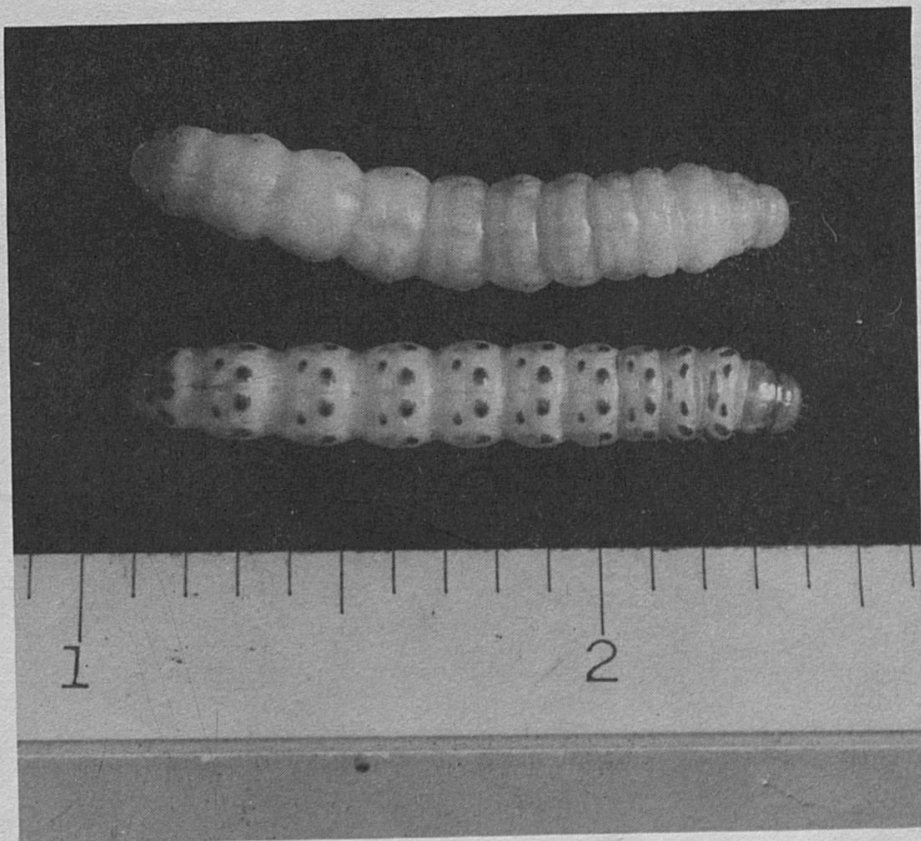


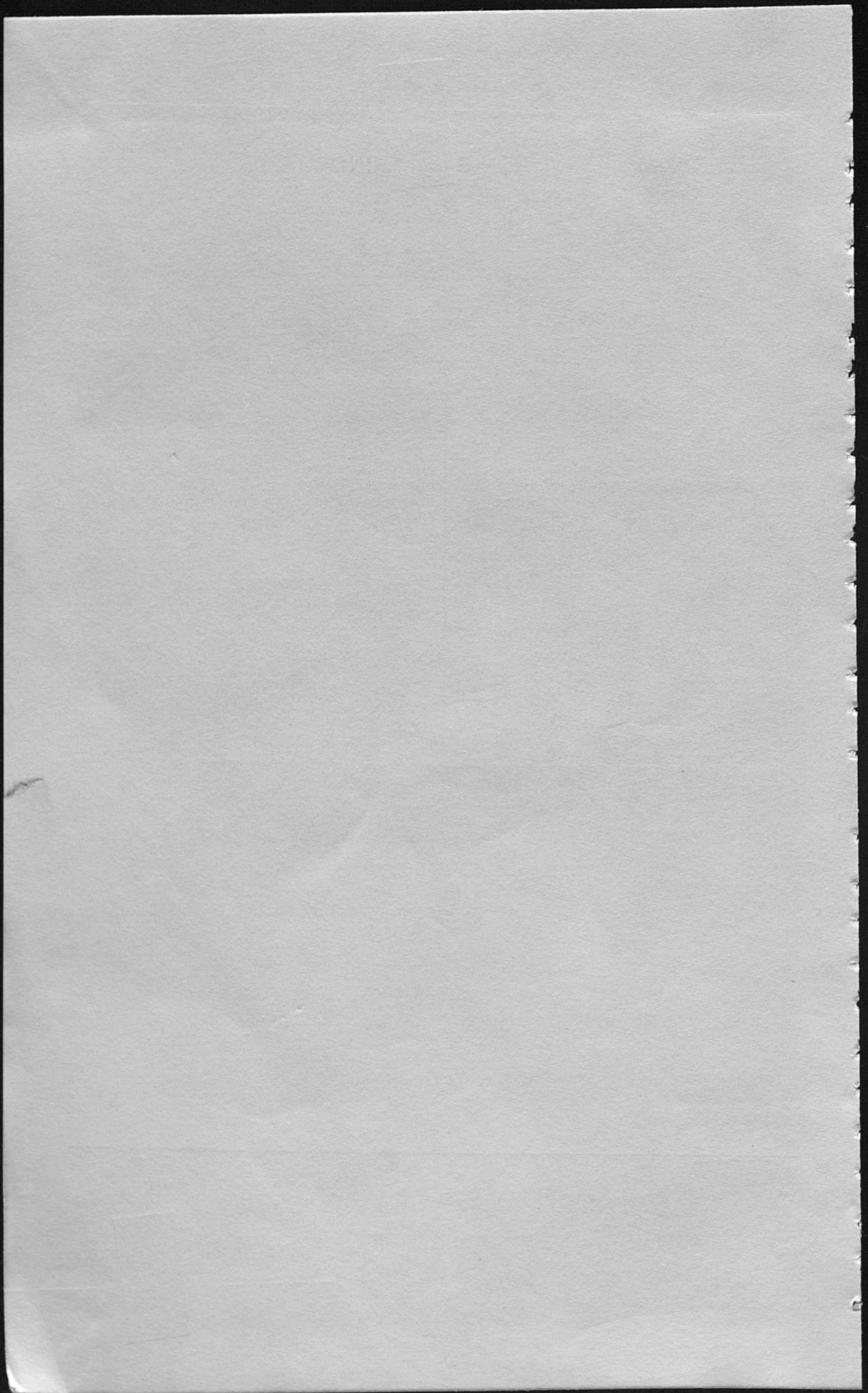
Regulatory Bulletin 194

KENTUCKY
ECONOMIC POISONS
REPORT, 1966



Southwestern Corn Borer Larvae

University of Kentucky
Agricultural Experiment Station
Lexington



DIVISION OF REGULATORY SERVICES

KENTUCKY AGRICULTURAL EXPERIMENT STATION

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

* Retired July, 1966

** Retired October, 1966

COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Acme Quality Paints, Inc.
8250 St. Aubins Avenue
Detroit, Michigan 48211

Agricultural Supply Company
Box 34 - Old Clarksville Road
Hopkinsville, Kentucky 42240

Agrico Chemical Company
5050 Poplar Avenue
Memphis, Tennessee 38101

Armour Agricultural Chemical Company
30 Pryor Street, S.W.
Atlanta, Georgia 30303

Black Leaf Products
6147 North Broadway
Chicago, Illinois 60626

Bluegrass Plant Foods, Inc.
North Main Street
Cynthiana, Kentucky 41031

Burley Belt Fertilizer Company
Route #4
Lexington, Kentucky 40505

Cabell Chemical Company
101 - 22nd. Street
Huntington, West Virginia 25703

Calvert Chemical Company
Cincinnati,
Ohio

Central Chemical Corporation
49 N. Jonathan Street
Hagerstown, Maryland 21740

Chevron Chemical Company
940 Hensley Street
Richmond, California 94801

The Clorox Company
P. O. Box 599
Cincinnati, Ohio 45201

Commonwealth Fertilizer Company
P. O. Box 438
Russellville, Kentucky

Consumers Cooperative Association
3315 North Oak Trafficway
Kansas City, Missouri 64116

Cooperative Fertilizer Service
Southern States Building
Richmond, Virginia 23213

Cumberland Manufacturing Company
501 - 25th. Avenue, North
Nashville, Tennessee 37202

Darling & Company
4201 S. Ashland Avenue
Chicago, Illinois 60609

Dragon Chemical Company
7033 Walrond
Roanoke, Virginia 24019

E-Z Flo Chemical Company
Div. Growers Service Corporation
P. O. Box 808
Lansing, Michigan 48903

Farmers Fertilizer Company
Smiths Grove,
Kentucky 42171

Federal Chemical Company
646 Starks Building
Louisville, Kentucky 40202

Glasgow Fertilizer Company
Industrial Avenue
Glasgow, Kentucky 42141

W. R. Grace & Company
Davison Chemical Division
101 N. Charles Street
Baltimore, Maryland 21203

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

Gro-Green Chemical Company
P. O. Box 132
Shelbyville, Kentucky 40065

Gulf Oil Corporation
Agri. Chem. Div.
Dwight Building
Kansas City, Missouri 64105

Hood Chemical Company
125 Broadus Avenue
Greenville, South Carolina 29601

(Continued)

Companies Represented by Samples Reported in this Bulletin (Continued)

ouchen's Market Bowling Green, Kentucky 42101	Pilot Stores, Inc. Cincinnati, Ohio
am Houston Company P. O. Box 662 Talladega, Alabama 35160	Purex Corporation, Ltd. 5101 Clark Avenue Lakewood, California 90712
Independent Grocer Alliance Dist. Co. Chicago, Illinois	Ralston Purina Company 835 S. Eighth Street St. Louis, Missouri 63199
International Mineral & Chemical Corp. P. O. Box 15067 - Lockland Station Cincinnati, Ohio 45215	Rigo Manufacturing Company 638 Benton Avenue Nashville, Tennessee 37202
oro, Inc. Box 7311 Roanoke, Virginia 24019	Roman Cleanser Company 2700 E. McNichols Road Detroit, Michigan 48212
Kentucky Fertilizer Works, Inc. P. O. Box 505 Winchester, Kentucky 40391	F. S. Royster Guano Company Box 1940 Norfolk, Virginia 23501
he Kroger Company 240 State Avenue Cincinnati, Ohio 45204	Sapo Elixir Chemical Company 9870 Big Bend Blvd. Kirkwood, Missouri 63122
Louisville Chemical Company 101 E. Jefferson Street Louisville, Kentucky 40202	Seedkem, Inc. 526 N.W. Fourth Street Evansville, Indiana 47710
Miller Chemical & Fertilizer Co. 1006 Cold Spring Lane Baltimore, Maryland 21215	The Sinclair Manufacturing Company 6120 N. Detroit Avenue Toledo, Ohio 43612
obil Chemical Company 101 E. Main Street Richmond, Virginia 23208	Southern States Cooperative, Inc. 7th and Main Streets Richmond, Virginia 23123
Niagara Chemical Division MC Corporation P. O. Box D Wilmington, Illinois 61491	Stauffer Chemical Company 380 Madison Avenue New York, New York 10017
North American Fertilizer Company Weston Street At Bergman Louisville, Kentucky 40217	Tobacco States Chemical Company P. O. Box 479 Lexington, Kentucky 40501
ovel Wash Company 1045 Garfield Avenue St. Louis, Missouri 63113	Union Carbide Corporation 270 Park Avenue New York, New York 10017
Ohio Valley Fertilizer Company P. O. Box 991 Paysville, Kentucky 41056	United Cooperatives, Inc. 111 Glamorgan Street Alliance, Ohio 44601
ennsalt of Washington 901 Taylor Way Tacoma, Washington 98421	United States Rubber Company Chemicals Div. Elm Street Naugatuck, Connecticut 06770

INTRODUCTION

During the period January 1 through December 31, 1966, 1,342 pesticide samples were analyzed. This figure includes 730 determinations for residues in feed and 116 special samples analyzed for residue.

LABELING REQUIREMENTS

Chemicals that require registration under the Kentucky Economic Poisons Law must bear a label stating directions for use, which, if compiled 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, the net weight or measure of the contents of any package or bottle, and the brand or trade mark under which the product is sold must appear on the label.

FIELD INSPECTION

In order to adequately enforce the provision of the act, field inspectors are authorized to collect samples of economic poisons and devices and to enter 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, 82 samples were found to be deficient in one or more of the active ingredients guaranteed. Twenty-two products were not registered when the sample was taken, and six samples of pesticide-fertilizer mixture were misbranded because of excessive pesticide found.

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 (Misbranded) denotes the product did not meet the label requirements in all respects.

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, TENNESSEE				
13081	4-16- 4	ALDRIN	0.3000	0.2200 *
13321	4-16- 4	ALDRIN	0.3000	0.2900
13899	4-16- 4	ALDRIN	0.3000	0.2700
13921	5-10-15	ALDRIN	0.1500	0.1700
14028	8- 8-18	ALDRIN	0.1425	0.1800
14029	4-16- 4	ALDRIN	0.3000	0.3100
14030	4-16- 4	ALDRIN	0.3000	0.2500
14210	4- 9- 3	ALDRIN	0.1000	0.1600 M
14575	5-10-15	ALDRIN	0.3000	0.0700 *
14603	5-10-15	ALDRIN	0.1500	0.1500
15063	10-10-10	ALDRIN	0.2500	0.2400
15977	5-10-15	ALDRIN	0.1500	0.1600
ARMOUR AGRICULTURAL CHEMICAL CO., CINCINNATI, OHIO				
13095	5-10-15	ALDRIN	0.1400	0.1400
13898	6-12-18	ALDRIN	0.1500	0.1600
14635	5-10-15	ALDRIN	0.1500	0.0800 *
14838	5-10-15	ALDRIN	0.1500	0.1100 *
15630	6- 6-18	ALDRIN	0.1500	0.1900
ARMOUR AGRICULTURAL CHEMICAL CO., JEFFERSONVILLE, INDIANA				
13940	5-10-15	ALDRIN	0.1500	0.1300
14859	5-10-15	ALDRIN	0.1500	0.1600
15200	6-12-18	ALDRIN	0.1500	0.1700
BLUEGRASS PLANT FOODS, INC., CYNTHIANA, KENTUCKY				
14278	4-16- 4	ALDRIN	0.3100	0.3200
14299	4-16- 4	ALDRIN	0.3100	0.3200
14393	4-16- 4	ALDRIN	0.3100	0.3000
14634	5-10-15	ALDRIN	0.1500	0.1900
15173	4- 4-12	ALDRIN	0.1100	0.1100
16108	10- 8-12	ALDRIN	0.1200	0.1100
16109	6- 6-18	ALDRIN	0.0500	0.1400 M
16114	5-10-15	ALDRIN	0.1500	0.0300 *
16116	5-10-15	ALDRIN	0.2000	0.0200 *
16117	5-10-15	ALDRIN	0.1500	0.0600 *
BLUEGRASS PLANT FOODS, INC., DANVILLE, KENTUCKY				
13855	4-16- 4	ALDRIN	0.3100	0.3600
14698	4-16- 4	ALDRIN	0.3100	0.2700
15572	5-10-15	ALDRIN	0.2000	0.1900
BURLEY BELT FERTILIZER COMPANY, LEXINGTON, KENTUCKY				
14063	4-16- 4	ALDRIN	0.3100	0.2700
14276	4-16- 4	ALDRIN	0.3100	0.2900
14379	5-10-15	ALDRIN	0.1500	0.1700
15183	5-10-15	ALDRIN	0.1500	0.1400
15545	8-10-18	ALDRIN	0.1500	0.1400

Results of Analyses of Insecticides in Fertilizers. An Asterisk Indicates a Deficiency.
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SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
BURLEY BELT FERTILIZER COMPANY, LEXINGTON, KENTUCKY (Cont'd.)				
13784	5-10-15	ALDRIN	0.1500	0.1600
14009	4-16- 4	ALDRIN	0.3100	0.3800
14010	5-10-15	ALDRIN	0.1500	0.1300
14011	3- 9- 6	ALDRIN	0.1500	0.1500
14013	5-10-15	ALDRIN	0.1500	0.1500
COMMONWEALTH FERTILIZER CO., RUSSELLVILLE, KENTUCKY				
13893	4-16- 4	ALDRIN	0.3100	0.2500
14204	4-16- 4	ALDRIN	0.3100	0.2300 *
16150	6- 9-14	ALDRIN	0.1700	0.1400
COOPERATIVE FERTILIZER SERVICE, LOUISVILLE, KENTUCKY				
13038	4-16- 4	ALDRIN	0.3100	0.3300
13061	4-16- 4	ALDRIN	0.3100	0.3100
13137	4-16- 4	ALDRIN	0.3100	0.3000
13288	4-16- 4	ALDRIN	0.3100	0.3100
13289	5-10-20	ALDRIN	0.1425	0.1600
13379	4-16- 4	ALDRIN	0.3100	0.3200
13482	4-16- 4	ALDRIN	0.3100	0.3100
13692	4-16- 4	ALDRIN	0.3100	0.3200
13838	10-10-10	ALDRIN	0.5000	0.4400
14258	4-16- 4	ALDRIN	0.3100	0.3300
14269	4-16- 4	ALDRIN	0.3100	0.3200
14443	5-10-15	ALDRIN	0.1500	0.1400
14454	8-10-15	ALDRIN	0.1500	0.1400
14455	5-10-15	ALDRIN	0.1500	0.1600
14868	8-10-15	ALDRIN	0.1500	0.1700
COOPERATIVE FERTILIZER SERVICE, RUSSELLVILLE, KENTUCKY				
13251	4-16- 4	ALDRIN	0.3100	0.2900
13264	5-10-15	ALDRIN	0.1500	0.1500
13954	5-10-15	ALDRIN	0.1500	0.2200
14638	5-10-15	ALDRIN	0.1500	0.1300
COOPERATIVE FERTILIZER SERVICE, WINCHESTER, KENTUCKY				
15082	5-10-15	ALDRIN	0.1500	0.1300
15622	5-10-15	ALDRIN	0.1500	0.1300
16026	8-10-15	ALDRIN	0.1500	0.1200 *
CARLING & COMPANY, CAIRO, ILLINOIS				
15239	5-10-15	ALDRIN	0.5000	0.3700 *
15724	5-10-15	ALDRIN	0.2500	0.2900
15725	5-10-15	ALDRIN	0.5000	0.5000
FARMERS FERTILIZER CO., SMITHS GROVE, KENTUCKY				
14192	4-16- 4	ALDRIN	0.3100	0.3200
16160	9- 9-14	ALDRIN	0.1460	0.1200

Results of Analyses of Insecticides in Fertilizers. An Asterisk Indicates a Deficiency.
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SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
FEDERAL CHEMICAL CO., LOUISVILLE, KENTUCKY				
13030	5-10-15	ALDRIN	0.1500	0.0600 *
13206	5-10-15	ALDRIN	0.1500	0.1300
13281	4-16- 4	ALDRIN	0.1875	0.0900 *
13333	5-10-15	ALDRIN	0.1500	0.1100 *
13415	4-16- 4	ALDRIN	0.1875	0.1700
13424	9-10-15	ALDRIN	0.1500	0.0600 *
13425	5-10-15	ALDRIN	0.1500	0.0200 *
13698	4-16- 4	ALDRIN	0.1875	0.0800 *
13959	4-16- 4	ALDRIN	0.1875	0.1200 *
GLASGOW FERTILIZER COMPANY, GLASGOW, KENTUCKY				
13110	4-16- 4	ALDRIN	0.3100	0.3300
13649	4-16- 4	ALDRIN	0.3100	0.2500
14252	4-16- 4	ALDRIN	0.3100	0.3200
W. R. GRACE & CO., NASHVILLE, TENNESSEE				
13033	5-10-15	ALDRIN	0.1500	0.0300 *
14216	4-16- 4	ALDRIN	0.3100	0.2400 *
14919	5-10-15	ALDRIN	0.1500	0.1400
15317	5-10-15	ALDRIN	0.2500	0.5400 M
15406	5-10-15	ALDRIN	0.5000	0.5700
15731	6-12-12	ALDRIN	0.5000	0.4500
16053	5-10-15	ALDRIN	0.5000	0.5100
W. R. GRACE & CO., NEW ALBANY, INDIANA				
12941	4-16- 4	ALDRIN	0.3100	0.3200
13108	4-16- 4	ALDRIN	0.3100	0.2400 *
13143	4-16- 4	ALDRIN	0.3100	0.2300 *
13639	4-16- 4	ALDRIN	0.3100	0.2600
13703	5-10-15	ALDRIN	0.1500	0.1300
13871	6- 6-18	ALDRIN	0.1500	0.1600
13874	5-10-15	ALDRIN	0.1500	0.1100 *
14246	4-16- 4	ALDRIN	0.3100	0.2500
14294	5-10-15	ALDRIN	0.1500	0.1700
16014	5-10-15	ALDRIN	0.1500	0.0800 *
16189	5-10-15	ALDRIN	0.1500	0.1700
GRO-GREEN CHEMICAL CO., SHELBYVILLE, KENTUCKY				
13599	5-10-15	ALDRIN	0.1500	0.1800
13938	4-16- 4	ALDRIN	0.3100	0.2700
14264	10-10-10	ALDRIN	0.1500	0.0700 *
14265	10-10-10	ALDRIN	0.1500	0.1200 *
14266	8-10-15	ALDRIN	0.1500	0.1200 *
14478	5-10-15	ALDRIN	0.1500	0.2100
15243	5-10-15	ALDRIN	0.1500	0.0800 *
15244	8-12-15	ALDRIN	0.1500	0.1100 *

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SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
INTERNATIONAL MIN. & CHEM. CORP., CINCINNATI, OHIO				
13101	5-10-15	ALDRIN	0.1500	0.1700
13366	5-10-15	ALDRIN	0.1500	0.1500
13371	4-16- 4	ALDRIN	0.3100	0.3500
13896	5-10-15	ALDRIN	0.1500	0.1500
13915	4-16- 4	ALDRIN	0.3100	0.2600
15333	5-10-15	ALDRIN	0.1500	0.2400 M
16011	5-10-15	ALDRIN	0.1500	0.1300
INTERNATIONAL MIN. & CHEM. CORP., CLARKSVILLE, TENNESSEE				
13523	4-16- 4	ALDRIN	0.2000	0.1600
13751	5-10-15	ALDRIN	0.2000	0.0000 *
14228	4-16- 4	ALDRIN	0.2000	0.0500 *
KENTUCKY FERTILIZER WORKS, INC., WINCHESTER, KENTUCKY				
13434	4-16- 4	ALDRIN	0.3100	0.3900
16017	6- 6-17	ALDRIN	0.1500	0.0500 *
16018	4- 4-18	ALDRIN	0.1200	0.1400
16019	8-10-15	ALDRIN	0.1500	0.1800
16020	6- 6-17	ALDRIN	0.1500	0.1000 *
16023	4- 4-18	ALDRIN	0.1200	0.0900 *
MOBIL CHEMICAL CO., AGRI. CHEM. DIV., RICHMOND, VIRGINIA				
12987	4-16- 4	ALDRIN	0.3100	0.4600
14052	4-16- 4	ALDRIN	0.1500	0.3900 M
15691	6-12-18	ALDRIN	0.3000	0.2100 *
16075	5-10-15	ALDRIN	0.1500	0.1700
NORTH AMERICAN FERTILIZER CO., LOUISVILLE, KENTUCKY				
13602	5-10-15	ALDRIN	0.1500	0.1500
13603	4-16- 4	ALDRIN	0.3100	0.3600
15355	8-10-15	ALDRIN	0.1500	0.1700
OHIO VALLEY FERTILIZER, INC., MAYSVILLE, KENTUCKY				
13904	4-16- 4	ALDRIN	0.3000	0.2100 *
13930	4-16- 4	ALDRIN	0.3120	0.2500
15158	10-10-20	ALDRIN	0.2500	0.5600 M
15544	10-10-20	ALDRIN	0.1500	0.1200 *
F. S. ROYSTER GUANO CO., NORFOLK, VIRGINIA				
14239	5-10-15	ALDRIN	0.1500	0.0600 *
14240	4-16- 4	ALDRIN	0.3100	0.4000
14883	5-10-15	ALDRIN	0.1500	0.0900 *
ARMOUR AGRICULTURAL CHEMICAL CO., CINCINNATI, OHIO				
13600	5-10- 5	DIELDRIN	0.1800	0.0600 *
13942	5-10- 5	DIELDRIN	0.1875	0.2100
13581	5-10- 5	DIELDRIN	0.1800	0.2000
13795	5-10- 5	DIELDRIN	0.1875	0.2300
13920	5-10- 5	DIELDRIN	0.1875	0.2400
14043	5-10- 5	DIELDRIN	0.1875	0.1800

ANALYSES OF PRODUCTS CONTAINING ALDRIN

Registrant Product	Aldrin		Remarks
	Guarantee %	Found %	
CHEVRON CHEMICAL CORPORATION ORTHO ALDRIN GRAN.	25.00	25.04	P
GULF OIL CORPORATION SPENCER ALDRIN GRAN.	20.00	20.20	P
SPENCER ALDRIN 4-E-C	44.20	45.20	P
NIAGARA CHEM DIV FMC CORP. NIAGARIA ALDRIN GRAN.	20.00	20.62	P
NIAGARIA ALDRIN GRAN.	20.00	20.60	P
STAUFFER CHEMICAL COMPANY STAUFFER ALDRIN GRAN.	20.00	20.03	P
TOBACCO STATES CHEM CO TOBACCO STATES ALDRIN GRAN.	20.00	20.60	P
UNITED CO-OPERATIVES, INC. UNICO ALDRIN GRAN.	20.00	20.80	P
UNICO ALDRIN-4 E C	41.00	42.90	P

ANALYSES OF PRODUCTS CONTAINING DDT

Registrant Products	DDT		Remarks
	Guarantee %	Found %	
AG SUPPLY COMPANY DDT 10 DUST	10.00	9.84	P
CHEVRON CHEMICAL CORPORATION ORTHO DDT 2 EMULSIVE XB	23.00	21.70	P
E-Z FLO CHEMICAL COMPANY SUPER-KILL DDT DUST	10.00	97.50	P
E-Z FLO DDT DUST	10.00	10.80	P
PENNSALT OF WASHINGTON DDT W-50	50.00	52.17	P
RIGO MANUFACTURING COMPANY KILL-KO DDT CGNC	25.00	23.50	P
TOBACCO STATES CHEM CO TOBACCO STATES DDT	22.98	22.10	P
TOBACCO STATES DDT W.P.	50.00	49.40	P
UNITED CO-OPERATIVES, INC. UNICO DDT W.P.	50.00	50.57	P

ANALYSES OF PRODUCTS CONTAINING MALATHION

Registrant Product	Malathion		Remarks
	Guarantee %	Found %	
AG SUPPLY COMPANY			
MALATHION EMULSIVE	55.00	58.90	P
MALATHION EMULSIVE	55.00	59.41	P
ARMOUR AGRI CHEM COMPANY			
ARMAGARD MALATHION 5 EC	55.75	61.55	P
ARMAGARD MALATHION 5 EC	55.75	56.07	P
CHEVRON CHEMICAL CORPORATION			
ORTHO MALATHION 5 EMULSIVE XB	55.00	59.60	P
ORTHO MALATHION EMULSIVE XB	55.00	58.91	P
CONSUMERS COOP. ASSN. COOP MALATHION CONC	57.00	59.66	X
E-Z FLO CHEMICAL COMPANY			
E-Z-FLO ALFALFA WEEVIL CONTROL	55.00	60.10	P
EZ-FLO MALATHION 5E	56.50	56.30	P
GULF OIL CORPORATION			
MALATHION 5-E	57.00	63.26	P
RALSTON PURINA COMPANY			
PURINA MALATHION SPRAY	50.00	54.14	P
STAUFFER CHEMICAL COMPANY			
STAUFFER MALATHION 5-E	56.00	57.21	P
TOBACCO STATES CHEM CO			
TOBACCO STATES MALATHION EC	50.00	55.91	P
TOBACCO STATES MALATHION EC	50.00	55.39	P
TOBACCO STATES MALATHION	57.00	60.52	P
UNITED CO-OPERATIVES, INC.			
UNICO 51 SPRAY	51.30	52.80	P
UNICO MALATHION-5 EC	57.00	57.50	P
WOOLFOLK CHEMICAL WORKS, LTD.			
SECURITY MALATHION 5-E	56.10	61.68	P

ANALYSES OF PRODUCTS CONTAINING MH-30

Registrant Product	MH-30		Remarks
	Guarantee %	Found %	
U S RUBBER COMPANY			
M H-30	30.00	30.20	P
M H-30	30.00	30.20	P
M H-30	30.00	30.00	P
M H-30	30.00	30.10	P
M H-30	30.00	30.30	P
M H-30	30.00	30.30	P
M H-30	30.00	30.10	P

ANALYSES OF PRODUCTS CONTAINING MH-30 (Cont'd.)

Registrant Product	MH-30		Remarks
	Guarantee %	Found %	
U. S. Rubber Company (Cont'd.)			
M H-30	30.00	30.50	P
M H-30	30.00	30.20	P
M H-30	30.00	30.30	P
M H-30	30.00	30.30	P
M H-30	30.00	30.30	P
M H-30	30.00	30.40	P
M H-30	30.00	29.90	P
M H-30	30.00	30.10	P
M H-30	30.00	30.00	P
M H-30	30.00	30.10	P
M H-30	30.00	30.40	P

ANALYSES OF PRODUCTS CONTAINING SEVIN

Registrant Product	Sevin		Remarks
	Guarantee %	Found %	
ACME QUALITY PAINTS, INC.			
ACME SEVIN- 5 DUST	5.00	4.80	P
ACME SEVIN 50 W	50.00	49.25	P
AG SUPPLY COMPANY			
SEVIN 5 DUST	5.00	4.98	P
SEVIN 5 DUST	5.00	5.10	P
BLACK LEAF PRODUCTS			
SEVIN 50 W	50.00	48.80	P
CABELL CHEMICAL COMPANY			
CABELLS SEVIN DUST	2.00	1.94	X
CABELLS SEVIN DUST	2.00	2.00	X
CENTRAL CHEMICAL CORP.			
FARMRITE SEVIN 50-W	50.00	48.20	X
CHEVRON CHEMICAL CORPORATION			
ORTHO SEVIN BEAN DUST	1.75	1.00	D
ORTHO SEVIN 50 W	50.00	48.00	P
CONSUMERS COOP. ASSN.			
COOP. SEVIN DUST	5.00	3.73	DX
DRAGON CHEMICAL CO.			
DRAGON SEVIN DUST	1.75	1.60	P
DRAGON SEVIN DUST	1.75	1.68	P
E-Z FLO CHEMICAL COMPANY			
E-Z-FLO DUST NO. 2-S	2.00	1.80	P
E-Z-FLO TOBACCO BED DUST	2.50	2.10	P
E-Z-FLO DUST NO. 5-S	5.00	4.30	D
E-Z-FLO DUST NO. 5-S	5.00	4.76	P
E-Z-FLO SEVIN 50-W	50.00	50.95	P
SUPER-KILL SEVIN WP	50.00	46.59	D

ANALYSES OF PRODUCTS CONTAINING SEVIN (Cont'd.)

Registrant Product	Sevin		Remarks
	Guarantee %	Found %	
AM HOUSTON COMPANY HOUSTONS BEAN DUST	1.75	1.33	<u>D</u>
DRD, INC. NOK-OUT SEVIN DUST	1.75	1.57	P
NOK-OUT SEVIN DUST	1.75	1.74	X
LOUISVILLE CHEMICAL COMPANY CREAL-O SEVIN 5 DUST	5.00	5.20	X
L-C SEVIN DUST	5.00	5.49	P
MILLER CHEM + FERT CORP MILLER SEVIN 5 AQUA	53.68	57.18	P
NIAGARA CHEM DIV FMC CORP. NIAGRIA BEAN DUST	1.75	1.10	<u>D</u>
NIAGRIA BEAN DUST	1.75	1.20	<u>D</u>
NIAGRIA 50	50.00	49.10	P
KILL-KO VEGETABLE DUST	5.00	4.90	P
KILL-KO VEGETABLE DUST	5.00	5.19	P
KILL-KO VEGETABLE DUST	5.00	4.56	P
KILL-KO VEGETABLE DUST	5.00	4.74	P
KILL-KO SEVIN 80 W	80.00	82.50	P
SEEDKEM, INC. SEEDKEM SEVIN 5 DUST	5.00	4.39	<u>DX</u>
SOUTHERN STATES CCOP., INC. SOUTHERN STATES SEVIN DUST	3.00	2.70	P
SOUTHERN STATES SEVIN DUST	3.00	2.92	P
SOUTHERN STATES SEVIN DUST	3.00	3.10	P
STAUFFER CHEMICAL COMPANY STAUFFER SEVIN 4 FLOWABLE	41.80	37.40	<u>D</u>
STAUFFER SEVIN 4 FLOWABLE	41.80	42.40	P
STAUFFER SEVIN 4 FLOWABLE	41.80	42.40	P
TOBACCO STATES CHEM CO TOBACCO STATES BEAN DUST	1.75	1.72	P
TOBACCO STATES BEAN DUST	1.75	1.00	<u>D</u>
TOBACCO STATES BEAN DUST	1.75	1.47	<u>D</u>
TOBACCO STATES VEGETABLE DUST	5.00	4.50	P
TOBACCO STATES VEGETABLE DUST	5.00	3.46	<u>D</u>
TOBACCO STATES VEGETABLE DUST	5.00	4.79	P
SEVIN 50 W	50.00	51.60	P
UNION CARBIDE CORPORATION UNION CARBIDE SEVIN 50-W	50.00	48.00	P
UNION CARBIDE SEVIN 50-W	50.00	48.14	P
UNION CARBIDE SEVIN 50-W	50.00	49.60	P
CRAIG SEVIN SPRAYABLE	80.00	81.20	P
CRAIG SEVIN SPRAYABLE	80.00	82.90	P
CRAIG SEVIN SPRAYABLE	80.00	81.30	P
UNICO SEVIN DUST	5.00	4.70	P
UNICO SEVIN SPRAY POWDER	50.00	49.50	P
UNICO SEVIN SPRAY POWDER	50.00	48.20	P

ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE

Registrant Product	Sodium Hypochlorite		Remarks
	Guarantee %	Found %	
THE CALVERT CHEMICAL COMPANY SUN-FRESH BLEACH	5.25	4.80	
THE CLOROX COMPANY CLOROX BLEACH	5.25	5.31	P
CLOROX BLEACH	5.25	5.06	P
CLOROX BLEACH	5.25	5.37	P
CLOROX BLEACH	5.25	5.50	P
CLOROX BLEACH	5.25	5.35	P
CLOROX BLEACH	5.25	5.47	P
THE GREAT A + P TEA CO. BRIGHT SAIL LAUNDRY BLEACH	5.24	5.36	P
HOOD CHEMICAL COMPANY HOOD 33 BLEACH	5.25	4.65	D
HOUCHENS OUR SPECIAL BLEACH	FECT 5.25	4.45	D
INDEPENDENT GROCERS ALLIANCE IGA HI POWER BLEACH	5.25	5.75	P
KROGER CO. KANDU BLEACH	5.25	5.57	P
NOVEL WASH COMPANY NOVEL WASH SUPER BLEACH	6.00	4.89	D
NOVEL WASH SUPER BLEACH	6.00	4.90	D
PILOT STORES, INC. LITTLE SKIPPER BLEACH	5.25	4.60	D
LITTLE SKIPPER BLEACH	5.25	4.60	D
PUREX CORPORATION, LTD. MAGIC LAUNDRY BLEACH	5.25	4.74	P
PUREX BLEACH	5.25	4.72	P
PUREX BLEACH	6.00	5.64	P
PUREX BLEACH	6.00	6.40	P
PUREX BLEACH	6.00	6.46	P
PUREX BLEACH	6.00	5.80	P
ROMAN CLEANSER COMPANY ROMAN CLEANSER BLEACH	5.25	4.30	D
SAPO ELIXIR CHEMICAL COMPANY SAPO BRAND BLEACH	5.25	4.64	D
THE SINCLAIR MFG. COMPANY WHITE MONDAY BLEACH	5.25	5.36	P

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

Registrant Product	Sodium Hypochlorite		Remarks
	Guarantee %	Found %	
UNIVERSAL MILKING MACHINE DIV.			
CHLOR-O-SAN	6.40	5.30	<u>D</u>
CHLOR-O-SAN	6.40	6.15	P
CHLOR-O-SAN	6.40	5.47	<u>D</u>
CHLOR-O-SAN	6.40	5.30	<u>D</u>
CHLOR-O-SAN	6.40	6.36	P
CHLOR-O-SAN	6.40	3.84	<u>D</u>
CHLOR-O-SAN	6.40	5.01	<u>D</u>
CHLOR-O-SAN	6.40	5.44	<u>D</u>
CHLOR-O-SAN	6.40	2.71	<u>D</u>
CHLOR-O-SAN	6.40	5.07	<u>D</u>
CHLOR-O-SAN	6.40	5.10	<u>D</u>
CHLOR-O-SAN	6.40	5.19	<u>D</u>
CHLOR-O-SAN	6.40	5.35	<u>D</u>
CLORO-O-SAN	6.40	5.12	<u>D</u>
CHLOR-O-SAN	6.40	6.38	P
CHLOR-O-SAN	6.40	3.78	<u>D</u>
CHLOR-O-SAN	6.40	6.38	P
CHLOR-O-SAN	6.40	6.63	P
CHLOR-O-SAN	6.40	5.45	<u>D</u>
CHLOR-O-SAN	6.40	1.57	<u>D</u>
CHLOR-O-SAN	6.40	2.23	<u>D</u>
CHLOR-O-SAN	6.40	5.57	<u>D</u>
CHLOR-O-SAN	6.40	5.23	<u>D</u>

ANALYSES OF PRODUCTS CONTAINING WARFARIN

Registrant Product	WARFARIN		Remarks
	Guaranteed %	Found %	
AMERICAN SCIENTIFIC LABORATORIES			
Kill Mice Banamous Bits	0.05	0.048	X
ASHWORTH CHEMICAL COMPANY			
Radar Rat & Mouse Killer	0.025	0.023	X
BACON PRODUCTS, INC.			
Eagles-7 Rat Bait	0.025	0.022	P
Eagles-7 Rat Bait	0.025	0.023	P
Eagles-7 Rat Bait	0.025	0.021	P
CHEVRON CHEMICAL COMPANY			
Ortho Rat Bait	0.025	0.028	P
COLONIAL PRODUCTS, INC.			
Colonial-42	0.025	<u>0.014</u>	<u>D</u>
THE D-CON COMPANY, INC.			
d-Con Pellets	0.025	0.024	P
d-Con Pellets	0.025	0.021	P
d-Con Ready Mix	0.025	0.020	P
d-Con Ready Mix	0.025	<u>0.018</u>	<u>D</u>
d-Con Ready Mix	0.025	0.022	P
d-Con Ready Mix	0.025	0.022	P
d-Con Mouse-Prufe	0.054	0.047	P
d-Con Mouse-Prufe	0.054	0.051	P
d-Con Mouse-Prufe	0.054	<u>0.037</u>	<u>D</u>

ANALYSES OF PRODUCTS CONTAINING WARFARIN (Cont'd.)

Registrant Product	Warfarin		Remarks
	Guaranteed %	Found %	
GUARANTEE PEST CONTROL CO.			
Guarantee Rat Bait	0.025	0.020	P
Guarantee Rat Bait	0.025	0.020	P
Guarantee Rat Bait	0.025	<u>0.017</u>	<u>D</u>
HESS & CLARK			
Warfarat	0.025	0.024	P
Warfarat	0.025	0.020	P
Warfarat	0.025	0.021	P
Warfarat	0.025	0.020	P
HYDROPONIC CHEMICAL CO., INC.			
Raponex Mouse Bait	0.025	0.022	P
Raponex Mouse Bait	0.025	0.020	P
LAMB PRODUCTS COMPANY			
Lam-Kill Ready Mixed Rat & Mouse Killer	0.025	0.021	P
DR. LeGEAR, INC.			
Dr. LeGear Mouse Bait	0.025	<u>0.19</u>	<u>DX</u>
Dr. LeGear Rat Bait	0.025	0.020	X
Dr. LeGear Rat Bait	0.025	0.021	X
Dr. LeGear Mouse Killer	0.050	0.045	X
Dr. LeGear Mouse Killer	0.050	0.043	X
McKITRICK CHEMICAL COMPANY			
Rat Plague Rat & Mouse Biat	0.025	0.029	X
PERKS PRODUCTS COMPANY			
Perk's Blam	0.025	0.048	P
Perk's Blam	0.025	0.021	P
THE PIPER COMPANY, INC.			
Paket Brand Warfarin	0.025	0.022	P
REX RESEARCH CORPORATION			
Rat-Tox Rat Bait	0.025	0.020	P
UNITED CO-OPERATIVES, INC.			
Unico Rat & Mouse Killer	0.025	0.022	P
Unico Rat & Mouse Killer	0.025	0.021	P

ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES

Registrant Product	Guaranteed %	Found %	Remarks
ABELL CHEMICAL COMPANY			
Cabell's 11 Dust			
Sevin	2.0	1.88	X
Zineb	5.0	*	
Do			
Sevin	2.0	1.7	X
Zineb	5.0	*	
Do			
Sevin	2.0	1.90	X
Zineb	5.0	*	
FRAGON CHEMICAL CORPORATION			
Blue Dragon			
Sevin	2.0	1.9	P
Sulphur	10.0	*	
Do			
Sevin	2.0	1.9	P
Sulphur	10.0	*	
Copper Dragon			
Sevin	2.0	1.8	P
Copper	7.0	*	
Do			
Sevin	2.0	2.0	P
Copper	7.0	*	
FRAGON CHEMICAL CORPORATION			
Super Blue Dragon			
Sevin	5.0	4.7	P
Sulphur	10.0	*	
E-Z-FLO CHEMICAL COMPANY			
E-Z-FLO Tobacco Bed Dust			
Sevin	2.5	2.1	P
Zineb	5.0	*	
Do			
Sevin	2.5	2.3	P
Zineb	5.0	*	
GLOBE LABORATORIES			
Globe Flea & Tick Powder			
Sevin	5.0	4.85	P
Dichlorophene	0.5	*	

* Product not analyzed for this ingredient.

FEED MONITORING

The feed monitoring program for some of the more common chlorinated hydrocarbon insecticides in feed was continued in 1966. Two-hundred feed samples had been screened by the end of 1965, but in 1966 we were able to make 730 determinations. All dairy feed samples were checked for Aldrin, Dieldrin, Heptachlor, etc., and none were found to contain a significant amount of any of these substances.