.19</u>	<u>D</u>
SOUTHERN STATES COOP., INC.			
SS 3% Sevin Dust	3.00	2.97	P
SS 5% Sevin Dust	5.00	4.61	M
THOMPSON-HAYWARD CHEMICAL COMPANY			
Sevin Dust No. 5	5.00	4.84	P
TOBACCO STATES CHEMICAL COMPANY			
Tobacco States 1 3/4% Bean Dust	1.75	<u>1.14</u>	<u>D</u>
Tobacco States Vegetable Dust	5.00	<u>4.60</u>	<u>P</u>
Do	5.00	<u>4.15</u>	<u>D</u>
Tobacco States 10% Sevin Dust	10.00	9.36	P
Tobacco States Sevin 50% WP	50.00	52.84	P
UNION CARBIDE CORPORATION			
Union Carbide Sevin 50 W	50.00	49.69	P
Do	50.00	48.59	P
Crag Sevin Sprayable	80.00	82.42	X
Do	80.00	83.48	P
Union Carbide Sevin Sprayable	80.00	83.48	P
Do	80.00	89.30	P
UNITED COOPERATIVES, INC.			
Unico Sevin Dust	3.00	2.85	P

ANALYSES OF PRODUCTS CONTAINING CIODRIN

Registrant Product	Ciodrin		Remarks
	Guarantee %	Found %	
CHEVRON CHEMICAL COMPANY Ortho Ciodrin Dairy Spray	2.00	2.48	P
UNITED COOPERATIVES, INC. Unico 1% Ciodrin Insecticide	1.00	0.91	P
Unico Stock Spray Concentrate	12.60	12.70	P
Do	12.60	14.40	P
Do	12.60	13.60	P

ANALYSES OF PRODUCTS CONTAINING DDT

Registrant Product	DDT		Remarks
	Guarantee %	Found %	
CHEVRON CHEMICAL COMPANY DDT 50% Wettable	50.00	52.50	P
E-Z-FLO CHEMICAL COMPANY E-Z Flo 10% DDT Dust	10.00	9.70	P
E-Z Flo 50% DDT WP	50.00	47.80	P
W. R. GRACE & COMPANY NACO DDT 50 WP	50.00	51.60	P
TOBACCO STATES CHEMICAL COMPANY Tobacco States 10% DDT Dust	10.00	10.60	P
Tobacco States 2 lb. DDT Emulsive	22.98	27.00	P
Tobacco States DDT 50% WP	50.00	51.30	P
UNITED COOPERATIVES, INC. Unico 50% DDT WP	50.00	47.50	P

ANALYSES OF PRODUCTS CONTAINING DDVP

Registrant Product	DDVP		Remarks
	Guarantee %	Found %	
ALLIED MILLS, INC. Wayne Fly Killer	0.46	0.47	P
BACON PRODUCTS COMPANY, INC. Flipo Special Fly Bait	0.50	0.44	X
DIXI CHEM OF GREENVILLE, INC. Di. Sect Fly Bait	0.46	0.46	P

ANALYSES OF PRODUCTS CONTAINING DDVP (Cont'd.)

Registrant Product	DDVP		Remarks
	Guarantee %	Found %	
CHAS. PFIZER & COMPANY, INC. Pfizer Fly Bait	0.10	0.20	P
RIGO MANUFACTURING COMPANY Kill-Ko Fly Bait	0.46	0.49	P
SUPERSWEET FEEDS Supersweet Fly Bait	0.50	0.52	P

ANALYSES OF PRODUCTS CONTAINING DIPTEREX

Registrant Product	Dipterex		Remarks
	Guarantee %	Found %	
ALLIED CHEMICAL COMPANY Bomyl "500" Sugar Bait	0.50	<u>0.05</u>	<u>DX</u>
HESS & CLARK Hess & Clark Fatal Fly	1.00	1.17	P
Do	1.00	1.07	P
UNITED COOPERATIVES, INC. Unico Kill Fly	1.00	1.17	P
Do	1.00	1.11	P

ANALYSES OF PRODUCTS CONTAINING MALATHION

Registrant Product	Malathion		Remarks
	Guarantee %	Found %	
AG. SUPPLY COMPANY "Ag" Malathion Emulsive	50.00	<u>48.20</u>	<u>D</u>
Do	50.00	50.00	P
Do	50.00	49.60	P
"Ag" 55% Malathion Emulsive	55.00	<u>53.20</u>	<u>D</u>
ARMOUR AGRICULTURAL CHEMICAL COMPANY Armagard 5 lb. Malathion EC	55.00	54.20	P
CHEVRON CHEMICAL COMPANY Ortho Malathion 25 Wetttable	25.00	<u>21.90</u>	<u>D</u>
Ortho Malathion 5 Emulsive XB	55.00	60.56	P
Do	55.00	60.31	P
Do	55.00	57.32	P

ANALYSES OF PRODUCTS CONTAINING MALATHION (Cont'd.)

Registrant Product	Malathion		Remarks
	Guarantee %	Found %	
WM. COOPER & NEPHEWS, INC. Kilathon 50% Malathion EC	50.00	48.70	P
E-Z-FLO CHEMICAL COMPANY E-Z Flo Malathion 5 E	56.50	55.80	P
Do	56.50	59.75	P
W. R. GRACE & COMPANY NACO Malathion 5 EC	57.00	56.20	P
Do	57.00	58.40	P
Do	57.00	58.60	P
NACO Malathion 5 E	56.40	56.50	P
Do	56.40	57.09	P
INTERNATIONAL MINERALS & CHEMICAL CORP. Rainbow Malathion 5 E	56.00	62.18	P
NIAGARA CHEMICAL DIVISION Niagara Malathion 4 Dust	4.00	<u>3.24</u>	<u>D</u>
Niagara Malathion 25 W	25.00	<u>22.30</u>	<u>D</u>
Niagara Malathion 5 Miscible	56.00	<u>60.95</u>	<u>P</u>
CHAS. PFIZER & COMPANY Pfizer Malathion EC	57.00	57.30	X
Do	57.00	57.40	X
RIGO MANUFACTURING COMPANY Kill-Ko Malathion 50% E	50.00	49.10	P
Do	50.00	50.90	P
STAUFFER CHEMICAL COMPANY Stauffer Malathion 5 E	56.00	57.30	P
Do	56.00	58.80	P
TOBACCO STATES CHEMICAL COMPANY Tobacco States 50% Malathion	50.00	49.00	P
Do	50.00	50.90	P
Do	50.00	48.90	P
Tobacco States 5 lb. Malathion EC	57.00	65.37	P
UNITED COOPERATIVES, INC. Unico 5% Malathion Dust	5.00	<u>3.90</u>	<u>D</u>
Unico Malathion WP	25.00	<u>20.60</u>	<u>D</u>
Unico Malathion 51 Spray	51.30	51.70	P
Do	51.30	51.70	P
Unico Malathion Grain Spray	57.00	56.00	P
Unico Malathion 5 EC	57.00	57.60	P
Do	57.00	60.23	P
WOOLFOLK CHEMICAL WORKS LTD. Security Malathion 5 E	56.10	55.70	P

ANALYSES OF PRODUCTS CONTAINING METHOXYCHLOR

Registrant Product	Methoxychlor		Remarks
	Guarantee %	Found %	
AG. SUPPLY COMPANY			
"Ag" Methoxychlor 2 EM	24.00	24.50	P
Do	24.00	<u>22.00</u>	<u>D</u>
ALLIED CHEMICAL COMPANY			
Arcadian Methoxychlor EM 2	25.20	24.80	P
Do	25.20	<u>23.60</u>	<u>D</u>
E. I. DU PONT DE NEMOURS & COMPANY			
DuPont Marlata 2 MR	24.00	23.60	P
DuPont Dairy Cattle Insecticide	50.00	50.00	P
Do	50.00	50.40	P
DuPont Marlata 50	50.00	<u>48.09</u>	<u>D</u>
Do	50.00	49.60	P
Do	50.00	49.70	P
FARMLAND INDUSTRIES			
COOP Methoxychlor 50 Wetttable	50.00	51.00	P
GEIGY CHEMICAL COMPANY			
Geigy Methoxychlor 50	50.00	50.70	X
W. R. GRACE & COMPANY			
NACO Methoxychlor 2 EC	25.00	24.60	P
Do	25.00	24.70	P
MOORMAN MANUFACTURING COMPANY			
MoorMans Insecticide Dust	2.00	1.93	P
NIAGARA CHEMICAL DIVISION			
Niagara Methoxcide Dust	7.50	7.00	P
STAUFFER CHEMICAL COMPANY			
Stauffer Methoxychlor 2 EH	24.00	23.30	P
Do	24.00	23.30	P
Do	24.00	23.60	P
Stauffer Methoxychlor 50 WP	50.00	50.70	P
TOBACCO STATES CHEMICAL COMPANY			
Tobacco States Methoxy Bean Dust	7.50	<u>5.71</u>	<u>D</u>
Do	7.50	7.23	P
Tobacco States 24% Methoxychlor EC	24.00	<u>22.40</u>	<u>D</u>
UNITED COOPERATIVES, INC.			
Unico Methoxychlor EC	23.80	24.10	P
Do	23.80	23.70	P
Do	23.80	23.50	P
Unico 50 Methoxychlor WP	50.00	50.40	P
Do	50.00	49.30	P
Do	50.00	50.40	P

ANALYSES OF PRODUCTS CONTAINING MALEIC HYDRAZIDE

Registrant Product	MH-30		Remarks
	Guarantee %	Found %	
THE ANSUL COMPANY			
Sucker-Stuff	30.00	31.80	P
Do	30.00	32.00	P
Do	30.00	32.90	P
Do	30.00	32.50	P
Do	30.00	33.20	P
Do	30.00	32.70	P
Do	30.00	32.40	P
UNIROYAL CHEMICAL DIVISION			
Uniroyal MH-30	30.00	31.30	P
Do	30.00	31.30	P
Do	30.00	31.20	P
Do	30.00	31.20	P
Do	30.00	31.00	P
Do	30.00	31.40	P
Do	30.00	31.00	P
Do	30.00	31.10	P
Do	30.00	31.40	P
Do	30.00	30.60	P
Do	30.00	30.50	P
Do	30.00	30.80	P
Do	30.00	30.70	P
Do	30.00	30.60	P
Do	30.00	30.60	P
Do	30.00	30.70	P
Do	30.00	30.50	P
Do	30.00	31.22	P
Do	30.00	31.06	P
Do	30.00	30.50	P
Do	30.00	30.40	P
Do	30.00	30.60	P

ANALYSES OF PRODUCTS CONTAINING SIMAZINE

Registrant Product	Simazine		Remarks
	Guarantee %	Found %	
GEIGY CHEMICAL COMPANY			
Geigy Simazine 80 W	80.00	84.90	P
Do	80.00	82.84	P
Do	80.00	82.12	P

ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE

Registrant Product	Sodium Hypochlorite		Remarks
	Guarantee %	Found %	
BABSON BROTHERS COMPANY Surge Zinicin Chlorinated Sanitizer	10.50	<u>6.00</u>	<u>D</u>
THE CALVERT CHEMICAL COMPANY Calvert Sun Fresh Bleach	5.25	6.11	P
Do	5.25	<u>4.65</u>	<u>D</u>
Do	5.25	<u>4.00</u>	<u>D</u>
THE CLOROX COMPANY Clorox Bleach	5.25	5.32	P
COLONIAL STORES, INC. 3 D Bleach	5.25	<u>3.15</u>	<u>D</u>
CUMBERLAND MANUFACTURING COMPANY Bri-Tex Bleach	5.25	<u>3.55</u>	<u>D</u>
Do	5.25	<u>3.74</u>	<u>D</u>
Do	5.25	<u>3.34</u>	<u>D</u>
THE DELAVAL SEPARATOR COMPANY DeLaval Chlorine Sanitizer	6.00	<u>5.34</u>	<u>D</u>
Do	6.00	<u>5.83</u>	<u>P</u>
THE DIVERSEY CHEMICAL COMPANY Diversey Dibac	9.35	<u>3.60</u>	<u>D</u>
Do	9.35	<u>3.79</u>	<u>D</u>
THE GREAT ATLANTIC & PACIFIC TEA COMPANY Bright Sail Laundry Bleach	5.25	4.99	P
Do	5.25	5.33	P
HAT-RA CHEMICAL COMPANY Sno-Glo Bleach	10.00	<u>5.40</u>	<u>D</u>
Do	15.00	<u>8.02</u>	<u>D</u>
HOUCHEMS STORES Our Special Bleach	5.25	5.07	P
Do	5.25	5.99	P
Do	5.25	6.75	P
INDEPENDENT GROCERS' ALLIANCE DISTRIBUTING CO. IGA Hi-Power Bleach	5.25	5.99	P
JONES CHEMICALS, INC. Sunny Sol "16" Bottled Sunshine	16.00	<u>4.03</u>	<u>DX</u>
CARL KASTER COMPANY Hy-Clor Disinfectant & Germicide	10.00	9.65	P
Do	10.00	<u>7.42</u>	<u>D</u>

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

Registrant Product	Sodium Hypochlorite		Remarks
	Guarantee %	Found %	
KLENZADE PRODUCTS			
Klenzade Bactericide X-4	6.40	6.39	P
Do	6.40	<u>5.07</u>	<u>D</u>
Klenzade XY-12 Disinfectant & Germicide	8.40	8.64	P
Do	8.40	10.60	P
Do	8.40	9.06	P
Do	10.20	<u>3.96</u>	<u>D</u>
THE KROGER COMPANY			
Kandu Bleach	5.25	5.07	P
Do	5.25	5.13	P
Do	5.25	5.16	P
Do	5.25	5.26	P
LIBERTY CASH GROCERS, INC.			
Miss Dixie Laundry Bleach	5.25	4.97	X
MEYER-BLANKE COMPANY			
"EM-BEE" CL-8 Sodium Hypochlorite Solution	10.20	<u>6.57</u>	<u>D</u>
NOVEL WASH COMPANY, INC.			
Novel Wash Bleach	5.25	<u>4.38</u>	<u>D</u>
PENNSALT CHEMICALS CORPORATION			
B·K Chlorine Bactericide	5.25	<u>4.64</u>	<u>D</u>
Do	5.25	<u>4.65</u>	<u>D</u>
Do	5.25	<u>4.66</u>	<u>D</u>
PILOT STORES, INC.			
Little Skipper Bleach & Cleaner	5.25	6.08	P
PUREX CORPORATION, LTD.			
Fleecy White Liquid Bleach	5.25	4.91	P
Do	5.25	<u>4.63</u>	<u>D</u>
Purex Super Bleach	6.00	<u>6.24</u>	<u>P</u>
Do	6.00	5.58	P
Do	6.00	6.19	P
C. B. RAGLAND			
Lucky Lady Bleach	5.25	5.66	P
ROMAN CLEANSER COMPANY			
Roman Cleanser Bleach	5.25	5.03	P
SALES PRODUCERS ASSOCIATION, INC.			
Jack Sprat Bleach	5.25	<u>4.11</u>	<u>DX</u>
SAPO ELIXER CHEMICAL COMPANY			
Wash-White Household Bleach	5.25	<u>3.13</u>	<u>D</u>

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

Registrant Product	Sodium Hypochlorite		Remarks
	Guarantee %	Found %	
SEP-KO CHEMICALS			
MonoKlor Sanitizing Solution	6.40	<u>4.76</u>	D
THE SINCLAIR MANUFACTURING COMPANY			
White Monday Bleach	5.25	5.70	P
Do	5.25	5.67	P
Do	5.25	5.40	P
Do	5.25	5.45	P
Do	5.25	5.07	P
Do	5.25	5.33	P
STA-RITE INDUSTRIES			
Per Chlor Germicide & Disinfectant	5.00	<u>3.60</u>	DX
SUPER VALU STORES, INC.			
Super Valu Household Bleach	5.25	5.50	P
UNITED STATES CHEMICAL CORPORATION			
San-I-Queen	6.50	<u>4.57</u>	DX
San-I-King	8.50	<u>4.96</u>	DX
Do	8.50	<u>5.32</u>	DX
UNIVERSAL MILKING MACHINE DIVISION			
Chlor-O-San	6.40	<u>3.60</u>	D
Do	6.40	<u>7.20</u>	P

ANALYSES OF PRODUCTS CONTAINING TOXAPHENE

Registrant Product	Toxaphene		Remarks
	Guarantee %	Found %	
CHEVRON CHEMICAL COMPANY			
Ortho Toxaphene 6 Emulsive XB	58.00	63.07	P
E-Z-FLO CHEMICAL COMPANY			
E-Z-Flo Toxaphene EC	59.00	61.10	P
Do	59.00	59.64	P
NIAGARA CHEMICAL DIVISION			
Niagara Toxakil Miscible	59.00	63.80	P
STAUFFER CHEMICAL COMPANY			
Stauffer Toxaphene 6 E	58.00	58.28	P
TOBACCO STATES CHEMICAL COMPANY			
Tobacco States Toxaphene Emulsive	60.20	58.85	P

ANALYSES OF PRODUCTS CONTAINING TOXAPHENE (Cont'd.)

Registrant Product	Toxaphene		Remarks
	Guarantee %	Found %	
UNITED COOPERATIVES, INC.			
Unico Toxaphene Livestock Spray Conc.	59.00	59.82	P
Do	59.00	58.10	P
Do	59.00	59.07	P
Do	59.00	59.56	P
Do	59.00	57.79	P
Do	59.00	59.82	P
Do	59.00	58.07	P

ANALYSES OF PRODUCTS CONTAINING WARFARIN

Registrant Product	Warfarin		Remarks
	Guarantee %	Found %	
ALLIED MILLS, INC.			
Wayne Rat & Mouse Killer	0.025	0.025	P
BACON PRODUCTS COMPANY, INC.			
Eagles-7	0.025	<u>0.017</u>	<u>DX</u>
Do	0.025	<u>0.021</u>	<u>P</u>
BLACK LEAF PRODUCTS COMPANY			
Warf (Kills Rats & Mice)	0.025	0.021	P
Do	0.025	0.021	P
CHEVRON CHEMICAL COMPANY			
Ortho Rat & Mice Bait	0.025	0.026	P
WM. COOPER & NEPHEWS, INC.			
Cooper Rat & Mouse Killer	0.025	0.024	P
THE D-CON COMPANY, INC.			
D-Con Pellets	0.025	0.022	P
Do	0.025	0.025	P
Do	0.025	0.024	P
D-Con Concentrate	0.300	0.253	P
D-Con Mouse-Prufe	0.054	<u>0.039</u>	<u>D</u>
Do	0.054	<u>0.036</u>	<u>D</u>
FARMLAND INDUSTRIES			
Coop RōCon Dry Meal Warfarin Bait	0.025	0.021	X
FRASIER SUPPLY COMPANY, INC.			
Rat & Mouse Killer	0.025	0.041	P
GUARANTEE PEST CONTROL COMPANY			
Guarantee Warfarin Bait	0.025	0.023	P
Do	0.025	0.025	P

ANALYSES OF PRODUCTS CONTAINING WARFARIN (Cont'd.)

Registrant Product	Warfarin		Remarks
	Guarantee %	Found %	
S. C. JOHNSON & SON, INC.			
Raid Mouse Killer	0.025	0.033	P
Do	0.025	0.029	P
Do	0.025	0.029	P
LAMB PRODUCTS COMPANY			
Lam-Kill Rat & Mouse Killer	0.025	0.028	P
DR. LEGEAR, INC.			
LeGear Warfarin Mouse Killer	0.050	0.045	P
LeGear Prolin Rat Bait	0.025	0.026	P
LeGear Prolin Mouse Bait	0.025	0.022	P
PEARSON & COMPANY			
Red-I-Cat	0.500	0.490	X
PERK PRODUCTS COMPANY			
Perkerson's Blam (Rat & Mouse Bait)	0.025	<u>0.019</u>	<u>DX</u>
DR. ROBERTS LABORATORIES			
Dr. Roberts Prolin Rat Bait	0.025	0.025	P
UNITED COOPERATIVES, INC.			
Unico Prolin Rodenticide	0.025	0.026	P

ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES

Registrant Product	Guarantee %	Found %	Remarks
ARMOUR AGRICULTURAL CHEMICAL COMPANY			
Armagard Red X Tobacco Spray			
Dieldrin	2.15	2.52	P
DDT	11.60	11.10	P
DDD	23.25	22.70	P
Do			
Do	2.15	2.27	P
Do	11.60	12.40	P
Do	23.25	23.36	P
CHEVRON CHEMICAL COMPANY			
Ortho Tobacco Spray D			
Dieldrin	2.30	2.40	P
DDD	24.50	26.10	P
E-Z-FLO CHEMICAL COMPANY			
E-Z Flo Tobacco Worm Spray			
Dieldrin	2.19	2.06	P
DDD	23.36	23.40	P
UNITED COOPERATIVES, INC.			
Unico Killa-Dilla Tobacco Spray			
Dieldrin	2.20	2.36	P
DDT	11.60	13.90	P
DDD	23.30	22.30	P
Do			
Do	2.20	2.19	P
Do	11.60	11.70	P
Do	23.30	23.80	P
Unico T-D Tobacco Spray			
Dieldrin	2.20	1.96	P
DDD	23.20	23.90	P
Do			
Do	2.20	2.01	P
Do	23.20	24.70	P
Do			
Do	2.20	2.03	P
Do	23.20	24.40	P
Do			
Do	2.20	2.52	P
Do	23.20	23.90	P
Unico Sevin Zineb Dust			
Carbaryl	3.00	<u>2.20</u>	<u>D</u>
Zineb	5.20	*	

* Product not analyzed for this ingredient.

Results of Analyses of Insecticides in Fertilizers. An Asterisk Indicates a Deficiency.
An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND	
AGRICO CHEMICAL CO., MEMPHIS, TENN.					
20775	4-16- 4	ALDRIN	.30	0.15	*
21603	5-10-15	ALDRIN	.15	0.17	
01148	4-16- 4	ALDRIN	.30	0.22	
07108	4-16- 4	ALDRIN	.30	0.30	
ARMOUR AGRICULTURAL CHEMICAL CO., ATLANTA, GA.					
02070	4-16- 4	ALDRIN	.18	0.18	
20567	4-16- 4	ALDRIN	.18	0.07	*
01146	5-10- 5	ALDRIN	.18	0.26	
01153	5-10- 5	ALDRIN	.18	0.20	
01167	5-10- 5	ALDRIN	.18	0.06	*
01512	5-10- 5	ALDRIN	.18	0.18	
02532	5-10- 5	ALDRIN	.18	0.14	*
02536	5-10- 5	ALDRIN	.18	0.16	*
05105	5-10- 5	ALDRIN	.18	0.07	*
07112	5-10- 5	ALDRIN	.18	0.09	
22029	5-10- 5	ALDRIN	.18	0.06	*
20565	5-10-15	ALDRIN	.15	0.14	
20568	5-10-15	ALDRIN	.15	0.06	*
20680	5-10-15	ALDRIN	.15	0.14	
20862	5-10-15	ALDRIN	.15	0.13	
22030	5-10-15	ALDRIN	.15	0.02	*
20566	6-12-18	ALDRIN	.15	0.05	*
20569	6-12-18	ALDRIN	.15	0.08	*
20570	10-10-20	ALDRIN	.15	0.10	*
ARMOUR AGRICULTURAL CHEMICAL CO., CINCINNATI, OHIO					
20823	5-10- 5	ALDRIN	.18	0.08	*
20773	5-10-15	ALDRIN	.15	0.16	
05104	6-12-18	ALDRIN	.15	0.34	M
BLUEGRASS PLANT FOODS, INC., CYNTHIANA, KY.					
21403	4-19-19	ALDRIN	.12	0.18	
21402	8-10-15	ALDRIN	.15	0.15	
BLUEGRASS PLANT FOODS, INC., DANVILLE, KY.					
02546	4-16- 4	ALDRIN	.31	0.19	
07102	4-16- 4	ALDRIN	.31	0.26	
20564	5-10-15	ALDRIN	.15	0.14	
21196	5-10-15	ALDRIN	.15	0.15	
21602	7- 5-17	ALDRIN	.15	0.07	*
BURLEY BELT FERTILIZER CO., LEXINGTON, KY.					
05109	4-16- 4	ALDRIN	.15	0.15	
06020	4-16- 4	ALDRIN	.31	0.32	
20817	4-16- 4	ALDRIN	.31	0.26	
21414	5-10-15	ALDRIN	.15	0.06	*
21415	6- 6-18	ALDRIN	.15	0.09	*
20812	8-10-15	ALDRIN	.15	0.11	*

Results of Analyses of Insecticides in Fertilizers. An Asterisk Indicates a Deficiency
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SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
COMMONWEALTH FERTILIZER CO., RUSSELLVILLE, KY.				
02538	4-16- 4	ALDRIN	.31	0.17
07111	4-16- 4	ALDRIN	.31	0.18
20416	4-16- 4	ALDRIN	.31	0.29
FARMERS FERTILIZER COMPANY, SMITHS GROVE, KY.				
21411	4-16- 4	ALDRIN	.31	0.23
21819	5-10-15	ALDRIN	.15	0.10
21818	10-10-10	ALDRIN	.50	0.27
FEDERAL CHEMICAL COMPANY, LOUISVILLE, KY.				
20268	4-16- 4	ALDRIN	.18	0.09
21407	5-10-15	ALDRIN	.15	0.02
22247	5-10-15	ALDRIN	.15	0.09
02531	4-16- 4	ALDRIN	.18	0.07
05091	4-16- 4	ALDRIN	.18	0.24
05097	4-16- 4	ALDRIN	.18	0.22
07105	4-16- 4	ALDRIN	.18	0.27
07106	4-16- 4	ALDRIN	.31	0.17
07109	4-16- 4	ALDRIN	.18	0.34
21195	4-16- 4	ALDRIN	.18	0.19
20269	5-10-15	ALDRIN	.15	0.13
W. R. GRACE & CO., AGRI PROD DIV., NASHVILLE, TENN.				
02547	4-16- 4	ALDRIN	.31	0.16
21026	5-10-15	ALDRIN	.15	0.17
W. R. GRACE & CO., AGRI PROD DIV., NEW ALBANY, IND.				
01154	4-16- 4	ALDRIN	.31	0.15
02079	4-16- 4	ALDRIN	.31	0.07
07110	4-16- 4	ALDRIN	.31	0.25
22246	5-10-15	ALDRIN	.15	0.17
21817	6-12-18	ALDRIN	.15	0.17
GRO-GREEN CHEMICAL CO., SHELBYVILLE, KY.				
22589	4-7- 8	ALDRIN	.06	0.04
05093	4-16- 4	ALDRIN	.31	0.05
22590	5- 8- 6	ALDRIN	.03	0.02
21409	8-11-15	ALDRIN	.12	0.08
22413	8-14-14	ALDRIN	.10	0.05
22027	9-13-12	ALDRIN	.12	0.05
22028	9-13-12	ALDRIN	.12	0.06
22031	9-13-12	ALDRIN	.12	0.02
20363	10-10-10	ALDRIN	.10	0.06
22032	11-11-11	ALDRIN	.23	0.14
21816	7-13-16	ALDRIN	.12	0.09

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SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND	
INTERNATIONAL MINERALS & CHEMICAL CORP., CINCINNATI, OHIO					
07103	4-12- 8	ALDRIN	.20	0.20	
01150	4-16- 4	ALDRIN	.31	0.13	*
01152	4-16- 4	ALDRIN	.31	0.16	*
01160	4-16- 4	ALDRIN	.31	0.25	
20679	5-10-15	ALDRIN	.15	0.15	
20866	5-10-15	ALDRIN	.15	0.09	*
20870	5-10-15	ALDRIN	.15	0.11	*
21199	5-10-15	ALDRIN	.15	0.11	*
21401	5-10-15	ALDRIN	.15	0.07	*
22651	5-10-15	ALDRIN	.15	0.16	
22412	6- 6-18	ALDRIN	.15	0.09	*
KENTUCKY FERTILIZER WORKS, WINCHESTER, KY.					
02540	4-16- 4	ALDRIN	.31	0.23	*
20857	4-16- 4	ALDRIN	.31	0.26	
21413	8-10-15	ALDRIN	.15	0.04	*
MILL CHEMICAL CO., AGRICHEM DIV., RICHMOND, VA.					
02539	4-16- 4	ALDRIN	.31	0.11	*
20267	4-16- 4	ALDRIN	.31	0.10	*
NORTH AMERICAN FERTILIZER CO., LOUISVILLE, KY.					
01164	4-16- 4	ALDRIN	.31	0.28	
02537	4-16- 4	ALDRIN	.31	0.30	
05089	4-16- 4	ALDRIN	.31	0.16	*
22034	5-10-15	ALDRIN	.15	0.09	*
22033	8-10-15	ALDRIN	.15	0.09	*
SOUTH VALLEY FERTILIZER, INC., MAYSVILLE, KY.					
21024	5-10-20	ALDRIN	.15	0.12	*
20571	10-10-20	ALDRIN	.15	0.19	
20768	10-10-20	ALDRIN	.15	0.02	*
21023	10-10-20	ALDRIN	.15	0.16	
21598	10-10-20	ALDRIN	.15	0.05	*
21599	10-10-20	ALDRIN	.15	0.06	*
21600	10-10-20	ALDRIN	.15	0.04	*
21601	10-10-20	ALDRIN	.15	0.05	*
WESTER COMPANY, NORFOLK, VA.					
02544	4-16- 4	ALDRIN	.31	0.18	
05102	4-16- 4	ALDRIN	.31	0.33	
06019	4-16- 4	ALDRIN	.31	0.24	
06021	4-16- 4	ALDRIN	.31	0.21	
07107	4-16- 4	ALDRIN	.31	0.23	
20265	4-16- 4	ALDRIN	.31	0.24	*
20818	4-16- 4	ALDRIN	.31	0.27	
21028	6- 6-18	ALDRIN	.15	0.07	*
22414	6-12-18	ALDRIN	.15	0.09	*

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SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
SOUTHERN STATES COOPERATIVE, INC., LOUISVILLE, KY.				
01138	4-16- 4	ALDRIN	.31	0.35
01162	4-16- 4	ALDRIN	.31	0.24
01165	4-16- 4	ALDRIN	.31	0.24
02075	4-16- 4	ALDRIN	.31	0.29
02530	4-16- 4	ALDRIN	.31	0.33
02542	4-16- 4	ALDRIN	.31	0.34
05090	4-16- 4	ALDRIN	.31	0.37
05103	4-16- 4	ALDRIN	.31	0.25
07100	4-16- 4	ALDRIN	.31	0.33
07101	4-16- 4	ALDRIN	.31	0.29
SOUTHERN STATES COOPERATIVE, INC., RUSSELLVILLE, KY.				
02071	4-16- 4	ALDRIN	.31	0.32
20270	5-10-15	ALDRIN	.15	0.15
21197	5-10-15	ALDRIN	.15	0.15
21410	5-10-15	ALDRIN	.15	0.12
22280	5-10-15	ALDRIN	.15	0.16
22244	5-15- 5	ALDRIN	.50	0.31
22245	5-15- 5	ALDRIN	.50	0.45
SOUTHERN STATES COOPERATIVE, INC., WINCHESTER, KY.				
20266	4-16- 4	ALDRIN	.31	0.28
20774	5-10-15	ALDRIN	.15	0.11
22652	6- 6-18	ALDRIN	.15	0.08
21198	8-10-15	ALDRIN	.15	0.08

