

**ANALYSES OF OFFICIAL
FERTILIZER SAMPLES**

by the

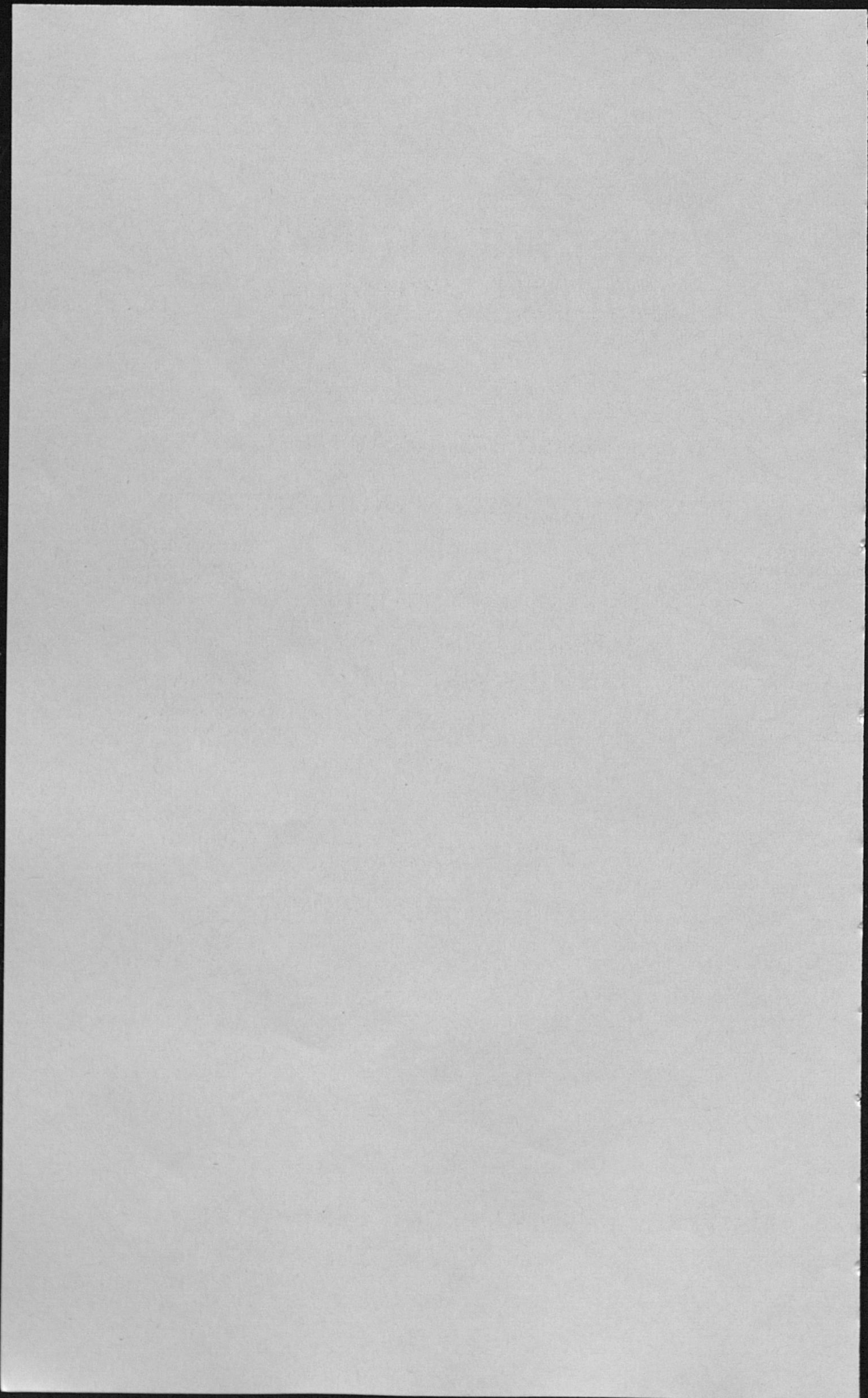
FEED AND FERTILIZER DEPARTMENT

KENTUCKY AGRICULTURAL EXPERIMENT STATION

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UNIVERSITY OF KENTUCKY, LEXINGTON



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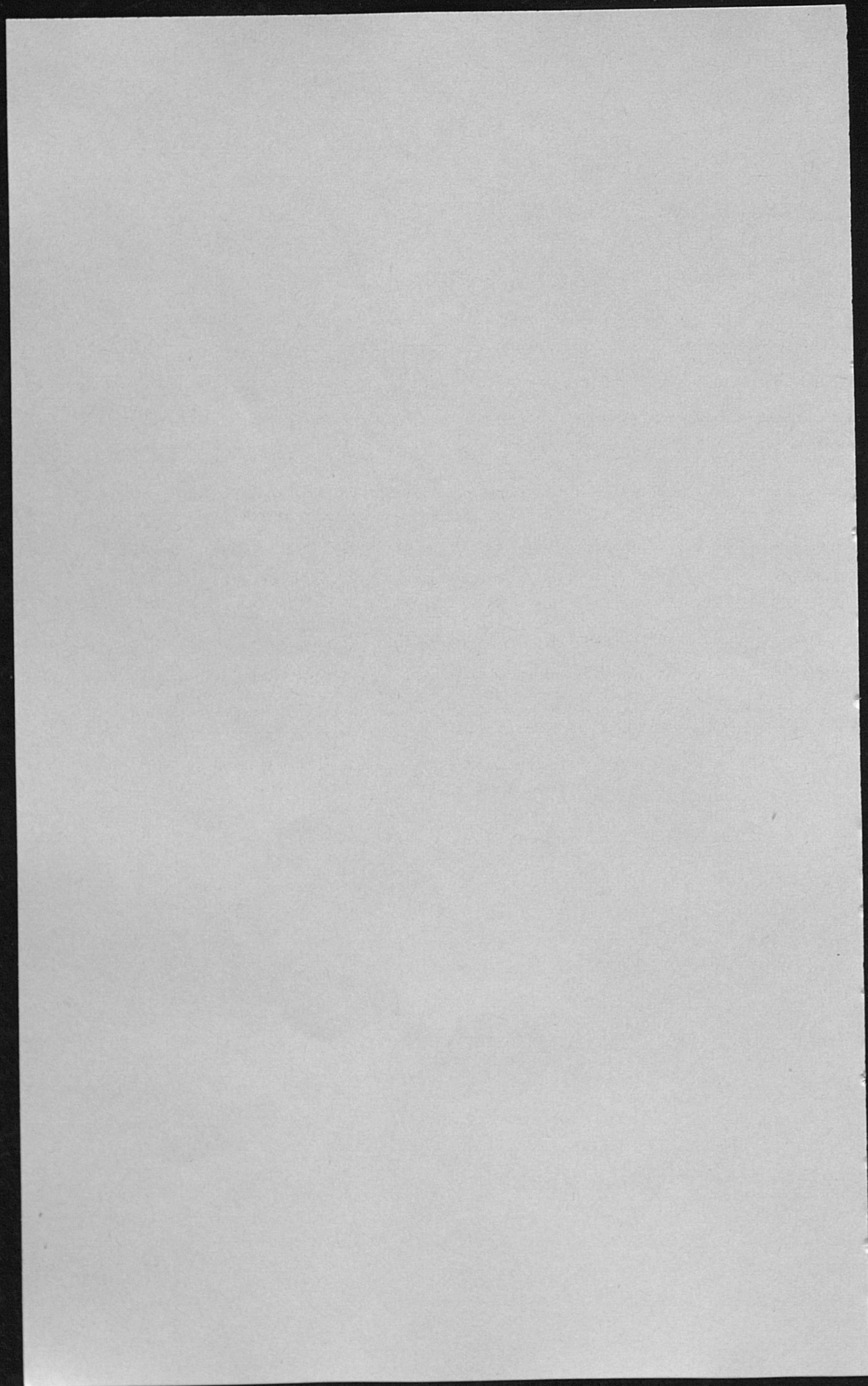
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This bulletin contains results of analyses of 3,030 official samples of commercial fertilizer made during the period January 1 through June 30, 1967.

Separate tables are provided for the results of the analyses for nitrogen, available phosphoric acid and soluble potash, organics, unacidulated phosphatic material, boron, secondary and micro nutrients, and aldrin in fertilizer.

EXPLANATION OF TABLES

The information given in the following tables should be useful in determining how nearly a manufacturer is meeting the chemical guarantee printed on the bag or tag for the fertilizer represented by the samples listed. This may be done by comparing the "grade" with the actual analysis listed under "N" "APA" and "POT".

An additional means of comparing guarantees with the analyses of samples is in the percent of relative value found, shown in the column RV. The following examples illustrate how this relative value is calculated:

A 5-10-15 sulfate fertilizer is guaranteed to contain 5 units of nitrogen, 10 units of available phosphoric acid and 15 units of potash. Factors for computing the relative value of these plant foods are: 3 for nitrogen, 2 for available phosphoric acid and 1 for potash. Thus the combined guaranteed value of the product represented is calculated:

5.0 Units of Nitrogen	x 3 =	15.0
10.0 Units of Available Phosphoric Acid	x 2 =	20.0
15.0 Units of Potash	x 1 =	<u>15.0</u>
Total computed guaranteed value		50.0

The same procedure is followed for "found values". Assuming a sample of 5-10-15 was found to contain 5.1 units of nitrogen, 10.2 units of available phosphoric acid and 15.1 units of potash, the relative found value is computed:

5.1 Units of Nitrogen	x 3 =	15.3
10.2 Units of Available Phosphoric Acid	x 2 =	20.4
15.1 Units of Potash	x 1 =	<u>15.1</u>
Total computed value		50.8

50.8 (computed found value of sample) divided by 50.0 (computed guaranteed value) times 100 (to arrive at percentage) gives 101.6 as the percent of relative value found.

The analyses indicated by an asterisk are deficient more than the tolerance. Occasionally an analysis may be found that appears to be inconsistent in its marking. For example, two samples that are guaranteed 10% available phosphoric acid may both be found to contain 9.7%. One of these may have an asterisk and the other not. There are two factors that may cause this difference.

1. These tolerances are calculated by an electronic computer and applied to the laboratory analyses before these data are rounded off to the nearest tenth of a percent. In the above example, the laboratory found 9.66% for one sample and 9.74% for the other. The first one would be starred as deficient.

(Continued)

2. The grade is written by using the largest whole number in the guarantee of each ingredient. For example, a custom-mixed lot of fertilizer may be guaranteed 0-11.9-11.2. The grade would be written 0-11-11. However, the tolerances are calculated on the 11.9% and 11.2% guarantees.

If this fertilizer analyzed 11.3% A.P.A. and 10.9% potash, the 11.3% A.P.A. would be starred because this analysis is 0.6% units below the 11.9% guarantee.

The use of a high speed computer to make these calculations enables us to apply these tolerances more precisely than has been possible before.

In some samples a deficiency in one nutrient is accompanied by an over-run in another nutrient. This may be evidence of improper mixing or weighing by the manufacturer. Extreme variations of this kind cannot be attributed to separation of materials (segregation) after the product is bagged though this may be a minor factor. Excess of one nutrient cannot compensate for deficiency of another nutrient. The purchaser is entitled to receive the full guarantee for all nutrients as expressed by the manufacturer's guaranteed analysis.

EXPLANATION OF CERTAIN COLUMNS

The letters NIT after a grade means that the product is, or that it contains Nitrate of Potash. The W/B after a grade indicates that the sample contained boron and the W/ME means that the sample was analyzed for secondary and micro-nutrients. The column headed "Num" lists the laboratory number of the particular sample. The column headed "XS CL", an asterisk indicates the sample did not meet the guarantee for sulfate of potash. The RV column shows the percent of relative value found. The PHYS column shows the physical form of the fertilizer when sampled.

The first digit indicates: 1 = chemically combined
2 = dry blend

The second digit indicates: 1 = pulverized, bag
2 = pulverized, bulk
3 = semi-granular, bag
4 = semi-granular, bulk
5 = granular, bag
6 = granular, bulk
7 = pellet, bag
8 = pellet, bulk
9 = liquid
0 = slurry

Example: Chemically combined, granular, bag = 15

COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Agrico Chemical Company 5050 Poplar Ave. Memphis, Tennessee 38101	Chilean Nitrate Sales Corporation 120 Broadway New York, New York 10005
Allied Chemical Corporation Nitrogen Division P. O. Drawer 61 Hopewell, Virginia 23860	Cline Fertilizer Company P. O. Box 67 Ewing, Virginia 24248
Armour Agricultural Chemical Co. Box 1685 Atlanta, Georgia 30301	Coastal Chemical Corporation Yazoo City Mississippi 39194
Ballard County Coop. LaCenter Kentucky 42056	Cominco American Inc. 818 West Riverside Ave. Spokane, Washington 99201
Blackstone Guano Co. c/o Mobil Chemical Co. 401 East Main St. Richmond, Virginia 23208	Commercial Solvents Corporation 260 Madison Avenue New York, New York 10016
Bluegrass Plant Foods, Inc. 447 N. Main Street Cynthiana, Kentucky 41031	Commonwealth Fertilizer Company Morgantown Road Russellville, Kentucky 42276
Bunton Seed Company 939 Jefferson Street Louisville, Kentucky 40202	Darling & Company 4201 S. Ashland Avenue Chicago, Illinois 60606
Burley Belt Fertilizer Company Route #4 Lexington, Kentucky 40505	Elanco Products Co. 740 South Alabama Street Indianapolis, Indiana 46206
Burley Belt Chemical Co. Box 7 London, Kentucky 40741	Escambia Chemical Corporation P. O. Box 467 Pensacola, Florida 32502
Campbellsville Crop Service Box 7 Campbellsville, Kentucky 42718	E-Z-Flo Chemical Co. 1091 West High Street Lexington, Kentucky 40508
Central Farmers Fertilizer Co. 100 South Wacker Drive Chicago, Illinois 60606	Farmers Chemical Association P. O. Box 67 Tyner, Tennessee 37392
Chevron Chemical Company 940 Hensley Street Richmond, California 94801	Farmsco of Kentucky Route 1 Gracey, Kentucky 42232

(Continued)

Companies Represented by Samples Reported in this Bulletin (Continued)

Farmers Fertilizer Company
Smiths Grove
Kentucky 42171

Federal Chemical Company
646 Starks Building
Louisville, Kentucky 40202

Frasier Supply Company
505 West Main Street
Glasgow, Kentucky 42141

Free Flow Fertilizer Company
Box 119
Maumee, Ohio 43537

Glasgow Fertilizer Company
Industrial Avenue
Glasgow, Kentucky 42141

W. R. Grace & Company
Agricultural Products Division
101 N. Charles Street
Baltimore, Maryland 21203

Graves County Soil Improvement Assn.
Mayfield,
Kentucky 42066

Green Valley Farm Supply Co.
Island
Kentucky 42350

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

Gulf Oil Corporation
Agricultural Chemicals Division
Dwight Building
Kansas City, Missouri 64105

Hercules Powder Company
910 Market Street
Wilmington, Delaware 19899

Heritage House Products
300 Union Commerce Building
Cleveland, Ohio 44115

Hopkins County Farm Service
P. O. Box 306
Madisonville, Kentucky 42431

Hutson Chemical Company
103 Maple Street
Murray, Kentucky 42071

International Minerals & Chemical Corp.
P. O. Box 15367 - Lockland Station
Cincinnati, Ohio 45215

Kengas Corporation
3002 Fairview Drive
Owensboro, Kentucky 42301

Kentucky Fertilizer Works, Inc.
P. O. Box 595
Winchester, Kentucky 40391

Kerr-McGee Chemical Corp.
Kerr-McGee Building
Oklahoma City, Oklahoma 73102

Livestork Industries
Park City,
Kentucky 42160

Mobil Chemical Company
Agricultural Chemical Division
401 East Main Street
Richmond, Virginia 23208

Monsanto Company
800 N. Lindbergh Boulevard
St. Louis, Missouri 63166

Na-Churs Plant Food Co.
421 Monroe Street
Marion, Ohio 43303

North American Fertilizer Co.
Preston Street at Bergman
Louisville, Kentucky 40217

Ohio Valley Fertilizer
P. O. Box 579
Maysville, Kentucky 41056

(Continued)

Companies Represented by Samples Reported in this Bulletin (Continued)

Olin Mathieson Chemical Corporation
P. O. Box 991
Little Rock, Arkansas 72203

Pennyroyal Supply Company
Skyline Drive
Hopkinsville, Kentucky 42240

Phillips Petroleum Co.
841 Adams Building
Bartlesville, Oklahoma 74004

Ra-Pid-Gro Corporation
88 Ossian Street
Dansville, New York 14437

F. S. Royster Guano Company
P. O. Drawer 1940
Norfolk, Virginia 23501

O. M. Scott & Sons Company
Marysville,
Ohio 43040

Sears, Roebuck & Co.
925 South Homan Ave.
Chicago, Illinois 60607

Sewerage Com.
City Milwaukee
Box 2079
Milwaukee, Wisconsin 53201

Smith-Douglass Company, Inc.
P. O. Box 419
Norfolk, Virginia 23501

Southern States Cooperative Inc.
Fertilizer Division
7th and Main Street
Richmond, Virginia 23213

Stanley Crop Service
Stanley,
Kentucky 42375

Stewart Fertilizer Service, Inc.
Mt. Vernon,
Kentucky 40456

Swift & Company
Agricultural Chemical Division
National Stock Yards, Illinois 62071

Tennessee Corporation
1330 W. Peachtree Street N. W.
Atlanta, Georgia 30309

Thompson Sales Company
Post Office Box 246
Montgomery, Alabama 36101

Tompkinsville Fertilizer Co.
Tompkinsville,
Kentucky 42167

Union Fertilizer Company
Morganfield,
Kentucky 42437

Valley Counties of Kentucky Coop.
P. O. Box 127
Benton, Kentucky 42025

Warner Fertilizer Company
P. O. Box 707
Somerset, Kentucky 42501

The listing on pages 12 thru 23 shows the average analysis and coefficient of variation for each grade where two or more samples of a grade are reported. These data also show the average percentage of guarantee and the coefficient of variations for all grades reported for a company, or plant, when more than one plant is listed and ten or more samples are reported.

The listing on pages 24 thru 27 is a summary of the average percentage of guarantee and the coefficient of variation by plant and company.

The coefficient of variation is proposed as a means for reducing this to a statistic that is useful. The method for doing this will be found in textbooks on statistics and when applied to a guarantee of 5% nitrogen is calculated as follows:

<u>Sample Number</u>	<u>Nitrogen Guarantee</u>	<u>Found</u>	<u>Squared</u>
A	5.0	5.6	31.36
B	5.0	5.5	30.25
C	5.0	5.4	29.16
D	5.0	5.7	32.49
E	5.0	5.5	30.25
F	5.0	5.8	33.64
G	5.0	5.0	25.00
H	5.0	6.0	36.00
I	5.0	5.5	30.25
J	5.0	5.3	28.09
		<u>55.3</u>	<u>306.49</u>

$$10 \text{ Samples, average analysis} = \frac{55.3}{10} = 5.53$$

$$\text{Standard deviation} = \sqrt{\frac{306.49 - \frac{55.3^2}{10}}{10 - 1}} = \sqrt{\frac{0.68}{9}} = 0.275$$

$$\text{Coefficient of variation} = \frac{0.275 \times 100}{5.53} = 4.97 - 5.0\%$$

If in this example there had been less variation or "scatter", the resulting percentage would have been smaller. If there had been more variation, it would have been larger. The coefficient varies directly with the range in values of analyses.

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
AGRICO CHEMICAL COMPANY Memphis, Tennessee	0-20- 0	4	----	20.7	----	---	3.1	----
	0-20-20	4	----	20.8	20.4	---	2.8	4.0
	0-25-25	2	----	24.1	26.3	---	0.0	2.4
	4-12- 8	3	4.4	12.5	9.0	6.5	1.3	5.7
	4-16- 4	11	4.0	16.2	4.4	2.4	1.4	5.2
	5-10-10	2	4.8	10.2	10.5	4.4	2.0	1.3
	5-10-15	29	5.2	10.3	15.6	4.9	3.1	3.7
	5-20-10	3	5.2	19.5	10.8	6.6	4.0	6.1
	5-20-20	22	5.2	19.6	20.0	6.1	4.6	6.5
	6- 6-18	5	5.6	7.1	18.3	3.2	12.3	3.1
	6-12-12	16	5.9	12.0	13.5	4.5	4.5	14.9
	6-24-24	3	6.3	23.6	24.1	3.9	5.8	4.3
	8- 8-18	7	7.7	8.3	18.3	3.9	7.6	5.8
	8-16- 8	2	8.0	16.1	9.5	0.0	4.3	6.7
	10- 6- 4	2	9.9	6.8	4.8	0.2	3.1	1.4
	10-10-10	27	9.7	10.3	10.7	4.9	3.9	5.7
	12-12-12	8	11.9	12.5	12.3	4.5	4.4	3.8
	16- 8- 8	8	15.5	8.9	8.6	5.4	6.3	11.2
30- 0- 0	2	30.6	----	----	0.2	---	----	
82- 0- 0	15	82.0	----	----	0.1	---	----	
	ALL GRADES	185	% OF GUAR.			CV		
			99.5	101.8	104.4	3.9	4.3	6.0
ARMOUR AGRI. CHEM. CO. Atlanta, Georgia	0- 0-50	2	----	----	51.5	---	---	2.3
	0-20- 0	2	----	20.7	----	---	2.0	----
	0-25-25	2	----	24.7	23.7	---	10.8	8.3
	0-46- 0	2	----	46.1	----	---	2.9	----
	3-12- 6	2	3.7	12.1	7.8	7.6	0.6	10.8
	4-12- 8	2	4.0	11.7	8.8	1.7	1.2	0.8
	4-16- 4	2	4.3	15.9	6.1	13.1	0.9	26.8
	5-10- 5	2	5.4	10.6	5.0	2.6	10.0	4.2
	5-10- 5	13	4.9	10.3	6.5	4.3	10.3	11.4
	5-10-10	3	4.6	10.7	12.6	3.3	17.0	8.8
	5-10-15	15	5.0	10.4	15.4	5.8	4.5	5.3
	5-20-20	10	5.1	19.7	20.2	5.5	3.1	3.3
	6-12-12	17	6.0	12.1	13.1	5.9	4.7	4.9
	6-12-18	13	5.9	12.3	18.4	6.3	4.8	4.2
	6-24-24	2	6.0	23.7	25.3	1.2	2.3	2.5
	8-10-15	3	7.9	9.8	15.3	2.5	1.5	2.1
	10- 6- 4	2	10.2	6.9	5.1	4.1	4.1	21.0
	10-10-10	12	10.2	10.3	10.4	4.4	7.0	7.0
12-12-12	2	11.7	13.1	12.4	5.4	1.0	1.7	
12-24-24	2	12.1	25.2	24.3	0.6	0.2	4.9	
15-15-15	9	15.0	15.9	16.4	2.9	2.0	1.8	
15-40- 5	4	15.3	41.5	5.9	0.5	0.5	5.1	
16- 4- 8	2	15.7	4.3	9.2	9.0	11.6	3.8	
18- 6- 9	2	17.3	7.1	9.8	1.2	15.0	12.9	

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967
(Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
ARMOUR AGRI. CHEM. CO. Atlanta, Georgia (Cont'd)	33.5- 0- 0	12	34.3	----	----	2.3	---	----
	ALL GRADES	149	% OF GUAR.			CV		
			100.9	102.3	106.1	4.4	5.2	6.5
Cincinnati, Ohio	4-12- 8	2	4.9	12.8	10.3	2.8	2.2	4.1
	5-10- 5	2	5.1	10.8	7.2	2.7	0.6	20.7
	5-10-10	5	5.1	10.9	11.1	2.2	2.7	9.6
	5-10-15	14	4.8	10.7	14.8	9.6	7.1	6.8
	5-20-20	10	5.0	19.7	20.3	6.5	3.2	5.3
	6- 6-18	4	5.7	7.7	18.4	8.8	7.5	2.5
	6-12-12	6	5.8	12.1	12.2	7.8	3.5	7.3
	6-12-18	4	6.0	12.5	17.9	4.4	7.3	6.1
	10-10-10	8	9.9	10.3	11.2	5.7	5.0	5.7
	12-12-12	4	11.2	13.1	13.3	2.3	2.0	4.8
		ALL GRADES	66	% OF GUAR.			CV	
			98.0	103.6	103.3	5.8	4.4	6.9
Jeffersonville, Ind.	0- 0-62	4	----	----	61.3	---	---	1.8
	4-12- 8	4	4.2	11.5	9.5	4.8	8.8	9.3
	5-10-10	2	5.5	10.1	11.7	0.0	1.4	7.8
	5-10-15	27	4.9	10.6	15.3	7.1	4.8	8.1
	5-20-20	10	5.0	20.2	20.0	6.1	3.2	4.2
	6-12-12	3	6.2	12.2	12.0	11.6	2.9	5.4
	6-12-18	14	6.0	12.7	18.7	8.6	3.0	3.7
	10-10-10	20	10.1	10.7	10.6	6.1	5.7	8.4
	12-12-12	4	11.6	12.6	12.5	1.9	4.5	2.8
		ALL GRADES	93	% OF GUAR.			CV	
			99.8	104.2	103.1	6.3	4.4	6.0
Nashville, Tenn.	0-20- 0	2	----	19.0	----	---	3.7	---
	0-20-20	4	----	20.9	20.2	---	5.1	12.4
	3-12-24	2	3.5	11.6	24.6	6.1	0.6	1.7
	4-12- 8	9	4.4	12.1	9.2	6.6	8.6	6.0
	4-12-12	2	5.0	12.3	13.1	30.0	5.2	2.7
	5-10-10	3	5.3	10.2	10.6	10.8	0.6	4.2
	5-10-15	11	5.1	10.2	16.0	2.4	3.6	3.2
	5-20-20	14	5.2	18.9	21.2	6.0	6.2	8.3
	6-12-12	13	6.1	12.1	13.0	4.4	3.8	4.4
	6-12-18	14	6.0	12.1	19.0	4.0	3.8	3.8
	6-24-24	2	6.2	24.2	25.1	2.2	2.0	1.4
	10-10-10	14	9.4	10.7	11.0	3.4	4.0	5.7
	15-15-15	4	14.9	15.6	16.3	7.4	3.2	4.2

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967
(Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION			
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	
ARMOUR AGRI. CHEM CO. Nashville, Tenn. (Cont'd)	ALL GRADES	100	% OF GUAR.			CV			
			100.6	100.2	106.8	6.2	4.2	5.1	
BLUEGRASS PLANT FOODS, Cynthiana, Ky.	5-10-15	2	4.9	10.0	15.5	0.0	1.4	1.8	
	6-12-18	2	6.1	12.2	17.5	2.3	1.1	2.8	
	10-10-10	3	9.8	9.3	11.5	6.1	6.7	8.3	
	ALL GRADES	21	% OF GUAR.			CV			
			99.4	98.3	104.5	3.0	3.3	4.6	
	Danville, Ky.	0-20- 0	4	----	19.1	----	---	2.1	---
		3-12-12	3	3.4	11.5	12.9	6.1	2.3	3.5
		4-12- 8	3	4.4	10.4	8.8	7.8	5.6	6.4
		4-16- 4	2	4.5	15.5	4.2	3.1	0.4	0.0
		5-10-10	3	5.9	9.4	11.9	1.9	4.2	3.4
		5-10-15	4	5.1	9.9	15.2	2.4	4.2	3.5
		5-20-20	3	5.6	19.4	21.3	1.0	3.0	4.0
		6-12-12	2	6.5	11.6	12.6	12.0	3.6	14.5
	10-10-10	6	10.0	11.1	11.2	3.8	4.3	4.6	
	ALL GRADES	34	% OF GUAR.			CV			
105.5			95.9	108.6	4.6	3.4	4.8		
BURLEY BELT FERT. CO. Lexington, Ky.	0-20-20	5	----	19.7	20.9	---	4.1	2.1	
	0-25-25	2	----	24.7	25.7	---	3.1	0.8	
	3- 9- 6	2	3.2	9.6	7.6	4.4	5.8	7.4	
	4-12- 8	2	4.3	12.6	9.8	1.6	0.5	2.1	
	4-16- 4	7	4.2	16.5	5.3	4.5	2.2	8.0	
	5-10-10	8	5.2	10.5	11.4	6.6	5.1	5.4	
	5-10-15	8	5.0	10.2	16.1	4.0	3.7	3.8	
	5-20-20	5	5.3	18.7	21.2	15.4	4.5	3.9	
	6- 6-18	8	6.0	6.6	18.0	2.7	4.0	3.5	
	6- 8- 6	3	6.1	8.7	7.1	3.2	5.8	9.1	
	6-12-12	5	5.9	11.7	12.9	1.2	5.5	4.8	
	6-12-18	2	5.9	11.5	18.6	1.2	1.8	0.7	
	8-10-15	9	7.9	10.6	15.5	2.7	4.9	3.9	
	10-10-10	12	9.9	10.1	11.2	6.4	8.6	11.4	
	10-10-20	3	10.0	11.6	18.5	3.2	27.3	11.3	
	12-12-12	3	12.3	12.0	12.6	7.7	9.3	8.9	
	30- 0- 0	2	30.3	----	----	1.6	---	---	
ALL GRADES	95	% OF GUAR.			CV				
		100.1	102.1	106.3	4.7	5.9	5.7		

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967
(Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
BURLEY BELT CHEM. CO. London, Ky.	0-20-20	2	----	18.5	22.2	---	3.0	3.5
	5-10-15	7	5.0	9.9	15.7	2.0	4.2	4.8
	5-20-20	5	4.8	20.6	20.6	7.7	4.5	4.8
	6-12-12	3	6.2	12.3	12.2	8.3	13.8	2.0
	10-10-10	4	10.0	10.1	10.4	5.7	11.2	10.6
	ALL GRADES	23	% OF GUAR.			CV		
			99.2	99.8	104.7	5.6	7.2	5.3
CHEVRON CHEM. CO. Ft. Madison, Iowa	10-20-20	2	10.6	20.4	21.2	2.0	0.6	1.3
	13-34-10	2	13.1	35.3	10.6	2.1	0.2	0.0
	16-16-16	2	16.2	16.4	17.2	1.3	0.0	0.4
	ALL GRADES	9	% OF GUAR.			CV		
			102.4	103.5	107.1	1.8	0.3	0.5
COMMONWEALTH FERT. CO. Russellville, Ky.	0-26-26	4	----	28.4	23.5	---	11.4	24.1
	4-12- 8	2	4.4	12.3	9.1	8.1	2.8	2.3
	5-10-15	5	5.0	10.9	15.2	3.5	5.3	3.2
	5-20-20	8	5.3	19.1	20.5	5.0	7.9	6.5
	6-12-12	3	5.6	12.5	13.5	5.7	5.3	7.9
	6-18-12	3	5.9	17.6	13.6	5.0	6.8	12.7
	7-21-10	2	6.7	20.2	12.6	4.2	4.2	12.9
	8-12-15	6	8.1	12.0	13.8	4.9	8.1	10.8
	10-10-10	5	9.5	10.8	11.0	5.5	10.3	6.5
	ALL GRADES	43	% OF GUAR.			CV		
			100.6	101.8	101.7	5.1	7.2	9.5
DARLING & CO. E. St. Louis, Ill.	0-25-25	2	----	26.3	25.2	---	1.6	2.8
	5-20-20	9	5.0	20.4	20.9	5.2	5.3	4.9
	6-24-24	6	6.1	23.7	25.0	2.0	1.4	2.2
	15-15-15	2	12.9	18.9	15.0	0.5	4.4	2.8
	ALL GRADES	22	% OF GUAR.			CV		
		97.2	103.8	103.7	3.1	3.3	3.4	
FEDERAL CHEM. CO. Louisville, Ky.	0-20- 0	3	----	20.0	----	---	2.0	---
	0-20-20	4	----	18.6	20.7	---	5.9	3.5
	4-12- 8	6	4.4	12.5	9.3	6.2	5.9	8.2
	4-12-16	2	4.6	12.6	17.4	12.3	6.7	3.6
	4-16- 4	6	5.0	15.2	7.0	11.1	5.7	24.3
	5-10-15	28	5.5	10.7	14.9	9.1	6.3	6.1
	5-20-20	14	5.3	19.8	20.8	7.1	5.4	5.3

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967
(Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
FEDERAL CHEM. CO. Louisville, Ky. (Cont'd)	6- 6-18	3	6.3	7.1	18.5	3.3	2.1	2.2
	6-12-12	29	6.2	12.3	13.2	4.9	3.0	7.9
	6-18-12	3	6.3	16.4	12.1	4.7	2.4	1.7
	9-10-15	18	9.1	10.3	14.9	3.6	4.6	5.1
	10-10-10	26	10.0	10.6	10.8	5.1	4.6	6.7
	10-10-15	8	9.6	10.2	16.9	8.6	11.4	8.9
	12-12-12	11	11.9	12.0	12.8	4.1	2.6	4.0
	15-15-15	2	15.4	15.5	13.9	0.4	0.1	3.5
	33. 5- 0- 0	3	34.1	----	----	1.2	---	---
		ALL GRADES	174	% OF GUAR.			CV	
			102.9	102.1	105.4	6.0	4.8	6.8
Nashville, Tenn.	0- 0-60	2	----	----	58.2	---	---	2.0
	0-20- 0	2	----	19.4	----	---	2.1	---
	0-20-20	3	----	19.6	22.2	---	0.5	1.7
	4-12- 8	3	4.8	12.3	11.3	18.1	2.9	11.7
	5-10-15	6	5.4	10.2	14.9	1.9	1.3	4.7
	5-20-20	9	5.5	18.7	20.3	4.2	2.3	6.3
	5-25-15	2	5.7	24.3	15.6	3.7	4.3	1.8
	6-12-12	5	6.2	11.9	12.2	3.5	2.0	4.1
	6-18-12	3	6.3	17.5	12.5	1.8	6.5	6.2
	9-10-15	2	9.2	10.5	15.1	1.5	6.0	1.8
	10-10-10	8	10.2	10.0	10.5	1.8	4.9	6.4
	10-10-15	4	10.1	10.4	15.9	1.4	6.0	1.2
	10-20-20	2	9.7	19.2	21.6	3.6	3.6	2.2
	12-12-12	3	11.8	10.7	13.8	3.0	9.2	2.7
	28- 0- 0	2	26.4	----	----	12.0	---	---
	ALL GRADES	64	% OF GUAR.			CV		
			102.3	98.0	104.2	4.4	3.8	4.4
GLASGOW FERT. CO. Glasgow, Ky.	4-12- 8	3	4.3	11.4	9.6	4.6	2.2	3.7
	4-16- 4	3	4.6	16.2	5.4	9.9	1.8	2.8
	5-10-15	7	5.5	10.0	15.9	3.4	3.6	3.2
	5-20-20	3	5.2	21.4	20.0	6.2	12.6	15.5
	8-16-16	2	7.1	17.9	14.9	1.9	5.5	17.6
	10-10-10	3	10.0	10.7	10.9	4.0	4.2	3.8
	12-24-24	2	12.5	26.3	21.6	6.7	0.8	0.1
	ALL GRADES	32	% OF GUAR.			CV		
			103.1	101.2	103.7	5.2	4.4	6.3
W. R. GRACE & CO. Nashville, Tenn.	0-20- 0	3	----	19.2	----	---	3.3	---
	0-20-20	5	----	19.7	20.6	---	2.1	5.0
	3-10-30	3	3.3	10.3	28.4	1.7	5.8	1.7

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967
(Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
W. R. GRACE & CO. Nashville, Tenn. (Cont'd)	4-12- 8	5	4.4	11.4	9.5	5.1	2.3	4.1
	5-10-15	9	5.0	9.6	15.5	3.2	3.5	2.8
	5-20-20	15	5.4	19.2	20.5	5.0	2.8	3.0
	5-20-30	3	5.1	20.2	30.2	14.8	5.7	2.6
	6-12-12	8	6.1	11.6	12.8	2.8	2.8	5.5
	10-10-10	10	10.3	10.0	10.8	3.7	3.5	4.6
	10-10-15	3	9.8	10.1	15.7	9.7	1.0	0.6
	15-15-15	2	15.0	16.7	15.3	0.4	1.7	4.1
	30- 0- 0	2	30.4	----	----	0.9	---	---
	ALL GRADES	71	% OF GUAR.			CV		
		102.6	97.8	103.8	4.6	3.0	3.5	
New Albany, Ind.	0-20- 0	6	----	20.1	----	---	3.1	---
	0-25-25	8	----	26.2	25.0	---	7.7	10.1
	0-46- 0	2	----	45.5	----	---	1.4	---
	3- 9-27	2	3.4	10.7	27.2	6.3	3.3	2.8
	4-12- 8	7	4.6	11.9	9.6	6.0	1.7	5.5
	4-16- 4	6	4.4	16.4	5.7	1.2	0.5	3.0
	5-10-15	30	5.1	10.3	15.8	3.3	5.7	3.4
	5-20-20	16	5.4	20.5	20.8	7.3	3.7	3.6
	6- 6-18	2	5.7	9.1	16.8	6.2	12.4	11.7
	6-12-12	9	6.4	12.2	13.2	5.2	3.2	4.7
	6-24-24	4	6.0	24.2	24.1	3.0	2.1	2.4
	10-10-10	23	9.9	10.5	11.6	2.9	5.3	5.0
	12-12-12	8	11.8	12.7	12.9	4.0	6.0	3.2
	ALL GRADES	139	% OF GUAR.			CV		
		102.0	102.8	106.1	4.4	4.2	4.5	
GRO-GREEN CHEM CO. Shelbyville, Ky.	5-10-15	3	5.9	10.5	14.9	14.1	4.8	12.3
	8-10-15	3	8.0	9.9	14.9	1.2	12.9	11.8
	8-12-15	4	8.2	13.2	14.0	3.0	26.4	19.0
	10-10-10	6	9.9	11.4	9.3	2.1	9.4	19.9
	ALL GRADES	34	% OF GUAR.			CV		
		104.3	105.6	98.8	4.8	13.5	16.2	
GULF OIL CORP. Cecilia, Ky.	4-12- 8	3	4.7	11.7	10.6	22.2	3.2	10.3
	5-10-15	3	5.3	10.3	15.1	7.5	11.6	20.6
	5-20-20	3	5.2	20.5	21.0	1.9	3.4	2.6
	6-12-12	2	6.7	12.6	11.9	1.0	2.2	5.3
	8-10-15	2	8.1	10.7	16.5	1.7	11.1	11.1
	10-10-10	5	10.3	10.1	11.2	2.2	5.2	4.8
	ALL GRADES	26	% OF GUAR.			CV		
		105.6	102.7	106.7	6.2	6.0	9.0	

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967
(Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
GULF OIL CORP. (Cont'd) Clarkson, Ky.	4-12- 8	3	5.0	11.8	8.9	13.1	1.2	18.3
	5-10-15	2	5.5	10.2	15.7	6.5	6.2	15.8
	6-12-12	2	6.3	11.9	12.2	6.7	1.2	15.0
	9- 8-12	2	9.4	8.4	14.8	12.0	10.1	21.0
	10-10-10	2	10.3	10.3	10.5	4.1	8.2	19.6
	18-11-11	2	18.5	11.2	13.1	8.0	10.1	1.6
	ALL GRADES	22	% OF GUAR.			CV		
		104.2	103.4	108.7	8.5	6.0	15.3	
Henderson, Ky.	5-10-15	6	5.4	10.0	16.6	5.3	7.2	4.1
	5-20-20	8	5.4	21.3	19.7	5.7	7.8	9.4
	5-20-30	6	5.3	20.0	29.8	2.3	3.1	5.8
	6-18-12	2	6.7	17.7	14.1	1.0	0.3	4.0
	6-24-24	5	6.0	24.2	23.7	7.6	9.1	11.2
	10-10-10	5	10.1	11.3	11.5	2.8	8.9	11.0
	12-12-12	2	11.8	15.0	14.2	6.6	0.4	1.5
	30- 0- 0	2	30.4	----	----	0.6	---	---
	ALL GRADES	41	% OF GUAR.			CV		
			103.8	104.3	104.0	4.2	5.9	7.2
HUTSON CHEM CO. Murray, Ky.	4-16-40	2	4.0	15.4	41.7	8.9	4.1	3.7
	5-10-15	2	5.1	10.8	15.0	0.0	5.9	10.3
	5-20-20	3	4.8	20.8	20.9	2.0	2.2	2.1
	6-12-12	2	5.7	12.7	12.9	8.7	8.9	4.9
	15-15-15	3	15.9	16.2	15.4	2.0	6.2	7.2
	ALL GRADES	22	% OF GUAR.			CV		
		107.7	105.0	99.9	4.1	5.3	5.6	
INTERNATIONAL MINERAL & CHEMICAL CORP. Cincinnati, Ohio	0- 0-60	2	----	----	59.8	---	---	3.2
	0-20-20	5	----	21.3	21.1	---	1.5	2.5
	3-12-12	2	3.7	11.2	12.7	0.0	1.9	7.2
	4-12- 8	3	4.5	12.6	9.6	8.0	2.0	3.6
	4-16- 4	2	4.7	14.6	4.9	16.7	2.9	8.6
	4-16- 4S	3	3.9	14.8	6.0	9.2	5.8	17.4
	5- 5- 0	3	4.5	6.2	----	12.1	8.0	---
	5-10- 5	2	5.7	9.4	8.2	37.2	4.5	0.1
	5-10-10	6	4.8	10.0	9.9	15.4	11.0	21.1
	5-10-15	19	5.1	10.2	15.9	5.3	10.1	10.7
	5-20-20	13	5.0	19.6	20.9	6.5	2.6	3.4
	6- 6-18	3	6.8	6.4	18.3	5.0	13.4	8.2
	6-12-12	7	6.2	11.7	12.7	4.9	6.9	9.8
	6-12-18	5	5.9	12.1	18.9	8.6	1.8	6.3
	8-32-16	2	7.2	27.5	17.5	15.7	5.4	11.7
	10-10-10	16	10.1	9.8	11.0	3.2	3.8	4.0

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967 (Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
INTERNATIONAL MINERAL & CHEMICAL CO. Cincinnati, Ohio (Cont'd)	10-10-15	2	10.1	10.7	16.7	1.4	1.3	0.4
	12-12-12	5	11.4	13.3	12.6	6.6	5.9	3.0
	ALL GRADES	113	% OF GUAR.			CV		
			100.3	99.6	106.6	8.5	5.5	7.3
Clarksville, Ky.	5-10-10	2	5.5	10.5	11.1	7.7	3.3	0.6
	5-10-15	3	4.8	9.9	16.7	6.4	1.5	0.9
	5-10-15ME	3	5.1	10.2	14.9	5.1	4.4	11.1
	5-20-20	4	5.0	18.9	19.0	2.6	4.4	9.6
	5-20-20ME	2	4.6	17.6	22.0	7.7	12.0	3.5
	6-12-12	5	5.9	11.2	11.9	5.2	4.4	10.5
	10-10-10	6	9.2	10.1	10.9	11.5	9.6	6.6
	15-15-15	2	14.1	15.1	16.5	5.5	18.3	12.8
	ALL GRADES	34	% OF GUAR.			CV		
			96.6	97.9	104.0	6.6	6.9	7.2
Somerset, Ky.	0-20-20	4	----	20.5	20.2	---	1.8	6.0
	3-12-12	2	4.1	11.9	12.4	17.2	1.2	5.7
	5-10-15	9	5.1	10.1	15.8	3.1	2.7	4.9
	5-20-20	9	4.9	19.3	20.7	4.4	2.9	4.0
	6-12-12	9	6.0	12.2	12.7	5.3	4.0	8.6
	6-12-18	3	6.1	12.3	18.1	4.1	0.9	2.2
	6-24-24	3	5.5	23.1	24.9	3.1	2.7	2.1
	10-10-10	9	10.0	10.2	10.9	2.4	3.7	3.6
	12-12-12	4	11.9	12.0	13.7	3.8	1.8	9.4
	ALL GRADES	60	% OF GUAR.			CV		
		100.4	100.1	104.7	4.8	2.6	5.3	
KENTUCKY FERTILIZER WORKS Winchester, Ky.	4-12- 8	2	3.8	11.5	9.3	5.6	2.4	4.5
	5-10-15	3	4.9	10.3	16.4	1.1	5.0	1.8
	5-20-20	2	5.2	19.6	21.4	1.3	1.8	0.1
	10-10-10	3	9.6	10.6	11.0	4.2	3.3	0.5
	ALL GRADES	16	% OF GUAR.			CV		
		97.5	100.9	105.7	3.0	3.2	1.7	
MOBIL CHEM. CO. Richmond, Va.	0-10-30	2	----	11.4	28.5	---	5.6	0.7
	0-20- 0	9	----	20.4	----	---	2.1	---
	0-20-20	9	----	20.3	21.3	---	4.5	6.1
	4-12- 8	16	4.7	15.1	11.2	11.4	16.2	17.0
	4-12-12	2	4.6	12.2	12.7	6.1	0.6	6.6
	4-16- 4	3	4.4	16.5	4.7	5.7	3.9	11.8
	4-16- 4ME	3	4.1	16.3	5.9	5.1	2.4	2.5

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967
(Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
MOBIL CHEM. CO. Richmond, Va. (Cont'd)	5-10-10	3	4.8	10.7	11.2	3.1	1.8	5.7
	5-10-15	18	5.1	10.9	15.2	11.7	7.6	6.5
	5-10-15ME	3	5.7	10.4	14.4	7.6	2.0	6.1
	5-20-20	23	5.2	19.4	20.3	5.9	5.7	6.4
	5-20-20B	2	4.9	20.6	19.9	0.0	4.1	8.1
	5-20-20ME	4	5.0	19.7	20.0	2.9	2.6	6.6
	6-12-12	9	5.9	12.4	12.9	2.5	2.0	4.6
	6-12-18	3	6.4	11.6	19.0	3.2	4.3	1.3
	6-12-18ME	14	6.2	12.2	18.5	3.8	4.5	4.0
	6-24-24	4	6.6	24.4	22.1	4.0	3.4	3.3
	10-10-10	23	10.1	10.4	10.9	3.9	2.9	4.3
	10-10-10ME	4	10.0	10.2	11.1	3.8	1.2	4.3
	12-12-12	2	12.1	12.6	12.5	2.9	0.5	6.2
	15-15-15	5	13.2	15.2	15.5	11.6	6.9	5.5
	28- 0- 0	4	28.3	----	----	1.1	----	----
	82- 0- 0	6	82.0	----	----	0.0	----	----
		ALL GRADES	183	% OF GUAR.			CV	
			101.0	103.5	105.4	5.4	4.7	6.2
NORTH AMERICAN FERTILIZER CO. Louisville, Ky.	0- 0-60	2	----	----	59.0	----	----	1.5
	0-20-20	2	----	20.3	20.5	----	0.6	2.0
	0-25-25	2	----	22.0	26.9	----	1.2	3.9
	4-12- 8	6	4.2	11.4	9.1	4.5	2.7	2.1
	4-16- 4	2	4.0	15.1	5.7	1.7	0.9	4.9
	5-10-15	10	4.8	9.9	15.8	2.4	5.5	2.7
	5-20-20	3	5.4	19.7	21.0	3.7	4.9	1.9
	5-20-30	2	5.2	18.7	29.9	5.4	9.0	6.6
	6- 6-18	3	5.8	6.6	18.3	2.6	4.6	2.2
	6-12-12	4	6.3	12.5	13.7	1.5	7.2	5.6
	6-12-18	3	6.0	12.1	18.6	2.5	2.1	1.1
	6-24-24	2	6.4	22.9	23.9	8.8	0.6	8.8
	8-10-15	2	7.7	9.6	16.2	0.0	1.4	0.4
	8-10-15ME	2	7.5	10.0	15.7	0.1	3.5	1.3
10-10-10	15	10.0	9.9	11.3	4.2	4.2	6.6	
	ALL GRADES	67	% OF GUAR.			CV		
			99.5	98.2	105.7	3.2	3.7	3.6
OHIO VALLEY FERT., INC. Maysville, Ky.	0-20- 0	3	----	19.1	----	----	2.4	----
	3-12-12	2	3.9	11.1	11.7	1.8	6.3	12.7
	5- 9-14	2	5.4	9.1	15.4	3.9	1.5	1.8
	5-10-10	6	5.9	9.8	9.9	6.1	7.0	6.6

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967
(Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
OHIO VALLEY FERT., INC. Maysville, Ky. (Cont'd)	5-10-15	3	5.5	9.7	15.0	3.1	3.0	7.6
	5-20-20	5	5.7	17.3	19.3	2.3	2.9	5.1
	8-10-15	4	8.0	10.7	14.6	8.2	6.6	7.7
	10-10-10	5	9.8	10.5	9.2	2.6	2.4	9.3
	10-10-20	2	10.5	11.1	17.6	4.0	5.7	2.4
	12-12-12	6	11.4	12.9	12.1	7.1	7.2	13.1
	ALL GRADES	56	% OF GUAR.			CV		
			105.3	100.3	98.6	4.5	4.6	7.7
F. S. ROYSTER GUANO COMPANY Norfolk, Va.	0-20- 0	10	----	19.5	----	---	10.4	---
	0-20-20	3	----	19.4	21.6	---	8.1	11.0
	4-12- 8	4	4.2	12.2	8.8	7.9	1.7	9.8
	4-12- 8ME	9	4.4	12.5	9.1	11.5	3.0	6.9
	4-16- 4	2	4.9	16.3	4.7	0.0	6.5	25.8
	5-10-15	7	5.3	10.8	15.3	4.6	8.2	3.1
	5-10-15ME	29	5.3	10.5	15.3	6.6	4.2	5.7
	5-20-20	28	5.1	19.6	20.9	7.4	5.7	3.7
	6- 6-18	3	5.9	7.1	17.9	4.2	2.9	2.6
	6-12-12	11	6.0	12.4	13.8	7.5	3.1	4.9
	6-12-18	2	5.9	12.5	18.8	1.2	5.6	1.5
	6-24-24	2	5.7	21.6	24.6	2.4	10.8	4.0
	8-10-15	2	8.0	12.2	16.0	0.8	2.9	1.7
	10-10-10	28	10.0	10.5	11.2	2.2	4.0	4.1
	10-10-10ME	2	9.6	10.6	11.7	0.0	0.6	0.6
	10-10-15	3	9.6	11.0	15.3	2.7	3.1	1.3
	10-10-15ME	9	9.4	11.0	15.5	3.0	3.6	5.3
	12-12-12	2	11.5	12.3	13.6	1.8	2.8	1.5
	30- 0- 0	6	29.8	----	----	1.7	---	---
	33.5- 0- 0	2	34.4	----	----	1.4	---	---
ALL GRADES	175	% OF GUAR.			CV			
		100.9	102.2	106.2	4.6	4.9	5.2	
SOUTHERN STATES COOP. Louisville, Ky.	0- 0-60	2	----	----	59.8	---	---	0.4
	0-15-30	5	----	15.5	29.3	---	3.7	4.4
	0-20- 0	2	----	20.0	----	---	0.7	---
	0-20-20	8	----	20.0	21.6	---	2.3	2.5
	3-12-12	5	3.2	12.0	12.9	4.8	2.1	2.5
	4-12- 8	9	4.3	11.6	8.8	6.3	2.4	3.2
	4-16- 4	18	4.1	15.7	5.0	3.4	3.5	5.8
	5-10-15	13	5.1	10.2	15.7	2.8	3.3	2.3
	5-10-20	4	4.9	10.7	20.3	1.9	5.6	4.1
	5-20-20	9	5.1	19.7	21.0	5.8	3.7	5.4
	5-20-20B	2	5.4	21.0	20.8	1.3	0.6	2.7
	6- 6-18	4	6.0	6.7	19.3	0.9	6.7	0.6

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967
(Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
SOUTHERN STATES COOP. Louisville, Ky. (Cont'd)	6- 8- 6	2	6.2	9.0	7.2	1.1	3.9	12.9
	6-12-12	10	6.1	11.9	13.2	2.6	2.4	3.9
	8-10-15	11	7.9	10.7	15.7	3.6	3.4	2.4
	10-10-10	14	10.1	10.6	10.9	2.7	4.3	4.2
	30- 0- 0	5	30.8	----	----	2.4	----	----
	ALL GRADES	125	% OF GUAR.			CV		
		102.0	101.2	106.0	3.3	3.3	3.8	
Russellville, Ky.	0-20-20	2	----	20.7	20.9	---	3.7	2.3
	4-12- 8	7	4.5	11.9	8.9	3.4	4.1	9.1
	4-16- 4	3	4.1	15.8	5.0	5.0	5.0	4.6
	5-10-15	23	5.4	10.0	15.8	5.5	3.3	3.1
	5-15- 5	9	5.3	14.9	6.2	2.1	1.6	6.4
	5-20-20	26	5.2	19.9	20.7	3.2	4.0	4.6
	6-12-12	15	6.5	12.1	12.7	9.3	2.3	4.7
	6-18-12	3	6.4	17.4	13.3	4.7	4.3	0.4
	10-10-10	23	9.9	10.2	10.8	2.4	4.7	6.7
	12-12-12	12	11.9	11.9	12.7	1.9	4.1	3.6
	30- 0- 0	2	30.9	----	----	0.4	----	----
	ALL GRADES	132	% OF GUAR.			CV		
		103.1	100.1	105.8	4.0	3.7	4.8	
Winchester, Ky.	4-12- 8	2	4.1	12.2	8.9	1.7	1.1	4.7
	4-16- 4	2	4.2	15.7	4.8	1.7	2.7	0.0
	5-10-15	11	5.2	10.4	15.4	2.9	2.1	1.5
	5-20-20	7	5.2	19.9	20.3	3.0	2.5	3.4
	6- 6-18	8	6.2	6.8	18.0	2.4	3.2	1.7
	6- 8- 6	4	6.2	8.6	7.0	1.3	4.7	6.4
	6-12-12	7	5.9	12.4	12.6	4.5	2.8	5.2
	8-10-15	8	8.0	10.2	15.4	2.4	5.0	3.6
	ALL GRADES	53	% OF GUAR.			CV		
		101.8	102.8	103.0	2.6	3.1	3.3	
STEWART FERTILIZER COMPANY Mt. Vernon, Ky.	0-20-20	2	----	20.0	21.2	---	1.7	0.0
	4-12- 8	2	4.6	13.8	9.4	13.9	20.9	9.8
	5-10-15	2	6.0	11.7	14.5	1.2	1.8	8.7
	5-20-20	2	5.4	19.9	22.8	30.4	26.7	23.5
	10-10-10	6	10.3	9.9	11.4	9.8	20.6	8.0
	ALL GRADES	16	% OF GUAR.			CV		
		103.1	101.8	110.2	13.2	15.1	9.8	

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1967
(Cont'd)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O
TENNESSEE CORP. New Albany, Ind.	0-25-25	2	----	23.4	27.2	---	1.8	5.4
	3-12-12	2	3.5	12.3	12.9	12.1	4.6	1.6
	4-16- 4	2	4.3	15.3	5.5	1.6	1.4	0.0
	5-10-15	2	5.3	9.9	16.4	2.6	2.8	0.8
	5-20-20	3	5.0	19.6	21.8	2.3	2.5	1.8
	10-10-10	6	10.5	10.4	11.4	3.8	3.1	4.5
	12-12-12	2	12.7	12.2	13.0	0.1	1.1	0.0
	ALL GRADES	21	% OF GUAR.			CV		
		105.5	99.9	111.5	3.7	2.5	2.2	
WARNER FERTILIZER COMPANY Somerset, Ky.	5-20-20	5	5.1	20.6	22.4	14.2	13.1	8.3
	6-12-18	2	5.6	11.1	18.5	14.0	8.3	8.8
	10-10-10	3	9.3	9.9	12.2	16.4	18.1	6.8
	10-10-20	2	8.8	10.1	19.0	1.6	21.0	17.1
	ALL GRADES	20	% OF GUAR.			CV		
		96.3	101.4	104.0	12.1	15.0	9.8	

Summary of Average Percentage of Guaranteed Analysis and Coefficient of Variation by Plant and Company.

AGRICO CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P205	K2O	CV. FOR	N	P205	K2O
MEMPHIS	99.53	101.81	104.37		3.98	4.31	6.02
RELATIVE VALUE AND CV. OF N P205 AND K2O FOR							
AGRICO CHEMICAL COMPANY	99.53	101.81	104.37		3.98	4.31	6.02

ARMOUR AGRI. CHEMICAL CO.							
RELATIVE VALUE FOR	N	P205	K2O	CV. FOR	N	P205	K2O
ATLANTA	100.92	102.32	106.08		4.45	5.23	6.55
CINCINNATI	98.02	103.56	103.28		5.87	4.47	6.98
JEFFERSONVIL	99.84	104.23	103.06		6.32	4.49	6.06
NASHVILLE	100.67	100.19	106.78		6.28	4.28	5.17
RELATIVE VALUE AND CV. OF N P205 AND K2O FOR							
ARMOUR AGRI. CHEMICAL CO.	100.13	102.42	105.06		5.65	4.65	6.15

BLUEGRASS PLANT FOODS, INC.							
RELATIVE VALUE FOR	N	P205	K2O	CV. FOR	N	P205	K2O
CYNTHIANA	99.43	98.33	104.47		3.05	3.35	4.61
DANVILLE	105.51	95.90	108.61		4.61	3.43	4.89
RELATIVE VALUE AND CV. OF N P205 AND K2O FOR							
BLUEGRASS PLANT FOODS, INC.	103.03	96.74	106.91		3.90	3.40	4.76

BURLEY BELT FERTILIZER CO.							
RELATIVE VALUE FOR	N	P205	K2O	CV. FOR	N	P205	K2O
LEXINGTON	100.08	102.06	106.23		4.71	5.95	5.71
RELATIVE VALUE AND CV. OF N P205 AND K2O FOR							
BURLEY BELT FERTILIZER CO.	100.08	102.06	106.23		4.71	5.95	5.71

BURLEY BELT CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P205	K2O	CV. FOR	N	P205	K2O
LONDON	99.19	99.84	104.65		5.64	7.21	5.33
RELATIVE VALUE AND CV. OF N P205 AND K2O FOR							
BURLEY BELT CHEMICAL COMPANY	99.19	99.84	104.65		5.64	7.21	5.33

COMMONWEALTH FERTILIZER CO.							
RELATIVE VALUE FOR	N	P205	K2O	CV. FOR	N	P205	K2O
RUSSELLVILLE	100.64	101.82	101.67		5.16	7.29	9.58
RELATIVE VALUE AND CV. OF N P205 AND K2O FOR							
COMMONWEALTH FERTILIZER CO.	100.64	101.82	101.67		5.16	7.29	9.58

DARLING & COMPANY							
RELATIVE VALUE FOR	N	P205	K2O	CV. FOR	N	P205	K2O
E. ST. LOUIS	97.15	103.82	103.70		3.13	3.39	3.43
RELATIVE VALUE AND CV. OF N P205 AND K2O FOR							
DARLING & COMPANY	97.15	103.82	103.70		3.13	3.39	3.43

Summary of Average Percentage of Guaranteed Analysis and Coefficient of Variation by Plant and Company.

FEDERAL CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
LOUISVILLE	102.93	102.05	105.38		6.03	4.82	6.84
NASHVILLE	102.31	97.99	104.15		4.41	3.89	4.41
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
FEDERAL CHEMICAL COMPANY	102.77	101.02	105.07		5.43	4.48	5.94
GLASGOW FERTILIZER COMPANY							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
GLASGOW	103.15	101.17	103.70		5.21	4.40	6.33
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
GLASGOW FERTILIZER COMPANY	103.15	101.17	103.70		5.21	4.40	6.33
W.R. GRACE & CO.							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
NASHVILLE	102.61	97.84	103.88		4.68	3.03	3.59
NEW ALBANY	102.02	102.76	106.08		4.46	4.29	4.58
HOPKINSVILLE	100.15	102.63	100.50		2.63	4.51	5.14
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
W.R. GRACE & CO.	102.11	101.17	105.10		4.28	3.87	4.30
GRU-GREEN CHEMICAL CO., INC.							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
SHELBYVILLE	104.30	105.60	98.76		4.80	13.50	16.29
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
GRU-GREEN CHEMICAL CO., INC.	104.30	105.60	98.76		4.80	13.50	16.29
GULF OIL CORP., AGRI CHEM DIV							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
CECILIA	105.63	102.73	106.70		6.24	6.08	9.01
CLARKSON	104.22	103.39	108.65		8.59	6.02	15.36
HENDERSON	100.11	0.0	0.0		0.0	0.0	0.0
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
GULF OIL CORP., AGRI CHEM DIV	103.60	103.03	107.57		5.10	6.05	12.02
HUTSON CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
MURRAY	107.70	105.00	99.89		4.17	5.38	5.61
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
HUTSON CHEMICAL COMPANY	107.70	105.00	99.89		4.17	5.38	5.61
INTERNATIONAL MIN & CHEM CORP							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
CINCINNATI	100.23	99.64	106.62		8.58	5.55	7.36
CLARKSVILLE	96.64	97.88	103.99		6.60	6.95	7.22
SOMERSET	100.42	100.09	104.74		4.80	2.67	5.30
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
INTERNATIONAL MIN & CHEM CORP	99.68	99.48	105.83		6.90	4.97	6.66

Summary of Average Percentage of Guaranteed Analysis and Coefficient of Variation by Plant and Company.

KENGAS CORPORATION							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
CWENSBORG	101.55	101.04	99.04		3.17	1.62	0.71
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
KENGAS CORPORATION	101.55	101.04	99.04		3.17	1.62	0.71
KENTUCKY FERTILIZER WORKS							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
WINCHESTER	97.47	100.94	105.68		3.06	3.26	1.70
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
KENTUCKY FERTILIZER WORKS	97.47	100.94	105.68		3.06	3.26	1.70
MOBIL CHEM CO, AGRI CHEM DIV							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
RICHMOND	100.96	103.52	105.39		5.40	4.77	6.29
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
MOBIL CHEM CO, AGRI CHEM DIV	100.96	103.52	105.39		5.40	4.77	6.29
NORTH AMERICAN FERTILIZER CO.							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
LOUISVILLE	99.51	98.23	105.65		3.24	3.78	3.66
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
NORTH AMERICAN FERTILIZER CO.	99.51	98.23	105.65		3.24	3.78	3.66
CHIC VALLEY FERTILIZER, INC.							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
MAYSVILLE	105.31	100.30	98.61		4.59	4.68	7.70
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
OHIO VALLEY FERTILIZER, INC.	105.31	100.30	98.61		4.59	4.68	7.70
F. S. ROYSTER GUANO COMPANY							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
NORFOLK	100.92	102.20	106.17		4.61	4.92	5.26
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
F. S. ROYSTER GUANO COMPANY	100.92	102.20	106.17		4.61	4.92	5.26
SEARS ROEBUCK & COMPANY							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
CHICAGO	99.38	108.81	115.88		0.91	3.93	1.43
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
SEARS ROEBUCK & COMPANY	99.38	108.81	115.88		0.91	3.93	1.43

Summary of Average Percentage of Guaranteed Analysis and Coefficient of Variation by Plant and Company.

SMITH-DOUGLASS COMPANY, INC.							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
NORFOLK	101.03	103.71	103.20		0.44	5.41	2.56
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
SMITH-DOUGLASS COMPANY, INC.	101.03	103.71	103.20		0.44	5.41	2.56
SOUTHERN STATES COOPERATIVE							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
LOUISVILLE	102.00	101.23	105.59		3.31	3.35	3.81
RUSSELLVILLE	103.06	100.06	105.81		4.02	3.70	4.83
WINCHESTER	101.77	102.81	103.01		2.67	3.14	3.31
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
SOUTHERN STATES COOPERATIVE	102.43	101.01	105.39		3.43	3.43	4.08
STANLEY CROP SERVICE							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
STANLEY	106.57	107.70	94.48		8.33	8.65	19.57
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
STANLEY CROP SERVICE	106.57	107.70	94.48		8.33	8.65	19.57
STEWART FERTILIZER SERVICE							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
MT. VERNON	103.10	101.77	110.23		13.24	15.18	9.86
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
STEWART FERTILIZER SERVICE	103.10	101.77	110.23		13.24	15.18	9.86
TENNESSEE CORPORATION							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
NEW ALBANY	105.57	99.93	111.51		3.76	2.57	2.27
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
TENNESSEE CORPORATION	105.51	99.93	111.51		3.76	2.57	2.27
WARNER FERTILIZER COMPANY							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
SOMERSET	96.27	101.35	104.04		12.11	15.06	9.88
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
WARNER FERTILIZER COMPANY	96.27	101.35	104.04		12.11	15.06	9.88

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

AGRICO CHEMICAL COMPANY			MEMPHIS		TENN		XS CL	RV	PHYS
GRADE		NUM	N	APA	POT				
0-9-27M	W/B	18043	0.0	10.4	25.6*		103	12	
0-20-0		17320	0.0	20.6	0.0		103	11	
0-20-0		18933	0.0	20.0	0.0		100	13	
0-20-0		16976	0.0	21.5	0.0		107	15	
0-20-0		18458	0.0	19.9	0.0		99	15	
0-20-0		18764	0.0	20.8	0.0		104	15	
0-20-20M		18829	0.0	20.9	20.0		103	13	
0-20-20M		19109	0.0	20.1	19.4*		99	15	
0-20-20M		19498	0.0	20.6	21.1		104	15	
0-20-20M		17771	0.0	21.0	20.1		103	15	
0-20-20M		18009	0.0	21.5	21.1		107	15	
0-25-25M		18830	0.0	24.1*	25.8		99	13	
0-25-25M		18040	0.0	24.1*	26.7		100	15	
0-25-25M	W/B	18932	0.0	23.7*	26.5		99	15	
3-9-6M		18041	3.3	9.2	7.0		107	12	
4-9-3S		17646	4.3	9.7	4.9	*	112	11	
4-12-8M		17615	4.6	12.6	8.7		108	11	
4-12-8M		17318	4.6	12.3	9.6		109	13	
4-12-8M		18345	4.1	12.6	8.7		105	15	
4-16-4S		16970	3.9	16.0	4.2		100	11	
4-16-4S		17065	4.1	16.3	4.3		103	11	
4-16-4S		17156	4.1	16.0	4.3		101	11	
4-16-4S		17242	4.0	16.4	4.5		103	11	
4-16-4S		17243	4.0	15.8	4.3		100	11	
4-16-4S		17249	3.9	16.5	4.3		103	11	
4-16-4S		17413	3.9	16.3	4.3		101	11	
4-16-4S		17419	3.8	16.4	4.2		101	11	
4-16-4S		17266	4.1	16.4	4.4		103	13	
4-16-4S		17415	4.0	16.0	5.0		102	13	
4-16-4S		16852	4.0	16.5	4.6		103	15	
5-10-10M		17679	4.9	10.3	10.6		102	13	
5-10-10M		19490	4.6*	10.0	10.4		98	15	
5-10-15M		17414	4.7	10.3	15.3		100	15	
5-10-15S		18828	5.6	10.6	16.1		103	11	
5-10-15S		16719	5.0	10.0	15.9		102	13	
5-10-15S		17265	4.8	10.3	15.2		101	13	
5-10-15S		17316	5.0	10.7	15.1		103	13	
5-10-15S		17319	5.2	10.8	15.1		104	13	
5-10-15S		17649	5.1	10.0	15.7		102	13	
5-10-15S		16716	5.3	10.0	16.3		104	15	
5-10-15S		16774	5.0	10.4	15.4		102	15	
5-10-15S		16832	4.3*	11.1	14.7	*	99	15	
5-10-15S		16972	5.0	10.3	15.1		101	15	
5-10-15S		16973	5.1	10.5	15.2		103	15	
5-10-15S		17128	5.0	10.1	15.9		102	15	
5-10-15S		17186	5.3	10.8	14.6		104	15	
5-10-15S		17250	4.9	10.4	14.7		100	15	
5-10-15S		19495	5.1	10.2	15.5		103	15	
5-10-15S		19642	5.0	9.8	15.2		100	15	
5-10-15S		17762	5.2	9.9	15.2		101	15	
5-10-15S		18081	5.0	10.2	16.4		103	15	
5-10-15S		18087	5.3	10.9	17.0		109	15	
5-10-15S		18342	5.2	10.1	16.1		104	15	
5-10-15S		18343	5.3	10.1	15.2		103	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

AGRICOL CHEMICAL COMPANY		MEMPHIS		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-10-15S	18443	5.4	10.0	16.0		104	15	
5-10-15S	18010	5.1	10.3	15.7		103	15	
5-10-15S	18030	5.5	10.0	15.3		104	16	
5-10-15S	18714	5.5	10.2	16.6		107	15	
5-10-15S	18763	5.2	10.6	15.3		104	15	
5-10-15S	19007	5.3	10.2	15.3		103	15	
5-10-15S	19108	5.3	10.2	15.9		105	15	
5-10-15S	19426	5.4	10.0	15.5		103	15	
5-20-10M	17041	5.4	20.1	10.1		102	15	
5-20-10M	18827	4.8	18.6*	11.4		97*	15	
5-20-10M	17644	5.4	19.8	11.0		102	16	
5-20-20M	16974	5.2	18.7*	20.5		98	13	
5-20-20M	18831	5.3	18.9*	21.7		100	13	
5-20-20M	18042	5.3	18.8*	21.6		100	14	
5-20-20M	16775	5.6	21.5	17.8*		103	15	
5-20-20M	17039	6.0	17.8*	18.6*		96*	15	
5-20-20M	17252	5.2	20.3	20.1		102	15	
5-20-20M	17264	5.3	20.4	20.1		102	15	
5-20-20M	18898	5.4	19.6	20.9		102	15	
5-20-20M	19014	5.3	19.0*	19.0*		97*	15	
5-20-20M	19049	5.2	19.9	19.1*		100	15	
5-20-20M	19110	4.9	18.8*	19.0*		95*	15	
5-20-20M	19488	4.5*	20.1	20.2		99	23	
5-20-20M	17317	5.2	19.7	17.1*		96*	15	
5-20-20M	17330	5.7	21.0	17.7*		102	15	
5-20-20M	17526	5.2	18.9*	21.2		100	15	
5-20-20M	19497	5.0	19.9	21.0		101	15	
5-20-20M	17616	7.6	20.4	11.3*		100	15	
5-20-20M	17772	5.0	20.6	20.0		102	15	
5-20-20M	17777	4.9	20.1	19.6		99	15	
5-20-20M	18008	5.2	20.2	20.8		102	15	
5-20-20M	18414	4.8	18.7*	21.3		97*	15	
5-20-20M	17510	5.4	18.7*	21.0		99	16	
5-20-20M	18031	5.0	19.9	20.7		101	16	
6- 6-18S	19512	5.8	6.6	19.0		104	15	
6- 6-18S	19612	5.8	6.4	18.2		101	15	
6- 6-18S	17764	5.4*	8.6	17.4*		106	15	
6- 6-18S	18446	5.7*	6.9	18.4		103	15	
6- 6-18S	18461	5.5*	6.9	18.4		101	15	
6-12-12M	16773	5.9	12.1	12.8		101	15	
6-12-12M	16863	6.3	12.3	13.3		105	15	
6-12-12M	16880	5.9	11.6*	13.5		101	15	
6-12-12M	16971	5.9	12.8	12.3		103	15	
6-12-12M	17053	5.1*	10.9*	19.9		106	15	
6-12-12M	18897	6.0	12.1	12.7		102	15	
6-12-12M	19099	5.9	12.5	11.4*		100	15	
6-12-12M	19107	6.1	12.5	12.7		104	15	
6-12-12M	19428	6.1	11.8	13.3		102	15	
6-12-12M	19489	5.9	13.1	11.9		104	15	
6-12-12M	17617	5.9	12.0	12.8		101	15	
6-12-12M	17648	5.9	11.7	13.9		102	15	
6-12-12M	17957	5.7	11.2*	16.2		103	15	
6-12-12M	18080	5.9	11.8	13.5		101	15	
6-12-12M	18086	5.9	11.7	13.7		101	15	
6-12-12M	18532	6.3	12.1	12.1		102	15	
6-24-24M	18950	6.1	24.4	23.3*		100	15	
6-24-24M	17650	6.6	22.0*	25.3		99	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

AGRICO CHEMICAL COMPANY		MEMPHIS		TENN	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
6-24-24M	18952	6.3	24.4	23.7		102	16
8- 8-18S	17315	7.2*	8.0	18.0		96*	13
8- 8-18S	17251	8.1	9.7	16.2*	*	103	15
8- 8-18S	19633	7.9	8.3	18.0		101	15
8- 8-18S	17761	7.7*	8.1	18.7		100	15
8- 8-18S	17763	7.7*	8.0	19.3		101	15
8- 8-18S	18459	7.4*	7.8	19.3		98	15
8- 8-18S	18614	7.6*	8.5	18.4		100	16
8-16- 8M	19461	8.0	15.6	9.0		100	13
8-16- 8M	18715	8.0	16.6	9.9		105	15
10- 6- 4M	19460	9.9	6.9	4.8		105	15
10- 6- 4M	19513	9.9	6.6	4.7		103	15
10- 8- 8M	18716	10.6	9.2	9.0		110	15
10-10-10M	17876	10.0	10.1	11.1		102	13
10-10-10M	18344	9.7	9.9	10.6		99	13
10-10-10M	16720	10.0	10.3	10.8		102	14
10-10-10M	16705	9.3*	10.8	10.8		100	15
10-10-10M	16715	10.0	9.7	11.1		101	15
10-10-10M	16883	10.0	10.7	10.5		103	15
10-10-10M	17125	9.7	10.2	11.6		102	15
10-10-10M	17260	8.4*	10.0	10.1		92*	15
10-10-10M	17267	9.7	10.2	10.2		99	15
10-10-10M	18826	9.3*	10.6	10.8		100	15
10-10-10M	18899	9.6*	10.5	10.8		101	15
10-10-10M	18934	9.1*	10.6	11.5		100	15
10-10-10M	19050	9.1*	10.8	11.6		101	15
10-10-10M	19427	9.7	10.3	10.8		101	15
10-10-10M	19462	9.2*	11.5	10.7		102	15
10-10-10M	19496	9.6*	10.3	11.1		101	15
10-10-10M	17618	9.1*	10.0	10.4		96*	15
10-10-10M	17647	9.6*	10.0	11.8		101	15
10-10-10M	17758	10.2	9.7	10.5		101	15
10-10-10M	17773	10.3	9.8	10.1		101	15
10-10-10M	17778	9.5*	9.9	10.2		98	15
10-10-10M	18079	9.7	10.3	11.0		101	15
10-10-10M	18088	10.3	10.1	11.0		104	15
10-10-10M	18329	10.8	9.9	8.8*		102	15
10-10-10M	18341	9.7*	10.5	10.8		101	15
10-10-10M	18447	9.5*	9.9	10.0		97*	15
10-10-10M	18533	9.4*	10.5	10.4		99	15
12- 4- 8M	16882	11.5*	5.8	8.2		105	15
12-12-12M	16776	12.0	12.1	13.0		102	15
12-12-12M	16975	11.3*	13.5	12.3		102	15
12-12-12M	17054	10.8*	13.0	12.1		98	15
12-12-12M	18951	12.3	12.2	12.5		102	15
12-12-12M	19641	11.8	12.1	12.3		100	15
12-12-12M	17760	12.1	12.0	12.7		101	15
12-12-12M	18082	12.3	13.0	11.4*		103	15
12-12-12M	18340	12.2	12.3	12.1		102	15
16- 8- 8M	16881	15.8	8.6	7.5*		100	15
16- 8- 8M	17253	15.2*	9.7	8.1		101	15
16- 8- 8M	19023	13.8*	9.5	10.8		99	15
16- 8- 8M	19503	16.7	8.9	8.4		106	17
16- 8- 8M	19514	15.1*	9.3	8.6		101	15
16- 8- 8M	19611	15.8	8.0	8.3		100	15
16- 8- 8M	17759	16.0	8.6	8.3		102	15
16- 8- 8M	18460	15.5	8.6	8.7		100	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

AGRICOL CHEMICAL COMPANY		MEMPHIS		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
20-20-5M	19504	16.9*	20.1	7.0			93*	15
30-0-0	17084	30.6	0.0	0.0			102	19
30-0-0	19591	30.5	0.0	0.0			102	19
82-0-0	18102	82.0	0.0	0.0			100	19
82-0-0	18111	82.0	0.0	0.0			100	19
82-0-0	18113	82.0	0.0	0.0			100	19
82-0-0	18114	82.0	0.0	0.0			100	19
82-0-0	18122	82.0	0.0	0.0			100	19
82-0-0	18123	82.0	0.0	0.0			100	19
82-0-0	18125	82.0	0.0	0.0			100	19
82-0-0	18390	82.0	0.0	0.0			100	19
82-0-0	19169	82.0	0.0	0.0			100	19
82-0-0	19170	81.5	0.0	0.0			99	19
82-0-0	19171	82.0	0.0	0.0			100	19
82-0-0	19175	82.0	0.0	0.0			100	19
82-0-0	19179	82.0	0.0	0.0			100	19
82-0-0	19186	82.0	0.0	0.0			100	19
82-0-0	19190	82.0	0.0	0.0			100	19
ALLIED CHEMICAL CORPORATION		HOPEWELL		VA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-20-0	17521	0.0	19.2*	0.0			96*	11
10-10-10M	17522	9.7*	10.9	10.8			103	15
33-0-0	18779	34.8	0.0	0.0			104	17
33-0-0	19042	34.6	0.0	0.0			103	17
ARMOUR AGRI. CHEMICAL CO.		ATLANTA		GA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-0-50S	18742	0.0	0.0	52.3			105	11
0-0-50S	18762	0.0	0.0	50.6			101	11
0-0-52S	17429	0.0	0.0	52.9			102	11
0-20-0	17365	0.0	21.0	0.0			105	15
0-20-0	18396	0.0	15.8*	0.0			79*	15
0-20-0	19254	0.0	20.4	0.0			102	15
0-20-20M	19090	0.0	19.7	21.1			101	13
0-20-20M	19064	0.0	16.3*	17.6*			84*	15
0-25-25M	18759	0.0	26.6	25.1			104	15
0-25-25M	19467	0.0	22.8*	22.3*			91*	15
0-46-0	17881	0.0	47.0	0.0			102	15
0-46-0	18697	0.0	45.1*	0.0			98	15
3-12-6M	19238	3.5	12.1	7.2			108	15
3-12-6M	18245	3.9	12.0	8.4			113	15
4-12-8M	18698	4.0	11.8	8.8			101	15
4-12-8M	19210	3.9	11.6*	8.7			99	15
4-12-12M	19061	4.9	12.1	10.7*			104	15
4-16-4M	18077	4.1	13.7*	6.0			95*	11
4-16-4S	16933	4.7	15.8	7.2	*		110	11
4-16-4S	17078	3.9	16.0	4.9			101	13
5-5-0	18749	4.6*	7.2	0.0			112	11
5-10-5M	18723	5.3	11.3	5.1			109	15
5-10-5M	19658	5.5	9.8	4.8			102	15
5-10-5S	16685	4.9	9.8	7.0			103	11
5-10-5S	17059	4.9	9.6*	5.8	*		100	11
5-10-5S	17063	5.1	9.2*	5.8	*		93	11
5-10-5S	17133	5.2	10.0	6.3	*		104	11
5-10-5S	17157	5.2	10.3	6.0	*		106	11
5-10-5S	17244	4.7*	11.5	8.6			114	11
5-10-5S	17421	4.6*	11.8	6.1			109	11
5-10-5S	17562	4.9	11.9	6.8	*		113	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

ARMOUR AGRI. CHEMICAL CO. GRADE	NUM	ATLANTA		GA.		XS CL	RV	PHYS
		N	APA	POT				
5-10-5S	17569	4.9	9.8	6.3	*	101	11	
5-10-5S	18373	4.8	8.3*	6.3	*	93*	11	
5-10-5S	17461	5.2	10.9	6.9	*	110	13	
5-10-5S	17241	4.9	11.0	6.4	*	108	15	
5-10-5S	19662	4.6*	9.9	6.1	*	99	15	
5-10-10M	16815	4.5*	9.0*	12.8		98	11	
5-10-10M	19093	4.8	12.6	13.6		118	13	
5-10-10M	19592	4.6*	10.4	11.4		102	15	
5-10-15S	17212	4.7	11.3	14.5*		103	13	
5-10-15S	17460	5.5	10.1	15.1	*	103	13	
5-10-15S	17465	5.1	10.5	16.0		105	13	
5-10-15S	17907	5.5	9.7	14.1*	*	100	13	
5-10-15S	18395	4.8	10.3	15.8		102	13	
5-10-15S	19088	5.1	10.3	13.5*	*	99	13	
5-10-15S	18622	4.8	10.3	15.7		101	15	
5-10-15S	18641	4.9	9.7	16.7		102	15	
5-10-15S	18745	5.0	10.3	16.1		104	15	
5-10-15S	19060	4.9	10.3	15.2		101	15	
5-10-15S	19085	4.7*	10.7	15.7		102	15	
5-10-15S	19265	4.5*	9.9	15.7		98	15	
5-10-15S	19266	4.7*	11.1	15.5	*	104	15	
5-10-15S	19379	5.2	10.0	15.9		103	15	
5-10-15S	19382	4.9	10.8	15.2		103	15	
5-20-20M	17910	5.4	19.6	20.3		101	13	
5-20-20M	18599	5.4	20.3	20.8		103	15	
5-20-20M	18676	4.7*	19.8	20.2		98	15	
5-20-20M	18757	5.1	20.8	20.8		103	15	
5-20-20M	19089	5.3	19.8	19.3*		100	15	
5-20-20M	19096	5.1	18.8*	21.0		99	15	
5-20-20M	19264	4.9	19.8	20.1		99	15	
5-20-20M	17652	5.4	19.3*	20.6		101	15	
5-20-20M	17888	4.7*	18.8*	19.5*		95*	15	
5-20-20M	18258	4.9	19.9	19.1*		98	15	
6-12-12M	17462	6.4	12.3	12.4		104	13	
6-12-12M	18078	5.8	12.3	13.6		103	13	
6-12-12M	19458	5.5*	13.5	13.4		105	13	
6-12-12M	17179	6.1	12.3	13.9		105	15	
6-12-12M	17199	6.0	12.0	12.8		102	15	
6-12-12M	18626	5.7*	12.3	13.4		102	15	
6-12-12M	18642	6.9	11.8	13.6		107	15	
6-12-12M	19323	5.9	11.7	12.5		99	15	
6-12-12M	17366	6.0	12.2	12.8		102	15	
6-12-12M	19466	5.7	12.3	12.6		101	15	
6-12-12M	19594	5.9	12.0	12.3		100	15	
6-12-12M	19595	6.4	11.0*	13.2		101	15	
6-12-12M	19675	5.9	12.9	12.1		103	15	
6-12-12M	17890	6.6	12.3	13.0		106	15	
6-12-12M	17909	6.0	12.0	12.5		101	15	
6-12-12M	17967	6.0	11.1*	14.5		101	15	
6-12-12M	18397	5.7*	12.4	13.5		102	15	
6-12-12S	18403	5.9	11.5*	13.6		100	13	
6-12-18S	17463	6.4	11.8	19.2	*	103	13	
6-12-18S	17655	6.8	12.0	17.5*		103	13	
6-12-18S	17909	5.7*	13.8	16.9*	*	102	13	
6-12-18S	18019	5.7*	12.3	18.6		101	15	
6-12-18S	18398	5.6*	12.6	18.1		100	15	
6-12-18S	18600	5.7	12.1	18.9		100	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

ARMOUR AGRI. CHEMICAL CO.		ATLANTA		GA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
6-12-18S	18627	5.7*	12.6	20.0		104	15	
6-12-18S	18744	6.0	12.6	18.6		103	15	
6-12-18S	18890	5.7*	11.7	18.6		98	15	
6-12-18S	19233	5.8	11.6*	18.2		97*	15	
6-12-18S	19252	5.4*	12.6	18.6		100	15	
6-12-18S	19267	5.6*	11.7	17.9		97*	15	
6-12-18S	19459	5.9	12.6	18.1	*	102	15	
6-24-24M	19058	6.0	24.1	24.8		101	15	
6-24-24M	19572	5.9	23.3*	25.7		100	15	
8-10-15S	17428	7.7	9.8	15.5	*	99	13	
8-10-15S	18404	7.9	9.7	14.9		98	13	
8-10-15S	18322	8.1	10.0	15.4		101	15	
10- 6- 4M	19659	10.5	7.1	5.8		112	15	
10- 6- 4M	18524	9.9	6.7	4.3		103	15	
10- 6- 4M W/ME	17669	9.5*	6.3	5.3		101	13	
10-10-10M	17198	9.4*	11.0	10.7		101	15	
10-10-10M	17259	9.9	11.2	9.9		103	15	
10-10-10M	18758	9.9	11.0	9.1*		101	15	
10-10-10M	18928	8.4*	14.4	14.4		114	15	
10-10-10M	19095	9.9	11.0	10.4		103	15	
10-10-10M	19256	9.8	10.5	10.8		102	15	
10-10-10M	19593	10.8	9.5*	11.1		104	15	
10-10-10M	17892	10.6	9.7	10.1		102	15	
10-10-10M	17966	10.9	9.3*	11.0		104	15	
10-10-10M	18259	10.5	10.0	10.2		102	15	
10-10-10M	18347	10.4	10.9	9.9		105	15	
10-10-10M	18401	10.0	9.7	11.9		102	15	
10-10-10M	18409	10.4	9.5*	9.9		100	15	
12-12-12M	18696	12.1	13.2	12.5		104	15	
12-12-12M	19091	11.2*	13.0	12.2		100	15	
12-24-24M	18604	12.1	25.1	23.4*		102	15	
12-24-24M	18181	12.2	25.2	25.1		104	15	
15-15-15M	18777	14.6	16.6	16.0		103	15	
15-15-15M	19255	14.9	15.9	16.7		103	15	
15-15-15M	18741	14.4*	16.0	16.9		102	17	
15-15-15M	19316	15.3	16.0	16.6		105	17	
15-15-15M	17338	15.2	15.8	16.3		104	15	
15-15-15M	17638	15.5	15.7	16.1		104	15	
15-15-15M	17883	14.4*	15.5	16.5		101	15	
15-15-15M	18164	15.3	15.6	16.4		104	15	
15-15-15M	18320	15.4	15.9	16.1		105	15	
15-40- 5M	19063	15.4	41.3	6.0		104	15	
15-40- 5M	17882	15.3	41.3	6.0		103	17	
15-40- 5M	18746	15.2	41.5	5.4		103	17	
15-40- 5M	18018	15.3	41.8	6.0		104	15	
16- 4- 8M W/ME	19596	14.7*	4.6	8.9		97*	15	
16- 4- 8M W/ME	18743	16.7	3.9	9.4		105	15	
18- 6- 9M	19660	15.8*	8.0	10.8		99	15	
18- 6- 9M W/ME	16816	17.4*	7.8	10.7		105	15	
18- 6- 9M W/ME	19597	17.1*	6.3	8.9		97*	15	
33- 0- 0	16667	34.3	0.0	0.0		102	15	
33- 0- 0	16864	33.9	0.0	0.0		101	15	
33- 0- 0	16927	33.9	0.0	0.0		101	15	
33- 0- 0	17013	33.4	0.0	0.0		100	15	
33- 0- 0	16949	34.1	0.0	0.0		102	17	
33- 0- 0	17337	36.5	0.0	0.0		109	17	
33- 0- 0	17356	33.8	0.0	0.0		101	17	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

ARMOUR AGRIC. CHEMICAL CO.		ATLANTA		GA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
33- 0- 0	17368	35.2	0.0	0.0			105	17
33- 0- 0	17430	34.1	0.0	0.0			102	17
33- 0- 0	17841	34.0	0.0	0.0			102	17
33- 0- 0	19005	34.4	0.0	0.0			103	17
33- 0- 0	19253	33.9	0.0	0.0			101	17
45- 0- 0	19059	44.9	0.0	0.0			100	15
82- 0- 0	19078	82.0	0.0	0.0			100	19
ARMOUR AGRIC. CHEMICAL CO.		CHEROKEE		ALA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
8-32-16M	18959	8.5	32.1	19.2			105	16
12-24-24M	18044	11.2*	24.6	24.9			100	17
15-15-15M	18045	15.2	16.0	16.4			105	17
15-40- 5M	18046	15.3	41.5	6.0			104	17
28- 0- 0	16743	28.8	0.0	0.0			103	19
28- 0- 0	16747	28.4	0.0	0.0			102	19
28- 0- 0	18562	28.2	0.0	0.0			101	19
82- 0- 0	18100	82.0	0.0	0.0			100	19
82- 0- 0	18110	82.0	0.0	0.0			100	19
82- 0- 0	18127	82.0	0.0	0.0			100	19
82- 0- 0	18129	82.0	0.0	0.0			100	19
82- 0- 0	18386	82.0	0.0	0.0			100	19
82- 0- 0	19165	82.0	0.0	0.0			100	19
82- 0- 0	19166	82.0	0.0	0.0			100	19
82- 0- 0	19167	82.0	0.0	0.0			100	19
82- 0- 0	19168	82.0	0.0	0.0			100	19
82- 0- 0	19180	82.0	0.0	0.0			100	19
82- 0- 0	19181	82.0	0.0	0.0			100	19
82- 0- 0	19191	82.0	0.0	0.0			100	19
ARMOUR AGRIC. CHEMICAL CO.		CINCINNATI		OHIO		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-20- 0	17653	0.0	20.1	0.0			100	13
0-20-20M W/B	17927	0.0	19.8	20.4			100	15
3-12-12M	17929	3.5	12.9	12.3			108	15
4-12- 3M	16701	5.0	13.0	10.6			117	15
4-12- 3M	18972	4.8	12.6	10.0			113	15
5-10- 5S	17944	5.0	10.8	6.1			106	11
5-10- 5S	17247	5.2	10.7	8.2	*		113	15
5-10-10M	16702	5.2	11.2	10.1			107	15
5-10-10M	16993	5.0	10.6	10.5			104	15
5-10-10M	18979	4.9	10.9	12.8			109	15
5-10-10M	19640	5.1	11.2	11.6			110	15
5-10-10M	17925	5.1	10.6	10.7			105	15
5-10-15S	16925	4.5*	11.9	13.3*	*		101	11
5-10-15S	16862	4.9	10.4	14.9			101	13
5-10-15S	16926	4.6*	11.8	14.5*			104	13
5-10-15S	17211	4.4*	11.5	13.1*	*		99	13
5-10-15S	16772	5.6	10.6	14.0*			104	15
5-10-15S	17494	5.2	9.9	15.8			102	15
5-10-15S	19474	4.8	10.5	15.9			103	15
5-10-15S	19626	4.0*	11.7	15.4	*		102	15
5-10-15S	19639	4.9	10.3	14.7			100	15
5-10-15S	17564	5.0	10.5	15.2	*		102	15
5-10-15S	17674	5.7	10.0	14.0*			102	15
5-10-15S	17941	5.1	10.7	15.1			103	15
5-10-15S	17943	4.4*	11.2	14.9			101	15
5-10-15S	18971	4.7*	9.4*	16.8			100	15
5-20-20M	19206	5.0	19.8	20.2			100	14

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

ARMOUR AGRI. CHEMICAL CO.		CINCINNATI		OHIO		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-20-20M	16901	5.4	20.4	18.6*		101	15	
5-20-20M	16928	5.2	19.7	20.5		101	15	
5-20-20M	17213	5.1	19.3*	20.5		99	15	
5-20-20M	17232	5.3	20.3	19.2*		101	15	
5-20-20M	17924	5.0	19.1*	20.7		98	17	
5-20-20M	19477	4.9	19.2*	21.9		100	15	
5-20-20M	19624	4.2*	19.2*	20.8		96*	15	
5-20-20M	17675	5.1	20.9	19.0*		102	15	
5-20-20M	18402	5.2	19.2*	21.6		101	15	
5-20-20M W/B	17930	5.0	18.1*	19.3*		94*	15	
6- 6-18S	17656	6.4	7.2	18.7	*	109	13	
6- 6-18S	16994	5.2*	8.2	17.8	*	104	15	
6- 6-18S	17499	5.6*	7.2	18.2		103	15	
6- 6-18S	19472	5.6*	8.2	18.8	*	108	15	
6-12-12M	16703	5.9	12.3	11.3*		99	15	
6-12-12M	19625	6.6	11.8	11.2*		101	15	
6-12-12M	17676	5.9	13.5	18.7		117	15	
6-12-12M	17964	5.6*	12.3	12.3		100	15	
6-12-12M	17968	5.6*	12.0	12.1		98	15	
6-12-12M	18334	8.5	17.8	16.5		144	15	
6-12-12M	19205	5.6*	11.7	12.9		99	16	
6-12-12M	19402	5.3*	12.9	13.5		102	15	
6-12-18S	17493	6.2	13.9	16.4*	*	105	13	
6-12-18S	17231	4.9*	10.1*	7.5*		71*	15	
6-12-18S	19473	6.0	12.2	19.0		102	15	
6-12-18S	19621	5.6*	12.0	18.2		98	15	
6-12-18S	17940	6.1	12.0	18.1	*	100	15	
10-10-10M	18973	9.4*	9.9	11.9		100	15	
10-10-10M	17498	10.7	9.4*	11.8		104	15	
10-10-10M	19475	9.7	10.9	11.8		104	15	
10-10-10M	19478	9.2*	10.3	11.1		99	15	
10-10-10M	19627	9.8	10.7	10.4		102	15	
10-10-10M	17571	9.9	10.1	11.3		102	15	
10-10-10M	17677	10.8	10.0	10.2		104	15	
10-10-10M	17926	9.7	10.8	11.1		103	15	
10-10-20S	19476	9.5*	11.8	18.8*	*	101	15	
12-12-12M	19094	11.4*	13.3	13.0		102	15	
12-12-12M	19622	11.0*	12.7	12.5		98	15	
12-12-12M	17928	11.4*	13.2	13.5		103	15	
12-12-12M	17942	10.9*	13.0	14.0		101	15	
18- 6- 9M W/ME	17466	17.1*	7.2	7.8*		98	15	
18-46- 0	18321	16.7*	42.7*	0.0		93*	15	
ARMOUR AGRI. CHEMICAL CO.		FORT MEADE		FLA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-46- 0	16919	0.0	45.8	0.0		100	15	
ARMOUR AGRI. CHEMICAL CO.		JEFFERSONVILLIND.			XS CL	RV	PHYS	
GRADE	NUM	N	APA	POT				
0- 0-62M	16948	0.0	0.0	59.6*		96*	11	
0- 0-62M	16957	0.0	0.0	61.9		100	17	
0- 0-62M	17433	0.0	0.0	61.9		100	15	
0- 0-62M	18471	0.0	0.0	61.6		99	15	
4-12- 8M	18677	4.1	10.8*	9.3		98	15	
4-12- 8M	19251	4.0	10.5*	9.3		96*	15	
4-12- 8M	17788	4.4	12.7	10.7		112	15	
4-12- 8M	17848	11.6	13.3	11.7		166	15	
4-12- 8M	18479	4.4	11.9	8.6		103	16	
5-10- 5S	17073	5.2	9.7	6.5	*	104	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

ARMOUR AGRI. CHEMICAL CO.		JEFFERSONVILLIND.				XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-10-10M	17432	5.5	10.2	11.0		106	15	
5-10-10M	17572	5.5	10.0	12.3		109	16	
5-10-15M	18720	4.4*	10.6	14.0*		97*	15	
5-10-15S	16938	4.7*	10.4	16.4		102	11	
5-10-15S	18314	4.7*	10.9	15.2		102	11	
5-10-15S	16769	4.8	10.1	16.9		103	13	
5-10-15S	16802	4.5*	10.3	16.6		101	13	
5-10-15S	16940	5.0	11.1	14.4*	*	103	13	
5-10-15S	16992	4.9	10.9	15.1		103	13	
5-10-15S	17255	4.9	10.9	14.4*		102	13	
5-10-15S	17367	4.6*	10.8	15.4		102	13	
5-10-15S	17412	5.0	10.3	16.7		105	13	
5-10-15S	16834	4.9	10.1	16.4		102	15	
5-10-15S	17254	4.9	10.3	17.8		106	15	
5-10-15S	17325	5.0	10.8	14.6*		102	15	
5-10-15S	17333	4.8	11.5	13.4*		102	15	
5-10-15S	17334	4.4*	10.3	16.6		101	15	
5-10-15S	17355	4.8	10.3	16.6		103	15	
5-10-15S	17787	5.2	10.9	15.7	*	106	15	
5-10-15S	17847	4.4*	10.5	14.5*		97*	15	
5-10-15S	17889	5.1	9.7	16.4		102	15	
5-10-15S	17891	5.8	11.2	13.4*	*	106	15	
5-10-15S	17938	5.6	10.9	13.5*		104	15	
5-10-15S	18348	4.9	9.6*	16.8		102	15	
5-10-15S	18470	5.2	10.2	13.9*		100	15	
5-10-15S	17573	5.1	10.3	15.1	*	102	16	
5-10-15S	18761	4.8	11.5	15.2	*	105	15	
5-10-15S	18778	5.5	11.3	13.9*		106	15	
5-10-15S	18965	5.3	9.9	14.2*		100	15	
5-10-15S	18966	4.4*	10.6	15.1	*	99	15	
5-20-20M	16758	4.9	19.7	21.0		100	15	
5-20-20M	16958	5.0	19.8	20.0		99	15	
5-20-20M	17003	5.6	21.8	18.8*		106	15	
5-20-20M	17257	5.2	19.6	20.5		100	15	
5-20-20M	18673	4.7*	19.9	20.2		99	15	
5-20-20M	18963	4.9	20.0	20.4		100	17	
5-20-20M	17845	4.6*	20.1	20.8		100	15	
5-20-20M	16759	5.2	20.6	19.4*		102	16	
5-20-20M	18480	5.2	20.7	18.5*		101	16	
5-20-20M	18694	4.7	20.2	20.7		100	16	
6-12-12M	17411	7.0	11.9	11.3*		104	15	
6-12-12M	18144	5.6*	12.6	12.1		100	15	
6-12-12M	19617	6.0	12.1	12.6		101	16	
6-12-12S	17657	5.2*	13.8	15.7	*	109	13	
6-12-18S	19395	7.7	12.3	19.2		111	14	
6-12-18S	16803	5.8	13.8	18.6	*	106	15	
6-12-18S	16939	6.0	13.0	17.6		102	15	
6-12-18S	16956	5.8	12.8	19.0		103	15	
6-12-18S	16990	5.9	12.8	18.1		102	15	
6-12-18S	17256	6.1	12.3	19.8		104	15	
6-12-18S	17339	5.7*	12.6	19.8		103	15	
6-12-18S	17410	5.6*	12.8	19.4		103	15	
6-12-18S	19610	5.6*	12.9	17.7		100	15	
6-12-18S	18313	6.0	12.4	18.6		102	15	
6-12-18S	18486	5.8	12.8	19.0		104	15	
6-12-18S	18672	6.0	12.6	18.5		102	15	
6-12-18S	18699	5.8	12.3	18.8		102	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

ARMOUR AGRI. CHEMICAL CO.		JEFFERSONVILLIND.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
6-12-18S	19086	5.9	12.8	18.1		102	15
10-10-10M	18967	9.4*	10.9	9.7		99	13
10-10-10M	16760	11.3	10.1	10.1		107	15
10-10-10M	16770	9.9	11.3	11.3		106	15
10-10-10M	16813	10.7	9.9	9.9		103	15
10-10-10M	16833	10.3	11.8	10.6		108	15
10-10-10M	16884	10.2	10.7	11.6		106	15
10-10-10M	16947	9.5*	11.5	11.4		105	15
10-10-10M	16955	9.9	11.2	10.8		105	15
10-10-10M	16991	11.3	10.3	9.1*		106	15
10-10-10M	17002	10.9	9.8	9.8		104	15
10-10-10M	17335	9.8	10.8	11.8		104	15
10-10-10M	17336	9.8	11.2	11.6		106	15
10-10-10M	17431	10.5	10.3	10.0		103	15
10-10-10M	17846	9.4*	10.9	11.7		103	15
10-10-10M	17961	9.6*	11.0	11.4		104	15
10-10-10M	18289	9.5*	11.7	11.6		106	15
10-10-10M	18315	10.9	9.9	9.5*		103	15
10-10-10M	18478	10.5	10.2	9.3*		102	16
10-10-10M	18693	9.6*	10.3	11.1		101	16
10-10-10M	19268	9.9	10.3	10.6		101	16
12-12-12M	17203	11.5*	13.1	12.9		102	15
12-12-12M	19263	11.4*	12.9	12.1		100	15
12-12-12M	18964	11.9	11.8	12.7		100	17
12-12-12M	19616	11.5*	12.5	12.4		100	15
28- 0- 0	18747	26.4*	0.0	0.0		94*	19
31- 0- 5S	18962	31.2	0.0	5.2		101	17
ARMOUR AGRI. CHEMICAL CO.		NASHVILLE			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-20- 0	18904	0.0	18.5*	0.0		93*	15
0-20- 0	18884	0.0	19.5*	0.0		98	17
0-20-20M	18020	0.0	19.7	21.9		102	13
0-20-20M	18902	0.0	22.3	16.6*		102	15
0-20-20M	16751	0.0	20.9	20.2		103	16
0-20-20M	18058	0.0	20.6	21.9		105	16
3-12- 6M	17610	3.9	12.3	6.9		111	15
3-12-24M	17016	3.6	11.6*	24.3		102	15
3-12-24M	19062	3.3	11.5*	24.9		101	15
4-12- 8M	16870	4.3	11.8	9.3		104	15
4-12- 8M	17015	5.0	11.6*	8.2		105	15
4-12- 8M	17042	4.5	11.5*	9.6		105	15
4-12- 8M	18885	4.3	12.4	9.0		106	17
4-12- 8M	17612	4.4	14.7	9.9		119	15
4-12- 8M	17962	4.3	11.6*	9.5		103	15
4-12- 8M	17965	4.6	12.3	8.4		107	15
4-12- 8M	17969	4.1	11.2*	9.3		100	15
4-12- 8M	18246	4.0	11.8	9.3		102	15
4-12-12M	17613	3.9	12.7	13.3		105	15
4-12-12M	16748	6.0	11.8	12.8		114	16
5-10-10M	17014	5.9	10.1	11.1		109	15
5-10-10M	19282	5.1	10.2	10.2		102	15
5-10-10M	19657	4.8	10.2	10.6		101	15
5-10-15S	17010	5.2	9.4*	16.8		102	15
5-10-15S	18063	5.3	10.3	15.2		103	14
5-10-15S	16904	5.1	9.9	16.1		102	15
5-10-15S	17043	5.1	10.3	15.9		104	15
5-10-15S	17202	5.2	10.7	16.6		107	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

ARMOUR AGRIC. CHEMICAL CO.	GRADE	NUM	N	NASHVILLE APA	TENN POT	XS CL	RV	PHYS
	5-10-15S	17527	5.1	10.1	16.3		103	15
	5-10-15S	18159	5.1	9.9	16.1		102	15
	5-10-15S	16750	4.9	10.3	15.7		102	16
	5-10-15S	18843	5.2	10.7	15.5		105	16
	5-10-15S	18602	4.9	10.3	16.4		103	15
	5-10-15S	19121	5.2	10.4	15.4		104	15
	5-20-20M	18059	5.4	18.7*	21.1		100	13
	5-20-20M	16668	5.2	19.8	21.7		103	15
	5-20-20M	17011	5.0	19.5*	20.7		100	15
	5-20-20M	17012	4.7	16.7*	24.7		96*	15
	5-20-20M	17044	5.3	17.4*	19.8		94*	15
	5-20-20M	17101	5.5	19.5*	21.3		102	15
	5-20-20M	17201	5.0	20.2	21.2		102	15
	5-20-20M	18901	5.4	19.0*	19.9		99	15
	5-20-20M	19122	4.9	18.5*	19.8		95*	15
	5-20-20M	19315	4.9	19.0*	21.0		98	15
	5-20-20M	17506	4.8	16.9*	25.5		98	15
	5-20-20M	18048	5.3	19.9	21.2		103	15
	5-20-20M	18158	4.9	20.4	19.6		100	15
	5-20-20M	18221	5.8	18.5*	19.9		99	15
	5-20-20M W/B	16752	5.3	19.2*	19.2*		98	16
	6-12-12M	17726	6.0	11.9	14.0		103	14
	6-12-12M	18062	6.0	12.3	12.2		101	14
	6-12-12M	18065	5.9	12.6	13.0		104	14
	6-12-12M	16684	6.2	11.7	13.0		102	15
	6-12-12M	16889	6.0	11.8	13.1		101	15
	6-12-12M	16903	6.5	12.0	12.3		103	15
	6-12-12M	17018	6.6	11.7	12.7		104	15
	6-12-12M	17596	5.9	11.5*	12.9		99	15
	6-12-12M	17611	6.0	12.0	13.6		103	15
	6-12-12M	18161	5.8	13.2	13.3		105	15
	6-12-12M	18163	6.0	11.9	12.8		101	15
	6-12-12M	16749	6.1	12.0	14.0		104	16
	6-12-12M	17730	5.6*	12.6	12.4		101	16
	6-12-13S	18061	6.2	12.0	19.9		104	13
	6-12-18S	16683	6.1	11.9	19.0		102	15
	6-12-18S	17017	6.1	11.2*	19.5		100	15
	6-12-18S	17055	5.9	12.1	19.2		102	15
	6-12-18S	17175	5.9	12.5	18.2		101	15
	6-12-18S	17200	6.5	12.1	17.4*	*	102	15
	6-12-18S	17609	6.2	11.8	18.3		101	15
	6-12-18S	17630	5.9	12.6	18.9		103	15
	6-12-18S	18047	5.8	12.3	19.9		103	15
	6-12-18S	18160	5.9	11.8	19.0		100	15
	6-12-18S	17728	5.8	13.2	19.0	*	105	16
	6-12-18S	19033	5.8	12.0	19.5		102	15
	6-12-18S	19124	6.5	11.8	18.1	*	102	15
	6-12-18S	19317	5.8	12.0	19.6		101	15
	6-18-12M	18844	6.3	16.0*	13.3		97*	16
	6-24-24M	18220	6.1	23.8	25.3		101	15
	6-24-24M	18222	6.3	24.5	24.8		103	15
	8-32-16M	18846	7.7*	32.7	17.5		102	16
	10-10-10M	18060	9.3*	11.0	11.8		103	14
	10-10-10M	18066	9.7*	10.7	11.3		103	14
	10-10-10M	16686	9.4*	9.9	9.5*		96*	15
	10-10-10M	16888	9.7	10.6	11.3		103	15
	10-10-10M	16902	9.6*	10.3	11.2		101	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

ARMOUR AGRI. CHEMICAL CO.		NASHVILLE		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
10-10-10M	17009	9.0*	11.2	10.4			99	15
10-10-10M	17056	9.3*	10.5	11.1			100	15
10-10-10M	17102	8.9*	11.0	11.9			101	15
10-10-10M	17608	9.2*	11.2	11.0			102	15
10-10-10M	17629	9.8	10.9	11.6			104	15
10-10-10M	18157	9.2*	11.0	10.8			101	15
10-10-10M	18162	9.9	10.0	10.7			100	15
10-10-10M	17087	9.7	10.4	10.4			101	16
10-10-10M	18845	9.0*	11.2	11.1			100	16
12-24-24M	17725	12.3	24.6	25.4			103	16
15-15-15M	18603	15.3	15.5	15.4			102	15
15-15-15M	19123	15.4	15.9	16.1			105	15
15-15-15M	17614	13.2*	14.9	17.0			96*	15
15-15-15M	17727	15.5	16.0	16.6			106	16
28- 0- 0	17729	27.7	0.0	0.0			99	19
BALLARD COUNTY COOP		LA CENTER		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
6-24-24M	18949	5.8	21.9*	25.2			96*	16
BLACKSTONE GUANO COMPANY		RICHMOND		VA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
10- 6- 4M	19247	9.9	7.5	5.6			109	13
BLUEGRASS PLANT FOODS, INC.		CYNTHIANA		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-60M	17914	0.0	0.0	56.6*			94*	13
4-12- 8M	17912	4.2	11.3*	9.3			101	11
4-16- 4S	17057	4.3	15.2*	4.3			100	11
5-10-10M	16923	5.2	9.8	11.9			105	11
5-10-15S	16920	4.9	9.9	15.3			100	11
5-10-15S	18416	4.9	10.1	15.7			101	11
5-20-20M	17911	5.2	19.9	21.8			103	13
6- 6-18S	18466	6.1	7.0	16.0*			101	13
6- 6-18S W/ME	18610	6.0	6.7	17.2*			101	11
6- 7-11S	18618	6.0	7.8	11.6			100	24
6- 8- 6S	16921	5.9	8.3	6.5			102	11
6-12-18S W/ME	16922	6.2	12.1	17.8			101	11
6-12-18S W/ME	17913	6.0	12.3	17.1*			100	13
8- 0-10S	18418	8.2	0.0	11.5			106	23
8-10-15S	17916	7.4*	8.6*	14.5*			91*	11
8-10-15S W/ME	18415	7.8	9.2*	16.0			98	11
9- 7-12S	18382	8.6*	6.9*	16.0			101	24
10-10-10M	16924	10.4	10.0	10.5			103	11
10-10-10M	18417	9.9	9.1*	11.7			99	11
10-10-10M	18465	9.2*	8.8*	12.4			96*	13
14- 0-18M/S	17915	14.0*	0.0	20.1			99	15
BLUEGRASS PLANT FOODS, INC.		DANVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-20- 0	16785	0.0	19.3*	0.0			96*	11
0-20- 0	17821	0.0	18.6*	0.0			93*	11
0-20- 0	18445	0.0	18.9*	0.0			95*	13
0-20- 0	19493	0.0	19.5*	0.0			97*	13
0-20-20M	17826	0.0	16.7*	21.4			91*	21
3-12-12M	17985	3.2	11.3*	13.3			101	13
3-12-12M	18142	3.3	11.8	13.0			103	13
3-12-12M	18497	3.6	11.4*	12.4			102	13
4-12- 8M	17332	4.8	11.1*	9.4			104	11
4-12- 8M	17822	4.2	10.0*	8.3			93*	11
4-12- 8M	17824	4.2	10.2*	8.6			95*	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

BLUEGRASS PLANT FOODS, INC.		DANVILLE			KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
4-12- 8M	19017	5.8	11.8	10.8		118	13	
4-16- 4S	17077	4.6	15.5*	4.2		102	13	
4-16- 4S	17451	4.4	15.4*	4.2		101	13	
5-10-10M	19239	5.8	9.2*	12.1		106	13	
5-10-10M	18141	6.0	9.9	12.1		111	15	
5-10-10M	18489	5.8	9.2*	11.4		105	15	
5-10-15S	17823	4.9	9.5*	15.2		98	11	
5-10-15S	17106	5.1	10.5	14.5*		102	13	
5-10-15S	17984	5.1	9.9	15.2		100	13	
5-10-15S	19240	5.2	9.8	15.8		102	13	
5-10-15S W/ME	16786	5.2	9.3*	15.2		99	11	
5-20-20M	17827	5.6	19.6	20.3		102	13	
5-20-20M	18444	5.9	21.5	14.2*		100	13	
5-20-20M	19019	5.6	19.8	21.9		104	13	
5-20-20M	19492	5.7	18.7*	21.7		101	13	
6-12-12M	17823	7.0	11.3*	13.9		106	13	
6-12-12M	19494	5.9	11.9	11.3*		98	13	
10- 6- 4M	18488	10.7	6.7	7.2		114	11	
10-10-10M	17825	10.1	9.7	10.8		101	11	
10-10-10M	17970	9.8	9.7	11.9		101	11	
10-10-10M	17107	10.6	10.1	11.8		106	13	
10-10-10M	19016	9.7	10.2	11.2		101	13	
10-10-10M	19018	10.0	10.1	11.1		102	14	
10-10-10M	18143	9.5*	10.9	10.6		101	15	
12-12-12M	19015	12.2	12.0	13.4		103	13	
BUNTON SEED COMPANY		LOUISVILLE			KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
6-12- 6M	18717	6.4	12.3	7.5		107	13	
BURLEY BELT FERTILIZER CO.		LEXINGTON			KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0-10-30M W/B	17378	0.0	9.4*	31.8		101	13	
0-20- 0	19000	0.0	19.4*	0.0		97*	11	
0-20-20M	16897	0.0	20.6	21.0		104	13	
0-20-20M	17748	0.0	20.1	20.9		102	13	
0-20-20M	19590	0.0	18.4*	20.2		95*	25	
0-20-20M	17987	0.0	19.6	21.2		101	15	
0-20-20M	18463	0.0	19.9	21.4		102	15	
0-25-25M	16885	0.0	25.2	25.8		102	25	
0-25-25M	17380	0.0	24.1*	25.5		98	15	
3- 9- 6M	17116	3.3	10.0	8.0		115	11	
3- 9- 6M	17678	3.1	9.2	7.2		105	11	
3- 9- 6S	17753	3.1	9.4	7.7		109	13	
3- 9-18M W/B	17449	3.5	9.4	19.6		109	13	
4-12- 8M	17118	4.2	12.6	9.9		108	11	
4-12- 8M	16892	4.3	12.5	9.6		107	13	
4-16- 4S	17006	4.2	15.9	5.1		103	11	
4-16- 4S	17115	4.2	16.6	5.7		107	11	
4-16- 4S	17155	4.1	16.5	5.5		106	11	
4-16- 4S	17163	4.2	16.5	6.0	*	108	11	
4-16- 4S	17245	3.9	16.8	5.3	*	105	11	
4-16- 4S	17069	4.0	16.9	5.1		106	13	
4-16- 4S	17932	4.5	16.0	4.7		105	13	
5-10-10M	18094	4.9	11.5	10.6		107	11	
5-10-10M	18419	5.5	10.1	12.0		108	11	
5-10-10M	19101	5.4	10.0	11.8		107	11	
5-10-10M	17745	5.4	10.6	11.4		109	13	
5-10-10M	17874	5.0	10.6	10.4		104	13	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

BURLEY BELT FERTILIZER CO.		LEXINGTON			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-10-10M	18548	5.4	10.9	11.9		111	13
5-10-10M	18974	4.5*	9.9	11.0		98	13
5-10-10M	18795	5.1	10.2	11.8		105	15
5-10-15S	17117	5.1	10.6	16.3		105	11
5-10-15S	17216	5.2	10.5	16.6		106	11
5-10-15S	17875	5.0	10.0	15.8		102	11
5-10-15S	16891	4.9	10.3	16.6		104	13
5-10-15S	17746	4.9	10.5	15.5		103	13
5-10-15S	17991	5.3	10.3	15.4		104	15
5-10-15S	18854	4.8	10.3	15.6		101	16
5-10-15S	19207	4.7*	9.4*	17.1		100	11
5-20-20M	17377	5.2	18.1*	21.7		98	11
5-20-20M	16894	5.5	18.6*	19.8		98	13
5-20-20M	18462	4.9	19.3*	21.2		99	13
5-20-20M	18792	6.5	19.8	21.2		107	25
5-20-20M	17989	4.3*	17.7*	22.0		94*	15
6- 6-18M	17754	5.9	6.9	16.3*		100	13
6- 6-18S	17217	6.2	6.9	18.0		105	11
6- 6-18S	18611	5.8	6.7	18.0		101	11
6- 6-18S	18852	5.8	6.9	17.4*		101	12
6- 6-18S	16896	5.9	6.3	18.4		102	13
6- 6-18S	17747	5.9	6.9	16.9*		100	13
6- 6-18S	17749	5.9	6.3	18.9		103	13
6- 6-18S	17872	5.9	6.4	18.6		102	13
6- 6-18S	17575	6.2	6.6	17.9		103	14
6- 8- 6S	17219	6.1	9.2	7.8	*	111	11
6- 8- 6S	16893	6.3	8.2	6.5		104	13
6- 8- 6S	18857	5.9	8.6	7.1		105	13
6-12-12M	17755	5.9	11.8	12.6		100	13
6-12-12M	17877	5.9	11.0*	13.8		99	13
6-12-12M	18549	5.9	11.3*	12.5		98	13
6-12-12M	17988	5.8	12.7	12.3		102	15
6-12-12M	18093	6.0	11.8	13.3		101	15
6-12-18S	19243	5.8	11.6*	18.7		98	15
6-12-18S	19623	5.9	11.3*	18.5		98	25
8- 6-18S	18615	6.8*	7.3	17.2*	*	97*	13
8-10-15S	18424	7.6*	10.7	15.5		101	11
8-10-15S	16895	7.7	10.5	15.7		101	13
8-10-15S	17931	7.7	10.9	15.0		102	13
8-10-15S	17752	8.2	10.3	15.2		103	13
8-10-15S	17871	7.8	9.7	16.4		100	13
8-10-15S	17937	7.9	10.3	15.7		102	13
8-10-15S	18853	8.2	10.5	15.4		103	16
8-10-15S	18796	7.9	10.9	16.0		104	15
8-10-15S	19383	7.7	11.6	14.3*		103	15
9-10-15S	18856	9.0	10.0	15.4		101	13
10-10-10M	18420	9.6*	10.3	11.8		102	11
10-10-10M	18855	8.9*	10.6	12.7		101	12
10-10-10M	17751	10.2	10.3	10.5		103	13
10-10-10M	17870	9.5*	10.4	11.5		101	13
10-10-10M	19244	9.9	9.7	10.8		100	13
10-10-10M	18794	9.6*	10.8	11.2		103	15
10-10-10M	18975	9.9	9.6*	11.1		100	15
10-10-10M	17574	11.0	11.2	11.9		112	25
10-10-10M	17446	9.1*	8.9*	10.1		92*	15
10-10-10M	17454	9.6*	9.5*	10.1		96*	15
10-10-10M	17990	10.2	8.7*	14.0		103	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967
Analyses deficient more than tolerance and relative values of 97 per-
cent or less indicated by asterisk.

BURLEY BELT FERTILIZER CO.		LEXINGTON			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
10-10-10M	18452	10.9	11.6	9.2*		108	15
10-10-20S	18620	10.2	13.9	18.6*	*	110	11
10-10-20S	17070	10.1	13.0	16.3*		104	13
10-10-20S	19242	9.6*	8.0*	20.5		93*	15
12-12-12M	18550	12.3	12.7	12.3		103	13
12-12-12M	18793	11.4*	10.7*	13.8		96*	25
12-12-12M	17750	13.3	12.6	11.6*		107	15
20-0-24M	17576	19.0*	0.0	25.6		98	25
20-10-10M	17448	19.7	11.3	9.2*		101	15
30-0-0	17082	29.9	0.0	0.0		99	19
30-0-0	18900	30.6	0.0	0.0		102	19
BURLEY BELT CHEMICAL CO.		LONDON			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-20-0	18531	0.0	19.8	0.0		99	11
0-20-20M	19487	0.0	18.9*	22.7		101	23
0-20-20M	18529	0.0	18.1*	21.6		96*	15
5-10-10M	18980	4.5*	8.8*	11.0		93*	15
5-10-15S	19004	5.0	9.7	15.2		99	11
5-10-15S	19484	5.1	9.7	16.0		101	11
5-10-15S	19491	5.1	10.0	16.3		103	11
5-10-15S	18530	4.9	10.8	14.9		102	13
5-10-15S	18925	4.9	10.0	17.0		103	15
5-10-15S	19380	5.1	9.8	15.2		100	25
5-10-15S	19589	4.9	9.5*	15.3		98	15
5-20-20M	19486	4.3*	20.9	20.2		100	11
5-20-20M	18528	4.7*	19.2*	22.0		99	13
5-20-20M	19001	5.1	20.4	21.0		102	13
5-20-20M	19204	4.6*	20.7	20.8		101	23
5-20-20M	19203	5.2	21.8	19.3*		105	24
5-20-20M	19222	2.9*	20.6	20.5		94*	25
6-12-12M	18527	5.9	11.3*	12.4		98	13
6-12-12M	19002	5.9	11.4*	11.9		97*	15
6-12-12M	19588	6.8	14.3	12.2		113	25
10-10-10M	19485	10.2	9.7	11.4		103	11
10-10-10M	19003	9.4*	9.4*	10.7		96*	13
10-10-10M	18926	8.1*	6.4*	11.6		81*	15
10-10-10M	19201	9.7*	9.5*	10.5		97*	25
10-10-10M	18526	10.7	11.8	8.8*		107	15
CAMPBELLSVILLE CRDP SERVICE		CAMPBELLSVILLKY.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-20-20M	18280	5.8	22.0	19.0*		107	26
5-20-20M	18284	5.6	21.5	20.1		107	26
6-18-12M	18285	6.9	19.9	12.8		111	26
8-8-13S	18286	7.8	9.4	14.5		103	26
10-10-10M	18278	10.4	11.2	10.4		107	26
CENTRAL FARMERS FERT. COMPANY		CHICAGO			ILL.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-0-60M	17137	0.0	0.0	60.2		100	16
0-0-60M	17791	0.0	0.0	60.1		100	16
0-0-60M	18015	0.0	0.0	59.5		99	16
0-46-0	16669	0.0	45.8	0.0		100	15
0-46-0	16762	0.0	45.9	0.0		100	15
0-46-0	16768	0.0	46.2	0.0		100	15
0-46-0	16879	0.0	45.8	0.0		100	15
0-46-0	16997	0.0	45.8	0.0		100	15
0-46-0	17138	0.0	47.0	0.0		102	16
0-46-0	17790	0.0	47.0	0.0		102	16

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

CENTRAL FARMERS FERT. COMPANY		CHICAGO		ILL.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-46- 0	18014	0.0	45.8	0.0		100	16	
0-46- 0	18472	0.0	45.7	0.0		99	16	
0-46- 0	19280	0.0	46.5	0.0		101	15	
CHEVRON CHEMICAL COMPANY		FORT MADISON		IOWA		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
10-20-20M	16820	10.4	20.3	21.0		103	17	
10-20-20M	18053	10.7	20.5	21.4		105	17	
13-34-10M	16822	12.9	35.2	10.6		102	17	
13-34-10M	18055	13.3	35.3	10.6		103	17	
16-16-16M	16821	16.0	16.4	17.1		102	17	
16-16-16M	18054	16.3	16.4	17.2		103	17	
20-10-10M	18052	20.2	11.2	11.3		105	17	
33- 0- 0	17214	34.3	0.0	0.0		102	17	
34- 0- 0	18056	34.8	0.0	0.0		102	17	
CHEVRON CHEMICAL CO-ORTHO DIV		RICHMOND		CAL.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
20-10-10M	17455	20.6	10.0	10.6		103	17	
33- 0- 0	18301	33.6	0.0	0.0		100	17	
33- 0- 0	18306	33.8	0.0	0.0		101	17	
34- 0- 0	18923	34.8	0.0	0.0		102	17	
CHILEAN NITRATE SALES CORP.		NEW YORK		N.Y.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
15- 0-14M	16693	14.7	0.0	14.7		100	17	
15- 0-14M	18674	14.9	0.0	13.6*		99	17	
15- 0-14S	18782	14.8	0.0	13.3*		98	17	
16- 0- 0	16694	15.7	0.0	0.0		98	17	
16- 0- 0	18675	15.8	0.0	0.0		99	17	
CLINE FERTILIZER COMPANY		EWING		VA.2		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
3- 9- 6M	18542	3.7	8.8	6.8		107	25	
5-10- 5M	18543	4.9	10.1	5.1		100	25	
5-10-10M	18534	5.4	11.2	11.0		110	23	
5-10-10M	18544	4.3*	8.1*	8.3*		83*	25	
6-12-12M	18545	7.7	11.5*	10.6*		105	25	
10-10-10M	18535	9.8	8.9*	9.0*		94*	23	
COASTAL CHEMICAL CORP.		*YAZOO CITY		MISS		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
18-46- 0	17653	18.5	46.4	0.0		102	15	
COMINCO AMERICAN INC		SPOKANE		WASH		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
34- 0- 0	18187	34.2	0.0	0.0		100	15	
COMMERCIAL SOLVENTS CORP.		NEW YORK		N.Y.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
33- 0- 0	19300	34.4	0.0	0.0		103	15	
COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-50S	17849	0.0	0.0	49.3		98	15	
0-20- 0	17855	0.0	20.1	0.0		100	11	
0-20-20M	18841	0.0	20.6	21.7		105	11	
0-26-26M	18833	0.0	27.6	23.7*		101	14	
0-26-26M	17288	0.0	25.8	27.7		102	15	
0-26-26M	19365	0.0	33.1	15.4*		104	25	
0-26-26M	17738	0.0	27.0	27.2		104	16	
4-12- 8M	17851	4.1	12.5	8.9		105	13	
4-12- 8M	16753	4.6	12.0	9.2		107	15	
4-12- 8M	17287	4.7	12.7	13.0		119	15	
5-10-15S	18834	5.1	10.9	15.7		105	14	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE KY.						
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
5-10-15S	19560	4.9	11.9	15.0	*	107	15	
5-10-15S	17850	4.9	10.3	15.7		102	15	
5-10-15S	17734	5.3	10.9	14.6*		104	16	
5-10-15S	18279	4.9	10.7	14.9		102	16	
5-20-20M	17852	5.1	19.6	21.0		101	13	
5-20-20M	18570	5.2	18.9*	19.3*		97*	13	
5-20-20M	18836	5.1	20.4	21.9		104	14	
5-20-20M	16754	5.6	19.0*	20.5		100	15	
5-20-20M	17289	5.0	20.6	19.6		101	15	
5-20-20M	19557	5.1	16.4*	22.6		94*	15	
5-20-20M	17737	5.6	17.5*	20.7		97*	16	
5-20-20M	18842	5.6	20.5	18.6*		102	16	
6-12-12M	16755	5.2*	13.2	14.4		104	15	
6-12-12M	19294	5.7*	11.9	13.7		101	15	
6-12-12M	17739	5.8	12.3	12.3		101	16	
6-18-12M	18837	5.9	18.9	12.3		103	14	
6-18-12M	16756	6.2	17.5*	13.0		101	15	
6-18-12M	17736	5.6*	16.5*	15.6		99	16	
7-21-10M	19366	6.9	19.6*	11.4		98	15	
7-21-10M	19619	6.5*	20.8	13.7		103	15	
8-12-15S	19364	7.9	10.9*	13.7*		94*	13	
8-12-15S	19559	8.5	12.3	14.9		103	13	
8-12-15S	18838	7.9	13.2	11.7*		98	14	
8-12-15S	17853	7.9	12.0	16.1	*	101	15	
8-12-15S	17733	8.8	12.9	13.1*		104	16	
8-12-15S	18277	7.9	10.9*	13.8*		94*	16	
10-10-10M	18835	8.9*	12.6	11.1		105	14	
10-10-10M	17286	10.1	10.0	11.2		103	15	
10-10-10M	19558	9.2*	11.2	9.9		99	15	
10-10-10M	17856	9.3*	10.0	11.9		100	15	
10-10-10M	17735	10.0	10.2	11.0		102	16	
11-37-0	19635	10.9	38.4	0.0		103	19	
28-0-0	19358	28.9	0.0	0.0		103	19	
DARLING & COMPANY		E. ST. LOUIS ILL.						
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0-20-20M	18218	0.0	20.6	21.9		105	15	
0-25-25M	16732	0.0	26.6	25.7		105	15	
0-25-25M	17190	0.0	26.0	24.7		102	15	
5-20-20M	19574	5.0	19.8	21.3		101	10	
5-20-20M	17026	5.5	19.7	21.0		103	15	
5-20-20M	17027	4.8	20.1	21.6		102	15	
5-20-20M	17036	4.6*	21.1	21.0		103	15	
5-20-20M	17188	5.1	19.9	21.0		102	15	
5-20-20M	17204	4.7*	19.7	21.0		99	15	
5-20-20M	17508	5.0	20.1	21.3		102	16	
5-20-20M	17513	5.0	19.8	21.6		102	16	
5-20-20M	18219	4.9	23.0	18.2*		105	16	
6-12-18S W/ME	17187	6.1	16.3	18.3	*	115	15	
6-12-18S	16733	6.8	12.3	18.6		106	15	
6-24-24M	17029	6.1	23.8	24.3		100	15	
6-24-24M	17035	5.9	23.7	25.8		101	15	
6-24-24M	17189	6.1	23.7	24.6		100	15	
6-24-24M	18601	6.1	24.1	25.2		102	15	
6-24-24M	18955	6.2	23.9	24.6		101	15	
6-24-24M	19113	5.9	23.1*	25.3		99	15	
15-15-15M	17030	12.8*	19.5	14.7		103	15	
15-15-15M	17507	12.9*	18.3	15.3		101	16	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

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ELANCO PRODUCTS COMPANY		INDIANAPOLIS IND.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
16- 8- 4M	17561	17.2	9.2	5.5		111	13
20-10- 5M	18318	19.4*	10.8	6.3		101	13
24- 6- 6M W/ME	17086	24.5	7.4	5.3		105	11
24- 6- 6M W/ME	17453	26.4	6.5	5.4*		108	13
24- 6- 8M	19505	24.3	7.9	9.0		106	15
ESCAMBIA CHEMICAL CORPORATION		PENSACOLA FLA.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
28- 0- 0	16690	29.0	0.0	0.0		104	19
E-Z-FLO CHEMICAL COMPANY		LEXINGTON KY.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
6-18- 6M	18248	7.0	18.2	6.6		107	19
6-18- 6M	19566	7.5	19.0	7.0		112	19
FARMERS CHEMICAL ASSN., INC.		TYNER TENN.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
30- 0- 0	16825	30.0	0.0	0.0		100	19
30- 0- 0	16826	31.1	0.0	0.0		103	19
30- 0- 0	17132	31.2	0.0	0.0		104	19
30- 0- 0	18016	31.0	0.0	0.0		103	19
30- 0- 0	18903	31.4	0.0	0.0		105	19
33- 0- 0	16932	34.5	0.0	0.0		103	15
33- 0- 0	18467	34.2	0.0	0.0		102	15
33- 0- 0	17789	33.7	0.0	0.0		101	16
33- 0- 0	18408	34.1	0.0	0.0		102	17
33- 0- 0	18494	34.5	0.0	0.0		103	17
33- 0- 0	18756	34.1	0.0	0.0		102	17
FARMERS FERTILIZER COMPANY		SMITH GROVE KY.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-19- 9M	18069	6.6	18.4*	9.6		104	24
10-10-10M	18068	13.7	7.9*	10.6		113	24
15-15-15M	18067	17.5	17.2	7.9*		105	24
FARMSCO OF KY		GRACEY KY.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
10-10-15S	19548	10.5	10.0	14.7		102	10
11- 9-13S	19549	12.5	8.8*	13.2*		101	10
FEDERAL CHEMICAL COMPANY		LOUISVILLE KY.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-10-30M W/B	17588	0.0	11.6	28.3*		103	15
0-20- 0	19455	0.0	20.4	0.0		102	11
0-20- 0	17819	0.0	19.6	0.0		98	15
0-20- 0	17897	0.0	20.1	0.0		100	15
0-20-20M	17586	0.0	19.2*	20.2		98	15
0-20-20M	17895	0.0	17.5*	21.7		95*	15
0-20-20M	18029	0.0	17.8*	20.8		94*	15
0-20-20M	18450	0.0	19.8	20.1		100	15
3- 9-18M	17639	3.5	10.6	17.9		110	15
3-12-12M	19615	3.5	12.1	13.8		108	15
4-12- 8M	16780	4.0	11.6*	9.6		102	15
4-12- 8M	17194	4.8	13.8	9.6		117	15
4-12- 8M	17239	4.4	12.1	8.4		105	15
4-12- 8M	19259	6.3	14.3	15.9		144	15
4-12- 8M	17585	4.6	12.3	9.6		109	15
4-12- 8M	18145	4.3	12.6	10.1		110	15
4-12- 8M	18451	4.3	12.4	8.2		105	15
4-12-16M W/ME	17641	5.0	12.0	17.8		109	15
4-12-16M W/ME	19328	4.2	13.2	16.9		107	15
4-16- 4S	16800	6.0	13.8*	10.1	*	116	11
4-16- 4S	17195	4.7	16.0	6.0	*	109	11

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FEDERAL CHEMICAL COMPANY		LOUISVILLE		KY.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
4-16- 4S	17396	4.6	15.4*	6.1	*	105	11	
4-16- 4S	17423	4.6	15.9	5.5		107	11	
4-16- 4S	17246	5.3	14.5*	11.5	*	117	13	
4-16- 4S	17331	4.9	15.4*	6.5	*	108	13	
4-16- 4S	17558	5.4	14.4*	7.7	*	109	13	
5-10-15M	16847	4.7*	9.8	15.2		98	15	
5-10-15S	17672	5.2	10.0	14.0*		99	13	
5-10-15S	18776	5.4	10.3	16.4		107	13	
5-10-15S	16723	5.1	10.3	14.9	*	102	15	
5-10-15S	16784	5.9	10.6	15.2	*	108	15	
5-10-15S	16799	4.9	9.9	14.9		98	15	
5-10-15S	16808	5.3	9.6*	15.7		101	15	
5-10-15S	16899	5.1	11.4	13.5*		103	15	
5-10-15S	17071	5.9	11.0	14.2*	*	108	15	
5-10-15S	17227	5.0	11.2	14.5*		104	15	
5-10-15S	19582	5.4	9.9	16.4		105	15	
5-10-15S	19583	6.9	10.5	13.7*	*	111	15	
5-10-15S	17623	5.1	10.6	15.7		104	15	
5-10-15S	17688	5.2	10.3	14.9		102	15	
5-10-15S	18178	5.8	10.9	15.7	*	110	15	
5-10-15S	18255	6.0	10.3	14.0*		105	15	
5-10-15S	18449	5.7	10.8	14.7	*	107	15	
5-10-15S	18505	5.5	11.5	15.1	*	109	15	
5-10-15S	18510	5.4	11.5	13.0*		104	15	
5-10-15S	18612	5.4	11.0	15.4		107	15	
5-10-15S	18631	6.5	10.1	15.9		111	15	
5-10-15S	18639	5.4	10.6	14.0*		103	15	
5-10-15S	18711	5.8	11.2	15.2	*	110	15	
5-10-15S	18765	5.0	10.5	15.4		103	15	
5-10-15S	18883	5.2	10.2	14.3*		100	15	
5-10-15S	18911	5.0	11.0	13.7*		101	15	
5-10-15S	19325	4.7	12.9	16.1	*	112	15	
5-10-15S	19416	5.0	10.0	15.4		101	15	
5-10-15S	19453	6.0	10.3	15.7	*	108	15	
5-20-20M	16654	5.6	19.6*	20.1		101	15	
5-20-20M	16835	5.3	20.5	21.6		105	15	
5-20-20M	17192	5.8	20.5	20.8		106	15	
5-20-20M	18730	4.9	20.6	21.9		104	15	
5-20-20M	18771	5.1	20.9	19.3*		102	15	
5-20-20M	18910	5.4	20.2	20.8		103	15	
5-20-20M	19044	5.3	19.0*	20.7		99	15	
5-20-20M	19304	5.7	21.8	20.4		108	15	
5-20-20M	19324	4.8	17.7*	21.4		95*	15	
5-20-20M	17583	5.4	19.8	22.2		104	15	
5-20-20M	17624	5.8	19.2*	20.6		102	15	
5-20-20M	17627	4.5*	18.3*	22.5		97*	15	
5-20-20M	18183	5.2	19.9	21.2		102	15	
5-20-20M	18198	5.4	19.2*	18.3*		97*	15	
5-25-15M W/ME	18196	5.6	23.9*	16.3		101	15	
6- 6-18S	16898	6.2	7.3	18.0		107	15	
6- 6-18S	19249	6.5	7.1	18.6	*	109	15	
6- 6-18S	19418	6.1	7.0	18.8		106	15	
6-12-12M	19451	6.4	13.2	12.5		107	13	
6-12-12M	19608	6.3	12.0	11.7		101	13	
6-12-12M	16652	7.0	12.7	11.7		108	15	
6-12-12M	16671	7.0	12.5	13.5		110	15	
6-12-12M	16724	6.3	12.8	13.7		108	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

FEDERAL CHEMICAL COMPANY		LOUISVILLE			KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
6-12-12M	17177	6.5	12.4	12.5		105	15	
6-12-12M	17193	6.3	12.4	13.3		105	15	
6-12-12M	17224	5.9	12.0	14.1		103	15	
6-12-12M	18633	6.1	12.6	13.4		105	15	
6-12-12M	18638	6.0	12.2	12.9		102	15	
6-12-12M	18705	6.4	12.3	13.9		107	15	
6-12-12M	18710	6.1	12.3	13.4		104	15	
6-12-12M	18712	6.3	12.6	12.9		106	15	
6-12-12M	18729	6.4	12.0	13.8		105	15	
6-12-12M	18774	6.0	12.9	13.8		107	15	
6-12-12M	18912	6.1	12.5	12.5		103	15	
6-12-12M	19234	6.2	12.3	13.7		105	15	
6-12-12M	19321	5.9	11.6*	13.0		100	15	
6-12-12M	19396	6.3	12.4	13.5		106	15	
6-12-12M	17523	5.9	12.3	12.1		101	15	
6-12-12M	17557	6.2	12.4	14.1		106	15	
6-12-12M	17587	6.7	12.0	14.0		108	15	
6-12-12M	17625	6.4	12.3	14.8		109	15	
6-12-12M	17893	6.0	11.7	16.1		106	15	
6-12-12M	18167	5.9	11.8	10.7*		96*	15	
6-12-12M	18179	5.8	11.9	12.4		99	15	
6-12-12M	18448	5.8	11.9	13.7		102	15	
6-12-12M	18455	6.3	12.0	14.0		106	15	
6-12-12M	18506	6.4	12.5	12.3		104	15	
6-18-12M	17298	6.3	16.5*	12.3		97*	15	
6-18-12M	18197	6.0	16.8*	11.9		96*	15	
6-18-12M	18257	6.6	16.0*	12.2		97*	15	
6-24-24M	19454	6.3	24.4	24.7		103	15	
9-10-15S	17894	9.0	10.3	16.4		103	13	
9-10-15S	16653	9.8	9.9	14.0*		102	15	
9-10-15S	16809	9.4	10.3	14.1*		101	15	
9-10-15S	17072	8.9	10.7	14.8		101	15	
9-10-15S	17191	9.5	10.4	14.4*		103	15	
9-10-15S	17226	8.9	10.1	14.9		100	15	
9-10-15S	17556	8.9	10.5	14.0*	*	99	15	
9-10-15S	17584	8.9	10.6	15.1	*	101	15	
9-10-15S	17671	9.3	10.9	13.4*		102	15	
9-10-15S	18454	8.9	10.5	15.4	*	102	15	
9-10-15S	18507	9.1	9.3*	15.3		99	15	
9-10-15S	18634	8.5*	11.5	15.4	*	103	15	
9-10-15S	18775	9.3	10.3	14.3*		101	15	
9-10-15S	19043	8.9	10.5	15.5		102	15	
9-10-15S	19381	8.5*	10.2	16.1		100	15	
9-10-15S	19384	9.1	10.5	15.4		103	15	
9-10-15S	19417	9.1	9.7	15.2		100	15	
9-10-15S	19443	9.3	9.9	14.9		101	15	
10-10-10M	17673	10.6	10.3	10.7		105	13	
10-10-10M	16670	10.3	10.3	10.6		104	15	
10-10-10M	16783	10.3	10.3	11.2		104	15	
10-10-10M	16798	9.9	10.2	10.4		101	15	
10-10-10M	16814	10.5	10.1	10.7		104	15	
10-10-10M	17176	10.5	10.4	11.1		105	15	
10-10-10M	17225	10.4	10.7	10.8		105	15	
10-10-10M	17228	9.9	11.0	9.6*		102	15	
10-10-10M	18722	10.2	10.5	11.1		104	15	
10-10-10M	18772	10.0	11.0	12.0		107	15	
10-10-10M	18913	10.5	10.6	9.4*		104	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967
Analyses deficient more than tolerance and relative values of 97 per-
cent or less indicated by asterisk.

FEDERAL CHEMICAL COMPANY		LOUISVILLE			KY.		RV	PHYS
GRADE	NUM	N	APA	POT	XS CL			
10-10-10M	19303	10.3	10.0	11.2		103	15	
10-10-10M	19322	8.8*	10.9	10.1		97*	15	
10-10-10M	19419	9.7	11.3	10.5		104	15	
10-10-10M	19450	9.5*	11.8	9.9		103	15	
10-10-10M	19452	8.6*	11.8	11.6		102	15	
10-10-10M	17555	10.4	10.4	10.2		104	15	
10-10-10M	17582	10.4	10.3	11.2		105	15	
10-10-10M	17626	9.9	10.6	11.2		103	15	
10-10-10M	17689	10.6	10.3	11.7		107	15	
10-10-10M	17818	9.5*	10.2	11.3		100	15	
10-10-10M	17896	10.2	10.3	11.1		104	15	
10-10-10M	18165	10.0	10.4	10.5		102	15	
10-10-10M	18180	10.4	11.2	9.3*		105	15	
10-10-10M	18499	9.9	11.3	11.8		107	15	
10-10-10M	18509	9.7*	10.5	11.6		103	15	
10-10-15S W/ME	16900	9.9	9.7*	16.4	*	101	15	
10-10-15S W/ME	17643	10.6	11.2	15.9	*	108	15	
10-10-15S W/ME	18632	10.1	10.0	16.9		103	15	
10-10-15S W/ME	18713	8.9*	8.6*	18.5	*	96*	15	
10-10-15S W/ME	18773	9.7	11.0	16.1	*	104	15	
10-10-15S W/ME	18508	9.8	12.1	15.4	*	106	15	
10-10-15S W/ME	18706	7.9*	9.0*	19.9	*	95*	15	
10-10-15S W/ME	19397	9.6*	10.3	16.2	*	101	15	
10-20-20M	17640	10.3	18.9*	21.0		100	15	
12-12-12M	18770	12.5	11.9	12.3		102	13	
12-12-12M	16807	12.5	11.8	12.5		102	15	
12-12-12M	17238	12.8	12.0	12.3		104	15	
12-12-12M	17297	11.5*	11.9	13.0		99	15	
12-12-12M	17297	11.5*	11.9	13.0		99	15	
12-12-12M	18704	11.3*	12.1	13.7		100	15	
12-12-12M	19326	11.7	12.0	12.6		100	15	
12-12-12M	19442	11.5*	12.4	12.8		100	15	
12-12-12M	19607	12.1	11.5*	12.9		100	15	
12-12-12M	18256	11.9	11.9	13.4		101	15	
12-12-12M	18500	11.8	12.7	11.9		101	15	
15-15-15M	17642	15.4	15.5	14.2*		101	15	
15-15-15M	18166	15.3	15.5	13.5*		100	15	
33- 0- 0	17820	33.8	0.0	0.0		101	15	
33- 0- 0	18453	34.4	0.0	0.0		103	15	
33- 0- 0	19327	34.6	0.0	0.0		103	17	
82- 0- 0	18388	82.0	0.0	0.0		100	19	
FEDERAL CHEMICAL COMPANY		NASHVILLE			TENN		RV	PHYS
GRADE	NUM	N	APA	POT	XS CL			
0- 0-60M	17698	0.0	0.0	57.3*		96*	15	
0- 0-60M	18294	0.0	0.0	59.0		98	15	
0- 9-27M W/B	17691	0.0	9.2	28.8		105	16	
0-20- 0	18553	0.0	19.7	0.0		98	11	
0-20- 0	17478	0.0	19.1*	0.0		96*	14	
0-20-20M	17548	0.0	19.7	21.9		102	15	
0-20-20M	17481	0.0	19.5*	22.6		103	16	
0-20-20M	19134	0.0	19.7	22.0		102	16	
4-12- 8M	17474	5.8	11.9	12.1		121	15	
4-12- 8M	17547	4.2	12.6	9.8		108	15	
4-12- 8M	17999	4.4	12.4	12.1		113	15	
5-10-15S	19352	5.2	10.2	14.9		101	14	
5-10-15S	17997	5.5	10.3	15.1		105	15	
5-10-15S	19532	5.4	10.0	16.1		105	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

FEDERAL CHEMICAL COMPANY		NASHVILLE		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-10-15S	19634	5.3	10.0	14.4*			100	15
5-10-15S	17543	5.4	10.3	14.4*			102	15
5-10-15S	18556	5.4	10.1	14.2*	*		101	15
5-10-20M W/ME	18551	5.3	10.0	21.2			104	15
5-20-20M	17476	5.7	18.5*	20.8			100	14
5-20-20M	17718	6.0	17.9*	20.9			100	14
5-20-20M	16688	5.5	18.8*	20.7			100	15
5-20-20M	17046	5.6	18.9*	20.6			100	15
5-20-20M	17482	5.3	19.2*	20.1			99	15
5-20-20M	17546	5.2	18.5*	22.2			100	15
5-20-20M	17692	5.6	19.3*	19.0*			99	16
5-20-20M	18293	5.6	18.5*	21.0			99	16
5-20-20M	19135	5.4	18.4*	17.7*			94*	16
5-25-15M W/ME	17695	5.5	23.5*	15.8			99	16
5-25-15M W/ME	19144	5.8	25.0	15.4			103	15
6-12-12M	17720	6.1	12.2	11.4*			100	14
6-12-12M	19531	6.2	11.8	12.3			101	15
6-12-12M	17545	6.2	11.8	12.4			101	15
6-12-12M	17996	5.9	12.1	12.3			101	15
6-12-12M	17480	6.5	11.6*	12.8			103	16
6-18-12M	17483	6.2	16.3*	13.4			98	14
6-18-12M	17693	6.4	17.5*	12.3			101	14
6-18-12M	19529	6.2	18.6	11.9			103	15
9-10-15S	17047	9.3	10.0	15.3			102	15
9-10-15S	17995	9.1	10.9	14.9			103	15
10-10-10M	17045	10.2	10.3	10.7			103	15
10-10-10M	17475	10.0	10.3	10.2			101	15
10-10-10M	19530	10.3	10.0	10.7			103	15
10-10-10M	17549	10.2	10.3	11.6			104	15
10-10-10M	17477	10.2	10.0	11.0			102	16
10-10-10M	17694	10.3	9.7	9.9			100	16
10-10-10M	19136	10.6	8.9*	10.6			100	16
10-10-10M	19146	10.0	10.4	9.4*			100	16
10-10-15S W/ME	17719	10.5	12.0	14.3*	*		107	16
10-10-15S	17544	9.6*	10.5	15.9	*		101	15
10-10-15M W/ME	18554	10.7	10.4	15.9			106	15
10-10-15S W/ME	17998	10.3	11.2	15.7			106	15
10-10-15S W/ME	17479	10.1	10.2	15.7			102	16
10-10-15S W/ME	17696	10.0	9.7	16.1			101	16
10-10-15S W/ME	19353	10.0	10.4	15.9			102	15
10-20-20M	19534	9.4*	18.7*	21.2			96*	13
10-20-20M	18555	9.9	19.7	21.9			101	15
12-12-12M	19533	12.2	11.8	12.5			101	15
12-12-12M W/ME	17697	11.4*	9.9*	14.0			94*	15
12-12-12M W/ME	18552	12.1	11.8	13.4			102	15
12-12-12M W/ME	19145	11.9	10.4*	14.1			98	15
28- 0- 0	17484	24.1*	0.0	0.0			86*	19
28- 0- 0	19354	28.6	0.0	0.0			102	19
30- 0- 0	17485	31.0	0.0	0.0			103	19
82- 0- 0	19188	82.0	0.0	0.0			100	19
FRASIER SUPPLY CO.		GLASGOW		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-60M	18661	0.0	0.0	60.2			100	15
0- 0-62M	18660	0.0	0.0	61.9			100	15
0-46- 0	18662	0.0	46.1	0.0			100	15
5-20-20M	18654	6.0	21.2	20.7			108	25
6-12-12M	18655	5.6*	11.1*	12.9			96*	25

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

FRASIER SUPPLY CO.		GLASGOW			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
6-12-18S	18658	6.2	14.0	18.2	*	108	15
10-10-10M	18656	10.6	13.1	11.3		116	25
12-15-15	19666	8.1*	14.4*	15.7		84*	26
18-46-0	18659	18.2	47.0	0.0		102	15
FREE FLOW FERTILIZER CO		MAUMEE			OHIO		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
10-6-4M	18083	9.9	6.9	3.2*		101	15
20-10-5M	18084	21.1	8.7*	6.8		103	15
GLASGOW FERTILIZER COMPANY		GLASGOW			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-0-50S	18643	0.0	0.0	50.1		100	11
0-0-60M	17538	0.0	0.0	61.5		102	15
0-15-30M W/B	17535	0.0	14.6*	29.6		98	15
0-20-20M	17534	0.0	13.7*	23.6		85*	15
4-12-8M	18296	4.1	11.4*	10.0		102	13
4-12-8M	18649	4.5	11.2*	9.3		102	13
4-12-8M	17537	4.3	11.7	9.6		105	15
4-16-4S	16853	4.1	16.5	5.2		106	11
4-16-4S	18870	5.0	15.9	5.4	*	109	13
4-16-4S	17570	4.7	16.2	5.5	*	109	15
5-10-15S	16829	5.4	9.6*	16.3		103	11
5-10-15S	17524	5.4	9.6*	15.7		102	11
5-10-15S	18644	5.6	10.6	16.5		109	13
5-10-15S	19673	5.6	10.2	15.8		106	15
5-10-15S	19676	5.6	10.2	14.9		104	15
5-10-15S	17536	5.6	9.9	16.1		105	15
5-10-15S	18637	5.1	9.9	16.0	*	102	15
5-20-20M	17169	5.3	21.3	20.7		105	13
5-20-20M	18648	4.8	24.2	16.6*		106	13
5-20-20M	19672	5.4	18.8*	22.7		102	15
6-12-12M	17525	6.7	10.9*	13.7		103	11
8-16-16M	18647	7.2*	17.2	16.7		101	13
8-16-16M	19671	7.0*	18.6	13.0*		99	15
10-10-10M	17170	9.9	10.7	10.8		103	13
10-10-10M	18646	10.4	10.3	10.6		104	13
10-10-10M	19674	9.6*	11.2	11.4		104	15
10-10-10S	19024	10.3	11.6	10.4		107	15
10-20-20M	19025	10.0	17.6*	21.8		97*	15
12-24-24M	18645	11.9	26.1	21.6*		101	13
12-24-24M	17528	13.1	26.4	21.6*		105	15
13-0-44NIT	16828	13.4	0.0	44.3		102	15
20-10-10M	19670	19.4*	9.7	11.0		98	15
W.R. GRACE & CO.		NASHVILLE			TENN		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-20-0	18271	0.0	19.8	0.0		99	14
0-20-0	18670	0.0	18.5*	0.0		92*	15
0-20-0	19293	0.0	19.2*	0.0		96*	15
0-20-20M	19290	0.0	19.9	20.3		100	15
0-20-20M	17051	0.0	19.8	21.0		101	26
0-20-20M	19143	0.0	19.0*	21.8		100	26
0-20-20M	17628	0.0	19.8	20.9		101	15
0-20-20M	19125	0.0	20.1	19.0*		98	16
0-20-20M W/B	18668	0.0	20.1	21.4		103	25
3-10-30M	19138	3.3	9.7	27.9*		97*	15
3-10-30M	19337	3.3	10.9	28.9*		103	15
3-10-30M	18214	3.2	10.3	28.4*		99	15
4-12-8M	18272	4.4	11.4*	9.6		104	14

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

W.R. GRACE & CO. GRADE	NUM	NASHVILLE		TENN		XS CL	RV	PHYS
		N	APA	POT				
4-12- 8M	18624	4.3	11.3*	10.0			104	15
4-12- 8M	18650	4.8	11.6*	9.6			107	15
4-12- 8M	19292	4.2	11.1*	9.5			101	15
4-12- 8M	17551	4.4	11.8	8.9			103	15
5-10-15S	17052	5.2	9.4*	16.0			101	15
5-10-15S	19668	4.8	9.5*	14.8			97*	15
5-10-15S	17554	5.2	9.6*	16.1			102	15
5-10-15S	18148	5.0	10.0	16.1			103	15
5-10-15S	18215	4.8	9.5*	15.5			98	15
5-10-15S	19289	5.0	10.0	15.3			101	16
5-10-15S	18886	5.1	9.3*	15.4			98	15
5-10-15S	19335	4.8	9.6*	15.5			98	15
5-10-15S	19363	5.0	9.6*	15.2	*		99	15
5-20-20M	17023	5.1	18.8*	21.0			98	15
5-20-20M	17024	5.2	19.8	20.5			101	15
5-20-20M	17025	5.7	19.5*	20.2			102	15
5-20-20M	17038	5.3	19.5*	20.7			101	15
5-20-20M	17048	5.4	20.1	20.1			102	15
5-20-20M	17180	6.0	18.6*	19.2*			99	15
5-20-20M	18653	5.3	18.9*	21.3			100	15
5-20-20M	19333	5.2	19.2*	21.0			100	15
5-20-20M	19667	5.3	19.3*	20.2			100	15
5-20-20M	18212	5.5	19.1*	21.0			101	15
5-20-20M	17992	5.4	18.8*	20.2			99	16
5-20-20M	18274	5.9	18.2*	20.2			99	16
5-20-20M	19126	5.2	18.5*	21.6			99	16
5-20-20M	19139	5.1	19.9	19.9			100	16
5-20-20M	19288	5.4	19.3*	21.0			101	16
5-20-30M	19141	5.1	20.4	29.3*			101	25
5-20-30M	18213	5.8	21.3	30.5			106	15
5-20-30M	19127	4.3*	19.0*	30.8			96*	16
6-12-12M	17049	6.0	11.8	12.7			100	15
6-12-12M	17182	6.3	12.3	13.7			106	15
6-12-12M	18652	6.0	11.2*	12.5			98	15
6-12-12M	19291	6.4	11.6*	13.3			103	15
6-12-12M	19332	6.1	11.6*	13.4			102	15
6-12-12M	19361	5.9	11.6*	11.6*			97*	15
6-12-12M	19669	6.1	11.3*	12.3			99	15
6-12-12M	17552	6.3	11.6*	13.4			102	15
10-10-10M	17037	10.0	10.4	10.1			102	15
10-10-10M	17181	10.4	9.9	10.8			103	15
10-10-10M	18651	10.4	9.9	10.6			102	15
10-10-10M	18887	9.7	10.3	9.9			99	15
10-10-10M	19334	10.1	9.9	10.7			101	15
10-10-10M	19362	9.9	10.4	11.3			103	15
10-10-10M	17553	11.0	9.3*	11.3			104	15
10-10-10M	18057	10.6	10.1	11.4			105	15
10-10-10M	17050	10.5	9.6*	11.0			103	16
10-10-10M	18709	10.1	10.1	10.7			102	16
10-10-15S	17994	10.3	10.0	15.8			103	15
10-10-15S	18266	10.4	10.2	15.7	*		104	15
10-10-15S	18669	8.7*	10.1	15.6			95*	15
10-20-20M	19112	9.3*	18.1*	23.3			97*	15
15-15-15M	18667	14.9	16.5	15.7			103	15
15-15-15M	19336	15.0	16.9	14.8			104	15
18-46- 0	19142	17.8	45.8	0.0			99	15
30- 0- 0	18276	30.2	0.0	0.0			101	19

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967
Analyses deficient more than tolerance and relative values of 97 per-
cent or less indicated by asterisk.

W.R. GRACE & CO. GRADE	NUM	NASHVILLE		TENN	XS CL	RV	PHYS
		N	APA	POT			
30- 0- 0	18671	30.6	0.0	0.0		102	19
W.R. GRACE & CO. GRADE	NUM	NEW ALBANY		IND.	XS CL	RV	PHYS
		N	APA	POT			
0- 0-60M	18262	0.0	0.0	59.6		99	16
0-13-39M	19055	0.0	12.1*	41.6		101	15
0-13-39M W/B	17834	0.0	17.1	36.4*		108	25
0-20- 0	17831	0.0	19.8	0.0		99	13
0-20- 0	18275	0.0	19.0*	0.0		95*	13
0-20- 0	17400	0.0	20.0	0.0		100	15
0-20- 0	17835	0.0	20.6	0.0		103	15
0-20- 0	19053	0.0	20.7	0.0		104	15
0-20- 0	19208	0.0	20.4	0.0		102	15
0-25-25M	18814	0.0	27.2	23.6*		104	15
0-25-25M	19069	0.0	26.0	25.3		103	15
0-25-25M	17830	0.0	30.5	19.3*		107	25
0-25-25M	17445	0.0	23.7*	27.3		100	15
0-25-25M	18268	0.0	24.8	26.0		101	15
0-25-25M	16736	0.0	26.0	25.8		104	16
0-25-25M	18251	0.0	25.1	26.5		102	16
0-25-25M	18270	0.0	25.9	26.0		104	16
0-46- 0	18253	0.0	45.9	0.0		100	15
0-46- 0	18501	0.0	45.0*	0.0		98	17
3- 9-27M	19056	3.5	10.4	26.6		107	15
3- 9-27M	18021	3.2	10.9	27.7		109	15
3-10-30M	19054	3.2	9.7	29.9		100	15
4-12- 8M	16740	4.9	11.9	10.5		111	15
4-12- 8M	17136	5.0	12.1	9.8		111	15
4-12- 8M	17837	4.6	11.6*	9.3		105	15
4-12- 8M	17981	4.5	12.1	9.9		109	15
4-12- 8M	18523	4.6	12.1	9.9		109	15
4-12- 8M	17804	4.2	11.7	9.1		102	16
4-12- 8M	18691	4.4	12.0	9.0		105	16
4-16- 4M	17081	4.6	15.7	6.3		107	11
4-16- 4S	16797	4.4	16.5	5.8		108	11
4-16- 4S	17064	4.4	16.3	5.4		107	11
4-16- 4S	17066	4.3	16.4	5.7		107	11
4-16- 4S	17158	4.4	16.3	5.9		107	11
4-16- 4S	17417	4.3	16.5	5.6		107	11
4-16- 4S	17076	4.3	16.5	5.7		108	15
5-10-15S	16871	5.1	10.3	16.0		104	13
5-10-15S	16979	5.1	10.1	16.4		103	13
5-10-15S	18264	5.1	10.1	16.0		103	14
5-10-15S	16741	5.3	10.4	15.1		103	15
5-10-15S	16794	5.2	11.2	16.9	*	110	15
5-10-15S	16916	5.2	10.6	15.7		105	15
5-10-15S	17105	5.1	11.9	14.1*	*	106	15
5-10-15S	17134	5.2	10.2	15.5		103	15
5-10-15S	17135	5.1	9.9	16.2		103	15
5-10-15S	17418	4.8	10.1	16.1		101	15
5-10-15S	17560	4.9	9.9	16.3		101	15
5-10-15S	17775	5.1	9.7	15.7		101	15
5-10-15S	17839	5.0	10.3	15.7		103	15
5-10-15S	17880	4.9	9.4*	16.9		100	15
5-10-15S	17934	4.9	10.6	15.4	*	103	15
5-10-15S	17982	5.0	9.5*	15.7		99	15
5-10-15S	18150	4.9	10.7	16.1		104	15
5-10-15S	18236	5.1	9.4*	15.4		99	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

W.R. GRACE & CO.		NEW ALBANY		IND.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-10-15S	18374	5.1	10.3	15.4		102	15
5-10-15S	18376	5.2	10.0	15.8		102	15
5-10-15S	18521	5.5	10.1	15.8		105	15
5-10-15S	17801	5.0	9.7*	15.8		100	16
5-10-15S	18250	4.9	10.0	16.3		102	16
5-10-15S	18269	5.0	11.9	15.8		109	16
5-10-15S	18766	5.1	10.3	15.7		103	15
5-10-15S	18931	5.3	10.2	15.8		104	15
5-10-15S	19081	5.2	10.2	15.2		102	15
5-10-15S	19084	5.5	10.5	15.9	*	107	15
5-10-15S	19196	5.3	10.3	15.7		104	15
5-10-15S	19297	4.9	10.3	15.2		101	15
5-20-20M	16796	5.1	20.4	21.7		103	15
5-20-20M	16915	5.3	20.1	20.7		102	15
5-20-20M	17020	5.4	20.6	21.2		105	15
5-20-20M	17021	5.3	21.8	20.6		107	15
5-20-20M	17022	5.2	21.5	21.0		106	15
5-20-20M	17197	5.1	20.6	20.8		103	15
5-20-20M	18780	5.1	20.7	20.9		103	15
5-20-20M	18930	5.2	20.9	20.0		103	15
5-20-20M	19296	5.0	19.9	21.4		102	15
5-20-20M	17402	5.3	20.5	21.6		105	15
5-20-20M	17774	5.4	20.1	20.9		103	15
5-20-20M	17785	5.9	21.5	20.0		107	15
5-20-20M	17838	6.6	18.8*	18.8*		102	15
5-20-20M	17800	5.4	19.6	21.6		103	16
5-20-20M	18249	5.3	21.2	20.8		105	16
5-20-20M	18263	5.1	20.5	21.1		103	16
5-20-20M W/B	17399	5.1	18.3*	21.1		97*	15
6- 6-18S	17833	5.9	8.3	18.2		109	15
6- 6-18S	19020	5.4*	9.9	15.4*	*	107	15
6-12-12M	16742	6.2	12.1	14.0		105	15
6-12-12M	17004	6.3	12.6	12.8		105	15
6-12-12M	17290	6.4	12.0	13.0		104	15
6-12-12M	18769	6.7	12.3	13.0		107	15
6-12-12M	17401	5.9	12.3	13.6		104	15
6-12-12M	17786	5.9	11.9	13.7		102	15
6-12-12M	17832	12.4	12.3	13.3		139	15
6-12-12M	18267	6.5	12.7	13.5		108	15
6-12-12M	18522	6.9	11.4*	11.9		103	15
6-12-12M	17802	6.4	12.3	13.3		106	16
6-12-18S	17159	6.1	12.4	19.0		103	15
6-12-18S	17829	5.9	11.9	18.7		100	15
6-12-18S	18023	6.7	12.0	18.4	*	104	16
6-12-18S	19021	6.2	11.8	19.0		102	15
6-12-18S	19070	5.9	12.1	18.4		101	15
6-24-24M	17196	5.9	23.8	24.2		100	15
6-24-24M	19052	5.8	23.8	24.3		99	15
6-24-24M	17993	6.2	24.9	23.2*		102	15
6-24-24M	19140	6.1	24.2	24.5		101	16
6-40- 6M	18252	6.2	37.9*	8.0		98	15
7-2R-14M	17144	7.7	28.4	15.2		105	15
10-10-10M	16739	9.4*	10.5	11.9		102	15
10-10-10M	16795	10.6	10.0	11.7		106	15
10-10-10M	16914	9.9	11.5	12.1		108	15
10-10-10M	16978	10.0	11.0	11.1		105	15
10-10-10M	17005	9.9	10.5	11.8		104	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

W.R. GRACE & CO.		NEW ALBANY		IND.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
10-10-10M	17019	9.8	10.5	11.6		103	15
10-10-10M	17104	10.3	10.4	11.9		106	15
10-10-10M	18767	9.6*	10.0	12.3		102	15
10-10-10M	18929	9.9	10.5	11.6		104	15
10-10-10M	19080	9.9	10.0	11.9		102	15
10-10-10M	19083	9.7	10.1	11.3		101	15
10-10-10M	19209	10.4	10.2	11.1		104	15
10-10-10M	17397	9.4*	10.5	11.7		101	15
10-10-10M	17776	9.9	10.6	11.7		104	15
10-10-10M	17840	9.7	9.7	10.6		99	15
10-10-10M	17879	9.9	11.0	11.7		106	15
10-10-10M	17983	9.9	9.7	10.8		100	15
10-10-10M	18022	9.9	11.5	11.4		107	15
10-10-10M	18520	10.1	10.4	10.6		103	15
10-10-10M	17803	9.9	9.7	10.8		100	16
10-10-10M	18265	9.6*	10.1	11.8		101	16
10-10-10M	18692	9.5*	11.6	13.2		108	16
10-10-10M	19638	10.1	10.7	11.6		106	16
12-12-12M	17398	11.7	12.0	13.4		101	15
12-12-12M	16872	12.3	12.3	12.5		102	15
12-12-12M	19022	11.4*	12.3	12.8		99	15
12-12-12M	19598	12.0	12.1	13.5		102	15
12-12-12M	18346	12.2	12.8	12.8		104	15
12-12-12M	18375	11.0*	12.1	12.5		97*	15
12-12-12M	18502	12.2	14.1	12.4		107	15
12-12-12M	18024	11.4*	13.5	13.0		103	16
28- 0- 0	19211	27.5	0.0	0.0		98	19
32- 0- 0	18238	32.2	0.0	0.0		101	19
33- 0- 0	18237	34.2	0.0	0.0		102	15
W.R. GRACE & CO., NIT. DIV.		MEMPHIS		TENN	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
33- 0- 0	16655	34.8	0.0	0.0		104	15
33- 0- 0	17127	34.0	0.0	0.0		101	15
33- 0- 0	19520	34.6	0.0	0.0		103	15
33- 0- 0	16963	33.9	0.0	0.0		101	17
33- 0- 0	17662	34.0	0.0	0.0		101	17
33- 0- 0	18768	34.5	0.0	0.0		103	17
33- 0- 0	19082	34.9	0.0	0.0		104	17
82- 0- 0	18106	82.0	0.0	0.0		100	19
82- 0- 0	18119	82.0	0.0	0.0		100	19
82- 0- 0	18126	82.0	0.0	0.0		100	19
82- 0- 0	18383	82.0	0.0	0.0		100	19
82- 0- 0	18384	82.0	0.0	0.0		100	19
82- 0- 0	18385	82.0	0.0	0.0		100	19
82- 0- 0	18389	82.0	0.0	0.0		100	19
82- 0- 0	18392	82.0	0.0	0.0		100	19
82- 0- 0	19075	82.0	0.0	0.0		100	19
82- 0- 0	19161	82.0	0.0	0.0		100	19
82- 0- 0	19162	81.9	0.0	0.0		100	19
82- 0- 0	19163	81.7	0.0	0.0		100	19
82- 0- 0	19164	82.0	0.0	0.0		100	19
82- 0- 0	19176	81.9	0.0	0.0		100	19
82- 0- 0	19177	81.8	0.0	0.0		100	19
82- 0- 0	19182	82.0	0.0	0.0		100	19
82- 0- 0	19194	82.0	0.0	0.0		100	19

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

W.R. GRACE & CO., AGRI PROD DI BOWLING GREENKY.							
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-12-20M	18037	4.2	12.5	22.1		107	10
5-15-10M	18038	5.3	16.0	10.3		106	10
5-15-10M	18848	5.3	15.7	10.1		104	10
5-15-15M	18039	4.8	15.5	15.0		101	10
6-18-12M	19368	6.4	19.7	12.2		107	10
6-18-18M	18847	6.0	17.8	18.6		100	10
7-21- 7M	19637	7.1	21.2	7.3		101	10
12-12-12M	19369	12.4	12.3	12.4		103	10
16-12- 6M	19367	16.9	12.7	6.6		106	10
W.R. GRACE & CO., AGRI PROD DI CADIZ KY.							
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-15-20M	18571	4.9	14.7	19.9		98	10
5-15-20M	18573	5.1	15.8	19.7		102	10
5-15-20M	18574	8.7	17.4	9.4*		108	10
5-15-20M	17699	5.1	14.6*	10.0*		84*	19
5-15-25M	18572	5.5	14.8	23.6*		99	10
5-15-25M	19542	5.2	14.2*	25.3		99	10
9-10-15S	19541	6.4*	8.8*	8.2*		72*	10
9-10-15S	19543	6.5*	8.8*	8.1*		73*	10
30- 0- 0	16681	24.3*	0.0	0.0		81*	19
W.R. GRACE & CO., AGRI PROD DI GUTHRIE KY.							
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-15-15M	17731	5.7	16.0	18.3		112	10
5-15-25M	19553	5.4	13.8*	25.2		99	10
9-10-15S	18569	9.3	9.8	21.2		111	10
12-12-12M	17732	15.2	10.8*	9.9*		107	10
W.R. GRACE & CO., AGRI PROD DI HOPKINSVILLE KY.							
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-12-20M	18584	3.9	11.7	21.0		100	10
4-12-24M	18588	4.0	12.2	24.6		101	10
5-15-15M	18583	5.0	15.0	14.9		100	10
5-15-20M	18586	5.1	15.8	19.2*		102	10
5-15-20M	18587	5.0	15.0	20.4		101	10
7-28-28M W/B	18961	6.8	29.7	26.9*		102	15
8-34-13M W/B	18960	7.9	34.4	13.8		101	15
9-10-15S	18582	8.9	11.0	14.7		102	10
9-10-15S	18585	9.4	10.2	16.0		104	10
10-20-10S	19351	10.1	20.5	9.4*		101	19
W R GRACE & CO AGRI PROD DIV FREDONIA KY.							
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-15-25M	17960	4.9	15.5	24.3*		100	10
7-28-28M W/ME	19153	6.3*	28.4	29.9		101	17
8-34-13M W/ME	19159	7.5*	35.3	15.0		103	17
9-27- 0	17959	9.1	27.3	0.0		101	10
30- 0- 0	17958	30.2	0.0	0.0		100	19
GRAVES COUNTY SOIL IMP. ASSN. MAYFIELD KY.							
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-51- 0	19575	0.0	52.1	0.0		102	15
14-14-14M	17654	14.8	14.7	14.7		102	26
15-60- 0	19580	14.4*	61.9	0.0		101	15
25-25- 0	19576	25.2	26.4	0.0		103	15
30- 0- 0	19578	31.5	0.0	0.0		105	15
GREAT A & P TEA CO NEW YORK N.Y.							
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
10- 6- 4M	18608	8.6*	8.3	7.5		109	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

GREEN VALLEY FARM SUPPLY		ISLAND			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-0-60M	16791	0.0	0.0	61.0		102	16
0-46-0	16790	0.0	45.6	0.0		99	18
5-40-5M	19285	4.7*	40.1	5.2		99	25
6-26-26M	18241	6.4	25.6	27.9		102	25
18-46-0	16789	18.6	47.0	0.0		103	16
GRO-GREEN CHEMICAL CO., INC.		SHELBYVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-10-30M	18354	0.0	16.3	24.2*		114	16
3-7-7S	19388	4.2	8.3	8.3		110	26
4-5-7S	19279	4.7	7.0	10.1		129	26
4-6-9S	18358	5.4	5.3*	10.1	*	104	26
4-19-19M W/B	17898	7.1	14.6*	15.5*		91*	15
5-7-10S	19195	6.0	6.2*	10.0*		96*	14
5-10-15S	18377	6.8	11.0	16.9	*	118	13
5-10-15S	18753	5.6	10.0	13.3*		101	13
5-10-15S	16806	5.2	10.4	14.5*		101	15
6-6-9S	18355	7.5	7.0	10.6		114	26
7-9-13S	19041	8.0	9.0	12.7*		102	14
7-9-14S	19197	8.5	8.7*	14.0*		97*	14
7-10-18S	18380	7.2	9.8*	19.4		99	26
7-23-9S	19386	8.4	22.8*	9.2*		100	15
8-10-14S	18362	9.3	9.9*	14.6		100	26
8-10-15S	18378	7.9	6.5*	16.9		98	15
8-10-15S	18490	8.0	10.3	13.9*		99	15
8-10-15S	19278	8.1	11.0	13.8*		102	15
8-12-15S	19039	7.9	13.5	12.2*		100	14
8-12-15S	18360	8.1	11.1*	17.0		101	16
8-12-15S	18617	8.2	10.2*	15.3	*	96*	15
8-12-15S	19387	8.5	18.0	11.3*		109	26
10-10-10M	19276	9.7	10.2	10.8		101	15
10-10-10M	19277	9.6*	10.8	9.2*		99	15
10-10-10M	17899	10.1	10.2	10.9		102	15
10-10-10M	18352	9.8	12.1	10.6		107	15
10-10-10M	18351	10.1	12.5	7.0*		103	16
10-10-10M	18361	9.9	12.3	7.0*		102	16
12-12-12M	18381	10.9*	11.3*	11.9		93*	15
14-6-8M	18357	12.0*	7.9	9.6		99	16
15-0-20M	18356	14.9	0.0	18.4*		97*	26
17-16-9M	18353	18.3	14.9*	9.2*		99	26
22-0-19M	18359	22.2	0.0	22.1		102	26
25-0-15M	19275	22.7*	0.0	15.9		93*	26
GRO-GREEN SALES CO., LEBANON		SHELBYVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
12-12-12M	18281	12.4	11.2*	14.0		102	24
12-12-12M	18282	13.5	8.8*	12.5		98	24
16-7-20M	18283	21.1	6.6*	14.6*		107	24
25-0-26M	18261	18.4*	0.0	35.4		89*	26
GULF OIL CO AGRI CHEM DIV		BOWLING GREENKY.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-10-15S	19026	5.6	11.7	14.1*		108	26
7-11-13M	18051	7.9	12.3	14.1		108	26
10-13-20M	18049	10.0	7.6*	21.3		86*	26
26-0-12M	18050	27.0	0.0	11.4*		100	26
GULF OIL CORP., AGRI CHEM DIV		CECILIA			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
3-12-12M	17140	4.2	12.4	12.9		112	13
4-12-8M	17340	5.9	12.0	9.5		117	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

GULF OIL CORP., AGRI CHEM DIV		CECILIA		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-12- 8M	17141	4.2	11.9	10.7		107	13
4-12- 8M	16725	4.0	11.3*	11.7		105	18
4-16- 4S	17142	4.4	14.7*	4.3		98	13
5-10-15M	16726	5.8	9.3*	17.5		107	18
5-10-15S	17162	5.7	9.3*	17.0		105	11
5-10-15S	17341	5.4	9.9	16.8		106	11
5-10-15S	17811	4.9	11.6	11.5*		99	16
5-20-20M	18681	5.1	21.2	21.0		105	15
5-20-20M	18702	5.2	19.8	21.6		103	15
5-20-20M	16728	5.3	20.4	20.5		103	18
6-12-12M	17145	6.6	12.8	11.4*		105	13
6-12-12M	17343	6.7	12.4	12.3		106	13
6-24-12M	18700	6.0	25.2	12.4		103	15
8-10-15S	18701	8.0	9.9	17.8		104	13
8-10-15S	17147	8.2	11.6	15.2		106	15
10-10-10M	17342	10.5	10.2	11.1		105	13
10-10-10M	18682	10.4	9.6*	10.8		102	15
10-10-10M	18703	9.9	10.9	10.6		103	15
10-10-10M	16727	10.3	10.4	11.9		106	18
10-10-10M	17812	10.4	9.7	11.6		104	16
12-12-12M	17146	11.6*	13.6	12.8		104	13
13-15-15M	19414	16.1	15.5	10.5*		105	26
16-16-16M	19413	15.6*	18.4	15.2*		100	26
27- 8-11M	19415	27.2*	8.1*	13.5		99	26
GULF OIL CORP., AGRI CHEM DIV		CLARKSON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-12- 8M	17783	4.3	11.7	10.7		107	16
4-12- 8M	19072	5.0	12.0	7.6*		106	16
4-12- 8M	19405	5.6	11.8	8.3		110	16
5-10-15S	17784	5.2	10.6	13.9*		101	16
5-10-15S	19408	5.7	9.7	17.4		108	16
5-20-20M	17781	5.1	19.6	22.4		103	16
6-12-12M	17782	6.0	12.0	13.5		103	16
6-12-12M	19407	6.6	11.8	10.9*		101	16
6-26-13M	17780	6.8	29.2	11.2*		104	26
7- 9-13S	19071	8.2	10.4	12.0*		105	26
8- 8-13S	19073	8.8	9.3	13.0		104	16
9- 8-12S	19403	8.6*	7.8*	17.0		102	26
9- 8-12S	19410	10.2	9.0	12.6		106	26
10-10-10M	17779	10.0	10.9	11.9		106	16
10-10-10M	19404	10.6	9.7	9.0*		100	16
10-10-15S	18678	11.6	10.6	15.2		107	26
10-32- 0	18679	11.6	31.5	0.0		104	26
12- 7-11S	19409	12.7	8.2	11.1		105	26
18-11-11M	19406	19.5	10.4*	12.9		102	26
18-11-11M	19412	17.4*	12.0	13.2		99	26
18-13-13M	19411	17.0*	11.8*	15.2		95*	26
22- 8-18M	18683	18.2*	10.2	23.5		95*	26
GULF OIL CORP., AGRI CHEM DIV		CLAY		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-20-30M	17953	5.4	19.9	28.8*		100	16
GULF OIL CORP., AGRI CHEM DIV		HENDERSON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-18-36M	19128	0.0	18.6	37.2		102	26
4-10-15M	19651	4.6	11.1	18.0		115	15
4-12- 8M	19154	4.8	15.8	13.8		136	15
5-10-15S	18229	5.4	9.2*	17.9		105	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

GULF OIL CORP., AGRI CHEM DIV		HENDERSON		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-10-15S	19284	5.6	10.8	16.6			109	13
5-10-15S	18242	5.7	10.2	16.0			107	14
5-10-15S	19648	5.6	9.2*	16.7			104	15
5-10-15S	18191	5.0	9.9	16.4			102	15
5-10-15S	19153	5.1	10.8	16.1			106	15
5-20-20M	17291	5.4	20.6	18.5*			101	15
5-20-20M	19117	5.4	21.8	18.6*			104	15
5-20-20M	19129	5.2	22.0	18.7*			105	15
5-20-20M	19130	5.3	22.2	19.3*			106	15
5-20-20M	19151	5.7	20.6	21.4			106	15
5-20-20M	18210	5.6	20.1	20.0			103	15
5-20-20M	18230	5.9	18.7*	23.4			105	15
5-20-20M	19298	4.9	24.3	17.7*			108	16
5-20-30M	19649	5.3	20.3	27.0*			98	15
5-20-30M	18207	5.2	19.7	30.6			101	15
5-20-30M	18208	5.4	21.1	28.4*			102	15
5-20-30M	18211	5.4	19.8	30.4			102	15
5-20-30M	18234	5.2	19.3*	30.8			100	16
5-20-30M	19131	5.1	19.7	31.6			101	16
6-18-12M	19157	6.6	17.7	14.5			105	13
6-18-12M	18243	6.7	17.6	13.7			105	16
6-24-24M	19118	6.0	23.7	24.8			100	15
6-24-24M	19152	5.6*	22.3*	26.4			97*	15
6-24-24M	19650	5.8	23.2*	23.1*			97*	15
6-24-24M	18209	6.8	28.0	19.4*			106	15
6-24-24M	18231	5.9	23.7	24.6			100	15
10-10-10M	17292	10.2	12.0	12.6			112	15
10-10-10M	19155	10.3	10.5	10.1			103	15
10-10-10M	19283	10.2	10.5	12.1			106	15
10-10-10M	18232	9.6*	12.8	12.5			112	15
10-10-10M	18244	10.2	11.0	10.1			105	16
12-12-12M	19150	11.2*	15.0	14.3			108	15
12-12-12M	18233	12.3	14.9	14.0			112	15
18-46-0	18235	18.2	46.7	0.0			102	16
30-0-0	17794	30.2	0.0	0.0			101	19
30-0-0	19067	30.5	0.0	0.0			102	19
33-0-0	17184	34.4	0.0	0.0			103	18
GULF OIL CORP AGRI CHEM DIV		IRVINGTON		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-25-25M	18686	0.0	24.2*	26.8			100	26
6-24-12M	18684	5.9	25.7	10.9*			102	26
10-20-20M	18036	10.4	19.9	19.9			101	26
15-15-15M	18685	14.5*	15.5	15.8			100	16
GULF OIL CORP., AGRI CHEM DIV		HENDERSON		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
28-0-0	18839	28.8	0.0	0.0			103	19
33-0-0	16706	33.8	0.0	0.0			101	15
82-0-0	18101	82.0	0.0	0.0			100	19
82-0-0	18103	82.0	0.0	0.0			100	19
82-0-0	18104	82.0	0.0	0.0			100	19
82-0-0	18107	82.0	0.0	0.0			100	19
82-0-0	18108	82.0	0.0	0.0			100	19
82-0-0	18112	82.0	0.0	0.0			100	19
82-0-0	18115	82.0	0.0	0.0			100	19
82-0-0	18117	82.0	0.0	0.0			100	19
82-0-0	18120	82.0	0.0	0.0			100	19
82-0-0	18121	82.0	0.0	0.0			100	19

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

GULF OIL CORP., AGRI CHEM DIV		HENDERSON KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
82- 0- 0	18124	82.0	0.0	0.0		100	19
82- 0- 0	18128	82.0	0.0	0.0		100	19
82- 0- 0	18393	82.0	0.0	0.0		100	19
82- 0- 0	19076	82.0	0.0	0.0		100	19
82- 0- 0	19178	82.0	0.0	0.0		100	19
82- 0- 0	19192	82.0	0.0	0.0		100	19
82- 0- 0	19193	82.0	0.0	0.0		100	19
GULF OIL CORP. AGRI CHEM DIV		HORSE CAVE KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0- 0-50S	17345	0.0	0.0	49.3		98	13
0-20- 0	17344	0.0	20.8	0.0		104	13
0-28-22M	18970	0.0	33.4	18.5*		107	26
10-10-10M	18969	10.9	9.7	6.3*		98	26
14-14-14M	18968	15.6	14.8	13.6*		103	26
18-46- 0	16890	18.3	46.9	0.0		102	16
GULF OIL CORP., AGRI CHEM DIV		KANSAS CITY MO.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
15-15-15M	19156	14.6*	15.7	15.8		101	15
33- 0- 0	16861	33.7	0.0	0.0		100	15
33- 0- 0	17129	34.2	0.0	0.0		102	15
33- 0- 0	18190	34.3	0.0	0.0		102	15
33- 0- 0	16977	34.1	0.0	0.0		102	17
33- 0- 0	17210	33.8	0.0	0.0		101	17
82- 0- 0	19646	82.0	0.0	0.0		100	19
GULF OIL CORP., AGRI CHEM DIV		MADISONVILLE KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0- 0-60M	16661	0.0	0.0	60.6		101	15
0-47- 0	16660	0.0	47.7	0.0		102	15
GULF OIL CORP., AGRI CHEM DIV		MORGANFIELD KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
5-20-20M	18205	5.5	21.7	21.4		108	15
6- 9- 9M	18204	5.6*	9.3	10.0		101	19
6-24-24M	17028	6.1	22.9*	25.1		99	15
15- 5- 5M	19115	14.5*	5.1	4.8		97*	19
15- 5- 5M	19116	15.4	5.2	4.8		102	19
GULF OIL CORP., AGRI CHEM DIV		OWENSBORO KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-13-42M	18001	0.0	15.4	40.6*		104	26
0-20- 0	18005	0.0	19.9	0.0		100	12
0-23-30M	18004	0.0	16.3*	38.1		93*	26
4-11-11M	19066	4.3	12.8	10.9		109	19
5-10-15S	16734	6.0	11.0	16.1		112	12
6-18- 6M	19065	6.7	20.2	4.8*		109	19
6-24-24M	18002	5.7*	23.6	25.8		100	16
10-34- 0	19068	14.6	25.8*	0.0		97*	19
11- 0-40M	18000	14.7	0.0	33.0*		106	26
12-12-12M	18003	12.5	12.2	13.6		105	16
GULF OIL CORP., AGRI CHEM DIV		STURGIS KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-23-30M	17033	0.0	25.4	28.3*		104	26
0-23-30M	18201	0.0	20.8*	33.4		99	15
6-24-24M	17034	6.2	24.3	23.5*		101	15
15-15-15M	18202	14.8	15.2	15.7		100	15
15-15-15M	18203	15.0	16.0	16.0		103	15
HERCULES POWDER COMPANY		WILMINGTON DEL.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
38- 0- 0	19246	37.8	0.0	0.0		99	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

HERITAGE HOUSE PRODUCTS, INC.			CLEVELAND		OHIO		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT						
20-10-10M	17452	20.6	12.0	11.4				108	15	
20-10-10M	18319	20.6	11.1	15.9				111	15	
HOPKINS COUNTY FARM SERVICE			MADISONVILLE KY.				XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT						
0-15-40M	17945	0.0	17.9	36.5*				103	26	
0-30-20M	17951	0.0	30.2	19.7				100	26	
5-10-15S	17950	5.1	10.5	15.6				104	14	
HUTSON CHEMICAL COMPANY			MURRAY		KY.		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT						
0-10-30M	18154	0.0	8.2*	32.9				98	13	
0-10-30M W/B	18954	0.0	9.7	31.1				101	16	
4-16-40M	17512	3.7*	14.9*	42.8				99	26	
4-16-40M	18953	4.2	15.8	40.6				101	16	
4-24-18S	19345	4.5	24.8	18.3				104	13	
5-10-10M	18153	5.0	9.1*	11.1				98	15	
5-10-15S	16663	5.1	10.3	16.1				104	11	
5-10-15S	19585	5.1	11.2	13.9*		*		103	11	
5-20-20M	18155	4.8	21.0	20.5				103	13	
5-20-20M	18182	4.9	20.3	21.4				102	13	
5-20-20M	19347	4.7	21.2	20.8				103	15	
6-12-12M	18171	5.3*	11.9	13.3				98	13	
6-12-12M	19350	6.0	13.5	12.4				106	13	
12-15-28M	18169	21.6	19.1	10.5*				119	15	
12-18-18S	19346	12.0	16.9*	19.0				99	15	
12-24-24M	19348	13.4	27.4	20.4*				107	15	
13-26-19M	18170	14.3	28.6	19.8				106	15	
14-14-14M	18168	13.2*	15.9	17.4				106	15	
15-15-15M	19349	15.7	17.2	15.5				108	15	
15-15-15M	17511	15.8	15.2	16.4				105	16	
15-15-15M	17645	16.3	16.1	14.2*				106	16	
16-16-16M	18607	16.1	17.1	17.1				104	15	
INTERNATIONAL MIN & CHEM CORP			CHICAGO		ILL.		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT						
82- 0- 0	18118	82.0	0.0	0.0				100	19	
82- 0- 0	19183	82.0	0.0	0.0				100	19	
82- 0- 0	19184	82.0	0.0	0.0				100	19	
82- 0- 0	19185	82.0	0.0	0.0				100	19	
82- 0- 0	19187	82.0	0.0	0.0				100	19	
INTERNATIONAL MIN & CHEM CORP			CINCINNATI		OHIO		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT						
0- 0-60M	17381	0.0	0.0	58.4*				97*	11	
0- 0-60M	17741	0.0	0.0	61.1				102	15	
0-10-30M	17666	0.0	11.2	30.4				106	15	
0-20-20M	16961	0.0	21.3	20.8				106	15	
0-20-20M	17090	0.0	21.5	21.3				107	15	
0-20-20M	17285	0.0	21.8	21.2				108	15	
0-20-20M	19104	0.0	20.9	21.9				106	15	
0-20-20M	18097	0.0	21.2	20.5				105	15	
0-25-25M W/B	19508	0.0	24.9	24.9				100	15	
3- 9- 6M	18978	4.0	9.3	9.8				122	15	
3-12-12M	16954	3.7	11.3*	12.0				102	15	
3-12-12M	16959	3.7	11.0*	13.3				103	15	
4-12- 8M	18785	4.1	12.8	9.2				107	15	
4-12- 8M	19464	4.8	12.3	9.9				111	15	
4-12- 8M	17661	4.6	12.6	9.6				111	15	
4-16- 4M	17061	5.2	14.3*	5.2				103	11	
4-16- 4M	16718	4.1	14.9*	4.6				97*	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

INTERNATIONAL MIN & CHEM CORP	CINCINNATI	OHIO					
GRADE	NUM	N	APA	PDT	XS CL	RV	PHYS
4-16- 4S	16836	4.0	15.8	4.8		100	11
4-16- 4S	16846	4.2	14.1*	6.3	*	98	11
4-16- 4S	17663	3.5*	14.6*	6.8		97*	11
5- 5- 0	17667	4.8	6.3	0.0		108	11
5- 5- 0	18783	4.9	6.7	0.0		112	11
5- 5- 0	19506	3.9*	5.7	0.0		93*	15
5-10- 5M	18977	7.2	9.7	8.2		123	15
5-10- 5M	18540	4.2*	9.1*	8.2		97*	15
5-10-10M	18790	5.4	11.3	11.6		112	15
5-10-10M	19106	4.2*	8.7*	7.9*		84*	15
5-10-10M	17496	5.4	10.7	11.4		108	15
5-10-10M	18317	5.7	11.0	12.2		114	15
5-10-10M	18525	4.0*	9.3*	7.4*		84*	15
5-10-10M	18539	4.3*	9.1*	8.8*		88*	15
5-10-15S	17124	5.2	10.3	15.4		103	15
5-10-15S	17062	5.2	9.6*	15.4		101	11
5-10-15S	16837	4.8	9.3*	16.0		98	15
5-10-15S	16841	4.5*	8.4*	20.7	*	102	15
5-10-15S	16952	5.1	9.4*	16.5		101	15
5-10-15S	16960	4.9	9.9	14.9		99	15
5-10-15S	17092	5.0	10.0	15.4		101	15
5-10-15S	17126	5.2	11.0	14.2*		103	15
5-10-15S	17283	5.0	10.4	15.2		102	15
5-10-15S	17495	4.7	8.9*	19.5		103	15
5-10-15S	17566	5.0	10.0	16.4	*	102	15
5-10-15S	17659	5.2	9.8	15.0	*	100	15
5-10-15S	17664	5.1	10.5	14.9		103	15
5-10-15S	17936	4.9	9.7	16.1		101	15
5-10-15S	18147	5.6	11.5	13.9*	*	107	15
5-10-15S	18541	4.8	13.2	16.9	*	116	15
5-10-15S	18787	5.0	10.6	14.1*		101	15
5-10-15S	18788	5.6	10.2	15.2		104	15
5-10-15S	19302	5.1	10.8	16.6	*	107	15
5-20-20M	16951	5.2	19.2*	20.6		99	15
5-20-20M	17089	5.3	19.3*	19.5*		98	15
5-20-20M	17123	4.9	20.6	22.1		104	15
5-20-20M	18784	4.7*	20.1	21.4		101	15
5-20-20M	18786	5.2	19.8	20.4		101	15
5-20-20M	19102	5.0	18.7*	20.7		98	15
5-20-20M	17328	5.5	19.6	20.8		102	15
5-20-20M	17384	5.1	19.1*	20.0		98	15
5-20-20M	17501	5.0	20.4	21.2		103	15
5-20-20M	19614	4.4*	19.5*	21.4		98	15
5-20-20M	17668	5.3	19.5*	20.4		100	15
5-20-20M	18096	4.8	19.7	21.3		100	15
5-20-20M	18476	4.5*	19.7	21.6		99	15
5-20-20M W/B	17767	4.9	19.6	21.4		101	15
6- 6-18S	16950	6.4	6.6	18.3		106	15
6- 6-18S	19511	7.0	7.2	16.8*	*	108	15
6- 6-18S	18287	7.0	5.5*	19.8		108	15
6-12-12M	16875	5.9	11.5*	12.5		98	15
6-12-12M	17091	6.5	12.3	13.3		106	15
6-12-12M	18976	6.1	12.6	13.4		105	15
6-12-12M	19103	6.1	11.2*	12.7		99	15
6-12-12M	17376	6.7	10.7*	13.5		102	15
6-12-12M	17379	6.4	11.1*	13.4		102	15
6-12-12M	18538	5.9	12.8	10.0*		99	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

INTERNATIONAL MIN & CHEM CORP	CINCINNATI	OHIO	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT	
6-12-18S	16717	6.0	12.1	19.5	103
6-12-18S	17327	6.5	12.0	19.3	105
6-12-18S	19663	6.3	11.9	17.0*	100
6-12-18S	17665	5.7*	12.5	18.5	101
6-12-18S	19301	5.2*	12.2	20.1	100
6-24-24M	19509	6.0	20.5*	23.1*	91*
8-32-16M	19664	6.4*	26.4*	18.9	87*
8-32-16M	18095	8.0	28.5*	16.0	93*
10- 6- 4M	17229	9.9	7.2	4.6	106
10-10-10M	16839	10.1	9.3*	11.2	100
10-10-10M	16953	9.9	9.6*	10.4	99
10-10-10M	17122	10.0	9.9	10.7	100
10-10-10M	17284	10.1	9.9	10.6	101
10-10-10M	18625	10.2	10.7	11.6	106
10-10-10M	18789	9.9	10.0	10.9	101
10-10-10M	17329	10.6	9.8	11.0	104
10-10-10M	17375	10.1	9.6*	11.8	102
10-10-10M	17383	9.8	9.7	11.6	101
10-10-10M	17502	9.3*	10.5	11.1	100
10-10-10M	17660	10.3	9.7	11.1	103
10-10-10M	17740	9.9	9.3*	11.6	99
10-10-10M	17768	10.3	9.5*	10.9	101
10-10-10M	17770	10.6	9.7*	10.6	103
10-10-10M	17917	10.4	9.6*	10.6	102
10-10-10M	18152	9.9	9.6*	10.5	99
10-10-10S	17382	10.1	9.8	11.6	102
10-10-10M W/ME	16838	9.8	10.5	11.4	103
10-10-15S	16840	9.5*	8.3*	16.6	95*
10-10-15S	19510	10.0	10.6	16.7	104
10-10-15S	18791	10.2	10.8	16.6	106
12-12-12M	19098	10.2*	14.0	12.5	99
12-12-12M	19105	11.8	13.8	12.2	104
12-12-12M	17500	11.9	13.7	12.3	105
12-12-12M	17504	11.9	12.4	12.9	102
12-12-12M	19665	11.0*	12.4	13.1	98
12-12-12M	17769	8.9*	12.0	12.9	88*
12-12-12M	18477	11.6*	12.3	15.1	103
16- 8- 8M	19097	14.3*	9.4	9.9	99
16- 8- 8M	19507	14.7*	7.0*	9.4	94*
33- 0- 0	18156	33.7	0.0	0.0	100
INTERNATIONAL MIN & CHEM CORP	CLARKSVILLE	TENN	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT	
0-20-10M	17703	0.0	21.3	12.5	110
0-20-20M	17713	0.0	20.4	18.6*	99
4-12- 8M	17704	3.9	13.5	8.2	106
5-10-10M	19340	5.8	10.2	11.0	108
5-10-10M	19561	5.2	10.7	11.1	107
5-10-15S	17705	5.1	9.9	16.7	* 103
5-10-15S	19565	4.7*	10.0	16.6	102
5-10-15S	18186	4.5*	9.7	16.9	100
5-10-15S W/ME	18579	5.2	10.3	14.4*	101
5-10-15S W/ME	17710	5.3	10.6	13.5*	* 101
5-10-15S W/ME	19555	4.8	9.7	16.7	101
5-20-20M	19341	4.9	19.0*	18.5*	95*
5-20-20M	18184	5.0	17.7*	21.6	96*
5-20-20M	18292	4.8	19.7	17.4*	95*
5-20-20M	17712	5.1	19.0*	18.3*	96*

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967
Analyses deficient more than tolerance and relative values of 97 per-
cent or less indicated by asterisk.

INTERNATIONAL MIN & CHEM CORP			CLARKSVILLE		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT					
5-20-20M W/ME	19554	4.3*	16.1*	22.5		90*	15		
5-20-20M W/ME	19563	4.8	19.1*	21.4		99	15		
6-12-12M	19562	5.6*	11.8	13.9		100	13		
6-12-12M	17714	6.3	10.6*	10.9*		94*	14		
6-12-12M	19338	5.9	11.5*	12.2		98	15		
6-12-12M	18291	6.1	10.8*	11.9		96*	16		
6-12-12M	18581	5.6*	11.1*	10.8*		92*	15		
6-12-12M W/ME	17715	5.9	11.6*	12.7		99	14		
6-24-24M	18290	5.9	22.4*	24.6		97*	25		
10-10-10M	16687	10.3	10.5	11.3		105	11		
10-10-10M	17706	7.4*	11.8	12.0		96*	13		
10-10-10M	17178	9.7*	9.6*	11.0		99	15		
10-10-10M	19342	9.4*	10.2	10.2		98	15		
10-10-10M	18185	9.8	9.3*	10.6		97*	15		
10-10-10M	18580	8.5*	9.2*	10.1		90*	15		
10-10-10M W/ME	18578	8.9*	11.1	11.4		101	15		
15-15-15M	17711	14.6*	17.0	15.0		103	16		
15-15-15M	19339	13.5*	13.1*	18.0		94*	15		
28- 0- 0	17709	29.0	0.0	0.0		104	19		
INTERNATIONAL MIN & CHEM CORP			SKOKIE		ILL.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT					
0- 0-50S	16767	0.0	0.0	50.2		100	15		
0- 0-50S	16964	0.0	0.0	49.3		98	15		
0- 0-50S	17434	0.0	0.0	49.0*		98	15		
0- 0-50S	17842	0.0	0.0	50.5		101	15		
0- 0-60M	16962	0.0	0.0	59.6		99	15		
0- 0-60M	17223	0.0	0.0	60.5		101	16		
30- 0- 0	19449	28.3*	0.0	0.0		94*	19		
33- 0- 0	16946	34.9	0.0	0.0		104	15		
33- 0- 0	18316	33.8	0.0	0.0		101	17		
33- 0- 0	19421	34.1	0.0	0.0		102	17		
82- 0- 0	19172	81.5	0.0	0.0		99	19		
82- 0- 0	19173	81.7	0.0	0.0		100	19		
82- 0- 0	19174	82.0	0.0	0.0		100	19		
INTERNATIONAL MIN & CHEM CORP			SOMERSET		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT					
0- 0-60M	16943	0.0	0.0	59.8		100	15		
0-10-30M W/B	16905	0.0	14.6	28.9*		116	15		
0-20-20M	16869	0.0	20.4	19.8		101	15		
0-20-20M	18427	0.0	20.1	21.2		102	67		
0-20-20M	17602	0.0	20.6	21.1		104	15		
0-20-20M	17963	0.0	21.0	18.6*		101	15		
3-12-12M	17278	4.6	12.0	12.9		113	15		
3-12-12M	18437	3.6	11.8	11.9		103	15		
4-12- 8M	17604	4.6	11.2*	9.0		103	15		
4-16- 4S	17074	3.9	15.8	5.8	*	103	13		
5-10- 5M	16874	4.9	10.6	6.5		106	15		
5-10-15S	17274	5.1	10.1	14.5*	*	100	15		
5-10-15S	17416	5.0	10.3	15.5	*	103	15		
5-10-15S	17601	5.3	10.0	16.6	*	105	15		
5-10-15S	17603	5.2	9.7	16.3		103	15		
5-10-15S	17684	5.0	9.7	17.0		103	15		
5-10-15S	18428	5.1	10.0	14.9		101	15		
5-10-15S	18438	5.1	10.1	15.9	*	103	15		
5-10-15S	18893	4.9	10.1	15.7		101	15		
5-10-15S	18918	5.4	10.6	15.8	*	106	15		
5-10-15S W/ME	17326	5.4	10.2	16.3		106	15		

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

INTERNATIONAL MIN & CHEM CORP	SOMERSET	KY.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT	
5-20-20M	17277	5.0	19.0*	20.4	98
5-20-20M	18896	4.8	18.5*	21.2	97*
5-20-20M	18908	5.0	19.2*	21.2	100
5-20-20M	18917	4.9	20.4	21.4	102
5-20-20M	19236	4.9	19.6	21.1	100
5-20-20M	17599	5.0	18.9*	20.7	98
5-20-20M	17607	5.0	19.1*	21.4	99
5-20-20M	17685	5.2	18.9*	19.9	98
5-20-20M	17986	4.4*	19.7	18.9*	95*
5-20-20M W/ME	16906	5.0	19.7	20.5	100
6- 6-18S	16944	6.4	5.5*	19.2	103
6-12-12M	17275	5.3*	11.8	13.5	98
6-12-12M	18894	6.1	12.5	11.0*	100
6-12-12M	18909	5.9	12.6	13.3	104
6-12-12M	18919	5.6*	12.0	18.3	110
6-12-12M	18920	5.9	12.2	12.1	100
6-12-12M	19237	5.9	12.7	11.2*	100
6-12-12M	17600	6.3	11.2*	13.5	101
6-12-12M	17605	6.4	12.0	13.9	106
6-12-12M	17971	6.0	12.0	13.7	103
6-12-12M	17975	5.8	12.6	12.4	102
6-12-18S	17276	6.4	12.4	18.3	* 104
6-12-18S	19599	6.1	12.2	17.6*	* 100
6-12-18S	18895	5.9	12.2	18.3	* 100
6-24-24M	16907	5.7	23.8	24.3	99
6-24-24M	19600	5.4*	22.6*	25.1	96*
6-24-24M	17974	5.4*	22.9*	25.3	97*
10-10-10M	16876	10.2	9.7	11.3	102
10-10-10M	16945	10.0	9.7	10.8	100
10-10-10M	17273	10.2	10.3	10.8	103
10-10-10M	18921	10.1	10.2	10.4	102
10-10-10M	19235	10.2	10.5	10.4	103
10-10-10M	17598	10.0	10.5	11.4	104
10-10-10M	17972	9.6*	10.0	10.5	99
10-10-10M	17973	9.6*	9.9	11.2	99
10-10-10M	18439	9.8	10.8	11.2	103
12-12-12M	16908	12.4	11.8	15.5	106
12-12-12M	18623	12.0	11.9	12.7	101
12-12-12M	17606	11.9	12.0	12.8	101
12-12-12M	18426	11.3*	12.3	13.7	100
KENGAS CORPORATION	OWENSBORO	KY.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT	
3-10-30M	18192	3.0	9.6*	30.5	99
4-11-11M	16731	3.4*	9.0*	8.6*	82*
4-11-11M	18026	4.6	11.5	10.5*	105
4-11-11M	18193	4.1	12.0	10.4*	104
7-21-21M	19057	6.9	20.7	20.9	99
10-34- 0	18195	10.4	34.7	0.0	103
11-37- 0	16730	11.4	37.3	0.0	102
11-37- 0	18027	11.5	37.4	0.0	102
12-40- 0	18194	11.9	39.9	0.0	100
28- 0- 0	16729	28.2	0.0	0.0	101
28- 0- 0	18025	28.5	0.0	0.0	102
37- 0- 0	18028	36.9	0.0	0.0	100
KENTUCKY FERTILIZER WORKS	WINCHESTER	KY.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT	
0- 0-50S	17450	0.0	0.0	50.4	101

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

KENTUCKY FERTILIZER WORKS		WINCHESTER			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0- 0-60M	19613	0.0	0.0	60.0		100	15
4-12- 8M	17865	3.9	11.7	9.0		100	11
4-12- 8M	17867	3.6*	11.3*	9.6		98	11
5-10-15S	18807	4.9	10.6	16.1		104	11
5-10-15S	18809	5.0	10.6	16.4		105	11
5-10-15S	19312	4.9	9.7	16.7		102	15
5-20-20M	17866	5.1	19.3*	21.4		100	11
5-20-20M	18810	5.2	19.8	21.4		102	11
6- 6-18S	17447	6.3	6.0	18.6		103	13
6- 8- 6S	18808	5.9	8.7	6.9		105	11
8-10-15S W/ME	18812	7.4*	10.6	15.7		100	11
10-10-10M	16709	9.2*	10.9	10.9		100	11
10-10-10M	18811	9.5*	10.6	11.0		101	11
10-10-10M	18464	10.0	10.2	11.0		102	13
12-12-12M	17864	11.7	11.5*	13.5		99	15
KERR-MCGEE FARM CENTER		GUTHRIE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-24-12S W/ME	18568	4.5	24.2	12.4		103	26
5-15-30M W/ME	19556	4.9	12.7*	33.1		98	25
KERR-MCGEE FARM CENTER		CADIZ			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-26-26M	18577	0.0	27.2	25.7		103	24
4-24-12M W/ME	17700	4.3	23.0*	13.1		100	25
5-10-15S	19545	5.3	10.1	16.6		106	14
6-24-24M	17701	8.1	29.4	20.2*		115	23
8-28-12S W/ME	18576	7.6*	26.0*	13.5		96*	25
10-10-10M	17702	10.0	11.1	11.3		106	23
10-10-10M	18575	7.0*	6.9*	10.1		75*	23
18-46- 0	19544	17.7	46.4	0.0		100	16
33- 0- 0	16682	34.6	0.0	0.0		103	17
KERR-MCGEE FARM CENTER		PEMBROKE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-24-12M	17716	4.6	23.8	12.4		103	16
4-32-16M	16689	4.5	32.7	16.3		104	26
5-15-30M W/ME	19552	5.3	15.8	30.1		103	26
5-25-15M	18566	5.1	23.1*	19.0		101	23
8-12-20S W/ME	18567	8.6	13.5	19.8		107	23
10-10-10M	18565	10.1	11.5	10.0		105	23
10-10-10M	17717	8.0*	8.6*	11.9		89*	16
LIVESTOCK INDUSTRIES INC.		PARK CITY			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-20-20M	18073	0.0	21.2	20.7		105	11
4-12- 8M	18072	3.9	11.8	9.0		100	11
5-10-15S	18070	4.6*	10.0	15.9		100	11
5-10-15S	18628	4.9	10.1	15.9		102	15
5-20-20M	18630	5.0	18.5*	21.5		98	15
6-12-12M	18074	6.6	12.6	15.1		111	13
10-10-10M	18629	9.9	10.0	11.4		102	15
10-10-10M	18071	10.0	10.3	11.9		104	15
MOBIL CHEM CO, AGRI CHEM DIV		RICHMOND			VA.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-10-30M W/B	16819	0.0	10.9	28.6*		101	15
0-10-30M W/B	17393	0.0	11.8	28.3*		104	15
0-10-30M W/ME	18820	0.0	10.3	30.8		103	16
0-20- 0	16744	0.0	15.4*	0.0		77*	15
0-20- 0	17110	0.0	21.0	0.0		105	15
0-20- 0	17304	0.0	20.6	0.0		103	15

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Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

MOBIL CHEM CO, AGRI CHEM DIV GRADE	NUM	RICHMOND		VA.		XS CL	RV	PHYS
		N	APA	POT				
0-20-0	16707	0.0	20.6	0.0			103	16
0-20-0	18821	0.0	20.1	0.0			100	16
0-20-0	18592	0.0	20.3	0.0			101	15
0-20-0	18738	0.0	20.6	0.0			103	15
0-20-0	19216	0.0	17.6*	0.0			88*	15
0-20-0	19230	0.0	20.9	0.0			105	15
0-20-0	19357	0.0	19.8	0.0			99	15
0-20-0	19422	0.0	19.8	0.0			99	15
0-20-20M	17473	0.0	20.4	22.0			105	13
0-20-20M	17097	0.0	20.9	20.8			104	15
0-20-20M	18734	0.0	20.6	18.4*			99	15
0-20-20M	19231	0.0	19.3*	21.5			100	15
0-20-20M	19215	0.0	21.7	21.0			107	25
0-20-20M	18335	0.0	20.5	22.5			106	15
0-20-20M	16691	0.0	18.5*	23.0			100	16
0-20-20M	16867	0.0	20.4	21.3			103	16
0-20-20M	19482	0.0	20.4	21.2			103	16
0-46-0	18228	0.0	45.1*	0.0			98	15
3-10-30M	18733	3.0	10.9	29.7			102	15
4-12-8M	18589	4.4	11.9	10.9			109	14
4-12-8M	16648	4.7	15.7	11.4			129	15
4-12-8M	16708	5.4	16.1	9.9			132	15
4-12-8M	16746	4.3	12.6	8.9			107	15
4-12-8M	17099	3.9	13.5	10.1			111	15
4-12-8M	18739	5.0	16.2	13.7			139	15
4-12-8M	18984	5.2	15.6	13.0			136	15
4-12-8M	19217	4.2	12.0	9.4			104	25
4-12-8M	17302	4.9	13.5	9.9			117	15
4-12-8M	17392	5.3	16.5	11.7			137	15
4-12-8M	17519	4.1	13.2	8.4			107	15
4-12-8M	17589	5.6	16.2	12.8			141	15
4-12-8M	18090	4.5	18.8	13.6			147	15
4-12-8M	18135	4.4	18.5	12.8			143	15
4-12-8M	18189	3.9	12.1	8.9			102	15
4-12-8M	18337	4.7	18.9	14.0			150	15
4-12-8S	17470	4.2	12.6	8.9	*		106	15
4-12-12M	19356	4.8	12.2	13.3			109	15
4-12-12M	17471	4.4	12.1	12.1			103	15
4-16-4S	16850	4.1	17.1	4.8			107	11
4-16-4S	17422	4.6	16.6	4.1	*		106	11
4-16-4S	17939	4.4	15.8	5.2	*		104	11
4-16-4S W/ME	16886	4.3	16.7	6.1	*		109	11
4-16-4S W/ME	17154	3.9	15.9	5.8	*		102	11
4-16-4S W/ME	19569	4.0	16.3	5.9	*		105	11
5-10-10M	16877	4.7*	10.9	10.6			103	15
5-10-10M	19527	5.0	10.7	11.2			106	15
5-10-10M	18091	4.8	10.5	11.9			105	15
5-10-15S	19036	5.2	10.2	16.0			104	14
5-10-15S	17271	6.4	9.7	14.5*	*		106	15
5-10-15S	17296	5.1	10.4	15.2	*		102	15
5-10-15S	17301	5.1	10.5	15.4	*		103	15
5-10-15S	17518	4.0*	12.8	16.7	*		108	15
5-10-15S	19570	4.8	10.6	15.4			102	15
5-10-15S	19584	4.1*	10.2	16.7			98	15
5-10-15S	17686	5.2	10.6	15.8	*		105	15
5-10-15S	17922	5.7	10.5	14.0*	*		104	15
5-10-15S	17948	4.9	10.7	14.9	*		102	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

MOBIL CHEM CO, AGRI CHEM DIV		RICHMOND		VA.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-10-15S	18017	4.8	11.0	16.0	*	105	15
5-10-15S	18089	5.9	12.3	13.7*	*	112	15
5-10-15S	18339	6.0	12.0	15.9	*	115	15
5-10-15S	18606	4.9	11.7	13.3*	*	103	15
5-10-15S	18871	4.8	11.2	13.8*		101	15
5-10-15S	18882	5.0	10.2	15.6		102	15
5-10-15S	19147	5.3	10.2	15.3	*	103	15
5-10-15S	19221	5.1	10.5	15.3	*	103	25
5-10-15S W/ME	17299	6.0	10.3	14.1*	*	105	15
5-10-15S W/ME	17919	5.9	10.6	13.7*	*	106	15
5-10-15S W/ME	18982	5.2	10.2	15.4	*	103	15
5-20-20M	19038	4.9	19.7	21.9		101	14
5-20-20M	16649	5.2	21.0	18.9*		102	15
5-20-20M	16818	5.1	20.9	18.4*		101	15
5-20-20M	16910	5.2	20.4	21.7		104	15
5-20-20M	17112	5.2	17.4*	21.4		96*	15
5-20-20M	18735	4.6*	18.3*	21.7		96*	15
5-20-20M	18817	4.9	20.1	20.5		100	15
5-20-20M	19148	5.1	19.9	20.7		101	15
5-20-20M	19229	5.7	17.4*	19.0*		94*	15
5-20-20M	19286	5.6	18.2*	19.2*		97*	15
5-20-20M	19329	5.0	18.1*	18.2*		92*	15
5-20-20M	19218	4.7	18.3*	19.2*		93*	25
5-20-20M	17395	5.0	20.4	20.0		101	15
5-20-20M	17517	5.2	21.1	18.5*		102	15
5-20-20M	17742	5.6	19.2*	22.1		103	15
5-20-20M	17920	5.1	20.2	21.1		103	15
5-20-20M	17949	5.3	19.1*	21.3		100	15
5-20-20M	18092	5.0	19.8	18.8*		98	15
5-20-20M	18138	5.6	18.5*	21.4		100	15
5-20-20M	18336	5.3	20.6	21.0		104	15
5-20-20M	16866	5.8	19.1*	21.2		102	16
5-20-20M	17100	5.3	19.5*	21.0		101	16
5-20-20M	18822	5.0	19.8	18.7*		98	16
5-20-20M W/B	17394	4.9	20.0	21.0		101	15
5-20-20M W/B	18338	4.9	21.2	18.7*		101	15
5-20-20M W/ME	16692	5.1	19.8	19.6		99	15
5-20-20M W/ME	17468	4.9	19.8	21.9		102	15
5-20-20M W/ME	17724	5.2	18.9*	18.9*		97*	15
5-20-20M W/ME	17923	4.9	20.1	19.5*		99	17
6-12-12M	17114	6.0	12.4	13.4		104	13
6-12-12M	16745	5.9	12.1	12.8		101	15
6-12-12M	18605	6.0	12.5	12.9		104	15
6-12-12M	18816	6.0	12.6	12.5		103	15
6-12-12M	19320	5.9	12.5	12.3		102	15
6-12-12M	17303	5.8	12.3	12.4		101	15
6-12-12M	17520	6.1	12.8	12.4		104	15
6-12-12M	19571	5.6*	12.0	14.0		102	15
6-12-12M	18136	6.0	12.6	13.5		105	15
6-12-18S W/ME	17174	6.7	12.3	17.0*	*	103	15
6-12-18S W/ME	17723	6.1	12.9	18.0	*	103	15
6-12-18S W/ME	17918	6.6	10.9*	19.2	*	101	15
6-12-18S W/ME	18818	6.0	12.3	18.9	*	103	15
6-12-18S W/ME	19360	6.1	13.0	18.8	*	105	15
6-12-18S	16911	6.6	11.5*	19.0	*	103	15
6-12-18S	17272	6.2	12.1	18.8		103	15
6-12-18S	17258	6.5	11.1*	19.3	*	101	16

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

MOBIL CHEM CO, AGRI CHEM DIV			RICHMOND		VA.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
6-12-18M W/ME	17469	6.0	12.3	19.3	103	13		
6-12-18S W/ME	19035	5.9	11.9	19.3	101	14		
6-12-18S W/ME	16851	5.9	12.3	19.5	103	15		
6-12-18S W/ME	17111	6.0	12.5	18.7	103	15		
6-12-18S W/ME	17590	6.1	11.8	18.4	100	15		
6-12-18S W/ME	18260	6.3	11.5*	18.8	101	15		
6-12-18S W/ME	18590	6.1	12.5	18.3	103	16		
6-12-18S W/ME	18740	6.2	11.9	17.0*	99	15		
6-12-18S W/ME	19214	6.1	12.3	18.6	102	15		
6-12-18S W/ME	19355	6.0	12.5	18.8	103	15		
6-18-12M	19299	5.8	16.8*	13.6	98	15		
6-18-12M W/ME	17722	5.8	16.9*	12.9	97*	15		
6-24-12M	19423	6.4	23.0*	13.5	101	15		
6-24-24M	18591	6.3	24.0	23.1*	100	15		
6-24-24M	18597	6.9	23.7	21.3*	100	15		
6-24-24M	18737	6.4	25.6	21.9*	102	15		
6-24-24M	17947	6.6	24.2	22.2*	101	15		
10- 6- 6M	17563	10.6	7.3	5.2*	107	13		
10-10-10M	19037	9.9	10.4	11.2	103	14		
10-10-10M	16817	10.9	10.0	10.5	105	15		
10-10-10M	16878	10.5	10.3	10.4	104	15		
10-10-10M	16912	10.1	10.7	10.6	104	15		
10-10-10M	17295	9.6*	10.1	11.3	101	15		
10-10-10M	18736	9.5*	10.9	11.4	102	15		
10-10-10M	18819	9.8	10.3	11.3	102	15		
10-10-10M	18881	10.2	10.1	11.7	104	15		
10-10-10M	18985	9.9	10.3	9.9	100	15		
10-10-10M	19149	9.7	10.3	10.6	101	15		
10-10-10M	19219	10.1	10.2	11.4	103	15		
10-10-10M	19287	9.6*	10.8	10.8	102	15		
10-10-10M	19319	9.9	10.9	11.1	104	15		
10-10-10M	19331	9.8	10.6	10.5	102	15		
10-10-10M	17300	10.3	10.0	10.8	103	15		
10-10-10M	17550	10.2	10.4	10.4	103	15		
10-10-10M	17687	10.3	10.2	10.7	103	15		
10-10-10M	17921	10.8	10.3	10.1	105	15		
10-10-10M	17946	10.5	9.8	11.5	104	15		
10-10-10M	18137	9.4*	10.9	11.3	102	15		
10-10-10M	18188	9.9	10.3	10.8	102	15		
10-10-10M	18823	10.3	10.5	11.0	105	16		
10-10-10M	19481	10.2	10.3	11.1	104	16		
10-10-10M W/ME	17113	10.0	10.1	11.7	103	15		
10-10-10M W/ME	17467	10.2	10.3	11.2	104	15		
10-10-10M W/ME	17721	9.4*	10.0	10.8	98	15		
10-10-10M W/ME	18983	10.2	10.2	10.6	103	15		
12-12-12M	17098	11.8	12.6	11.9	101	15		
12-12-12M	19228	12.3	12.5	13.0	104	15		
15-15-15M	18824	14.9	16.8	14.4*	103	15		
15-15-15M	19227	14.6*	15.5	16.7	101	17		
15-15-15M	17472	12.8*	14.0*	15.9	91*	15		
15-15-15M	19677	12.0*	14.6*	15.4	90*	15		
15-15-15M	18254	11.5*	15.1	15.1	89*	15		
15-15-15M W/ME	18825	14.6*	16.5	15.2	102	15		
16- 8- 8M	19220	14.1*	10.7	10.1	103	15		
20-10- 5M	19248	17.6*	9.6*	5.5	91*	11		
28- 0- 0	17305	28.6	0.0	0.0	102	19		
28- 0- 0	19040	27.9	0.0	0.0	99	19		

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

MOBIL CHEM CO, AGRI CHEM DIV		RICHMOND		VA.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
28- 0- 0	19232	28.5	0.0	0.0		102	19
28- 0- 0	19483	28.2	0.0	0.0		101	19
82- 0- 0	18109	82.0	0.0	0.0		100	19
82- 0- 0	18387	82.0	0.0	0.0		100	19
82- 0- 0	18394	82.0	0.0	0.0		100	19
82- 0- 0	19074	82.0	0.0	0.0		100	19
82- 0- 0	19189	82.0	0.0	0.0		100	19
82- 0- 0	19645	82.0	0.0	0.0		100	19
MONSANTO COMPANY		ST. LOUIS		MO.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-20-20M	17952	4.3*	18.7*	19.2*		93*	26
33- 0- 0	19501	33.9	0.0	0.0		101	15
33- 0- 0	16980	33.8	0.0	0.0		101	17
82- 0- 0	18105	82.0	0.0	0.0		100	19
MONSANTO AGRI. CENTERS, INC.		SLAUGHTERS		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-20-34M	18227	0.0	21.8	33.2*		104	26
0-26-26M	17008	0.0	23.8*	29.1		98	23
5-20-20M	17007	5.8	21.7	20.1		108	23
5-20-20M	18223	5.6	20.4	20.8		105	25
5-20-20M	18224	4.0*	16.8*	22.0		90*	26
5-20-30M	18225	5.3	23.8	28.8*		109	25
6-24-24M	18226	5.1*	22.8*	28.1		99	25
NA-CHURS PLANT FOOD COMPANY		MARION		OHIO			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
2-20-18M	19469	2.1	20.1	18.5		101	19
5-15-10M	18350	5.2	16.4	11.4		109	19
5-15-15M	19471	5.2	15.8	15.0		103	19
5-20- 5M	19468	6.1	21.0	6.1		110	19
7-14- 7M	19465	7.7	15.2	7.8		109	19
10-20-10M	18349	10.0	19.8	10.1		100	19
10-20-10M	19470	9.9	20.0	10.1		100	19
10-20-10S	19013	9.0*	20.1	10.8		97*	19
NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0- 0-50S	18731	0.0	0.0	49.2		98	11
0- 0-60M	19420	0.0	0.0	58.3*		97*	15
0- 0-60M	18305	0.0	0.0	59.6		99	15
0-20- 0	17370	0.0	18.9*	0.0		95*	11
0-20-20M	17386	0.0	20.4	20.2		101	11
0-20-20M	17165	0.0	20.2	20.8		102	12
0-25-25M	18948	0.0	21.8*	27.6		95*	15
0-25-25M	19429	0.0	22.2*	26.1		94*	25
4-12- 8M	16810	4.2	11.4*	8.9		101	11
4-12- 8M	18516	4.4	11.1*	8.9		100	11
4-12- 8M	18718	4.1	11.2*	9.2		100	11
4-12- 8M	18940	3.9	11.2*	9.2		98	11
4-12- 8M	17313	4.2	11.9	9.2		103	13
4-12- 8M	17683	4.4	11.7	9.4		105	13
4-16- 4S	17240	4.0	15.0*	5.9	*	100	11
4-16- 4S	17369	3.9	15.2*	5.5		100	11
5-10-15S	17385	4.7*	11.2	15.8	*	104	11
5-10-15S	18300	4.7*	9.4*	16.6		99	11
5-10-15S	18304	4.7*	9.7	16.1		99	11
5-10-15S	18517	4.7	9.9	15.2		98	11
5-10-15S	18732	4.9	10.0	16.2		102	11
5-10-15S	18941	4.6*	10.3	15.4		100	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

NORTH AMERICAN FERTILIZER CO.		LOUISVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-10-15S	18944	4.8	9.7	15.9		99	11
5-10-15S	17164	4.9	10.1	15.4		100	12
5-10-15S	17580	4.9	9.7	15.5		99	12
5-10-15S	17314	4.6*	9.2*	16.1		97*	13
5-10-15S W/ME	17390	4.9	10.0	15.1		100	11
5-20-20M	17167	5.4	20.4	20.6		103	14
5-20-20M	18945	5.6	18.6*	21.4		100	15
5-20-20M	17956	5.2	20.1	21.1		102	16
5-20-30M	17389	5.4	19.9	28.5*		100	15
5-20-30M	17954	5.0	17.5*	31.3		96*	16
6- 6-18M	18372	5.9	7.5	18.3		106	11
6- 6-18S	17388	5.6*	6.9	18.1		101	11
6- 6-18S	18947	5.8	6.7	18.1		102	11
6- 6-18S	17577	5.9	6.3	18.8		102	12
6- 6-18S W/ME	19432	5.9	7.5	18.3		106	11
6- 8- 6M	17391	6.1	8.5	7.7		108	11
6-12-12M	17168	6.4	12.1	14.0		106	14
6-12-12M	17387	6.2	12.0	14.2		105	15
6-12-12M	18302	6.3	11.9	13.9		105	15
6-12-12M	18515	6.2	13.8	12.5		109	15
6-12-18S	17578	5.9	12.0	18.4		100	12
6-12-18S	18513	6.0	12.4	18.8	*	103	13
6-12-18S	19433	6.2	11.9	18.5	*	101	15
6-24-12M	19431	6.1	22.4*	15.1		100	15
6-24-24M	19430	6.8	22.8*	22.4*		98	15
6-24-24M	17955	6.0	23.0*	25.4		99	16
8-10-15S	18943	7.7	9.7	16.1		100	11
8-10-15S	17579	7.7*	9.5*	16.2		98	12
8-10-15S W/ME	18491	7.5*	9.7	15.5		98	11
8-10-15S W/ME	19435	7.5*	10.2	15.8		99	11
10-10-10M	16811	9.4*	9.6*	11.6		98	11
10-10-10M	18514	9.8	10.1	10.4		100	11
10-10-10M	18719	10.1	9.9	10.8		101	11
10-10-10M	18942	9.9	10.6	11.6		104	11
10-10-10M	18946	9.6*	10.6	10.6		101	11
10-10-10M	19424	9.3*	10.3	10.8		99	11
10-10-10M	17312	9.9	9.6*	11.1		100	13
10-10-10M	17166	9.1*	10.0	13.1		100	14
10-10-10M	17581	9.9	10.3	12.0		104	14
10-10-10M	17152	10.6	9.4*	10.4		101	15
10-10-10M	19087	9.8	9.7	11.3		100	15
10-10-10M	19434	9.9	10.3	11.9		103	15
10-10-10M	18492	10.3	9.7*	10.6		101	15
10-10-10M	18518	10.2	9.3*	11.9		102	15
10-10-10M	18519	10.5	9.6*	11.0		103	15
OHIO VALLEY FERTILIZER, INC.		MAYSVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0- 0-60M	17207	0.0	0.0	60.5		101	15
0-20- 0	17215	0.0	18.8*	0.0		94*	13
0-20- 0	17902	0.0	18.8*	0.0		94*	13
0-20- 0	17903	0.0	19.6	0.0		98	13
0-20-20M	18325	0.0	20.7	22.6		107	15
3-12-12M	18866	3.9	11.6*	12.7		106	13
3-12-12M	19373	3.8	10.6*	10.6*		96*	15
4-12- 8M	18868	5.3	10.5*	8.5		103	13
4-16- 4S	19389	5.1	14.2*	6.7		105	15
5- 9-14S	19393	5.2	9.2*	15.2		99	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

OHIO VALLEY FERTILIZER, INC.		MAYSVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-9-14S	19394	5.5	9.0*	15.6		101	15	
5-10-10M	17503	5.8	9.5*	10.8		105	13	
5-10-10M	18863	5.9	11.2	9.6*		110	13	
5-10-10M	19644	6.6	9.8	9.5*		109	13	
5-10-10M	19371	5.8	9.3*	9.3*		101	15	
5-10-10M	18099	5.9	9.7	9.9		105	15	
5-10-10M	18323	5.5	9.5*	10.8		103	15	
5-10-15S W/ME	18876	5.5	10.3	18.5		111	15	
5-10-15S	18861	5.4	9.7	15.7		103	11	
5-10-15S	17208	5.4	10.0	13.7*		100	13	
5-10-15S	18326	5.7	9.4*	15.7		103	15	
5-10-20S	18422	5.4	10.4	18.9*		101	15	
5-10-20S W/ME	19372	5.2	10.6	18.6*		101	15	
5-20-20M	17206	5.6	17.0*	20.1		94*	15	
5-20-20M	18867	5.8	17.9*	18.4*		95*	15	
5-20-20M	17900	5.5	16.9*	20.5		94*	15	
5-20-20M	17901	5.7	16.9*	19.3*		93*	15	
5-20-20M	18421	5.8	17.8*	18.3*		95*	15	
6-6-18S	17209	5.8	6.8	17.2*		100	13	
6-8-6S	18858	6.3	8.3	7.8		108	15	
6-12-18S	18877	6.5	14.6	13.7*		104	15	
6-12-18S W/ME	18859	7.0	12.9	16.3*		105	15	
6-24-12S	18860	6.3	22.8*	12.2		98	15	
7-7-15S	19390	10.4	10.2	14.3*		126	25	
8-10-15S W/ME	18865	7.7*	10.3	15.8		101	13	
8-10-15S	18328	7.6*	10.3	15.2		99	15	
8-10-15S W/ME	18423	7.9	9.9	15.4		99	11	
8-10-15S W/ME	18879	7.6*	10.5	15.6		100	11	
8-10-15S W/ME	18875	9.0	11.6	13.3*		107	15	
8-10-15S W/ME	18878	7.6*	10.8	13.9*		99	15	
9-9-9M	19392	10.0	10.6	9.5		103	15	
10-10-10M	17218	9.9	10.4	10.0		101	13	
10-10-10M	18864	10.0	10.6	8.1*		99	13	
10-10-10M	19370	10.1	10.8	8.7*		101	15	
10-10-10M	18324	9.6*	10.5	9.0*		98	15	
10-10-10M	18327	9.5*	10.1	10.1		98	15	
10-10-20S W/ME	18619	11.6	11.9	19.2*		111	15	
10-10-20S	19375	10.2	11.5	17.3*		101	15	
10-10-20S	19391	10.8	10.6	17.9*		102	15	
10-10-20S W/ME	18874	9.6*	9.7	18.0*		94*	15	
12-12-12M	18862	11.0*	14.1	11.1*		100	15	
12-12-12M	19100	11.5*	13.8	10.8*		101	15	
12-12-12M	19374	12.6	11.9	10.2*		100	15	
12-12-12M	17505	11.4*	12.0	14.0		100	15	
12-12-12M	19643	10.1*	12.4	13.6		95*	15	
12-12-12M	18098	11.5*	13.2	12.8		102	15	
OLIN MATHIESON CHEM. CORP.		LITTLE ROCK		ARK.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
6-24-24M	18598	6.5	24.1	24.5		102	15	
6-24-24M	17651	6.4	24.9	24.9		104	15	
6-24-24M	18957	6.0	25.3	23.2*		102	16	
10-20-10M	18956	10.3	21.3	10.6		105	15	
11-48-0	18958	10.9	47.6	0.0		99	16	
PENNYROYAL SUPPLY CO.		HOPKINSVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-20-0	19539	0.0	22.3	0.0		112	26	
4-30-20M	18559	4.2	31.2	19.8		103	24	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

PENNYROYAL SUPPLY CO.		HOPKINSVILLE KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
5-10-15S	18563	6.0	11.7	16.3	*	115	24
5-20-20M	18558	4.4*	20.6	19.8		99	24
6-12-12M	18295	5.4*	11.4*	13.4		97*	26
6-12-18S	19540	6.2	12.9	18.3		104	24
6-18-12M	19537	3.4*	10.2*	15.9		70*	24
9-10-15S	18564	8.3*	9.5*	19.0		102	24
10-12-12M	18561	6.0*	5.4*	11.1*		61*	24
10-12-18S	19536	7.0*	6.0*	24.7		80*	24
10-12-18S	19538	5.1*	4.7*	29.5		75*	24
20-12-12M	18557	21.7	20.0	6.7*		116	24
20-15-15M	18560	20.0	12.7*	16.6		97*	24
22- 8- 7M	19535	21.8	4.7*	10.2		95*	26
PHILLIPS PETROLEUM CO.		HARTLESVILLE CKLA			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
82- 0- 0	18116	82.0	0.0	0.0		100	19
82- 0- 0	18391	82.0	0.0	0.0		100	19
82- 0- 0	19077	82.0	0.0	0.0		100	19
82- 0- 0	19374	82.0	0.0	0.0		100	19
RA-PID-GROW CORPORATION		DANSVILLE N.Y.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
23-19-17M	16812	21.7*	19.8	18.7		100	11
F. S. ROYSTER GUANO COMPANY		NORFOLK VA.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-20- 0	17308	0.0	20.1	0.0		100	15
0-20- 0	17439	0.0	19.5*	0.0		97*	15
0-20- 0	17489	0.0	14.0*	0.0		70*	15
0-20- 0	19500	0.0	20.6	0.0		103	15
0-20- 0	17884	0.0	18.5*	0.0		93*	15
0-20- 0	18368	0.0	20.2	0.0		101	15
0-20- 0	17810	0.0	20.9	0.0		105	16
0-20- 0	18664	0.0	19.8	0.0		99	15
0-20- 0	18724	0.0	20.6	0.0		103	15
0-20- 0	18993	0.0	20.4	0.0		102	15
0-20-20M	17093	0.0	19.5*	21.4		101	15
0-20-20M W/B	17539	0.0	19.2*	21.7		100	15
0-20-20M W/ME	17279	0.0	17.6*	23.5		98	15
0-20-20M W/ME	18996	0.0	19.9	22.3		104	15
0-20-20M W/ME	19270	0.0	20.6	18.9*		100	15
0-46- 0	17809	0.0	46.4	0.0		101	16
3-12-12M	17306	3.4	12.1	12.7		105	15
3-12-12M W/ME	18799	3.7	12.6	12.5		108	15
4-12- 8M	17095	4.5	12.0	8.3		104	15
4-12- 8M	17595	4.0	12.3	8.6		103	15
4-12- 8M	17868	3.8	12.0	8.1		99	15
4-12- 8M	19479	4.4	12.4	10.0		109	16
4-12- 8M W/ME	17488	5.3	11.8	9.9		112	13
4-12- 8M W/ME	17309	3.9	12.6	8.3		102	15
4-12- 3M W/ME	17437	4.2	12.7	8.8		106	15
4-12- 9M W/ME	17887	4.8	11.9	9.9		109	15
4-12- 9M W/ME	18133	4.8	12.9	9.2		112	15
4-12- 8M W/ME	18146	3.7*	12.6	8.1		101	15
4-12- 8M W/ME	18371	4.2	12.8	9.2		108	16
4-12- 8M W/ME	18999	4.8	12.5	9.1		110	15
4-12- 3M W/ME	19457	4.3	12.3	9.5		107	15
4-16- 4S	16766	4.8	15.8	5.1	*	106	15
4-16- 4S W/ME	17486	4.9	15.5*	5.5	*	107	11
4-16- 4S W/ME	16998	4.9	17.0	3.8	*	109	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

F. S. ROYSTER GUANO COMPANY			NORFOLK		VA.			
GRADE		NUM	N	APA	POT	XS CL	RV	PHYS
5-10-15S	W/ME	17281	4.7	11.6	17.1	*	109	15
5-10-15S	W/ME	17491	8.5	11.7	13.9*	*	126	15
5-10-15S	W/ME	17869	5.1	10.2	14.6		101	15
5-10-15S	W/ME	18369	5.7	10.5	14.9		106	15
5-10-15S	W/ME	18511	5.0	10.3	15.2		102	15
5-10-15S		17490	5.3	10.1	15.3		103	13
5-10-15S		17094	5.1	10.1	15.1		101	15
5-10-15S		17307	5.3	10.5	14.5*		103	15
5-10-15S		17540	5.7	12.6	15.4	*	116	15
5-10-15S		17594	5.6	10.3	16.1		107	15
5-10-15S		18134	5.0	11.3	15.2		106	19
5-10-15S		18139	5.3	10.9	15.4		106	19
5-10-15M	W/ME	17311	5.0	10.4	15.8		103	15
5-10-15S	W/ME	16804	4.9	9.9	15.9		101	15
5-10-15S	W/ME	16824	5.0	10.1	15.2		100	15
5-10-15S	W/ME	16831	5.1	10.5	15.5		104	15
5-10-15S	W/ME	16842	5.8	10.5	15.5		108	15
5-10-15S	W/ME	16918	5.3	10.7	15.9	*	106	15
5-10-15S	W/ME	16999	5.4	10.8	15.4		106	15
5-10-15S	W/ME	17441	5.3	10.4	15.8		105	15
5-10-15S	W/ME	17530	5.1	10.3	14.9		102	15
5-10-15S	W/ME	19581	5.0	9.8	16.1		102	15
5-10-15S	W/ME	17857	5.5	10.3	16.3		107	15
5-10-15S	W/ME	18239	4.9	10.1	15.4		100	15
5-10-15S	W/ME	18333	4.5*	10.1	16.6		101	15
5-10-15S	W/ME	18365	5.9	11.0	14.9		109	15
5-10-15S	W/ME	18367	5.4	11.1	14.2*	*	105	15
5-10-15S	W/ME	18806	5.2	10.9	15.8		106	16
5-10-15S	W/ME	19309	5.1	10.5	15.4		103	16
5-10-15S	W/ME	18725	5.8	10.8	15.4		108	15
5-10-15S	W/ME	18797	5.1	11.0	15.2		105	15
5-10-15S	W/ME	18939	5.3	10.3	16.1		105	15
5-10-15S	W/ME	18987	5.3	10.1	14.9		102	15
5-10-15S	W/ME	18991	5.2	10.3	15.3		103	15
5-10-15S	W/ME	18998	5.5	10.6	13.7*		103	15
5-10-15S	W/ME	19273	4.9	10.6	15.7		103	15
5-10-15S	W/ME	19305	5.3	11.7	12.5*		103	15
5-10-15S	W/ME	19440	5.9	10.5	15.2		108	15
5-20-20M		16765	6.1	19.5*	19.2*		102	15
5-20-20M		16844	4.6*	20.1	20.0		99	15
5-20-20M		17282	5.2	19.3*	21.9		101	15
5-20-20M		18666	5.3	17.1*	21.2		95*	15
5-20-20M		18727	4.8	17.3*	21.6		94*	15
5-20-20M		18914	4.7*	20.4	20.2		100	15
5-20-20M		18936	4.7*	19.6	21.2		99	15
5-20-20M		18988	4.8	18.9*	21.4		98	15
5-20-20M		18994	5.1	20.6	20.9		103	15
5-20-20M		19120	4.7*	18.5*	21.4		97*	15
5-20-20M		19224	5.2	19.8	21.0		102	15
5-20-20M		19307	4.7*	18.6*	21.7		97*	15
5-20-20M		19439	5.3	19.8	20.6		101	15
5-20-20M		17310	5.1	19.7	19.9		99	15
5-20-20M		17531	5.2	19.6	21.2		101	15
5-20-20M		19499	4.8	18.6*	21.3		97*	15
5-20-20M		17541	5.4	20.9	20.5		105	15
5-20-20M		17863	5.8	19.6	20.8		103	15
5-20-20M		17878	5.2	20.2	21.1		103	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

F. S. ROYSTER GUANO COMPANY		NORFOLK		VA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-20-20M	18131	5.3	20.3	19.9*			102	15
5-20-20M	18140	5.5	20.4	18.7*			101	15
5-20-20M	18240	4.9	18.5*	21.3			97*	15
5-20-20M	18331	5.4	21.3	20.7			106	15
5-20-20M	18370	4.9	18.8*	20.7			98	15
5-20-20M	18399	5.5	22.0	21.4			109	15
5-20-20M	17807	5.8	20.9	21.8			108	16
5-20-20M	18805	4.9	20.6	21.6			103	16
5-20-20M	19310	4.9	18.8*	21.2			98	16
6- 6-18S W/ME	16843	5.9	6.9	18.3			104	15
6- 6-18S W/ME	17860	6.1	7.2	17.4*	*		104	15
6- 6-18S W/ME	19311	5.6*	7.3	18.1			103	16
6- 6-18S	18363	6.8	7.6	17.4*	*		97*	15
6- 6-18S W/ME	19437	6.4	7.2	18.6			108	15
6-12-12M W/ME	16764	6.1	12.1	13.6			104	15
6-12-12M W/ME	16830	6.2	12.6	12.7			104	15
6-12-12M W/ME	16845	5.8	12.7	13.5			105	15
6-12-12M W/ME	17529	6.7	12.3	13.4			107	15
6-12-12M W/ME	19521	5.1*	11.5*	14.9			99	15
6-12-12M W/ME	17885	6.3	12.6	13.7			107	15
6-12-12M W/ME	18728	5.9	12.9	13.6			106	15
6-12-12M W/ME	18915	5.3*	12.2	13.7			100	15
6-12-12M W/ME	18992	6.2	12.6	14.3			107	15
6-12-12M W/ME	19223	5.9	12.6	13.6			105	15
6-12-12M W/ME	19272	6.0	12.1	15.1			106	15
6-12-18S W/ME	18798	5.9	13.0	18.6			104	15
6-12-18S W/ME	19456	5.8	12.0	19.0			101	15
6-24-24M	19119	5.6*	23.2*	25.3			98	15
6-24-24M	18364	5.8	19.9*	23.9			90*	15
8-10-15S W/ME	17859	7.9	11.9	15.8	*		107	15
8-10-15S W/ME	18803	8.0	12.4	16.2	*		110	15
10-10-10M	16672	10.1	10.7	12.1			106	15
10-10-10M	16805	10.0	10.0	11.2			102	15
10-10-10M	16823	10.1	10.5	11.4			104	15
10-10-10M	16917	9.9	9.7	11.1			100	15
10-10-10M	17280	10.0	10.4	11.0			103	15
10-10-10M	18801	9.8	11.4	11.8			106	15
10-10-10M	18804	10.2	10.9	10.6			105	15
10-10-10M	18935	10.2	10.2	11.6			104	15
10-10-10M	18938	9.9	10.5	11.6			104	15
10-10-10M	18986	10.1	10.2	11.3			103	15
10-10-10M	18995	10.1	10.4	10.8			103	15
10-10-10M	19225	9.9	10.4	11.6			103	15
10-10-10M	19274	10.0	10.5	11.5			104	15
10-10-10M	19306	9.8	10.7	11.1			103	15
10-10-10M	19436	9.3*	11.2	11.6			103	15
10-10-10M	17440	9.9	10.3	10.8			102	15
10-10-10M	17487	10.3	9.7	11.7			103	15
10-10-10M	19502	9.9	10.0	11.2			101	15
10-10-10M	17858	10.5	10.0	11.1			104	15
10-10-10M	17862	10.4	10.4	10.2			103	15
10-10-10M	18076	9.9	11.2	10.5			104	15
10-10-10M	18132	10.0	10.9	10.7			104	15
10-10-10M	18330	10.0	11.0	10.6			104	15
10-10-10M	18366	9.9	10.8	11.2			104	15
10-10-10M	18400	9.9	10.4	11.7			104	15
10-10-10M	18512	9.8	10.7	10.8			102	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

F. S. ROYSTER GUANO COMPANY		NORFOLK		VA.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
10-10-10M	17806	9.8	10.3	11.7		103	16
10-10-10M	17808	9.9	10.3	10.9		102	16
10-10-10M W/ME	19438	9.6*	10.5	11.7		102	15
10-10-10M W/ME	19441	9.6*	10.6	11.6		102	15
10-10-10S W/ME	18332	9.6*	10.8	14.5		108	15
10-10-15S W/ME	17438	9.2*	10.5	15.8		99	15
10-10-15S W/ME	17805	9.4*	11.5	14.6*	*	101	15
10-10-15S W/ME	18665	9.5*	11.5	15.2		102	15
10-10-15S	17542	9.9	10.6	15.1		101	15
10-10-15S	17743	9.4*	11.2	15.2		101	15
10-10-15S	18726	9.5*	11.2	15.5		102	15
10-10-15S W/ME	17861	9.4*	11.5	14.0*		100	15
10-10-15S W/ME	18379	9.8	11.0	15.2		102	15
10-10-15S W/ME	19308	9.1*	10.5	16.4		99	16
10-10-15S W/ME	18802	9.1*	10.9	16.5		101	15
10-10-15S W/ME	18813	9.5*	10.9	15.9		102	15
10-10-15S W/ME	18989	9.9	11.0	15.8		104	15
12-12-12M	18695	11.6*	12.5	13.4		101	15
12-12-12M	18937	11.3*	12.0	13.7		100	15
30- 0- 0	17096	30.3	0.0	0.0		101	19
30- 0- 0	18663	29.3*	0.0	0.0		98	19
30- 0- 0	18916	29.6	0.0	0.0		99	19
30- 0- 0	19213	30.2	0.0	0.0		101	19
30- 0- 0	19226	30.3	0.0	0.0		101	19
30- 0- 0	19480	29.2*	0.0	0.0		97*	19
33- 0- 0	18075	34.0	0.0	0.0		101	17
33- 0- 0	18997	34.7	0.0	0.0		103	17
82- 0- 0	18130	82.0	0.0	0.0		100	19
D. M. SCOTT & SONS		MARYSVILLE		OHIO			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
22- 5- 5M	16849	21.7	5.4	6.0		101	15
23- 7- 7M	17119	23.4	6.5*	8.7		102	11
23- 7- 7M	18927	23.6	6.9	7.4		102	11
SEARS, ROEBUCK & COMPANY		CHICAGO		ILL.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5- 7- 7M W/ME	17404	6.1	8.6	4.2*		110	15
5- 8- 7M W/ME	17405	5.8	9.6	4.2*		107	15
5-10- 5M	17407	5.3	10.9	11.0		122	15
5-10- 5M	17756	5.2	10.3	10.9		118	15
8- 8- 8M W/ME	17403	8.0	8.1	9.1		103	15
16- 8- 8M	17409	15.4*	9.4	9.5		103	15
16- 8- 8M	17757	15.3*	8.9	9.8		102	15
20-10- 5M	17406	18.9*	11.2	5.1		99	15
25- 5-10M	19661	25.1	4.5*	9.3*		98	15
25-10- 5M	17408	24.1*	9.9	5.7		98	15
SMITH-DOUGLASS COMPANY, INC.		NORFOLK		VA.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0- 0-60M	19046	0.0	0.0	59.9		100	16
0-26-26M	19032	0.0	28.2	21.9*		100	15
4-12- 8M	19028	3.9	12.7	10.8		109	15
5-10- 5M	17456	6.1	10.4	5.5		112	17
5-10-10M	18594	5.3	10.2	11.6		106	15
5-10-15S	19031	5.3	11.2	13.7*	*	104	15
5-20-20M	19027	5.4	19.0*	21.2		100	15
6-18-12M	19029	6.4	17.3*	13.7		102	15
7-37- 7M	18007	7.2	36.7	9.7		102	15
10- 6- 4M	17120	10.9	6.9	4.0		109	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

SMITH-DOUGLASS COMPANY, INC.		NORFOLK		VA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
10-10-10M	19030	10.1	10.8	11.3			105	15
16- 5-11M	17670	16.6	6.0	11.6			106	15
20-10- 5M	17121	19.3*	11.7	5.1			102	15
23-21-18M	19618	22.4*	20.3*	18.7			98	11
23-21-18M	19636	22.2*	22.6	17.8			100	11
23-21-18M	18593	22.3*	21.8	18.4			100	15
33- 0- 0	17854	33.6	0.0	0.0			100	17
SOUTHERN STATES COOP., INC.		BRISTOL		VA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
2-12-12M	18536	2.2	12.5	12.8			105	11
10-20-20M	18537	10.5	21.4	21.1			106	11
SOUTHERN STATES COOP., INC.		LOUISVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-60M	17000	0.0	0.0	59.6			99	15
0- 0-60M	18473	0.0	0.0	60.0			100	16
0-15-30M W/B	16697	0.0	15.4	27.9*			98	11
0-15-30M W/B	17360	0.0	16.5	28.1*			102	11
0-15-30M W/B	17799	0.0	14.9	31.0			101	11
0-15-30M W/B	17139	0.0	15.5	29.3*			100	13
0-15-30M W/B	18441	0.0	15.4	30.1			101	13
0-20- 0	18308	0.0	20.1	0.0			100	11
0-20- 0	18469	0.0	19.9	0.0			100	11
0-20-20M	17371	0.0	20.4	21.9			104	11
0-20-20M	17680	0.0	20.4	20.4			102	11
0-20-20M	18032	0.0	20.2	21.9			104	11
0-20-20M	18311	0.0	19.6	21.7			102	11
0-20-20M	18481	0.0	19.1*	21.3			99	11
0-20-20M	18498	0.0	20.4	21.9			104	11
0-20-20M	17103	0.0	19.9	22.1			103	13
0-20-20M	17708	0.0	20.1	21.4			103	21
0-46- 0	16968	0.0	47.0	0.0			102	15
3-12-12M	17362	3.2	12.3	12.8			104	11
3-12-12M	17619	3.4	12.3	13.3			107	11
3-12-12M	17814	3.1	11.9	12.4			101	11
3-12-12M	18307	3.0	11.8	12.8			100	11
3-12-12M	19257	3.1	11.8	13.0			102	11
4-12- 8M	16937	4.3	11.4*	8.4			100	11
4-12- 8M	16981	4.5	11.3*	8.4			101	11
4-12- 8M	16996	4.3	11.5*	8.7			101	11
4-12- 8M	17364	4.0	12.2	9.1			104	11
4-12- 8M	17435	4.2	11.5*	8.9			101	11
4-12- 8M	17621	4.4	11.8	9.2			104	11
4-12- 8M	17681	4.1	11.8	8.7			101	11
4-12- 8M	18468	4.1	11.4*	8.9			100	11
4-12- 8M	18907	4.9	11.5*	9.0			106	11
4-16- 4S	16675	4.2	14.9*	5.5		*	100	11
4-16- 4S	16676	4.3	14.9*	5.1			99	11
4-16- 4S	16699	4.2	15.2*	4.8			100	11
4-16- 4S	16757	4.2	15.5*	4.8			101	11
4-16- 4S	16865	4.1	16.6	4.8			105	11
4-16- 4S	16868	4.1	15.6	5.3			102	11
4-16- 4S	17058	4.1	15.8	5.3			103	11
4-16- 4S	17060	4.1	15.8	5.3			103	11
4-16- 4S	17067	4.4	15.8	4.9			104	11
4-16- 4S	17080	4.3	16.2	4.5			103	11
4-16- 4S	17143	4.0	16.6	4.5			104	11
4-16- 4S	17153	3.9	16.0	4.8			101	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		LOUISVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-16- 4S	17346	3.9	15.8	5.2		101	11
4-16- 4S	17559	4.1	15.6	5.1		101	11
4-16- 4S	17568	4.0	16.2	4.8		102	11
4-16- 4S	17597	4.0	16.2	5.3	*	103	11
4-16- 4S	18299	4.1	14.7*	5.1		97*	11
4-16- 4S	17160	4.3	16.0	4.8		104	13
5-10-15S	16698	5.1	9.9	15.7		102	11
5-10-15S	16761	5.4	9.9	15.9		103	11
5-10-15S	16931	5.4	10.3	15.4		104	11
5-10-15S	16936	5.0	10.6	15.5		104	11
5-10-15S	17357	5.0	10.0	16.6		103	11
5-10-15S	17420	5.0	10.4	15.9		103	11
5-10-15S	18149	5.0	10.9	15.9		105	11
5-10-15S	18310	5.2	10.1	15.4		102	11
5-10-15S	18503	5.2	10.3	15.3		103	11
5-10-15S	18872	5.2	10.5	15.2		103	11
5-10-15S	19261	5.2	10.4	15.7		104	11
5-10-15S	19385	5.1	9.7	15.7		101	11
5-10-15S	17001	5.0	9.9	15.4		101	15
5-10-20S	18781	4.9	11.5	20.2	*	105	11
5-10-20S	19446	5.0	10.6	19.2*		101	11
5-10-20S	17108	4.8	10.4	21.2		103	13
5-10-20S	17766	5.2	9.7	21.0		102	15
5-10-20S	18442	5.0	10.1	20.6		102	13
5-20-20M	16714	5.0	18.7*	21.2		98	11
5-20-20M	16930	5.3	20.2	21.4		104	11
5-20-20M	16934	5.3	20.1	21.4		103	11
5-20-20M	17620	5.5	19.8	21.9		104	11
5-20-20M	17359	4.9	19.0*	22.1		99	11
5-20-20M	17372	5.1	18.7*	21.1		98	11
5-20-20M	17682	4.5*	19.8	18.2*		95*	11
5-20-20M	18456	5.3	20.2	21.2		103	13
5-20-20M	18906	5.0	20.8	20.7		103	13
5-20-20M W/B	17363	5.3	20.9	21.2		105	11
5-20-20M W/B	18297	5.4	21.1	20.4		105	11
6- 6-18S	16713	6.0	6.3	19.3		104	11
6- 6-18S	16985	6.0	6.3	19.5		104	11
6- 6-18S	19447	5.9	7.2	19.2		107	11
6- 6-18S	17079	5.9	6.9	19.3		105	13
6- 8- 6S	16982	6.1	8.7	6.5		106	11
6- 8- 6S	19445	6.2	9.2	7.8	*	112	11
6-12-12M	17373	6.3	12.6	14.0		107	11
6-12-12M	18309	6.3	11.7	13.1		103	11
6-12-12M	18495	6.2	12.1	13.7		105	11
6-12-12M	18690	5.9	11.8	13.3		101	11
6-12-12M	18751	5.9	11.9	13.0		101	11
6-12-12M	18891	6.0	11.7	12.8		100	11
6-12-12M	19212	6.1	11.6*	13.6		102	11
6-12-12M	19444	6.0	11.8	12.8		100	11
6-12-12M	19609	5.9	12.0	12.2		99	11
6-12-12M	18457	6.2	11.8	13.4		103	13
8-10-15S	16941	8.1	10.6	15.7		104	11
8-10-15S	16986	8.1	10.3	15.8		103	11
8-10-15S	17798	8.2	10.3	15.7		103	11
8-10-15S	18312	8.0	10.3	16.4		103	11
8-10-15S	18497	7.6*	10.9	15.1		101	11
8-10-15S	18687	8.1	10.6	15.7		103	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		LOUISVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
8-10-15S	18752	7.8	10.7	15.8		103	11
8-10-15S	18754	8.0	10.8	16.1		104	11
8-10-15S	19260	8.0	10.4	15.7		102	11
8-10-15S	18493	7.9	11.0	15.2		103	13
8-10-15S	18613	7.2*	11.5	15.2	*	101	13
10-10-10M	17068	10.2	10.4	10.5		103	11
10-10-10M	17358	9.8	10.6	11.6		103	11
10-10-10M	17374	10.1	10.5	11.7		105	11
10-10-10M	17622	10.0	10.9	11.0		105	11
10-10-10M	18496	10.2	10.7	10.7		104	11
10-10-10M	18504	10.2	10.7	10.1		103	11
10-10-10M	18688	9.8	10.5	11.1		102	11
10-10-10M	18750	10.0	11.2	10.9		105	11
10-10-10M	18892	10.3	10.2	10.8		103	11
10-10-10M	19012	9.4*	10.6	10.9		100	11
10-10-10M	19258	10.2	10.4	10.6		103	11
10-10-10M	19262	10.5	9.7	10.4		102	11
10-10-10M	17161	10.0	11.5	10.8		106	13
10-10-10M	17765	10.3	10.0	11.5		104	13
30- 0- 0	16969	29.5	0.0	0.0		98	19
30- 0- 0	17085	31.0	0.0	0.0		103	19
30- 0- 0	18425	31.3	0.0	0.0		104	19
30- 0- 0	18436	31.3	0.0	0.0		104	19
30- 0- 0	19519	30.7	0.0	0.0		102	19
33- 0- 0	18474	34.7	0.0	0.0		103	16
SOUTHERN STATES COOP., INC.		RICHMOND			VA.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-10-15S	16987	5.5	10.1	15.7		104	15
5-20-20M	16995	5.0	20.4	18.9*		99	15
6-12-12M	16989	6.6	12.0	12.3		104	15
12-12-12M	16988	11.9	12.3	11.8		100	15
30- 0- 0	19448	30.4	0.0	0.0		101	19
SOUTHERN STATES COOP., INC.		RUSSELLVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0- 0-50	16827	0.0	0.0	51.1		102	16
0- 0-50S	18013	0.0	0.0	50.2		100	16
0- 0-60M	17843	0.0	0.0	59.9		100	15
0-20- 0	17347	0.0	19.9	0.0		100	11
0-20-20M	17109	0.0	21.2	20.5		105	13
0-20-20M	19132	0.0	20.1	21.2		102	16
0-46- 0	17844	0.0	45.8	0.0		100	15
4-12- 8M	16659	4.4	11.5*	8.5		101	15
4-12- 8M	16680	4.6	11.9	9.3		107	15
4-12- 8M	16781	4.7	11.1*	8.4		102	15
4-12- 8M	17130	4.5	12.0	10.0		108	15
4-12- 8M	17236	4.4	12.3	9.3		107	15
4-12- 8M	17459	4.7	11.8	9.5		107	15
4-12- 8M	18440	4.3	12.6	7.6*		104	15
4-14- 4M W/ME	18832	4.1	14.7	5.9		108	15
4-16- 4S	16737	3.9	16.6	5.1		104	11
4-16- 4S	16738	4.3	15.8	4.7		103	11
4-16- 4S	17230	4.2	15.0*	5.1		99	11
5-10-15S	16665	5.5	9.9	15.4		103	15
5-10-15S	16721	5.3	9.8	15.7		102	15
5-10-15S	16735	5.5	10.3	15.7		105	15
5-10-15S	16789	5.8	9.4*	16.6		105	15
5-10-15S	16854	5.3	10.0	15.4		103	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
5-10-15S	16859	5.4	9.6*	15.5		102	15
5-10-15S	16942	5.2	9.7	15.4		101	15
5-10-15S	16965	5.4	9.8	15.8		103	15
5-10-15S	17171	5.9	10.0	15.5		106	15
5-10-15S	17350	5.3	10.3	16.0		105	15
5-10-15S	17361	4.9	10.6	14.9		102	15
5-10-15S	17514	5.5	10.1	16.0		105	15
5-10-15S	19551	5.1	10.0	15.7		102	15
5-10-15S	19568	5.3	10.6	15.5		105	15
5-10-15S	17592	5.7	10.0	16.5		107	15
5-10-15S	17793	4.9	10.4	15.5		102	15
5-10-15S	18173	6.0	9.3*	16.4		106	15
5-10-15S	18217	5.1	10.0	15.8		102	15
5-10-15S	17795	5.0	9.7	17.0		103	16
5-10-15S	18011	5.3	9.9	16.3		104	16
5-10-15S	18595	5.0	10.2	15.2		101	15
5-10-15S	18849	5.4	10.2	16.0		106	15
5-10-15S	19051	5.4	9.9	15.5	*	103	15
5-15- 5M	18616	5.2	15.4	6.0		105	15
5-15- 5M	18905	5.2	15.0	6.4		104	15
5-15- 5M	19003	5.2	14.7	5.9		102	15
5-15- 5M	19241	5.4	15.0	5.5		104	15
5-15- 5M	19463	5.2	14.9	6.5		104	15
5-15- 5M	19550	5.2	14.9	6.7		104	15
5-15- 5M	19567	5.5	14.5*	6.5		104	15
5-15- 5M	17567	5.3	14.8	6.0		103	15
5-15- 5M	17933	5.2	15.0	6.6		104	15
5-20-20M	17509	5.2	19.6*	21.4		101	16
5-20-20M	16656	4.9	19.5*	20.6		99	15
5-20-20M	16666	5.2	20.1	19.9		101	15
5-20-20M	16673	5.2	20.1	20.0		101	15
5-20-20M	16793	5.0	19.7	21.6		101	15
5-20-20M	16858	5.3	20.5	19.6		102	15
5-20-20M	16966	5.2	22.0	18.6*		104	15
5-20-20M	17032	5.0	19.5*	20.5		99	15
5-20-20M	17040	4.9	19.5*	21.8		101	15
5-20-20M	17172	5.0	18.3*	20.6		97*	15
5-20-20M	17235	4.9	19.5*	20.5		99	15
5-20-20M	17294	5.2	20.1	21.0		102	15
5-20-20M	18888	5.2	20.4	21.0		103	15
5-20-20M	19009	5.3	19.0*	22.3		101	15
5-20-20M	19343	5.1	19.8	20.6		101	15
5-20-20M	17343	5.0	21.2	18.3*		101	15
5-20-20M	17458	5.0	19.4*	21.6		100	15
5-20-20M	17515	5.2	20.6	20.4		103	15
5-20-20M	17792	5.4	19.0*	21.9		101	15
5-20-20M	17973	5.4	20.1	21.0		103	15
5-20-20M	18174	5.2	20.4	20.7		103	15
5-20-20M	18206	5.0	18.8*	21.8		99	15
5-20-20M	18216	5.3	21.0	20.2		104	15
5-20-20M	17796	5.5	20.5	21.3		105	16
5-20-20M	18012	5.3	19.9	20.6		102	16
5-20-20M	19133	5.2	19.3*	20.0		99	16
6-12-12M	16673	6.8	11.8	13.3		106	15
6-12-12M	16677	6.5	11.9	12.7		104	15
6-12-12M	16696	6.4	11.8	13.3		104	15
6-12-12M	16857	6.7	11.9	12.5		104	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
6-12-12M	17173	6.1	12.5	12.7		104	15
6-12-12M	17237	6.5	12.7	12.1		106	15
6-12-12M	18596	6.6	12.1	12.1		104	15
6-12-12M	18889	6.3	11.9	12.8		103	15
6-12-12M	19281	6.3	12.2	13.0		104	15
6-12-12M	19344	6.3	12.2	12.7		104	15
6-12-12M	17427	8.6	12.0	12.7		116	15
6-12-12M	17516	6.2	12.0	13.5		104	15
6-12-12M	17593	6.3	12.0	13.8		105	15
6-12-12M	17977	6.2	12.6	11.4*		102	15
6-12-12M	18172	6.1	12.3	12.5		103	15
6-12-12M	16657	6.7	17.6	13.2		104	15
6-18-12M	17131	6.5	16.6*	13.3		100	15
6-18-12M	19401	6.1	18.1	13.3		102	15
6-18-12M	19401	6.1	18.1	13.3		101	11
10-10-10M	17269	9.9	10.2	10.8		104	13
10-10-10M	17707	10.4	10.0	11.4		104	13
10-10-10M	16929	10.3	8.9*	12.8		102	15
10-10-10M	16935	9.9	10.3	10.8		102	15
10-10-10M	16658	10.1	9.4*	10.8		100	15
10-10-10M	16662	9.9	10.6	10.5		102	15
10-10-10M	16674	9.6*	10.3	10.6		100	15
10-10-10M	16679	9.8	10.2	11.7		102	15
10-10-10M	16695	10.1	10.3	10.1		101	15
10-10-10M	16711	9.9	10.0	10.8		101	15
10-10-10M	16722	9.9	10.3	11.1		102	15
10-10-10M	16792	9.8	9.7	11.3		100	15
10-10-10M	16860	10.1	10.0	11.1		102	15
10-10-10M	16967	10.2	10.3	11.1		104	15
10-10-10M	16983	9.9	10.6	10.0		101	15
10-10-10M	19010	10.2	10.2	9.9		101	15
10-10-10M	17349	9.6*	11.2	9.3*		101	15
10-10-10M	17436	10.1	9.9	11.3		102	15
10-10-10M	17457	9.9	10.1	11.1		102	15
10-10-10M	17591	10.2	10.3	11.0		104	15
10-10-10M	17906	9.7	10.6	10.6		101	15
10-10-10M	18199	9.4*	11.1	10.0		101	15
10-10-10M	18247	9.8	10.4	10.1		101	15
10-10-10M	16787	11.6*	11.1*	13.3		98	13
12-12-12M	16763	12.3	11.5*	12.9		101	15
12-12-12M	16778	11.5*	12.1	12.7		99	15
12-12-12M	16856	12.0	11.9	12.5		101	15
12-12-12M	17234	11.9	12.6	12.5		102	15
12-12-12M	17293	11.8	12.3	12.1		100	15
12-12-12M	18689	11.9	12.0	12.8		101	15
12-12-12M	18755	11.9	12.1	12.8		101	15
12-12-12M	17353	11.8	12.8	12.1		101	15
12-12-12M	17813	12.2	11.7	12.3		100	15
12-12-12M	18547	11.7	11.8	13.7		101	15
12-12-12M	17797	11.7	11.3*	12.8		98	16
30- 0- 0	16887	31.0	0.0	0.0		103	19
30- 0- 0	18200	30.8	0.0	0.0		103	19
SOUTHERN STATES COOP., INC.		WINCHESTER KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-15-30M W/B	19522	0.0	14.2*	31.3		99	13
0-20- 0	18411	0.0	20.4	0.0		102	11
0-20-20M	17976	0.0	20.1	20.5		101	11
4-12- 8M	17263	4.0	12.3	9.2		104	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		WINCHESTER			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-12- 8M	17497	4.1	12.1	8.6		102	11
4-16- 4S	17248	4.1	15.4*	4.8		100	11
4-16- 4S	17565	4.2	16.0	4.8		103	11
5-10-15S	16664	5.3	10.2	15.4		103	11
5-10-15S	16777	5.3	10.4	15.7		105	11
5-10-15S	16855	5.0	10.1	15.5		102	11
5-10-15S	17221	5.1	10.5	15.1		103	11
5-10-15S	17233	5.4	10.5	15.3		105	11
5-10-15S	17262	5.1	10.9	15.2		105	11
5-10-15S	17322	5.0	10.5	15.3		103	11
5-10-15S	17352	4.9	10.5	15.9		103	11
5-10-15S	17492	5.1	10.4	15.2		102	11
5-10-15S	17904	5.2	10.5	15.2		103	11
5-10-15S	18482	5.2	10.1	15.4		102	11
5-20-20M	16712	5.0	20.2	20.0		101	11
5-20-20M	16779	5.2	20.5	19.3*		101	11
5-20-20M	17873	5.3	19.2*	20.6		100	11
5-20-20M	18407	5.1	19.2*	20.1		98	11
5-20-20M	18546	5.4	20.2	21.6		104	11
5-20-20M	17323	5.3	20.0	20.1		101	13
5-20-20M	19524	5.0	19.8	20.1		99	13
6- 6-18S	16704	6.1	6.6	18.2		104	11
6- 6-18S	16710	6.4	6.4	18.1		104	11
6- 6-18S	17270	6.3	6.9	17.3*		104	11
6- 6-18S	17351	6.3	6.9	18.1		105	11
6- 6-18S	17935	6.0	6.9	18.1		104	11
6- 6-18S	18484	6.1	7.1	18.0		105	11
6- 6-18S	18850	6.2	6.9	18.3		105	11
6- 6-18S	19525	6.0	6.7	18.1		103	13
6- 8- 6S	17268	6.3	8.4	7.0		106	11
6- 8- 6S	17690	6.1	8.3	7.1		105	11
6- 8- 6S	18412	6.2	8.5	6.4		105	11
6- 8- 6S	19526	6.2	9.2	7.5		111	13
6-12-12M	16782	6.0	12.4	12.5		102	11
6-12-12M	17261	5.9	12.6	12.5		102	11
6-12-12M	17905	5.9	12.6	12.5		103	11
6-12-12M	18293	5.4*	12.8	14.0		104	11
6-12-12M	18410	6.0	11.9	12.7		101	11
6-12-12M	17321	6.2	12.4	11.9		102	13
6-12-12M	19523	6.2	11.9	12.2		101	13
8-10-15S	16700	8.1	9.5*	16.0		101	11
8-10-15S	17222	8.0	9.9	15.9		101	11
8-10-15S	17354	7.8	10.5	15.7		102	11
8-10-15S	18405	8.4	9.7	15.7		102	11
8-10-15S	18621	7.9	11.0	14.2*		102	11
8-10-15S	18851	8.0	10.7	15.2		103	11
8-10-15S	18873	8.0	10.1	15.4		101	11
8-10-15S	18483	7.8	10.5	15.4		102	13
10-10-10M	17324	10.1	10.8	9.7		102	13
STANLEY CRIP SERVICE		STANLEY			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-46- 0	17185	0.0	46.8	0.0		102	16
5-20-20M	19656	4.7*	19.3*	21.3		99	25
6-22-25M	19655	5.7*	23.1	24.9		101	25
6-24-24M	18006	6.5	25.2	22.6*		103	25
6-24-24M	19045	6.8	25.4	26.0		108	25
6-26-26M	19652	6.9	32.6	18.6*		109	25

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

STANLEY CROP SERVICE		STANLEY			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
6-26-26M	19048	5.7*	25.7	28.3		101	25
7-18-26M	19654	4.3*	12.5*	39.2		93*	25
7-18-30M	19653	12.7	33.8	9.0*		132	25
18-46-0	17183	18.1	46.4	0.0		101	16
STEWART FERTILIZER SERVICE		MT. VERNON			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-20-20M	16913	0.0	19.7	21.2		101	15
0-20-20M	18433	0.0	20.2	21.2		102	15
4-12-8M	18435	4.1	11.8	8.7		101	26
4-12-8M	18434	5.0	15.9	10.0		129	15
5-10-15S	18431	5.9	11.8	13.6*		110	15
5-10-15S	19516	6.0	11.5	15.4		113	25
5-20-20M	16909	6.5	23.6	19.0*		114	15
5-20-20M	19515	4.2*	16.1*	26.6		95*	25
8-8-13S	19517	6.7*	6.2*	15.8		86*	25
10-10-10M	17075	11.8	12.8	10.4		119	15
10-10-10M	19518	10.7	7.7*	11.8		99	25
10-10-10M	18430	10.5	11.5	12.5		112	26
10-10-10M	18815	9.3*	9.0*	11.5		95*	25
10-10-10M	18981	10.4	10.3	10.1		103	25
10-10-10M	18432	9.0*	7.9*	11.8		91*	15
17-17-17M	18429	16.4*	16.7	18.5		99	26
SWIFT & COMPANY		GREENEVILLE			OHIO		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
6-10-4M	18085	6.5	10.6	5.3		110	11
TENNESSEE CORPORATION		NEW ALBANY			IND.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-25-25M	17149	0.0	23.7*	26.1		98	15
0-25-25M	17424	0.0	23.1*	28.2		99	25
3-12-12M	19398	3.2	11.9	13.0		103	11
3-12-12M	17443	3.8	12.7	12.7		110	13
4-12-8M	18475	4.5	11.8	9.5		106	11
4-16-4S	17148	4.3	15.1*	5.5		101	11
4-16-4S	16848	4.2	15.4*	5.5		102	13
5-10-10M	17816	5.5	11.9	11.9		116	15
5-10-15S	17150	5.4	10.1	16.5		106	11
5-10-15S	18707	5.2	9.7	16.3		103	13
5-20-20M	19377	4.9	20.1	21.4		102	15
5-20-20M	17426	4.9	19.1*	22.2		100	15
5-20-20M	17615	5.1	19.6	21.8		102	15
10-10-10M	17817	11.1	10.0	10.5		106	13
10-10-10M	19400	10.4	10.3	11.5		105	13
10-10-10M	17151	10.7	10.2	11.8		107	15
10-10-10M	18708	10.4	10.5	11.9		107	15
10-10-10M	19376	10.1	10.9	11.1		105	15
10-10-10M	17425	10.0	10.7	11.3		104	15
12-12-12M	19399	12.7	12.1	13.0		105	13
12-12-12M	17444	12.7	12.3	13.0		105	15
TENNESSEE CORPORATION		TAMPA			FLA.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-46-0	16984	0.0	47.9	0.0		104	15
TOMPKINSVILLE FERTILIZER CO.		TOMPKINSVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-20-20M	17532	4.3*	18.4*	23.4		97*	15
5-20-20M	17533	4.9	19.7	21.0		100	15
6-12-12M	18635	6.8	13.9	13.0		113	26
8-14-8M	18636	8.9	15.0	10.0		105	26

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1967

Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

UNION FERTILIZER CO.		MORGANFIELD KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-26-26M	17031	0.0	25.7	27.9		102	26
20-15-15M	19114	18.4*	12.4*	20.5		96*	26
VALLEY COUNTIES OF KY. COOP.		BENTON KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0- 0-51S	19579	0.0	0.0	50.5		99	15
6-24-24M	18177	6.2	23.7	25.3		101	15
15-15-15M	19573	15.3	15.8	12.6*		100	15
16-16-16M	19318	15.9	16.5	16.4		101	15
16-16-16M	18175	15.7	15.7	17.3		100	15
18-13- 7M	18176	21.3	19.8	11.5		132	15
WARNER FERTILIZER COMPANY		SOMERSET KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-25-25M	19604	0.0	29.3	19.8*		105	25
5-10-15S w/ME	19606	4.2*	10.4	15.2		97*	25
5-10-15S	19632	4.9	9.4*	14.2*		95*	25
5-20-20M	19602	3.9*	16.6*	22.6		90*	25
5-20-20M	17632	5.1	21.5	20.0		104	15
5-20-20M	17637	5.5	20.8	23.0		108	15
5-20-20M	17979	5.1	20.0	21.4		102	15
5-20-20M	17980	5.8	24.1	25.0		121	15
6-12-12M	17633	7.0	13.5	12.4		111	15
6-12-18S	17635	6.1	11.7	17.3*		98	15
6-12-18S	19605	5.0*	10.4*	19.6		92*	25
6-24-24M	16873	6.3	25.8	22.8*		104	15
10-10-10M	19011	9.9	11.4	11.9		107	15
10-10-10M	19601	7.6*	7.9*	13.1		86*	25
10-10-10M	17636	10.5	10.3	11.5		106	15
10-10-20S	17634	8.9*	8.6*	16.7*		87*	15
10-10-20S	18922	8.7*	11.6	21.3		101	15
15-15-15M	17631	15.2	14.9	15.2		101	15
15-40- 5S	19603	13.2*	36.0*	6.8		91*	25
30- 0- 0	17083	29.8	0.0	0.0		99	19

TABLE 2 - Analyses of Inspection Sample of Soft Phosphate With Colloidal Clay.

Sample Number	Manufacturer, Brand Name	Phosphoric Acid		Percent of		
		Available	Total	Relative Value	Found	
		Guar.	Found	Guar.	Found	Found
<u>Thompson Sales Company</u>						
17836	Calphos	2	4.0	18	21.2	118
18303	Calphos	2	3.6	18	21.8	121
18406	Calphos	2	4.0	18	19.4	107
18657	Calphos	2	3.1	18	17.6*	97*
18748	Calphos	2	2.8	18	18.0	100

TABLE 3 - Analyses of Inspection Samples of Organic Material

Sample Number	Manufacturer, Brand Name	Nitrogen	Available		Percent Of
			Phosphoric Acid	Soluble Potash	
<u>Agrico Chemical Co.</u>					
17886	7-0-0 Agrinite	6.4*	---	---	91*
18413	7-0-0 Agrinite	6.8	---	---	97*
19092	7-0-0 Agrinite	6.9	---	---	98
19269	7-0-0 Agrinite	6.9	---	---	98
19425	7-0-0 Agrinite	6.7	---	---	96*
<u>Armour Agri. Chem. Co.</u>					
17442	5-5-0 Armorganic	5.3	5.0	---	106
17464	5-5-0 Armorganic	4.9	6.2	---	97*
19359	5-5-0 Armorganic	4.9	5.0	---	97*
<u>Burley Belt Fertilizer Co.</u>					
17220	9-0-0 Burl-Organic	10.7	---	---	119
18485	7-0-0 Burl-Organic	11.1	---	---	158
<u>Sewerage Commission, City of Milwaukee</u>					
19245	6-3-0 Milorganite	6.2	4.1	---	103
19528	6-3-0 Milorganite	5.9	3.6	---	99

TABLE 4 - Results of Analyses of Boron in Fertilizer Samples Reported in Table 1.
An Asterisk Indicates The Sample Was Deficient And "M" Indicates Mis-
branded.

COMPANY AND PLANT	Sample Number	Grade	Guarantee	Found
Agrico Chemical Company	18043	0-0-27	0.45	0.49
Memphis, Tennessee	18932	0-25-25	0.50	0.50
Armour Agricultural Chem Co.	17927	0-20-20	0.57	0.75
Cincinnati, Ohio	17930	5-20-20	0.57	0.75
Armour Agricultural Chem Co.	16948	0-0-62	0.0	0.75M
Jeffersonville, Indiana				
Armour Agricultural Chem Co.	16752	5-20-20	0.34	0.38
Nashville, Tennessee				
Federal Cehmical Company	17588	0-10-30	0.57	0.66
Louisville, Kentucky				
Federal Chemical Company	17691	0-9-27	0.45	0.40*
Nashville, Tennessee				
Glasgow Fertilizer Company	17535	0-15-30	0.45	0.42
Glasgow, Kentucky				
W. R. Grace & Company,	18668	0-20-20	0.57	0.29*
Agri. Chem. Division				
Nashville, Tennessee				
W. R. Grace & Company,	17834	0-13-39	0.50	0.45*
Agri. Cehm. Division	17339	5-20-20	0.50	0.25*
New Albany, Indiana				
Gro-Green Chemical Co.	17898	4-19-19	0.37	0.07*
Shelbyville, Kentucky				
Hutson Chemical Company	18954	0-10-30	0.43	1.05M
Murray, Kentucky				
International Min. & Chem.	19508	0-25-25	0.57	0.45*
Company	17767	5-20-20	0.57	0.23*
Cincinnati, Ohio				
International Min. & Chem.	16905	0-10-30	0.57	0.39*
Company				
Somerset, Kentucky				

(Continued)

TABLE 4 (Cont'd) - Results of Analyses of Boron in Fertilizer Samples Reported in Table 1. An Asterisk Indicates The Sample Was Deficient and "M" Indicates Misbranded.

COMPANY AND PLANT	Sample Number	Grade	Guarantee	Found
Mobil Chemical Company Richmond, Virginia	16819	0-10-30	0.57	0.48*
	17393	0-10-30	0.57	0.55
	17394	5-20-20	0.34	0.11*
	18338	5-20-20	0.34	0.13*
F. S. Royster Guano Co. Norfolk, Virginia	17539	0-20-20	0.57	0.57
Southern States Coop. Louisville, Kentucky	16697	0-15-30	0.45	0.40*
	17139	0-15-30	0.45	0.56
	17360	0-15-30	0.45	0.53
	17799	0-15-30	0.45	0.51
	18441	0-15-30	0.45	0.51
	17363	5-20-20	0.34	0.38
	18297	5-20-20	0.34	0.35
Southern States Coop. Winchester, Kentucky	19522	0-15-30	0.45	0.46

TABLE 5 - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
ARMOUR AGRICULTURAL COMPANY, ATLANTA, GA.				
16816	18- 6- 9	MAGNESIUM	1.2000	2.0000
17669	10- 6- 4	MAGNESIUM	1.2000	1.5000
18743	16- 4- 8	MAGNESIUM	1.2000	2.0000
19596	16- 4- 8	MAGNESIUM	1.2000	1.2600
19597	18- 6- 9	MAGNESIUM	1.2000	3.8200 M
18743	16- 4- 8	COPPER	0.0500	0.0410
19596	16- 4- 8	COPPER	0.0500	0.0410
16816	18- 6- 9	IRON	0.1000	1.2200
17669	10- 6- 4	IRON	0.1000	1.1400
18743	16- 4- 8	IRON	0.1000	0.2100
19596	16- 4- 8	IRON	0.1000	0.9500
19597	18- 6- 9	IRON	0.1000	1.3100
18743	16- 4- 8	ZINC	0.0500	0.0670
19596	16- 4- 8	ZINC	0.0500	0.0710
BLUEGRASS PLANT FOODS, INC., CYNTHIANA, KY.				
16922	6-12-18	MAGNESIUM	1.2000	0.8600 *
17913	6-12-18	MAGNESIUM	1.2000	0.8500 *
18415	8-10-15	MAGNESIUM	1.2000	1.2900
18610	6- 6-18	MAGNESIUM	1.2000	1.4500
17915	14- 0-18	ZINC	0.2400	0.2900
BURLEY BELT FERTILIZER CO., LEXINGTON, KY.				
18615	8- 6-18	MAGNESIUM	2.0000	2.0000
19243	6-12-18	MAGNESIUM	2.0000	5.0800 M
19623	6-12-18	MAGNESIUM	2.0000	3.4200
DARLING & COMPANY, E. ST. LOUIS, ILLINOIS				
17187	6-12-18	COPPER	0.0500	0.0210 *
17187	6-12-18	IRON	0.2500	0.5100
17187	6-12-18	MANGANESE	0.0500	0.0310 *
17187	6-12-18	ZINC	0.0500	0.0550
FEDERAL CHEMICAL CO., LOUISVILLE, KY.				
16900	10-10-15	MAGNESIUM	1.5000	2.0000
17641	4-12-16	MAGNESIUM	3.0000	2.7600
17643	10-10-15	MAGNESIUM	1.5000	1.5600
18196	5-25-15	MAGNESIUM	2.0000	2.3200
18508	10-10-15	MAGNESIUM	1.5000	1.6300
18632	10-10-15	MAGNESIUM	1.5000	1.8000
18706	10-10-15	MAGNESIUM	1.5000	1.5600
18713	10-10-15	MAGNESIUM	1.5000	2.0400
18773	10-10-15	MAGNESIUM	1.5000	1.8800
19328	4-12-16	MAGNESIUM	3.0000	2.6700 *
19397	10-10-15	MAGNESIUM	1.5000	1.5400
16900	10-10-15	COPPER	0.0500	0.0490
17641	4-12-16	COPPER	0.0500	0.0380 *
17643	10-10-15	COPPER	0.0500	0.0460
18196	5-25-15	COPPER	0.0500	0.0380 *
18508	10-10-15	COPPER	0.0500	0.0330 *
18632	10-10-15	COPPER	0.0500	0.0490
18706	10-10-15	COPPER	0.0500	0.0250 *
18713	10-10-15	COPPER	0.0500	0.0300 *
18773	10-10-15	COPPER	0.0500	0.0370 *
19328	4-12-16	COPPER	0.0500	0.0350 *
19397	10-10-15	COPPER	0.0500	0.0310 *

TABLE 5 (Cont'd) - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported In Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
FEDERAL CHEMICAL CO., LOUISVILLE, KY. (cont'd)				
18196	5-25-15	IRON	0.1000	0.8400
16900	10-10-15	ZINC	0.0500	0.0750
17641	4-12-16	ZINC	0.5000	0.4400
17643	10-10-15	ZINC	0.0500	0.0480
18196	5-25-15	ZINC	0.5000	0.5000
18508	10-10-15	ZINC	0.0500	0.0440
18632	10-10-15	ZINC	0.0500	0.0520
18706	10-10-15	ZINC	0.0500	0.0310 *
18713	10-10-15	ZINC	0.0500	0.0400
18773	10-10-15	ZINC	0.0500	0.0430
19328	4-12-16	ZINC	0.5000	0.0480 *
19397	10-10-15	ZINC	0.0500	0.0490
FEDERAL CHEMICAL CO., NASHVILLE, TENN.				
17479	10-10-15	MAGNESIUM	1.5000	1.7800
17544	10-10-15	MAGNESIUM	1.5000	1.7800
17695	5-25-15	MAGNESIUM	2.0000	2.5200
17696	10-10-15	MAGNESIUM	1.5000	2.0200
17697	12-12-12	MAGNESIUM	2.0000	1.7200 *
17719	10-10-15	MAGNESIUM	1.5000	1.3600
18551	5-10-20	MAGNESIUM	2.0000	2.2200
18552	12-12-12	MAGNESIUM	2.0000	1.1300 *
18554	10-10-15	MAGNESIUM	1.5000	1.6100
19144	5-25-15	MAGNESIUM	2.0000	2.5000
19145	12-12-12	MAGNESIUM	2.0000	1.0900 *
19353	10-10-15	MAGNESIUM	1.5000	1.9200
17998	10-10-15	MAGNESIUM	1.5000	1.6400
17479	10-10-15	COPPER	0.0500	0.0410
17544	10-10-15	COPPER	0.0500	0.0370 *
17695	5-25-15	COPPER	0.0500	0.0410
17696	10-10-15	COPPER	0.0500	0.0430
17719	10-10-15	COPPER	0.0500	0.0400
18551	5-10-20	COPPER	0.0500	0.0290 *
18554	10-10-15	COPPER	0.0500	0.0450
19144	5-25-15	COPPER	0.0500	0.0380 *
19353	10-10-15	COPPER	0.0500	0.0370 *
17998	10-10-15	COPPER	0.0500	0.0410
17695	5-25-15	IRON	0.1000	0.8300
18551	5-10-20	IRON	0.1000	0.3100
19144	5-25-15	IRON	0.1000	0.8400
18551	5-10-20	MANGANESE	0.0500	0.0410
17479	10-10-15	ZINC	0.0500	0.0630
17544	10-10-15	ZINC	0.0500	0.0640
17695	5-25-15	ZINC	0.0500	0.4300 M
17696	10-10-15	ZINC	0.0500	0.0470
17697	12-12-12	ZINC	0.0500	0.0520
17719	10-10-15	ZINC	0.0500	0.0440
18551	5-10-20	ZINC	0.0500	0.4200 M
18552	12-12-12	ZINC	0.0500	0.0530
18554	10-10-15	ZINC	0.0500	0.0490
19144	5-25-15	ZINC	0.5000	0.0430 *
19145	12-12-12	ZINC	0.0500	0.0570
19353	10-10-15	ZINC	0.0500	0.0420
17998	10-10-15	ZINC	0.0500	0.0500

TABLE 5 (Cont'd) - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
W. R. GRACE & CO., AGRI. PROD. DIV., HOPKINSVILLE, KY.				
18960	8-34-13	MAGNESIUM	0.5000	0.7000
18960	8-34-13	MANGANESE	0.5000	0.4800
18961	7-28-28	MANGANESE	0.0500	0.0710
18960	8-34-13	ZINC	1.5000	1.0200 *
INTERNATIONAL MIN. & CHEM. CORP., CINCINNATI, OHIO				
16838 05	6 10-10-10	MAGNESIUM	0.5000	0.4800
16838 05	12 10-10-10	IRON	0.1000	0.2800
16838 05	16 10-10-10	ZINC	0.0500	0.0280 *
INTERNATIONAL MIN. & CHEM. CORP., CLARKSVILLE, TENN.				
17710	5-10-15	MAGNESIUM	1.6910	1.9600
17715	6-12-12	MAGNESIUM	1.6910	1.5200 *
18578	10-10-10	MAGNESIUM	1.6910	1.7700
18579	5-10-15	MAGNESIUM	1.6910	2.2200
19554	5-20-20	MAGNESIUM	1.2000	1.0400 *
19555	5-10-15	MAGNESIUM	1.6910	2.8800
19563	5-20-20	MAGNESIUM	2.0000	0.7800 *
17710	5-10-15	COPPER	0.0600	0.0870
17715	6-12-12	COPPER	0.0600	0.0410 *
18578	10-10-10	COPPER	0.0600	0.0380 *
19555	5-10-15	COPPER	0.0600	0.0470 *
17710	5-10-15	IRON	0.4270	0.5000
17715	6-12-12	IRON	0.4270	0.3200 *
18578	10-10-10	IRON	0.4270	0.4260
18579	5-10-15	IRON	0.4270	0.4260
19555	5-10-15	IRON	0.4270	0.4280
17710	5-10-15	MANGANESE	0.1620	0.1610
17715	6-12-12	MANGANESE	0.1620	0.1260 *
18578	10-10-10	MANGANESE	0.1620	0.0890 *
18579	5-10-15	MANGANESE	0.1620	0.1030 *
19555	5-10-15	MANGANESE	0.1620	0.1240 *
19563	5-20-20	MANGANESE	0.6800	0.2900 *
18578	10-10-10	ZINC	0.2000	0.0660 *
18579	5-10-15	ZINC	0.4800	0.0690 *
19555	5-10-15	ZINC	0.4800	0.0690 *
19563	5-20-20	ZINC	0.3500	0.2100 *
INTERNATIONAL MIN. & CHEM. CORP., SOMERSET, KY.				
16906	5-20-20	MAGNESIUM	0.5000	0.7800
17326	5-10-15	MAGNESIUM	0.5000	2.0000 M
16906	5-20-20	IRON	0.1000	0.5200
17326	5-10-15	IRON	0.1000	0.4000
16906	5-20-20	ZINC	0.0500	0.0460
17326	5-10-15	ZINC	0.0500	0.0600
KENTUCKY FERTILIZER WORKS, WINCHESTER, KY.				
18812	8-10-15	MAGNESIUM	0.5000	0.4300 *
18812	8-10-15	COPPER	0.0500	0.0410
18812	8-10-15	MANGANESE	0.0500	0.0930
18812	8-10-15	ZINC	0.0500	0.0210 *

TABLE 5 (Cont'd) - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported In Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
KERR-McGEE FARM CENTER, GUTHRIE, KY.				
18568	4-24-12	MAGNESIUM	4.0000	5.0000
19556	5-15-30	MAGNESIUM	2.0000	3.5000
18568	4-24-12	ZINC	0.0500	0.4000 M
19556	5-15-30	ZINC	0.3000	0.2500
KERR-McGEE FARM CENTER, CADIZ, KY.				
17700	4-24-12	MAGNESIUM	4.0000	5.1600
18576	8-28-12	MAGNESIUM	2.0000	2.6000
17700	4-24-12	ZINC	0.5000	0.4700
18576	8-28-12	ZINC	0.5000	0.0420 *
MOBIL CHEM. CO., AGRI. CHEM. DIV., RICHMOND, VA.				
16692	5-20-20	MAGNESIUM	0.5000	0.7000
16851	6-12-18	MAGNESIUM	0.5000	0.4400 *
16886	4-16- 4	MAGNESIUM	0.5000	0.9900
17111	6-12-18	MAGNESIUM	0.5000	0.4900
17113	10-10-10	MAGNESIUM	0.5000	0.5800
17154	4-16- 4	MAGNESIUM	0.5000	0.7500
17174	6-12-18	MAGNESIUM	0.5000	0.4900
17299	5-10-15	MAGNESIUM	0.5000	0.4000 *
17467	10-10-10	MAGNESIUM	0.5000	0.4900
17468	5-20-20	MAGNESIUM	0.5000	0.5500
17469	6-12-18	MAGNESIUM	0.5000	0.4200 *
17590	6-12-18	MAGNESIUM	0.0500	0.3300 M
17721	10-10-10	MAGNESIUM	0.5000	0.3900 *
17722	6-18-12	MAGNESIUM	0.0500	0.5800 M
17723	6-12-18	MAGNESIUM	0.0500	0.4000 M
17724	5-20-20	MAGNESIUM	0.5000	0.4000 *
17918	6-12-18	MAGNESIUM	0.0500	0.3400 M
17919	5-10-15	MAGNESIUM	0.5000	0.3900 *
17923	5-20-20	MAGNESIUM	0.5000	0.2200 *
18260	6-12-18	MAGNESIUM	0.0500	0.3500 M
18590	6-12-18	MAGNESIUM	0.5000	0.4400 *
18740	6-12-18	MAGNESIUM	0.0500	0.3400 M
18818	6-12-18	MAGNESIUM	0.5000	0.4300 *
18820	0-10-30	MAGNESIUM	0.5000	0.5800
18825	15-15-15	MAGNESIUM	0.5000	0.2000 *
18982	5-10-15	MAGNESIUM	0.5000	0.3600 *
18983	10-10-10	MAGNESIUM	0.5000	0.0900 *
19035	6-12-18	MAGNESIUM	0.0500	0.1600 M
19214	6-12-18	MAGNESIUM	0.5000	0.4500 *
19355	6-12-18	MAGNESIUM	0.5000	0.4500 *
19360	6-12-18	MAGNESIUM	0.5000	0.4200 *
19569	4-16- 4	MAGNESIUM	0.5000	0.1900 *
16692	5-20-20	COPPER	0.0500	0.0580
16851	6-12-18	COPPER	0.0500	0.0440
16886	4-16- 4	COPPER	0.0500	0.0050 *
17111	6-12-18	COPPER	0.0500	0.0370 *
17113	10-10-10	COPPER	0.0500	0.0440
17154	4-16- 4	COPPER	0.0500	0.0450
17174	6-12-18	COPPER	0.0500	0.0290 *
17299	5-10-15	COPPER	0.0500	0.0290 *
17467	10-10-10	COPPER	0.0500	0.0400
17468	5-20-20	COPPER	0.0500	0.0510
17469	6-12-18	COPPER	0.0500	0.0350 *

TABLE 5 (Cont'd) - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
MOBIL CHEM. CO., AGRI. CHEM. DIV., RICHMOND, VA. (Cont'd)				
17590	6-12-18	COPPER	0.0500	0.0500
17721	10-10-10	COPPER	0.0500	0.0380 *
17722	6-18-12	COPPER	0.0500	0.0740
17723	6-12-18	COPPER	0.0500	0.0340 *
17724	5-20-20	COPPER	0.0500	0.0340 *
17918	6-12-18	COPPER	0.0500	0.0410
17923	5-20-20	COPPER	0.0500	0.0460
18260	6-12-18	COPPER	0.0500	0.0300 *
18590	6-12-18	COPPER	0.0500	0.0330 *
18740	6-12-18	COPPER	0.0500	0.0450
18818	6-12-18	COPPER	0.0500	0.0240 *
18820	0-10-30	COPPER	0.0500	0.0460
18825	15-15-15	COPPER	0.0500	0.0550
18982	5-10-15	COPPER	0.0500	0.0300 *
18983	10-10-10	COPPER	0.0500	0.0160 *
19035	6-12-18	COPPER	0.0500	0.0390 *
19214	6-12-18	COPPER	0.0500	0.0330 *
19355	6-12-18	COPPER	0.0500	0.0350 *
19360	6-12-18	COPPER	0.0500	0.0340 *
19569	4-16- 4	COPPER	0.0500	0.0040 *
16692	5-20-20	IRON	0.1000	0.7000
16851	6-12-18	IRON	0.1000	0.5600
16886	4-16- 4	IRON	0.1000	0.7000
17111	6-12-18	IRON	0.1000	0.8000
17113	10-10-10	IRON	0.1000	0.8200
17154	4-16- 4	IRON	0.1000	0.7100
17174	6-12-18	IRON	0.1000	0.8800
17299	5-10-15	IRON	0.1000	0.4800
17467	10-10-10	IRON	0.1000	0.5200
17468	5-20-20	IRON	0.1000	0.9400
17469	6-12-18	IRON	0.1000	0.9000
17590	6-12-18	IRON	0.1000	0.4400
17721	10-10-10	IRON	0.1000	0.8800
17722	6-18-12	IRON	0.1000	1.1200
17723	6-12-18	IRON	0.1000	0.8400
17724	5-20-20	IRON	0.1000	0.8200
17918	6-12-18	IRON	0.1000	0.4300
17923	5-20-20	IRON	0.1000	0.9700
18260	6-12-18	IRON	0.1000	0.4300
18590	6-12-18	IRON	0.1000	0.5000
18740	6-12-18	IRON	0.1000	0.4800
18818	6-12-18	IRON	0.1000	0.8400
18820	0-10-30	IRON	0.1000	0.7800
18825	15-15-15	IRON	0.1000	0.6000
18982	5-10-15	IRON	0.1000	0.4700
18983	10-10-10	IRON	0.1000	0.4100
19035	6-12-18	IRON	0.1000	0.4000
19214	6-12-18	IRON	0.1000	0.7500
19360	6-12-18	IRON	0.1000	0.5200
19569	4-16- 4	IRON	0.1000	0.6900
16692	5-20-20	MANGANESE	0.0500	0.0800
16851	6-12-18	MANGANESE	0.0500	0.0420
16886	4-16- 4	MANGANESE	0.0500	0.0100 *
17111	6-12-18	MANGANESE	0.0500	0.0770
17113	10-10-10	MANGANESE	0.0500	0.0960
17154	4-16- 4	MANGANESE	0.0500	0.0570

TABLE 5 (Cont'd) - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
MOBIL CHEM. CO., AGRI. CHEM. DIV., RICHMOND, VA. (Cont'd)				
17174	6-12-18	MANGANESE	0.0500	0.0840
17299	5-10-15	MANGANESE	0.0500	0.0280 *
17467	10-10-10	MANGANESE	0.0500	0.0590
17468	5-20-20	MANGANESE	0.0500	0.0620
17469	6-12-18	MANGANESE	0.0500	0.0800
17590	6-12-18	MANGANESE	0.0500	0.0530
17721	10-10-10	MANGANESE	0.0500	0.0830
17722	6-18-12	MANGANESE	0.0500	0.1000 M
17723	6-12-18	MANGANESE	0.0500	0.0820
17724	5-20-20	MANGANESE	0.0500	0.0670
17918	6-12-18	MANGANESE	0.0500	0.0400
17923	5-20-20	MANGANESE	0.0500	0.0510
18260	6-12-18	MANGANESE	0.0500	0.0360 *
18590	6-12-18	MANGANESE	0.0500	0.0510
18740	6-12-18	MANGANESE	0.0500	0.0450
18818	6-12-18	MANGANESE	0.0500	0.0810
18820	0-10-30	MANGANESE	0.0500	0.0910
18825	15-15-15	MANGANESE	0.0500	0.0550
18982	5-10-15	MANGANESE	0.0500	0.0420
18983	10-10-10	MANGANESE	0.0500	0.0260 *
19035	6-12-18	MANGANESE	0.0500	0.0450
19214	6-12-18	MANGANESE	0.0500	0.0660
19355	6-12-18	MANGANESE	0.0500	0.0410
19360	6-12-18	MANGANESE	0.0500	0.0510
19569	4-16- 4	MANGANESE	0.0500	0.0200 *
16692	5-20-20	ZINC	0.0500	0.0370 *
16851	6-12-18	ZINC	0.0500	0.0410
16886	4-16- 4	ZINC	0.0500	0.0800
17111	6-12-18	ZINC	0.0500	0.0550
17113	10-10-10	ZINC	0.0500	0.0490
17154	4-16- 4	ZINC	0.0500	0.0600
17174	6-12-18	ZINC	0.0500	0.0440
17299	5-10-15	ZINC	0.0500	0.0310 *
17467	10-10-10	ZINC	0.0500	0.0410
17468	5-20-20	ZINC	0.0500	0.0730
17469	6-12-18	ZINC	0.0500	0.0540
17590	6-12-18	ZINC	0.0500	0.0430
17721	10-10-10	ZINC	0.0500	0.0440
17722	6-18-12	ZINC	0.0500	0.0310 *
17723	6-12-18	ZINC	0.0500	0.0380 *
17724	5-20-20	ZINC	0.0500	0.0340 *
17918	6-12-18	ZINC	0.0500	0.0460
17923	5-20-20	ZINC	0.0500	0.0400
18260	6-12-18	ZINC	0.0500	0.0340 *
18590	6-12-18	ZINC	0.0500	0.0400
18740	6-12-18	ZINC	0.0500	0.0400
18818	6-12-18	ZINC	0.0500	0.0290 *
18820	0-10-30	ZINC	0.0500	0.0420
18825	15-15-15	ZINC	0.0500	0.0360 *
18982	5-10-15	ZINC	0.0500	0.0300 *
18983	10-10-10	ZINC	0.0500	0.0150 *
19035	6-12-18	ZINC	0.0500	0.0400
19214	6-12-18	ZINC	0.0500	0.0380 *
19355	6-12-18	ZINC	0.0500	0.0400
19360	6-12-18	ZINC	0.0500	0.0420
19569	4-16- 4	ZINC	0.0500	0.0140 *

TABLE 5 (Cont'd) - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
NORTH AMERICAN FERTILIZER CO., LOUISVILLE, KY.				
17390	5-10-15	COPPER	0.0500	0.0300 *
18491	8-10-15	COPPER	0.0500	0.0350 *
19432	6- 6-18	COPPER	0.0500	0.0310 *
19435	8-10-15	COPPER	0.0500	0.0550
17390	5-10-15	IRON	0.1000	0.4000
18491	8-10-15	IRON	0.1000	0.3800
19432	6- 6-18	IRON	0.1000	0.3600
19435	8-10-15	IRON	0.1000	0.4200
17390	5-10-15	MANGANESE	0.0500	0.0860
18491	8-10-15	MANGANESE	0.0500	0.0910
19432	6- 6-18	MANGANESE	0.0500	0.0730
19435	8-10-15	MANGANESE	0.0500	0.1000 M
17390	5-10-15	ZINC	0.0500	0.0170 *
18491	8-10-15	ZINC	0.0500	0.0170 *
19432	6- 6-18	ZINC	0.0500	0.0180 *
19435	8-10-15	ZINC	0.0500	0.0140 *
OHIO VALLEY FERTILIZER, INC., MAYSVILLE, KY.				
19372	5-10-20	MAGNESIUM	1.5000	0.1400 *
18423	8-10-15	MAGNESIUM	1.0000	0.1500 *
18619	10-10-20	MAGNESIUM	1.0000	0.3900 *
18859	6-12-18	MAGNESIUM	1.5000	0.1300 *
18865	8-10-15	MAGNESIUM	1.0000	0.1300 *
18874	10-10-20	MAGNESIUM	1.0000	0.3700 *
18875	8-10-15	MAGNESIUM	1.0000	0.3100 *
18876	5-10-15	MAGNESIUM	1.0000	0.1500 *
18878	8-10-15	MAGNESIUM	1.0000	0.1400 *
18879	8-10-15	MAGNESIUM	1.0000	0.1800 *
19372	5-10-20	MAGNESIUM	1.5000	0.1400 *
F. S. ROYSTER GUANO COMPANY, NORFOLK, VA.				
17539	0-20-20	MAGNESIUM	0.6000	0.7300
17540	5-10-15	MAGNESIUM	1.2000	1.0000 *
17542	10-10-15	MAGNESIUM	1.2000	1.4000
16764	6-12-12	MAGNESIUM	0.6000	1.0100
16804	5-10-15	MAGNESIUM	1.2000	1.3300
16824	5-10-15	MAGNESIUM	1.2000	1.3800
16830	6-12-12	MAGNESIUM	0.6000	0.8000
16831	5-10-15	MAGNESIUM	1.2000	1.3900
16842	5-10-15	MAGNESIUM	1.2000	1.1200
16843	6- 6-18	MAGNESIUM	1.2000	1.2900
16845	6-12-12	MAGNESIUM	0.6000	0.8600
16918	5-10-15	MAGNESIUM	1.2000	1.3400
16998	4-16- 4	MAGNESIUM	1.2000	1.3000
16999	5-10-15	MAGNESIUM	1.2000	1.2800
17095	4-12- 8	MAGNESIUM	0.6000	1.6000 M
17279	0-20-20	MAGNESIUM	0.6000	0.6300
17281	5-10-15	MAGNESIUM	1.2000	2.0300
17309	4-12- 8	MAGNESIUM	0.6000	1.3000 M
17311	5-10-15	MAGNESIUM	1.2000	1.2000
17437	4-12- 8	MAGNESIUM	0.6000	1.1900
17438	10-10-15	MAGNESIUM	1.2000	1.4400
17441	5-10-15	MAGNESIUM	1.2000	1.2400
17486	4-16- 4	MAGNESIUM	1.2000	1.4400

TABLE 5 (Cont'd) - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
F. S. ROYSTER GUANO COMPANY, NORFOLK, VA. (Cont'd)				
18725	5-10-15	IRON	0.1000	0.2800
18806	5-10-15	IRON	0.1000	0.2600
18813	10-10-15	IRON	0.1000	0.3500
18989	10-10-15	IRON	0.1000	0.3600
18998	5-10-15	IRON	0.1000	0.3100
19309	5-10-15	IRON	0.1000	0.2600
19438	10-10-10	IRON	0.1000	0.5800
19440	5-10-15	IRON	0.1000	0.2400
19441	10-10-10	IRON	0.1000	0.5400
19581	5-10-15	IRON	0.1000	0.2300
17540	5-10-15	MANGANESE	0.0500	0.0480
16824	5-10-15	MANGANESE	0.0500	0.0540
16831	5-10-15	MANGANESE	0.0500	0.0460
16998	4-16- 4	MANGANESE	0.0500	0.0550
16999	5-10-15	MANGANESE	0.0500	0.0490
17311	5-10-15	MANGANESE	0.0500	0.0560
17438	10-10-15	MANGANESE	0.0500	0.0520
17486	4-16- 4	MANGANESE	0.0500	0.0530
17491	5-10-15	MANGANESE	0.0500	0.0630
17530	5-10-15	MANGANESE	0.0500	0.0440
17540	5-10-15	MANGANESE	0.0500	0.0480
17805	10-10-15	MANGANESE	0.0500	0.0580
17860	6- 6-18	MANGANESE	0.0500	0.0590
17861	10-10-15	MANGANESE	0.0500	0.0680
17869	5-10-15	MANGANESE	0.0500	0.0540
18365	5-10-15	MANGANESE	0.0500	0.0460
18369	5-10-15	MANGANESE	0.0500	0.0510
18379	10-10-15	MANGANESE	0.0500	0.0550
18665	10-10-15	MANGANESE	0.0500	0.0530
18725	5-10-15	MANGANESE	0.0500	0.0520
18806	5-10-15	MANGANESE	0.0500	0.0510
18813	10-10-15	MANGANESE	0.0500	0.0510
18989	10-10-15	MANGANESE	0.0500	0.0500
18998	5-10-15	MANGANESE	0.0500	0.0420
19309	5-10-15	MANGANESE	0.0500	0.0520
19438	10-10-10	MANGANESE	0.0500	0.1430 M
19440	5-10-15	MANGANESE	0.0500	0.0490
19441	10-10-10	MANGANESE	0.0500	0.1400 M
19581	5-10-15	MANGANESE	0.0500	0.0500
17540	5-10-15	ZINC	0.0500	0.0520
16824	5-10-15	ZINC	0.0500	0.0430
16831	5-10-15	ZINC	0.0500	0.0360 *
16998	4-16- 4	ZINC	0.0500	0.0590
17311	5-10-15	ZINC	0.0500	0.0590
17438	10-10-15	ZINC	0.0500	0.0450
17486	4-16- 4	ZINC	0.0500	0.0500
17491	5-10-15	ZINC	0.0500	0.0670
17530	5-10-15	ZINC	0.0500	0.0570
17540	5-10-15	ZINC	0.0500	0.0520
17805	10-10-15	ZINC	0.0500	0.0610
17860	6- 6-18	ZINC	0.0500	0.0510
17861	10-10-15	ZINC	0.0500	0.0610
17869	5-10-15	ZINC	0.0500	0.0500
18365	5-10-15	ZINC	0.0500	0.0440

TABLE 5 (Cont'd) - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
F. S. ROYSTER GUANO COMPANY, NORFOLK, VA. (Cont'd)				
19437	6- 6-18	MAGNESIUM	1.2000	0.8800 *
19438	10-10-10	MAGNESIUM	0.5000	0.8800
19440	5-10-15	MAGNESIUM	1.2000	1.0200 *
19441	10-10-10	MAGNESIUM	0.5000	0.8000
19456	6-12-18	MAGNESIUM	1.2000	1.2000
19457	4-12- 8	MAGNESIUM	0.6000	1.1000
19521	6-12-12	MAGNESIUM	0.6000	1.0200
19581	5-10-15	MAGNESIUM	1.2000	1.0800
17540	5-10-15	COPPER	0.0500	0.0570
16824	5-10-15	COPPER	0.0500	0.0590
16831	5-10-15	COPPER	0.0500	0.0300 *
16998	4-16- 4	COPPER	0.0500	0.0550
16999	5-10-15	COPPER	0.0500	0.0340 *
17311	5-10-15	COPPER	0.0500	0.0470
17438	10-10-15	COPPER	0.0500	0.0500
17486	4-16- 4	COPPER	0.0500	0.0580
17491	5-10-15	COPPER	0.0500	0.0850
17530	5-10-15	COPPER	0.0500	0.0410
17540	5-10-15	COPPER	0.0500	0.0570
17805	10-10-15	COPPER	0.0500	0.0670
17860	6- 6-18	COPPER	0.0500	0.0670
17861	10-10-15	COPPER	0.0500	0.0710
17869	5-10-15	COPPER	0.0500	0.0540
18365	5-10-15	COPPER	0.0500	0.0490
18369	5-10-15	COPPER	0.0500	0.0530
18379	10-10-15	COPPER	0.0500	0.0640
18665	10-10-15	COPPER	0.0500	0.0630
18725	5-10-15	COPPER	0.0500	0.0550
18806	5-10-15	COPPER	0.0500	0.0590
18813	10-10-15	COPPER	0.0500	0.0610
18989	10-10-15	COPPER	0.0500	0.0610
18998	5-10-15	COPPER	0.0500	0.0430
19309	5-10-15	COPPER	0.0500	0.0580
19438	10-10-10	COPPER	0.0500	0.0500
19440	5-10-15	COPPER	0.0500	0.0490
19441	10-10-10	COPPER	0.0500	0.0510
19581	5-10-15	COPPER	0.0500	0.0580
17540	5-10-15	IRON	0.1000	0.3100
16824	5-10-15	IRON	0.1000	0.2600
16831	5-10-15	IRON	0.1000	0.3000
16998	4-16- 4	IRON	0.1000	0.3600
16999	5-10-15	IRON	0.1000	0.3100
17311	5-10-15	IRON	0.1000	0.2800
17438	10-10-15	IRON	0.1000	0.3600
17486	4-16- 4	IRON	0.1000	0.3600
17491	5-10-15	IRON	0.1000	0.3600
17530	5-10-15	IRON	0.1000	0.2700
17540	5-10-15	IRON	0.1000	0.2700
17805	10-10-15	IRON	0.1000	0.3100
17860	6- 6-18	IRON	0.1000	0.3500
17861	10-10-15	IRON	0.1000	0.3500
17869	5-10-15	IRON	0.1000	0.3000
18365	5-10-15	IRON	0.1000	0.2900
18369	5-10-15	IRON	0.1000	0.2600
18379	10-10-15	IRON	0.1000	0.2600
18665	10-10-15	IRON	0.1000	0.3400
			0.1000	0.3600

TABLE 5 (Cont'd) - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
F. S. ROYSTER GUANO COMPANY, NORFOLK, VA. (Cont'd)				
17488	4-12- 8	MAGNESIUM	0.6000	1.3400 M
17491	5-10-15	MAGNESIUM	1.2000	1.7400
17529	6-12-12	MAGNESIUM	0.6000	0.9400
17530	5-10-15	MAGNESIUM	1.2000	1.4000
17539	0-20-20	MAGNESIUM	0.6000	0.7300
17540	5-10-15	MAGNESIUM	1.2000	1.0000 *
17542	10-10-15	MAGNESIUM	1.2000	1.4000
17805	10-10-15	MAGNESIUM	1.2000	1.5200
17857	5-10-15	MAGNESIUM	1.2000	1.0500 *
17859	8-10-15	MAGNESIUM	1.2000	1.0000 *
17860	6- 6-18	MAGNESIUM	1.2000	0.9600 *
17861	10-10-15	MAGNESIUM	1.2000	1.2600
17869	5-10-15	MAGNESIUM	1.2000	1.3000
17885	6-12-12	MAGNESIUM	0.6000	0.9000
17887	4-12- 8	MAGNESIUM	0.6000	1.1100
18133	4-12- 8	MAGNESIUM	0.6000	1.0800
18134	5-10-15	MAGNESIUM	1.2000	1.0100 *
18139	5-10-15	MAGNESIUM	1.2000	1.3200
18146	4-12- 8	MAGNESIUM	0.6000	1.4400 M
18239	5-10-15	MAGNESIUM	1.2000	1.3200
18332	10-10-10	MAGNESIUM	1.2000	1.5000
18333	5-10-15	MAGNESIUM	1.2000	1.0600 *
18363	6- 6-18	MAGNESIUM	1.2000	0.9200 *
18365	5-10-15	MAGNESIUM	1.2000	1.2000
18367	5-10-15	MAGNESIUM	1.2000	1.2400
18369	5-10-15	MAGNESIUM	1.2000	1.3000
18371	4-12- 8	MAGNESIUM	0.6000	1.0300
18379	10-10-15	MAGNESIUM	1.2000	1.4200
18511	5-10-15	MAGNESIUM	1.2000	1.1900
18665	10-10-15	MAGNESIUM	1.2000	1.5000
18725	5-10-15	MAGNESIUM	1.2000	1.1400
18728	6-12-12	MAGNESIUM	0.5000	0.7900
18797	5-10-15	MAGNESIUM	1.2000	1.2600
18798	6-12-18	MAGNESIUM	1.2000	1.2000
18799	3-12-12	MAGNESIUM	0.6000	1.1900
18802	10-10-15	MAGNESIUM	1.2000	1.3400
18803	8-10-15	MAGNESIUM	1.2000	1.0400 *
18806	5-10-15	MAGNESIUM	1.2000	1.1800
18813	10-10-15	MAGNESIUM	1.2000	1.4400
18915	6-12-12	MAGNESIUM	0.6000	0.9400
18939	5-10-15	MAGNESIUM	1.2000	1.0000 *
18987	5-10-15	MAGNESIUM	1.2000	1.3600
18989	10-10-15	MAGNESIUM	1.2000	1.3000
18991	5-10-15	MAGNESIUM	1.2000	1.2200
18992	6-12-12	MAGNESIUM	0.6000	0.9000
18996	0-20-20	MAGNESIUM	0.6000	0.8400
18998	5-10-15	MAGNESIUM	1.2000	1.1800
18999	4-12- 8	MAGNESIUM	0.6000	1.2000 M
19223	6-12-12	MAGNESIUM	0.6000	0.9400
19270	0-20-20	MAGNESIUM	0.6000	0.9700
19272	6-12-12	MAGNESIUM	0.6000	0.9600
19273	5-10-15	MAGNESIUM	1.2000	0.8800 *
19305	5-10-15	MAGNESIUM	1.2000	1.2700
19308	10-10-15	MAGNESIUM	1.2000	1.3200
19309	5-10-15	MAGNESIUM	1.2000	1.2600
19311	6- 6-18	MAGNESIUM	1.2000	1.1900

TABLE 5 (Cont'd) - Results of Analyses of Secondary and Micro Nutrients in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
F. S. ROYSTER GUANO COMPANY, NORFOLK, VA. (Cont'd)				
18369	5-10-15	ZINC	0.0500	0.0400
18379	10-10-15	ZINC	0.0500	0.0500
18665	10-10-15	ZINC	0.0500	0.0490
18806	5-10-15	ZINC	0.0500	0.0470
18813	10-10-15	ZINC	0.0500	0.0420
18989	10-10-15	ZINC	0.0500	0.0430
18998	5-10-15	ZINC	0.0500	0.0380 *
19309	5-10-15	ZINC	0.0500	0.0500
19438	10-10-10	ZINC	0.0500	0.0990
19440	5-10-15	ZINC	0.0500	0.0540
19441	10-10-10	ZINC	0.0500	0.1020 M
19581	5-10-15	ZINC	0.0500	0.0610
16999	5-10-15	ZINC	0.0500	0.0590
SEARS, ROEBUCK & COMPANY, CHICAGO, ILL.				
17404	5- 7- 7	CALCIUM	6.0000	6.7500
17405	5- 8- 7	CALCIUM	6.0000	8.5500
17403	8- 8- 8	COPPER	0.0500	0.0350 *
17403	8- 8- 8	IRON	0.2500	0.3200
17404	5- 7- 7	IRON	1.2000	3.3700
17405	5- 8- 7	IRON	1.2000	2.2200
17403	8- 8- 8	MANGANESE	0.0500	0.0580
17403	8- 8- 8	ZINC	0.0500	0.0600
THOMPSON SALES COMPANY, MONTGOMERY, ALA.				
17836	0-18- 0	IRON	1.5000	1.8500
18303	0-18- 0	IRON	1.5000	1.8200
18406	0-18- 0	IRON	1.5000	1.9100
18657	0-18- 0	IRON	1.5000	1.7600
18748	0-18- 0	IRON	1.5000	1.8800
WARNER FERTILIZER COMPANY, SOMERSET, KY.				
19606	5-10-15	COPPER	0.0500	0.0110 *
19606	5-10-15	IRON	0.1000	0.4700
19606	5-10-15	MANGANESE	0.0500	0.0380 *
19606	5-10-15	ZINC	0.0500	0.0160 *

TABLE 6 - Results of Analyses of Insecticides in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
AGRICO CHEMICAL CO., MEMPHIS, TENN.				
16852	4-16- 4	ALDRIN	0.3000	0.2700
17065	4-16- 4	ALDRIN	0.3000	0.2900
17156	4-16- 4	ALDRIN	0.3000	0.3000
17242	4-16- 4	ALDRIN	0.3000	0.2900
17243	4-16- 4	ALDRIN	0.3000	0.2800
17413	4-16- 4	ALDRIN	0.3000	0.3200
17414	5-10-15	ALDRIN	0.1500	0.1200 *
17415	4-16- 4	ALDRIN	0.3000	0.2800
17419	4-16- 4	ALDRIN	0.3000	0.2600
18614	8- 8-18	ALDRIN	0.1500	0.1300
19633	8- 8-18	ALDRIN	0.1500	0.0700 *
ARMOUR AGRICULTURAL CHEMICAL CO., ATLANTA, GA.				
17059	5-10- 5	ALDRIN	0.1875	0.2000
17063	5-10- 5	ALDRIN	0.1875	0.1600
17078	4-16- 4	ALDRIN	0.1875	0.1800
17157	5-10- 5	ALDRIN	0.1875	0.1500
17241	5-10- 5	ALDRIN	0.1875	0.0500 *
17244	5-10- 5	ALDRIN	0.1875	0.0000 *
17421	5-10- 5	ALDRIN	0.1875	0.1800
17562	5-10- 5	ALDRIN	0.1875	0.1700
17569	5-10- 5	ALDRIN	0.1875	0.1800
18373	5-10- 5	ALDRIN	0.1875	0.1300 *
18622	5-10-15	ALDRIN	0.1500	0.0700 *
19379	5-10-15	ALDRIN	0.1500	0.1000 *
19382	5-10-15	ALDRIN	0.1500	0.0800 *
ARMOUR AGRICULTURAL CHEMICAL CO., CINCINNATI, OHIO				
17247	5-10- 5	ALDRIN	0.1875	0.0900 *
17564	5-10-15	ALDRIN	0.1500	0.1400
17940	6-12-18	ALDRIN	0.1500	0.0900 *
17941	5-10-15	ALDRIN	0.1500	0.2000
17942	12-12-12	ALDRIN	0.5000	0.4200
17943	5-10-15	ALDRIN	0.1500	0.1800
17944	5-10- 5	ALDRIN	0.1875	0.1800
BLUEGRASS PLANT FOODS, INC., CYNTHIANA, KY.				
17057	4-16- 4	ALDRIN	0.3100	0.2800
18610	6- 6-18	ALDRIN	0.1500	0.1900
18618	6- 7-11	ALDRIN	0.0850	0.0900
17077	4-16- 4	ALDRIN	0.3100	0.2900
BURLEY BELT FERTILIZER CO., LEXINGTON, KY.				
17006	4-16- 4	ALDRIN	0.3100	0.3100
17069	4-16- 4	ALDRIN	0.3100	0.2800
17070	10-10-20	ALDRIN	0.1500	0.1100 *
17155	4-16- 4	ALDRIN	0.3100	0.2800
17163	4-16- 4	ALDRIN	0.3100	0.3200
17245	4-16- 4	ALDRIN	0.3100	0.2700
17931	8-10-15	ALDRIN	0.1500	0.1400
17932	4-16- 4	ALDRIN	0.3100	0.2900

TABLE 6 (Cont'd.) - Results of Analyses of Insecticides in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
BURLEY BELT FERTILIZER CO., LEXINGTON, KY. (Cont'd.)				
17937	8-10-15	ALDRIN	0.1500	0.1400
18611	6- 6-18	ALDRIN	0.1500	0.1700
18615	8- 6-18	ALDRIN	0.1500	0.1600
18620	10-10-20	ALDRIN	0.1500	0.1900
19383	8-10-15	ALDRIN	0.1500	0.1700
19380	5-10-15	ALDRIN	0.1500	0.1400
FEDERAL CHEMICAL COMPANY, LOUISVILLE, KY.				
16847	5-10-15	ALDRIN	0.1500	0.1100 *
17071	5-10-15	ALDRIN	0.1500	0.0800 *
17072	9-10-15	ALDRIN	0.1500	0.1600
17246	4-16- 4	ALDRIN	0.1875	0.1500
17423	4-16- 4	ALDRIN	0.1875	0.1200 *
17558	4-16- 4	ALDRIN	0.1875	0.1500
18612	5-10-15	ALDRIN	0.1500	0.1200 *
19381	9-10-15	ALDRIN	0.1500	0.0900 *
19384	9-10-15	ALDRIN	0.1500	0.1700
19582	5-10-15	ALDRIN	0.1500	0.0900 *
19583	5-10-15	ALDRIN	0.1500	0.2300 M
GLASGOW FERTILIZER COMPANY, GLASGOW, KY.				
16853	4-16- 4	ALDRIN	0.3100	0.3100
17570	4-16- 4	ALDRIN	0.3100	0.3100
18870	4-16- 4	ALDRIN	0.3100	0.3200
W. R. GRACE & COMPANY, NEW ALBANY, IND.				
16871	5-10-15	ALDRIN	0.1500	0.1400
17064	4-16- 4	ALDRIN	0.3100	0.2300 *
17066	4-16- 4	ALDRIN	0.3100	0.2700
17076	4-16- 4	ALDRIN	0.3100	0.3100
17081	4-16- 4	ALDRIN	0.3100	0.1500 *
17158	4-16- 4	ALDRIN	0.3100	0.4000
17159	6-12-18	ALDRIN	0.1500	0.1500
17934	5-10-15	ALDRIN	0.1500	0.2000
18150	5-10-15	ALDRIN	0.1500	0.1800
18236	5-10-15	ALDRIN	0.1500	0.1100 *
18374	5-10-15	ALDRIN	0.1500	0.2300 M
18375	12-12-12	ALDRIN	0.5000	0.6000
18376	5-10-15	ALDRIN	0.1500	0.0700 *
19196	5-10-15	ALDRIN	0.1500	0.0800 *
17417	4-16- 4	ALDRIN	0.3100	0.2200 *
17418	5-10-15	ALDRIN	0.1500	0.1100 *
17560	5-10-15	ALDRIN	0.1500	0.2100
GRO-GREEN CHEMICAL COMPANY, INC., SHELBYVILLE, KY.				
17898	4-19-19	ALDRIN	0.1500	0.1100 *
18377	5-10-15	ALDRIN	0.1500	0.2000
18378	8-10-15	ALDRIN	0.1500	0.0900 *
18380	7-10-18	ALDRIN	0.1350	0.1500
18381	12-12-12	ALDRIN	0.1500	0.5400 M
18617	8-12-15	ALDRIN	0.1500	0.1000 *

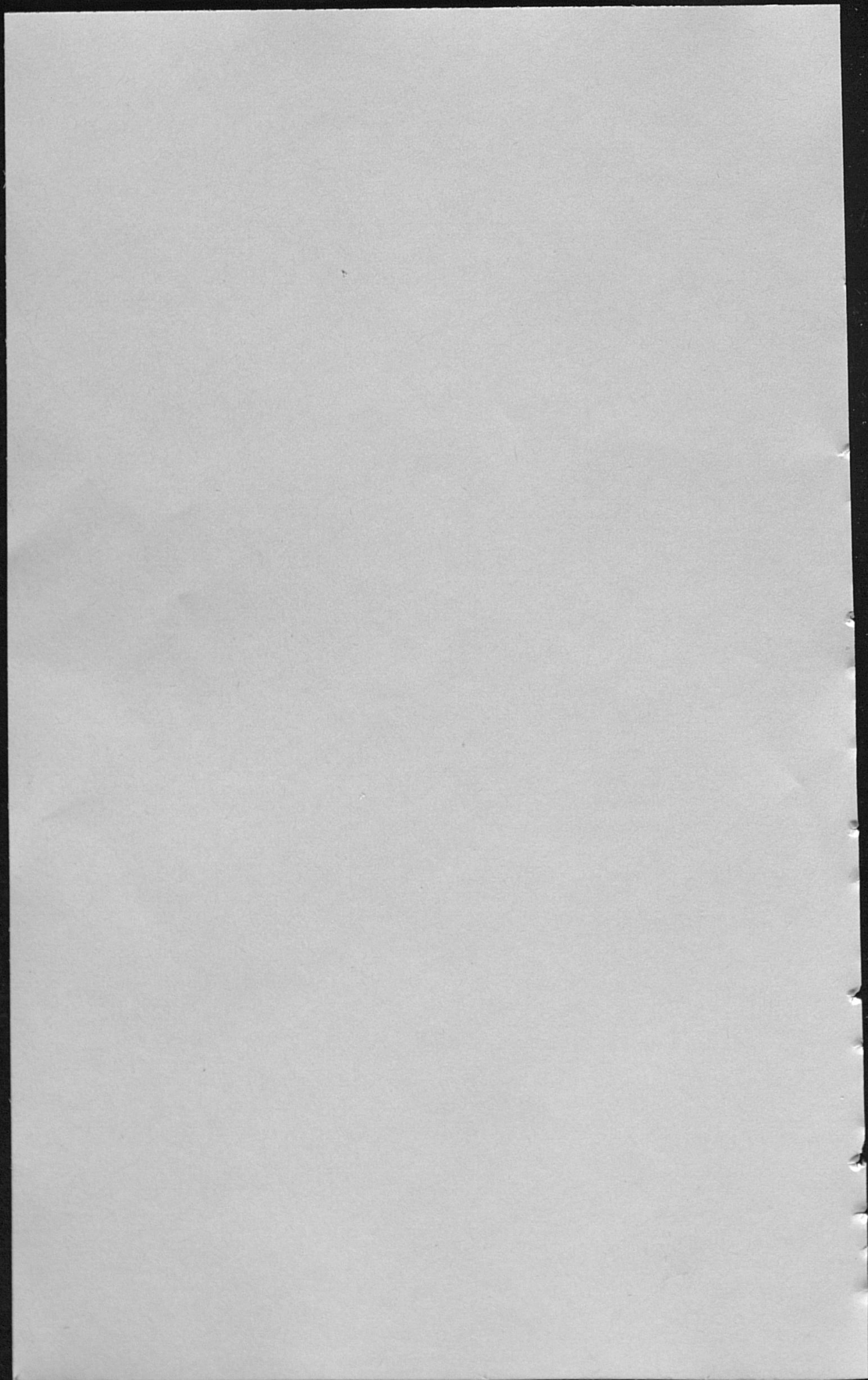
TABLE 6 (Cont'd.) - Results of Analyses of Insecticides in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

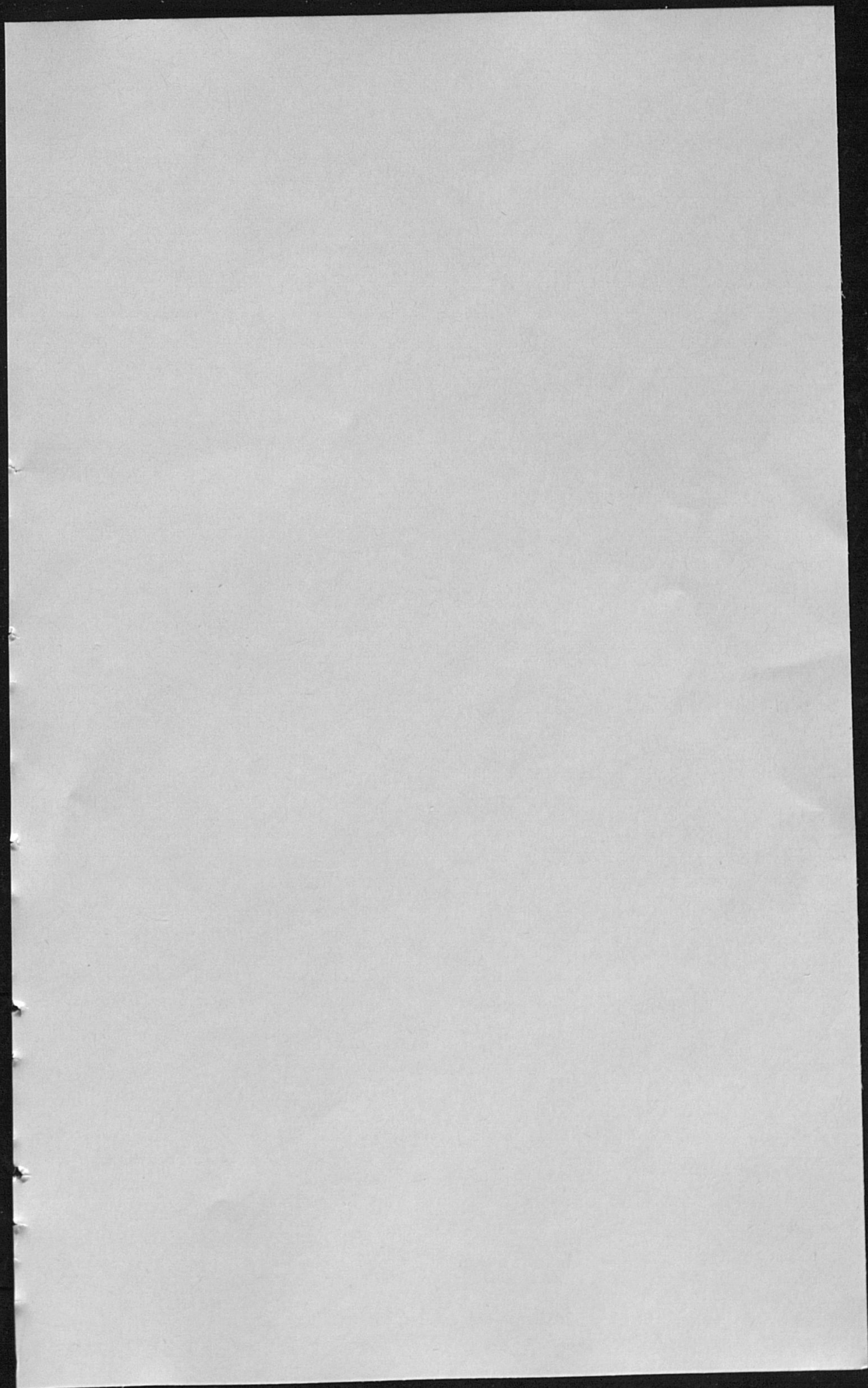
SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
GRO-GREEN CHEMICAL COMPANY, INC., SHELBYVILLE, KY. (cont'd.)				
19195	5- 7-10	ALDRIN	0.0810	0.0800
19197	7- 9-14	ALDRIN	0.1600	0.1700
19386	7-23- 9	ALDRIN	0.4900	0.4200
19387	8-12-15	ALDRIN	0.1400	0.0400 *
19388	3- 7- 7	ALDRIN	0.0700	0.0300 *
INTERNATIONAL MIN. & CHEM. CORP., CINCINNATI, OHIO				
16718	4-16- 4	ALDRIN	0.3100	0.2800
16846	4-16- 4	ALDRIN	0.3100	0.2600
17061	4-16- 4	ALDRIN	0.3100	0.2500
17062	5-10-15	ALDRIN	0.1500	0.1100 *
17566	5-10-15	ALDRIN	0.1500	0.1500
17936	5-10-15	ALDRIN	0.1500	0.1200 *
18147	5-10-15	ALDRIN	0.2000	0.1800
MOBIL CHEM. CO. AGRI. CHEM. DIV., RICHMOND, VA.				
16850	4-16- 4	ALDRIN	0.3100	0.1300 *
16851	6-12-18	ALDRIN	0.1500	0.1500
17154	4-16- 4	ALDRIN	0.1500	0.2500 M
17422	4-16- 4	ALDRIN	0.3100	0.0600 *
17939	4-16- 4	ALDRIN	0.3100	0.2100 *
18871	5-10-15	ALDRIN	0.1500	0.0200 *
19584	5-10-15	ALDRIN	0.1500	0.0 *
OHIO VALLEY FERTILIZER, INC., MAYSVILLE, KY.				
19391	10-10-20	ALDRIN	0.1500	0.2200
19392	9- 9- 9	ALDRIN	0.4100	0.4100
19393	5- 9-14	ALDRIN	0.1600	0.1400
19394	5- 9-14	ALDRIN	0.1500	0.0800 *
18619	10-10-20	ALDRIN	0.1500	0.1200 *
18874	10-10-20	ALDRIN	0.1500	0.1400
18875	8-10-15	ALDRIN	0.1500	0.1500
18876	5-10-15	ALDRIN	0.1500	0.0300 *
18877	6-12-18	ALDRIN	0.1500	0.0500 *
18878	8-10-15	ALDRIN	0.1500	0.2100
18879	8-10-15	ALDRIN	0.1500	0.1500
19389	4-16- 4	ALDRIN	0.2970	0.2700
19390	7- 7-15	ALDRIN	0.0820	0.1700 M
19391	10-10-20	ALDRIN	0.1500	0.2200
19392	9- 9- 9	ALDRIN	0.4100	0.4100
19393	5- 9-14	ALDRIN	0.1600	0.1400
19394	5- 9-14	ALDRIN	0.1500	0.0800 *
F. S. ROYSTER GUANO COMPANY, NORFOLK, VA.				
17743	10-10-15	ALDRIN	0.1500	0.1400
16766	4-16- 4	ALDRIN	0.3100	0.3200
17486	4-16- 4	ALDRIN	0.3100	0.3100
17743	10-10-15	ALDRIN	0.1500	0.1400
18239	5-10-15	ALDRIN	0.1500	0.1900
18379	10-10-15	ALDRIN	0.1500	0.0400 *
19581	5-10-15	ALDRIN	0.1500	0.1500
16999	5-10-15	ALDRIN	0.1500	0.1200 *

COMMERCIAL FERTILIZER IN KENTUCKY, SPRING SEASON 1967

TABLE 6 (Cont'd.) - Results of Analyses of Insecticides in Fertilizers Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
SOUTHERN STATES COOP., INC., LOUISVILLE, KY.				
16676	4-16- 4	ALDRIN	0.3100	0.2700
16699	4-16- 4	ALDRIN	0.3100	0.3400
16868	4-16- 4	ALDRIN	0.3100	0.3300
17058	4-16- 4	ALDRIN	0.3100	0.2500
17060	4-16- 4	ALDRIN	0.3100	0.2500
17067	4-16- 4	ALDRIN	0.3100	0.3500
17068	10-10-10	ALDRIN	0.5000	0.3900 *
17079	6- 6-18	ALDRIN	0.1500	0.1400
17080	4-16- 4	ALDRIN	0.3100	0.3100
17160	4-16- 4	ALDRIN	0.3100	0.2600
17161	10-10-10	ALDRIN	0.5000	0.4200
17346	4-16- 4	ALDRIN	0.3100	0.2900
17420	5-10-15	ALDRIN	0.1500	0.1400
17559	4-16- 4	ALDRIN	0.3100	0.2700
17568	4-16- 4	ALDRIN	0.3100	0.2600
18149	5-10-15	ALDRIN	0.1500	0.1400
18613	8-10-15	ALDRIN	0.1500	0.1200 *
18872	5-10-15	ALDRIN	0.1500	0.1300
19012	10-10-10	ALDRIN	0.5000	0.2800 *
19385	5-10-15	ALDRIN	0.1500	0.1500
SOUTHERN STATES COOP., INC., RUSSELLVILLE, KY.				
16737	4-16- 4	ALDRIN	0.3100	0.2900
16854	5-10-15	ALDRIN	0.1500	0.1600
17567	5-15- 5	ALDRIN	0.5000	0.4000 *
17933	5-15- 5	ALDRIN	0.5000	0.4500
18217	5-10-15	ALDRIN	0.1500	0.1700
18616	5-15- 5	ALDRIN	0.5000	0.4400
SOUTHERN STATES COOP., INC., WINCHESTER, KY.				
17248	4-16- 4	ALDRIN	0.3100	0.3000
17565	4-16- 4	ALDRIN	0.3100	0.2700
17935	6- 6-18	ALDRIN	0.1500	0.1300
18621	8-10-15	ALDRIN	0.1500	0.1500
18873	8-10-15	ALDRIN	0.1500	0.1600





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