

Regulatory Bulletin 192

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**ANALYSES OF OFFICIAL  
FERTILIZER SAMPLES**

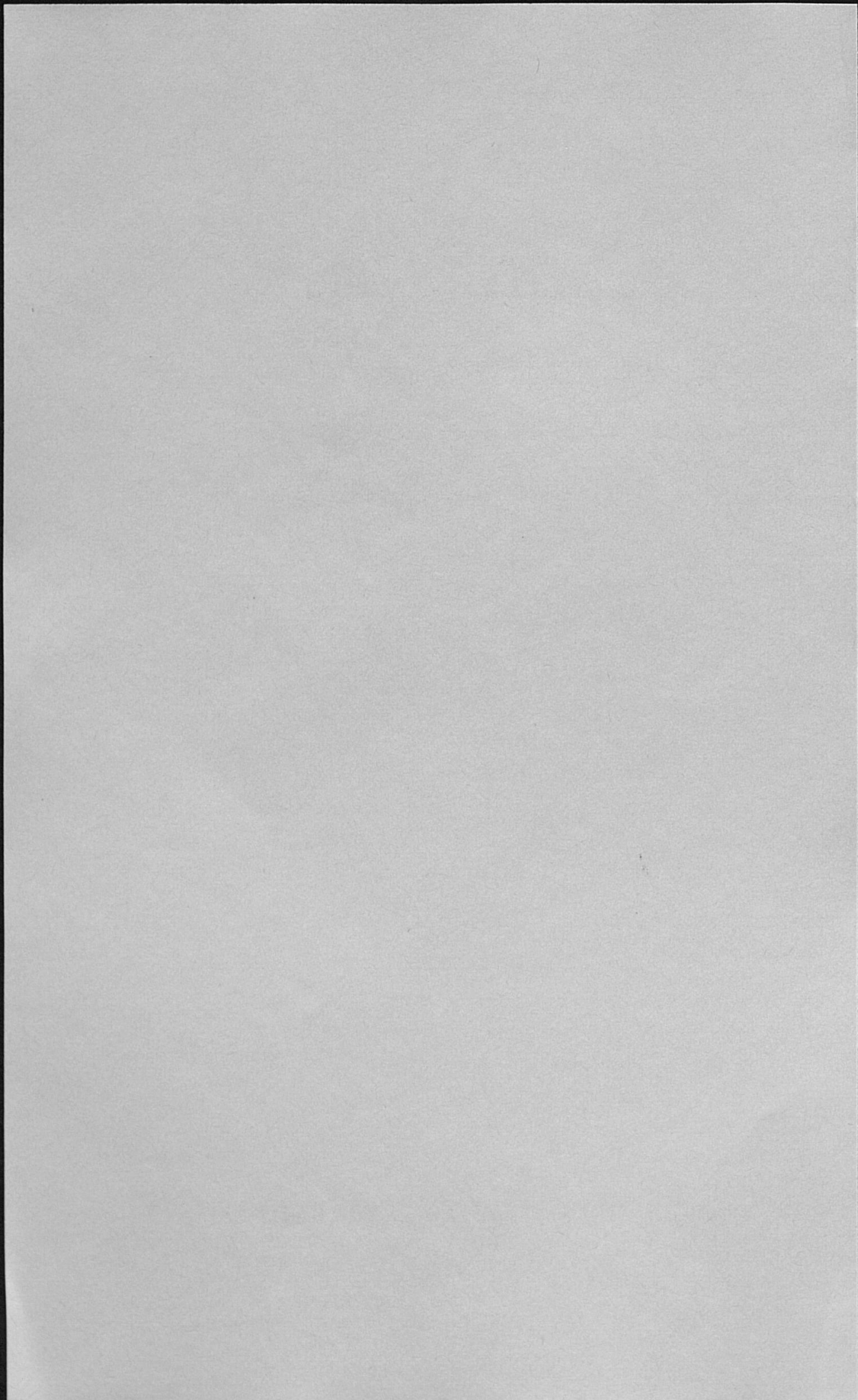
by the

**FEED AND FERTILIZER DEPARTMENT  
KENTUCKY AGRICULTURAL EXPERIMENT STATION**

SEMI-ANNUAL REPORT  
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JANUARY-JUNE, 1966



**UNIVERSITY OF KENTUCKY, LEXINGTON**





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This bulletin contains results of analyses of 3,396 official samples of commercial fertilizer made during the period January 1 through June 30, 1966.

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	Chevron Chemical Company 940 Hensley Street Richmond, California 94801
Allied Chemical Corporation Nitrogen Division P. O. Drawer 61 Hopewell, Virginia 23860	Chilean Nitrate Sales Corporation 120 Broadway New York, New York 10005
American Cyanamid Company Agricultural Division P. O. Box 400 Princeton, New Jersey 08540	Cline Fertilizer Company P. O. Box 67 Ewing, Virginia 24248
Armour Agricultural Chemical Co. 30 Pryor Street, S.W. Atlanta, Georgia 30303	Coastal Chemical Corporation Yazoo City Mississippi 39194
Bale Fertilizer Company Horse Cave Kentucky 42749	Commercial Solvents Corporation 260 Madison Avenue New York, New York 10016
Ballard County Coop. LaCenter Kentucky 42056	Commonwealth Fertilizer Company Morgantown Road Russellville, Kentucky 42276
Bluegrass Plant Foods, Inc. 447 N. Main Street Cynthiana, Kentucky 41031	Consumers Cooperative Ass'n P. O. Box 7305 Kansas City, Missouri 64116
Bunton Seed Company 939 Jefferson Street Louisville, Kentucky 40202	Cooperative Fertilizer Service Southern State Building Richmond, Virginia 23213
Burley Belt Fertilizer Company Route #4 Lexington, Kentucky 40505	Darling & Company 4201 S. Ashland Avenue Chicago, Illinois 60609
Carlisle County Fertilizer Co. Bardwell Kentucky 42023	E. I. DuPont De Nemours & Co. 6054 DuPont Building Wilmington, Delaware 19898
Cecil Farm Supply Stanley Kentucky 42375	Escambia Chemical Corporation P. O. Box 467 Pensacola, Florida 32502
Central Farmers Fertilizer Co. 100 South Wacker Drive Chicago, Illinois 60606	Farmers Chemical Association P. O. Box 67 Tyner, Tennessee 37392

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## Companies Represented by Samples Reported in this Bulletin (Continued)

Farmers Cooperative  
West Arch Street  
Madisonville, Kentucky 42431

Farmers Fertilizer Company  
Smiths Grove  
Kentucky 42171

Federal Chemical Company  
646 Starks Building  
Louisville, Kentucky 40202

Glasgow Fertilizer Company  
Industrial Avenue  
Glasgow, Kentucky 42141

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

W. R. Grace & Company  
Liquid Fertilizer Division  
Box 429  
Atlantic, Iowa 50022

W. R. Grace & Company  
Nitrogen Division  
P. O. Box 4915  
Memphis, Tennessee 38101

Green Belt Chemical Company  
P. O. Box 636  
Springfield, Ohio 45501

Green Valley Farm Supply Co.  
Island  
Kentucky 42350

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

Grove Compost Company  
Route 2 - Box 221  
Union Grove, Wisconsin 53182

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

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

Howe-Hilliard Grain Company  
Mayfield  
Kentucky 42066

Hutson Chemical Company  
Railroad Avenue  
Murray, Kentucky 42071

International Minerals & Chemical Corp.  
P. O. Box 67 - Lockland Station  
Cincinnati, Ohio 45215

Kenco Fertilizer Company  
Bowling Green  
Kentucky 42101

Kengas Corporation  
3002 Fairview Drive  
Owensboro, Kentucky 42301

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

Lincoln Farm Service  
Stanford  
Kentucky 40484

Mississippi Chemical Corporation  
Yazoo City  
Mississippi 39194

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

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

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

(Continued)

## Companies Represented by Samples Reported in this Bulletin (Continued)

Ohio Valley Fertilizer P. O. Box 799 Maysville, Kentucky 41056	Southern States Madisonville Coop. Madisonville Kentucky 42431
Olin Mathieson Chemical Corporation P. O. Box 991 Little Rock, Arkansas 72203	Stewart Fertilizer Service, Inc. Mt. Vernon Kentucky 40456
Pennyroyal Supply Company Skyline Drive Hopkinsville, Kentucky 42240	Swift & Company Agricultural Chemical Division National Stock Yards, Ill. 62071
Ra-Pid-Gro Corporation 88 Ossian Street Dansville, New York 14437	Tennessee Corporation W. Peachtree Street, N.W. Atlanta, Georgia 30309
F. S. Royster Guano Company P. O. Drawer 1940 Norfolk, Virginia 23501	Tennessee Farmers Cooperative LaVergne Tennessee 37086
Ruhm Phosphate & Chemical Co. P. O. Box 361 Columbia, Tennessee 38401	Thompson Sales Company Box 246 Montgomery, Alabama 36101
O. M. Scott & Sons Company Marysville Ohio 43040	Tobacco States Chemical Company P. O. Box 479 Lexington, Kentucky 40501
Sewerage Commission, City of Milwaukee P. O. Box 2079 Milwaukee, Wisconsin 53201	Union Fertilizer Company Morganfield Kentucky 42437
Smith-Douglass Company, Inc. P. O. Box 419 Norfolk, Virginia 23501	U. S. Steel Corporation 525 William Penn Place Pittsburg, Pennsylvania 15230
Southern Nitrogen Company, Inc. Box 246 Savannah, Georgia 31402	Valley Counties of Kentucky Coop. P. O. Box 127 Benton, Kentucky 42025
Southern States Clark County Coop. Winchester Kentucky 40391	Warner Fertilizer Company P. O. Box 707 Somerset, Kentucky 42501
Southern States Greenville Coop. Greenville Kentucky 42345	



The listing on pages 12 thru 24 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 25 thru 29 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, 1966

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
AGRICO CHEMICAL COMPANY Memphis, Tennessee	0- 0-60	2	0	0	61.6	0	0	0.0
	0- 9-27	2	0	10.1	27.1	0	8.4	1.8
	0-20- 0	9	0	19.9	0	0	4.5	0
	0-20-20	7	0	20.3	20.2	0	1.8	6.0
	0-20-20B	3	0	20.3	20.5	0	6.1	7.8
	0-25-25	9	0	24.9	25.6	0	3.9	5.1
	3- 9- 6	4	3.2	8.8	6.3	4.4	4.5	3.9
	4-12- 8	16	4.2	12.6	9.0	4.2	2.6	3.4
	4-16- 4	7	4.1	16.1	4.3	3.2	1.2	5.3
	5-10-10	5	5.3	11.2	10.8	6.2	11.3	7.3
	5-10-15	41	5.2	10.4	15.4	4.4	4.8	3.2
	5-20-20	4	5.3	18.8	10.5	1.8	3.3	5.4
	5-20-20	24	5.3	19.9	20.4	12.2	4.2	4.9
	5-20-20B	2	5.0	18.9	20.6	1.4	2.6	4.8
	6- 6-18	6	6.1	6.6	18.5	1.7	5.1	5.1
	6-12-12	24	6.3	12.4	12.4	6.0	5.8	5.4
	8- 8-18	8	7.9	8.2	18.2	2.3	2.7	1.7
	8-10-15	2	7.9	10.2	15.2	0.0	0.7	1.8
	10-10-10	24	10.2	10.4	10.6	3.5	9.2	6.5
	10-10-15	2	9.8	10.4	14.7	4.3	1.3	1.4
12-12-12	17	12.2	12.5	12.4	2.7	2.8	2.5	
20-20- 5	2	19.8	21.9	5.0	1.0	4.8	4.2	
ALL GRADES	232	% OF GUAR.			CV			
		102.8	102.1	103.2	4.4	4.5	4.3	
ARMOUR AGRI. CHEM. CO. Atlanta, Georgia	0-46- 0	2	0	45.7	0	0	0.3	0
	5-10- 5	8	6.2	10.6	4.8	7.4	11.9	25.5
	12-24-24	5	12.2	24.4	24.5	1.3	1.5	1.5
	15-15-15	3	15.3	15.6	15.4	1.0	1.7	3.9
	15-40- 5	2	15.1	40.7	6.5	0.0	2.7	12.0
ALL GRADES	25	% OF GUAR.			CV			
		105.7	101.7	102.1	3.1	4.6	12.1	
Cincinnati, Ohio	0-20- 0	3	0	20.1	0	0	3.0	0
	0-20-20	4	0	19.2	20.5	0	7.1	5.3
	4-12- 8	10	4.7	12.9	9.4	11.3	7.9	19.1
	4-16- 4	2	4.8	15.9	6.7	11.7	4.0	4.2
	5-10- 5	4	5.4	10.6	5.8	7.3	2.9	10.8
	5-10-10	15	5.4	10.6	10.5	4.2	5.4	8.1
	5-10-15	27	5.2	10.5	14.5	7.5	2.7	4.2
	5-20-20	20	5.1	19.4	19.3	4.0	3.1	4.9
	6- 6-18	3	6.1	7.7	17.1	5.7	5.9	2.8
	6-12-12	10	5.9	12.5	12.2	6.5	5.1	8.8
	6-12-18	2	5.9	12.2	17.2	0.0	2.3	0.8
	6-12-18S	13	6.0	12.2	17.7	4.9	6.0	2.5
	6-24-12	2	6.0	24.1	11.5	3.5	1.1	0.6
10-10-10	14	9.8	10.7	10.5	4.2	6.2	5.4	



Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966  
(Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
ARMOUR AGRI. CHEM. CO. Cincinnati, Ohio (Cont'd.)	12-12-12	10	11.4	12.9	12.7	6.7	4.6	6.3
	ALL GRADES	146	% OF GUAR.			CV		
			101.6	102.3	100.1	6.0	4.6	6.4
Jeffersonville, Ind.	0- 0-50	3	0	0	52.3	0	0	2.2
	0- 0-62	3	0	0	61.8	0	0	1.1
	0-20- 0	4	0	19.4	0	0	5.2	0
	0-20-20	5	0	20.0	20.0	0	7.3	3.9
	0-20-20B	5	0	20.0	19.5	0	8.7	10.0
	4-12- 8	6	4.2	12.5	9.5	8.5	4.4	8.8
	5-10- 5	2	5.0	10.1	5.4	1.4	1.4	0.0
	5-10-15	25	5.1	10.5	15.8	4.7	5.7	3.1
	5-20-20	17	5.3	19.3	20.5	6.1	5.8	6.2
	6- 6-18	3	6.0	6.8	17.7	5.1	6.4	3.9
	6-12-12	11	6.0	11.9	13.2	3.4	2.4	6.4
	6-12-12S	4	6.2	13.0	14.5	9.7	6.1	8.0
	6-12-18	9	5.8	12.3	17.9	4.4	3.1	6.5
	8-10-15	3	8.2	10.0	15.1	1.8	2.0	1.7
	10-10-10	11	9.7	10.5	11.5	4.9	2.0	5.0
12-12-12	4	11.1	12.8	13.0	2.2	6.3	2.1	
	ALL GRADES	120	% OF GUAR.			CV		
			100.0	101.5	104.2	4.9	4.8	4.9
Nashville, Tenn.	0-20- 0	3	0	20.9	0	0	1.5	0
	0-20-20	6	0	19.8	20.2	0	3.5	2.8
	0-46- 0	2	0	46.0	0	0	0.6	0
	3-12- 6	7	3.3	12.4	6.9	11.3	3.7	5.0
	3-12-24	3	3.1	11.6	23.7	1.8	7.9	1.8
	3-12-24B	2	3.2	11.6	24.5	8.8	3.6	4.0
	4-12- 8	7	4.3	12.1	8.9	4.5	1.3	3.4
	5-10- 5	3	5.9	10.7	6.2	12.8	12.2	10.0
	5-10-10	5	5.2	10.3	11.1	4.1	2.6	12.7
	5-10-15	20	5.3	10.0	15.2	6.3	3.9	7.1
	5-20-20	30	5.2	18.9	20.4	7.2	5.6	5.3
	6-12-12	17	6.1	11.9	12.6	3.4	3.3	4.9
	6-12-18	16	6.1	11.9	17.6	4.4	3.6	5.3
	6-18-12	3	6.2	17.0	14.7	5.2	6.2	12.9
	7-14-21	4	7.5	17.4	15.9	10.5	10.1	13.1
10-10-10	26	9.8	10.4	10.7	5.3	5.0	6.1	
	ALL GRADES	167	% OF GUAR.			CV		
			102.6	99.7	102.3	6.2	4.5	6.4

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966  
(Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
BALE FERTILIZER COMPANY Horse Cave, Kentucky	4-12- 8	2	4.7	13.8	8.1	9.0	4.6	0.0
	5-10-15	2	3.5	6.5	16.5	8.0	2.1	1.7
	10-10-10	2	11.3	12.1	11.2	5.0	8.1	10.1
	ALL GRADES	11	% OF GUAR.			CV		
			103.1	105.8	99.4	7.3	5.0	3.9
BLUEGRASS PLANT FOODS Cynthiana, Ky.	4-16- 4	3	4.4	15.3	4.6	3.4	3.7	6.9
	5-10-15	8	5.2	9.7	15.7	3.5	2.6	2.5
	10-10-10	2	10.0	9.8	10.8	5.6	5.7	5.9
	ALL GRADES	32	% OF GUAR.			CV		
			102.1	96.9	108.4	4.0	3.6	4.6
Danville, Ky.	0-10-20	3	0	9.5	20.2	0	3.2	3.6
	0-20-20	2	0	19.9	20.6	0	1.0	3.7
	3-12-12	4	3.6	11.5	12.4	5.6	1.1	2.9
	4-12- 8	5	4.4	11.4	9.4	7.9	2.4	8.4
	4-16- 4	2	4.5	13.6	8.5	17.4	17.2	36.6
	5-10-15	13	5.3	9.8	14.6	5.2	5.1	6.3
	5-20-20	6	5.7	19.7	21.1	5.4	4.6	3.2
	6- 6-18	5	6.1	6.5	17.6	2.9	8.8	6.7
	6- 8- 6	3	6.1	7.5	8.5	0.9	5.0	31.0
	6-12-12	3	7.8	11.4	12.9	3.2	4.4	7.6
	8-10-15	2	7.9	9.7	15.3	3.5	0.0	0.9
	10-10-10	6	10.6	9.7	11.0	3.7	1.8	4.6
	12-12-12	2	11.0	11.6	13.9	0.0	0.0	3.0
ALL GRADES	68	% OF GUAR.			CV			
			107.8	97.7	102.9	5.0	4.2	8.4
BURLEY BELT FERT. CO. Lexington, Kentucky	0-20-20	4	0	20.0	20.5	0	1.7	3.3
	3- 9- 6	2	3.6	9.1	8.3	5.9	0.0	0.8
	3- 9- 6S	4	3.4	8.8	7.8	10.2	2.4	7.1
	4-12- 8	5	4.4	11.1	9.0	7.5	4.1	9.5
	4-16- 4	4	4.3	15.7	4.9	5.1	3.1	17.4
	5-10-10	9	5.3	9.9	11.0	5.3	4.3	5.5
	5-10-15	17	5.1	10.2	15.3	2.8	2.4	2.0
	5-20-20	8	5.0	19.5	20.8	4.4	2.5	2.4
	6- 6-18	2	6.4	6.6	18.3	0.0	3.2	0.3
	6- 6-18S	6	5.9	6.2	18.5	1.7	1.8	1.6
	6- 8- 6	5	6.2	8.4	6.3	1.4	3.5	4.8
	6-12-12	7	6.1	11.7	12.8	2.3	2.4	4.0
	6-12-18	3	5.8	12.1	18.0	5.1	11.1	7.4
8-10-15	7	8.1	10.1	15.5	3.4	1.7	2.3	



Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966 (Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
BURLEY BELT FERT. CO. Lexington, Kentucky (Cont'd.)	10-10-10	12	9.9	10.3	10.3	3.4	3.9	2.4
	10-10-20	2	10.2	11.7	18.4	3.4	10.8	6.1
	12-12-12	7	12.2	12.0	12.0	9.1	9.4	14.3
	20-10-10	2	20.4	10.2	11.0	5.2	14.6	18.7
	ALL GRADES	120	% OF GUAR.			CV		
			102.1	100.4	104.2	4.4	4.2	5.6
CLINE FERTILIZER CO. Ewing, Virginia	3- 9- 6	2	3.7	9.7	6.2	13.5	11.6	10.3
	5-10- 5	3	5.5	10.4	4.8	8.4	10.5	3.1
	5-10-10	3	5.6	10.4	10.2	5.4	3.4	12.7
	10-10-10	2	10.2	10.1	11.4	3.4	5.6	8.1
	ALL GRADES	15	% OF GUAR.			CV		
			106.4	104.2	101.9	7.6	7.7	8.5
COMMONWEALTH FERT. CO. Russellville, Ky.	0-20- 0	2	0	19.9	0	0	0.7	0
	0-20-20	4	0	19.2	22.4	0	9.0	8.0
	0-30-20	2	0	28.5	22.5	0	3.9	2.2
	4-12- 8	5	5.2	12.7	9.0	5.6	3.7	3.2
	4-16- 4	2	4.9	17.0	4.8	0.0	1.2	8.8
	5-10-15	5	5.5	10.3	15.6	5.0	4.5	3.9
	5-20-20	6	5.4	19.9	20.7	5.0	9.0	7.6
	6-12-12	4	6.3	13.3	11.7	7.4	5.1	10.6
	6-18-12	5	6.4	17.3	12.4	6.9	6.6	3.5
	7-14- 7	3	7.7	11.4	7.3	9.6	11.2	1.3
	8-12-15	2	7.7	12.9	16.0	1.8	3.2	4.8
	8-12-15ME	2	7.7	13.5	15.3	0.9	1.0	1.3
	8-24- 8	2	7.8	23.5	8.3	2.7	1.2	1.7
	10-10-10	8	9.9	10.0	11.4	4.4	7.1	15.7
ALL GRADES	61	% OF GUAR.			CV			
			104.8	99.8	105.5	4.8	5.3	6.2
COOPERATIVE FERT. SERV. Louisville, Kentucky	0-15-30	4	0	15.4	30.0	0	3.2	2.1
	0-20- 0	5	0	20.2	0	0	1.6	0
	0-20-20	7	0	20.1	21.0	0	2.3	0.9
	3-12-12	3	3.3	12.4	14.3	10.9	8.7	11.6
	4-12- 8	5	4.2	12.1	9.2	7.3	3.8	9.3
	4-16- 4	23	4.1	16.2	4.8	4.9	2.8	6.5
	5-10-15	15	5.2	10.3	15.6	2.9	2.9	2.6
	5-10-20	4	5.1	10.6	20.5	1.1	1.6	2.8
	5-20-20	10	5.1	19.9	20.9	7.4	1.8	3.5
	6- 6-18	2	6.2	6.3	18.4	2.2	10.1	3.4

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966  
(Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
COOPERATIVE FERT. SERV. Louisville, Kentucky (Cont'd.)	6- 8- 6	2	6.5	8.8	6.3	2.1	4.0	3.3
	6-12-12	9	6.2	12.2	12.9	4.1	2.9	2.8
	8-10-15	13	8.2	10.6	15.2	2.6	1.8	2.6
	10-10-10	10	10.0	10.6	10.7	2.5	1.3	3.7
	ALL GRADES	115	102.3	102.0	105.5	4.3	3.0	4.1
Russellville, Ky.	0- 0-50	2	0	0	50.9	0	0	1.9
	0- 0-60	3	0	0	60.6	0	0	1.0
	0-15-30	7	0	14.7	31.0	0	8.9	9.6
	0-46- 0	4	0	45.9	0	0	2.4	0
	4-12- 8	11	4.2	12.1	9.3	7.0	3.6	5.3
	5-10-15	20	5.3	10.1	15.3	4.6	2.4	2.5
	5-15- 5	3	4.8	15.6	6.0	3.2	2.3	9.1
	5-20-20	23	5.2	19.7	20.4	5.7	2.9	3.9
	6-12-12	15	6.1	12.1	12.9	2.5	1.9	5.0
	10-10-10	20	10.1	10.2	10.8	3.3	2.3	3.5
	12-12-12	16	11.9	12.1	12.6	3.1	2.8	3.3
	30- 0- 0	4	30.3	0	0	0.5	0	0
	ALL GRADES	132	101.9	100.1	104.3	4.0	3.1	4.3
	Winchester, Ky.	0- 0-50	2	0	0	49.8	0	0
0-15-30		3	0	15.2	30.8	0	2.3	4.6
0-20- 0		2	0	19.9	0	0	0.7	0
0-20-20		6	0	19.9	20.6	0	2.7	3.4
4-12- 8		9	4.0	12.0	9.2	3.5	3.7	6.6
5-10-15		19	5.2	10.3	15.2	3.2	3.3	1.9
5-20-20		10	5.1	20.0	20.2	3.3	1.9	2.4
6- 6-18		9	6.2	6.4	18.1	2.3	2.9	2.2
6- 8- 6		8	6.2	8.6	6.5	4.5	2.7	3.7
6-12-12		7	6.1	11.8	12.2	2.9	3.5	3.6
8-10-15		9	8.1	10.2	15.3	1.3	2.1	1.7
10-10-10		2	10.5	9.8	11.2	4.0	1.4	5.7
ALL GRADES	90	102.5	100.4	102.7	3.1	2.6	3.3	
DARLING & COMPANY Cairo, Illinois	0-25-25	2	0	24.9	24.4	0	1.4	0.5
	5-10-15	6	5.3	12.6	14.7	3.5	20.7	2.3
	5-20-20	5	5.7	19.6	20.2	12.3	3.6	3.1
	6-12-12	2	5.8	13.4	12.8	0.0	2.6	0.5
	6-24-24	6	6.5	23.2	23.7	7.7	3.7	1.9



Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966 (Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
DARLING & COMPANY Cairo, Illinois (Cont'd.)	10-10-10	3	9.6	11.4	10.5	4.1	7.5	2.3
	15-15-15	4	14.8	15.0	15.9	0.3	2.0	3.3
E. St. Louis, Ill.	ALL GRADES	36	% OF GUAR.			CV		
			104.7	103.6	100.8	5.1	6.6	2.1
	5-10-15	2	5.9	11.7	13.7	13.3	10.3	3.6
	5-20-20	7	5.6	20.5	20.5	6.5	2.8	1.7
	5-20-20ME	3	5.6	20.4	20.1	4.7	3.5	1.8
	6-24-24	2	6.4	24.2	23.9	0.0	0.2	2.6
	7-28-14	3	7.1	28.1	14.6	1.4	0.5	1.3
	15-15-15	2	13.8	16.2	15.3	6.6	8.3	3.2
	ALL GRADES	23	% OF GUAR.			CV		
			104.8	103.5	101.2	5.4	4.0	2.2
FEDERAL CHEMICAL CO. Humboldt, Tenn.	0-20-20	2	0	19.1	19.7	0	11.5	0.3
	5-10-15	3	5.2	9.9	15.0	2.9	5.5	2.9
	5-20-20	7	5.6	19.0	20.0	17.2	4.5	5.9
	6-12-12	8	6.2	12.1	12.2	9.1	2.2	5.2
	10-10-10	4	10.0	10.3	10.5	4.1	7.1	5.2
	12-12-12	5	11.5	12.4	12.3	7.0	5.2	9.8
	15-15-15	5	14.4	14.5	14.7	3.7	11.7	9.3
	ALL GRADES	41	% OF GUAR.			CV		
			101.4	99.9	101.9	7.9	6.3	5.9
	Louisville, Ky.	0-10-30	9	0	10.6	29.8	0	3.5
0-20-0		7	0	19.8	0	0	1.2	0
0-20-20		11	0	19.2	20.4	0	5.3	4.7
3-12-12		5	4.1	12.4	13.4	23.7	5.8	12.9
4-12-8		19	4.6	12.6	9.2	10.6	6.6	17.1
4-16-4		6	4.6	16.0	5.8	6.5	5.2	13.7
5-10-15		29	5.6	10.4	15.1	4.8	4.7	7.0
5-20-20		19	5.3	19.1	20.5	6.3	2.8	6.8
6-6-18		3	6.3	7.4	18.4	3.1	6.9	3.3
6-12-12		14	6.2	12.2	14.0	9.3	6.5	10.0
6-12-18		2	5.8	14.4	15.0	15.9	2.4	12.2
7-28-14		2	7.1	26.5	14.7	3.9	0.8	10.5
9-10-15		18	8.8	10.6	15.9	4.5	6.6	7.3
10-10-10		25	10.2	10.3	11.0	3.5	2.8	5.6
10-10-15		6	10.0	10.5	15.8	5.2	13.8	4.9
12-12-12		12	11.9	11.9	12.7	5.0	3.8	6.7
33-0-0		3	35.0	0	0	1.5	0	0
ALL GRADES		197	% OF GUAR.			CV		
			104.3	101.3	105.4	7.0	4.9	8.2

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966  
(Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
FEDERAL CHEMICAL CO. (Cont'd.) Nashville, Tenn.	0-20-20	3	0	19.6	23.1	0	2.3	5.5
	4-12- 8	6	4.7	12.1	10.6	6.5	7.2	14.4
	5-10-15	6	5.3	10.0	14.7	5.9	2.2	3.4
	5-20-20	12	5.3	19.0	20.5	5.2	4.7	3.5
	5-25-15	6	5.6	23.1	15.4	2.1	4.5	1.5
	6-12-12	6	6.3	11.9	12.6	1.3	1.1	9.0
	9-10-15	3	8.6	10.3	15.3	1.1	3.6	4.0
	10-10-10	11	10.2	10.2	10.2	3.4	4.4	6.2
	10-10-15	2	10.0	10.0	15.5	0.7	3.5	3.2
	10-10-15ME	3	10.2	10.4	15.4	0.9	3.0	1.7
	12-12-12	3	11.6	11.6	12.4	3.4	1.4	7.3
	ALL GRADES	69	% OF GUAR.			CV		
			103.3	97.6	104.6	3.4	3.6	5.6
GLASGOW FERTILIZER CO. Glasgow, Kentucky	0-20-20	2	0	23.2	17.8	0	15.2	21.6
	4-12- 8	5	4.3	10.2	9.4	3.5	7.9	7.2
	4-16- 4	3	4.4	16.0	4.8	3.9	1.2	6.3
	5-10-15	3	5.2	10.1	15.7	2.2	2.2	2.5
	5-20-20	3	5.4	20.3	20.5	3.8	1.7	1.2
	6-12-12	2	6.7	11.7	13.3	1.0	1.2	5.8
	10-10-10	3	10.3	10.5	10.4	3.9	1.9	4.4
	ALL GRADES	23	% OF GUAR.			CV		
			106.1	100.3	104.8	3.1	4.4	6.7
	W. R. GRACE & CO. Nashville, Tenn.	0-20- 0	2	0	19.7	0	0	0.3
0-20-20		5	0	19.7	20.0	0	3.9	1.7
0-20-20B		2	0	19.9	20.0	0	0.0	3.5
4-12- 8		4	4.5	12.3	8.4	7.6	3.8	4.9
5-10-15		13	5.3	9.8	15.2	4.0	1.4	2.5
5-20-20		21	5.1	19.5	19.9	5.8	2.8	4.6
6-12-12		9	6.2	12.1	12.3	3.6	2.1	3.4
6-24-24		6	6.4	22.9	23.0	2.6	3.8	6.3
10-10-10		13	10.0	10.2	10.8	2.8	2.4	6.2
10-10-15		2	9.7	10.7	15.3	2.2	3.3	0.9
10-20-20		2	10.3	19.6	20.2	5.4	4.7	1.7
15-15-15		3	15.4	15.8	14.9	0.9	1.2	1.9
30- 0- 0		2	30.1	0	0	0.2	0	0
ALL GRADES		87	% OF GUAR.			CV		
			102.2	98.9	100.8	3.8	2.5	3.8



Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966  
(Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION			
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
W. R. GRACE & CO. (Cont'd.) New Albany, Ind.	0-20- 0	4	0	19.7	0	0	6.2	0	
	0-25-25	5	0	25.6	25.0	0	5.1	11.3	
	3-12-12	2	4.0	13.0	13.6	7.0	15.8	0.0	
	4-12- 8	11	4.6	12.0	9.7	4.8	2.8	7.2	
	4-16- 4	10	4.2	16.1	5.0	4.6	2.1	12.0	
	5-10-15	23	5.2	10.4	15.6	3.7	3.8	3.0	
	5-20-20	22	5.0	20.4	20.6	5.3	3.1	5.0	
	6- 6-18	2	6.4	7.3	18.6	4.4	9.6	4.5	
	6-12-12	6	6.1	12.5	13.5	2.8	7.8	3.2	
	6-12-18	2	6.1	12.2	18.6	2.3	4.0	4.5	
	6-18-12	3	6.6	18.0	13.5	2.3	1.1	1.2	
	6-24-24	3	6.0	23.8	24.0	1.9	1.4	3.8	
	10-10-10	18	10.1	10.4	11.5	2.2	5.0	3.9	
	12-12-12	5	12.1	12.1	12.8	3.0	1.9	2.3	
	15-15-15	5	14.8	15.5	15.6	1.5	1.2	1.0	
	28- 0- 0	2	28.4	0	0	1.9	0	0	
		ALL GRADES	131	% OF GUAR.			CV		
			102.5	102.2	105.8	3.6	4.2	4.8	
Hopkinsville, Ky.	4-12-24	2	4.3	13.1	23.8	8.3	9.2	4.1	
	5-15-15	5	5.1	15.2	15.7	3.5	2.3	5.7	
	5-15-20	2	5.0	14.6	21.2	2.8	0.9	3.0	
	6-18-12	2	5.8	17.7	11.8	2.4	4.7	9.0	
	9-10-15	2	9.3	10.2	17.3	0.7	11.0	9.4	
	30- 0- 0	3	31.9	0	0	8.4	0	0	
		ALL GRADES	23	% OF GUAR.			CV		
			104.5	101.8	103.7	4.4	5.3	6.2	
GRO-GREEN CHEMICAL CO. Shelbyville, Ky.	0-10-30	2	0	9.5	31.5	0	37.2	16.1	
	5-10-15	6	5.1	10.2	14.9	5.3	2.0	2.9	
	5-20-20	3	5.2	20.2	20.0	3.8	8.8	9.5	
	5-20-20B	2	4.9	20.3	19.2	5.7	6.9	5.8	
	8-10-15	3	7.7	11.0	15.3	3.7	22.6	3.9	
	8-12-15	4	7.8	12.5	15.1	2.6	9.1	5.2	
	9- 9-21	2	7.8	9.7	22.4	14.5	1.4	16.7	
	10-10-10	7	9.5	10.5	10.5	4.1	7.1	5.5	
	12-12-12	3	11.4	12.6	12.4	2.2	3.5	5.2	
	22- 0-30	2	19.4	0	32.8	13.8	0	6.4	
		ALL GRADES	46	% OF GUAR.			CV		
				97.6	104.8	103.4	5.7	10.1	7.1

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966  
(Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
GULF OIL CORPORATION Cecilia, Kentucky	4-12- 8	3	4.6	12.4	8.8	7.8	4.5	16.5
	5-10-15	4	5.7	10.4	16.4	2.0	5.1	5.8
	5-20-20	5	5.4	19.0	21.2	5.7	6.7	10.1
	6-12-18	2	7.1	13.1	16.8	0.9	3.2	1.6
	6-24-12	2	6.1	24.7	12.2	0.0	0.2	0.5
	8-10-15	4	8.2	10.6	15.3	6.3	5.3	8.7
	10-10-10	4	10.7	10.4	11.5	1.9	2.8	0.8
	12-12-12	2	12.1	13.3	12.4	1.7	0.5	1.7
	ALL GRADES	31	% OF GUAR.			CV		
			107.8	102.5	105.6	3.5	3.9	6.1
Henderson, Kentucky	4-10-15	4	4.3	10.5	17.4	5.1	14.5	19.8
	5-10-15	7	5.7	10.9	15.3	5.2	9.1	19.4
	5-20-20	14	5.6	20.7	21.2	4.2	8.6	15.1
	5-20-30	9	5.4	20.6	29.0	7.8	6.4	6.7
	6-18-12	2	6.9	17.8	13.4	1.0	1.5	3.7
	10-10-10	5	10.7	10.7	10.8	1.8	5.2	6.4
	12-12-12	3	11.9	12.7	13.2	1.4	13.7	10.6
	28- 0- 0	2	27.9	0	0	3.4	0	0
	ALL GRADES	52	% OF GUAR.			CV		
		106.7	102.8	104.1	4.1	8.5	12.3	
HUTSON CHEMICAL COMPANY Murray, Kentucky	0-52- 0	2	0	51.5	0	0	0.2	0
	5-20-20	3	5.3	20.7	19.6	2.1	1.6	4.7
	6-12-12	2	5.9	13.3	12.7	2.4	2.1	7.7
	30- 0- 0	2	29.7	0	0	0.9	0	0
	ALL GRADES	24	% OF GUAR.			CV		
		106.8	103.6	102.0	1.8	1.3	6.1	
INTERNATIONAL MINERAL & CHEMICAL CORP. Cincinnati, Ohio	0-20- 0	5	0	19.7	0	0	3.9	0
	0-20-20	3	0	19.1	20.4	0	1.8	5.9
	4-12- 8	6	3.9	12.8	9.4	16.3	6.4	12.9
	4-16- 4	3	4.2	15.2	4.9	2.3	1.7	3.5
	5-10-10	2	4.6	10.8	12.5	12.3	15.7	3.3
	5-10-15	16	5.1	9.8	15.0	3.7	4.7	3.5
	5-10-15ME	3	5.2	9.7	15.7	1.1	2.6	1.2
	5-20-20	7	5.1	19.2	19.7	2.9	2.0	4.6
	5-20-20ME	2	4.9	20.2	19.0	0.0	1.4	4.4
	6- 6-18	2	6.6	6.6	18.0	5.4	3.2	3.1



Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966  
(Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
INTERNATIONAL MINERAL & CHEMICAL CORP. Cincinnati, Ohio (Cont'd.)	6-12-18	2	4.7	12.0	19.5	3.0	1.1	0.7
	6-12-18ME	3	5.7	12.0	18.5	12.6	0.8	2.9
	6-24-24	2	5.9	22.1	23.4	2.4	4.8	3.3
	10-10-10	9	10.1	11.2	10.8	5.7	17.8	6.5
	12-12-12	5	11.6	12.8	12.0	2.9	1.9	4.9
	ALL GRADES	81	% OF GUAR.			CV		
		100.4	99.4	103.6	5.5	5.1	4.7	
Clarksville, Tenn.	0-20- 0	2	0	19.7	0	0	2.8	0
	4-16- 4	2	4.5	16.2	5.5	4.7	1.3	25.7
	5-10-15	7	5.3	10.3	14.9	10.8	5.5	5.3
	5-20-20	7	5.2	19.0	20.7	11.1	8.9	8.0
	6-12-12	7	5.7	12.2	12.7	6.2	1.8	4.4
	10-10-10	6	9.3	10.9	10.8	6.0	10.7	6.3
ALL GRADES	37	% OF GUAR.			CV			
		98.4	99.7	103.8	8.1	5.6	8.3	
Somerset, Ky.	0-20- 0	3	0	19.4	0	0	4.4	0
	0-20-20	6	0	19.6	20.1	0	5.1	5.7
	4-12- 8	4	4.5	11.8	9.8	8.6	3.6	2.7
	5-10- 5	3	5.6	9.2	6.4	1.0	11.4	7.3
	5-10-10	3	5.9	10.3	13.7	18.4	11.9	21.9
	5-10-15	3	5.3	9.8	15.5	7.6	5.0	7.4
	5-10-15ME	2	5.1	10.5	15.3	4.1	6.0	6.4
	5-20-20	7	4.8	19.3	20.7	18.0	9.0	7.6
	6-12-12	5	6.1	12.1	12.6	6.2	5.7	6.6
	10-10-10	9	9.8	10.3	10.5	3.0	1.7	5.4
	12-12-12	3	11.4	12.7	12.6	1.8	6.6	2.4
	ALL GRADES	53	% OF GUAR.			CV		
			101.4	99.1	106.4	7.9	6.1	7.1
KENTUCKY FERTILIZER WORKS Winchester, Kentucky	0-20-20	3	0	19.5	21.3	0	1.4	4.3
	4- 4-18	2	5.1	4.7	19.5	12.6	9.0	4.7
	4-12- 8	3	4.2	11.4	9.0	6.3	4.5	7.7
	4-16- 4	2	3.9	15.7	4.8	0.0	2.7	7.4
	5-10-10	3	5.1	10.1	10.5	1.1	4.1	3.8
	5-10-15	8	5.0	10.0	15.3	3.1	1.7	1.9
	5-20-20	3	5.3	19.3	20.8	7.6	2.4	4.9
	6- 6-17	2	6.2	6.4	18.4	5.7	18.9	11.9
	6- 6-18	6	6.2	6.3	18.1	3.7	5.7	4.8
	6- 8- 6	3	6.2	8.7	6.6	4.0	10.3	8.5
	8-10-15	2	7.8	9.8	15.2	3.6	4.3	3.2

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966  
(Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
KENTUCKY FERTILIZER WORKS Winchester, Kentucky (Cont'd.)	10-10-10	5	10.2	10.1	10.5	6.3	5.0	3.8
	12-12-12	3	12.2	12.2	12.1	1.2	2.6	0.4
	ALL GRADES	48	% OF GUAR.			CV		
			102.6	100.2	103.8	4.5	5.2	4.9
MOBIL CHEMICAL CO. Richmond, Virginia	0-10-30	2	0	10.7	30.3	0	8.6	3.2
	0-19-19	2	0	19.6	21.2	0	0.7	2.6
	0-20- 0	6	0	19.9	0	0	2.2	0
	0-20-20	10	0	20.1	20.4	0	3.5	3.6
	3-12-12	2	3.2	12.9	12.9	4.4	1.6	4.3
	4-12- 8	9	4.4	11.9	9.2	7.5	1.7	6.0
	4-16- 4	6	4.1	15.5	6.9	14.8	3.8	21.5
	5-10-10	2	5.4	10.5	10.2	2.6	4.0	0.0
	5-10-15	14	5.2	10.1	15.3	6.0	1.4	2.3
	5-20-20	20	5.5	19.6	20.3	5.0	2.7	4.2
	6-12-12	7	6.3	11.7	12.2	5.8	2.0	4.0
	6-12-18	6	6.1	12.0	18.7	2.2	1.2	2.8
	6-12-18ME	6	6.4	12.0	17.8	2.7	2.2	3.6
	6-18-12	3	6.2	18.0	12.4	3.3	2.1	5.1
	6-24-24	2	6.2	21.8	24.1	3.4	1.6	1.4
	10-10-10	19	9.8	10.2	10.9	3.9	3.7	3.2
	12-12-12	6	11.8	12.3	12.8	2.9	4.1	2.2
	15-15-15	6	14.3	14.2	15.5	3.5	2.9	3.5
	28- 0- 0	2	28.9	0	0	0.4	0	0
		ALL GRADES	144	% OF GUAR.			CV	
			102.0	99.4	104.5	4.9	2.7	4.5
N. AMERICAN FERT. CO. Louisville, Kentucky	0-20- 0	4	0	19.2	0	0	1.4	0
	0-20-20	2	0	20.3	20.7	0	2.0	4.7
	3-12-12	2	3.9	11.3	13.0	1.8	0.6	3.2
	4-12- 8	4	4.7	10.9	10.2	6.1	2.0	9.2
	5-10-15	12	5.2	9.9	15.6	4.7	8.1	2.8
	5-20-20	5	5.4	19.1	20.8	8.8	4.0	1.9
	5-20-20B	2	5.2	17.8	20.6	1.3	7.5	1.3
	6- 8- 6	2	5.6	9.1	7.3	2.5	6.2	17.4
	6-12-12	3	5.7	11.3	11.6	9.1	2.7	9.2
	8-10-15	2	7.7	10.3	15.0	3.6	2.0	0.4
	10-10-10	8	10.0	10.2	10.6	2.8	2.8	2.8
	ALL GRADES	55	% OF GUAR.			CV		
			102.8	97.4	104.2	4.7	3.9	4.9



Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966 (Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
OHIO VALLEY FERTILIZER Maysville, Kentucky	4-12- 8	2	5.0	11.5	8.0	4.2	4.9	2.6
	4-16- 4	4	4.1	15.9	5.5	2.3	3.6	4.4
	5-10-10	3	5.1	10.0	9.4	0.0	1.5	4.9
	5-10-15	8	5.3	9.7	15.7	7.3	9.2	3.5
	5-10-20	4	5.1	10.2	19.3	4.7	4.8	7.7
	5-20-20	3	5.6	18.8	18.0	5.3	14.4	5.8
	6- 8- 6	2	6.1	7.7	6.8	3.5	2.7	8.3
	10-10-10	2	10.1	10.2	10.1	2.1	8.3	11.2
	10-10-20	5	9.3	10.7	19.7	12.0	11.3	6.0
	12-12-12	4	11.9	11.9	12.6	2.2	8.2	6.3
	ALL GRADES	42	% OF GUAR.			CV		
			101.7	99.7	100.8	4.7	7.2	5.8
	F.S. ROYSTER GUANO CO. Norfolk, Virginia	0-20- 0	8	0	20.3	0	0	3.9
0-20-20		4	0	20.0	20.2	0	6.7	7.0
0-20-20B		3	0	19.8	20.6	0	4.6	7.5
0-20-20ME		5	0	19.9	20.5	0	3.8	5.6
4-12- 8		4	4.3	12.4	8.5	6.3	0.7	5.1
4-12- 8ME		9	4.4	12.3	8.6	5.2	3.3	6.9
4-16- 4		2	4.5	15.9	5.1	7.7	0.8	4.2
5-10-15		10	5.1	10.3	14.8	3.8	3.8	4.9
5-10-15ME		18	5.3	10.4	15.1	4.4	3.3	2.0
5-20-20		16	5.2	19.6	19.7	4.0	2.7	3.4
6-12-12		3	6.2	12.1	11.7	2.4	2.0	4.6
6-12-12ME		7	6.4	12.2	12.8	4.1	4.4	4.8
10-10-10		13	10.2	10.4	10.6	3.1	3.4	5.1
10-10-10ME		2	9.8	11.0	11.2	3.6	5.8	1.9
10-10-15		3	9.8	10.4	15.2	3.1	3.8	2.3
10-10-15ME		3	9.9	10.9	15.4	2.6	3.1	0.6
30- 0- 0		3	30.8	0	0	4.0	0	0
ALL GRADES	123	% OF GUAR.			CV			
		103.7	100.8	101.7	4.1	3.4	4.4	
TENNESSEE CORPORATION New Albany, Ind.	4-12- 8	2	4.4	11.2	9.2	3.2	3.1	13.1
	5-10-15	9	5.4	10.2	15.6	4.3	4.8	7.1
	5-20-20	4	5.1	19.6	21.4	5.1	1.7	5.3
	10-10-10	5	10.3	10.3	11.7	2.3	5.7	5.2
	10-10-20	2	10.8	11.8	20.2	2.6	3.6	10.1
	12-12-12	2	11.9	13.5	13.2	0.6	7.8	2.1
	ALL GRADES	29	% OF GUAR.			CV		
		104.8	101.0	107.2	3.2	4.5	6.9	

Average Analysis and Coefficient of Variation of Samples Analyzed, Spring Season, 1966  
(Cont'd.)

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
WARNER FERTILIZER CO. Somerset, Kentucky	0-20-20	2	0	20.3	20.5	0	0.7	6.9
	0-25-25	5	0	25.3	25.0	0	5.3	2.3
	4-12- 8	2	4.0	11.5	8.0	7.0	11.7	7.0
	5-10-15	3	5.0	9.8	15.0	8.7	3.1	4.2
	5-20-20	4	4.7	19.5	22.5	20.0	8.5	10.7
	10-10-10	3	10.3	9.1	10.8	11.0	6.6	11.4
	ALL GRADES	24	% OF GUAR.			CV		
		97.7	99.5	102.4	12.2	6.0	7.0	



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

AGRICO CHEMICAL COMPANY							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
MEMPHIS	102.82	102.13	103.17	4.48	4.59	4.39	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
AGRICO CHEMICAL COMPANY	102.82	102.13	103.17	4.48	4.59	4.39	
ARMOUR AGRI. CHEMICAL CO.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
ATLANTA	105.69	101.67	102.14	3.16	4.63	12.14	
CINCINNATI	101.57	102.30	100.13	6.04	4.69	6.41	
JEFFERSONVIL	100.03	101.46	104.18	4.97	4.82	4.95	
NASHVILLE	102.64	59.73	102.30	6.27	4.57	6.45	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
ARMOUR AGRI. CHEMICAL CO.	101.82	101.11	102.08	5.48	4.68	6.69	
BALE FERTILIZER COMPANY							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
HORSE CAVE	103.08	105.78	99.42	7.37	5.00	3.94	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
BALE FERTILIZER COMPANY	103.08	105.78	99.42	7.37	5.00	3.94	
BLUEGRASS PLANT FOODS, INC.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
CYNTHIANA	102.14	96.91	108.41	4.01	3.67	4.60	
DANVILLE	107.78	97.73	102.91	5.04	4.24	8.45	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
BLUEGRASS PLANT FOODS, INC.	105.88	97.47	104.63	4.61	4.01	6.90	
BURLEY BELT FERTILIZER CO.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
LEXINGTON	102.09	100.42	104.15	4.45	4.24	5.68	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
BURLEY BELT FERTILIZER CO.	102.09	100.42	104.15	4.45	4.24	5.68	
CLINE FERTILIZER COMPANY							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
EWING	106.38	104.24	101.92	7.67	7.74	8.52	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
CLINE FERTILIZER COMPANY	106.38	104.24	101.92	7.67	7.74	8.52	
COMMONWEALTH FERTILIZER CO.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
RUSSELLVILLE	104.78	59.75	105.50	4.85	5.34	6.20	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
COMMONWEALTH FERTILIZER CO.	104.78	59.75	105.50	4.85	5.34	6.20	

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

COOPERATIVE FERTILIZER SERVICE							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
LOUISVILLE	102.30	102.02	105.52		4.37	3.04	4.16
RUSSELLVILLE	101.93	100.05	104.33		4.06	3.17	4.39
WINCHESTER	102.46	100.42	102.66		3.10	2.69	3.33
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
COOPERATIVE FERTILIZER SERVICE	102.20	100.84	104.29		3.88	2.98	3.99
DARLING + COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
CAIRO	104.70	103.57	100.83		5.13	6.66	2.19
E. ST. LOUIS	104.76	103.45	101.16		5.43	4.00	2.29
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
DARLING + COMPANY	104.72	103.52	100.96		5.27	5.48	2.23
FARMERS CHEMICAL ASSN., INC.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
TYNER	103.68	0.00	0.00		1.32	0.00	0.00
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
FARMERS CHEMICAL ASSN., INC.	103.68	0.00	0.00		1.32	0.00	0.00
FEDERAL CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
HUMBOLDT	101.43	99.91	101.85		7.97	6.39	5.91
LOUISVILLE	104.26	101.25	105.40		7.00	4.98	8.26
NASHVILLE	103.31	97.64	104.60		3.42	3.68	5.60
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
FEDERAL CHEMICAL COMPANY	103.63	100.25	104.72		6.17	4.92	6.95
GLASGOW FERTILIZER COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
GLASGOW	106.06	100.34	104.83		3.17	4.46	6.71
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
GLASGOW FERTILIZER COMPANY	106.06	100.34	104.83		3.17	4.46	6.71
W.R. GRACE + CO.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
NASHVILLE	102.23	98.94	100.75		3.87	2.55	3.83
NEW ALBANY	102.49	102.17	105.83		3.60	4.28	4.85
HCPKINSVILLE	104.52	101.76	103.73		4.45	5.32	6.23
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
W.R. GRACE + CO.	102.61	100.94	103.79		3.86	3.82	4.73
GREEN VALLEY FARM SUPPLY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
ISLAND	102.68	99.47	101.86		15.75	5.96	5.27
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
GREEN VALLEY FARM SUPPLY	102.68	99.47	101.86		15.75	5.96	5.27



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

GRO-GREEN CHEMICAL CO., INC.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
SHELBYVILLE	97.55	104.77	103.42		5.71	10.13	7.19
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
GRO-GREEN CHEMICAL CO., INC.	97.55	104.77	103.42		5.71	10.13	7.19
GULF OIL CORP., AGRI CHEM DIV							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
CECILIA	107.82	102.49	105.55		3.59	3.90	6.18
CLARKSON	108.79	104.48	105.30		0.50	1.03	2.02
HENDERSON	106.72	102.83	104.11		4.18	8.50	12.31
KANSAS CITY	102.78	99.41	100.33		3.66	1.78	2.95
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
GULF OIL CORP., AGRI CHEM DIV	106.81	102.58	104.36		3.30	4.81	7.30
HUTSON CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
MURRAY	106.76	103.57	101.98		1.87	1.39	6.12
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
HUTSON CHEMICAL COMPANY	106.76	103.57	101.98		1.87	1.39	6.12
INTERNATIONAL MIN + CHEM CORP							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
CINCINNATI	100.41	99.36	103.56		5.55	5.11	4.73
CLARKSVILLE	98.37	99.74	103.82		8.18	5.69	8.39
SCMERSSET	101.38	99.06	106.39		7.91	6.19	7.19
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
INTERNATIONAL MIN + CHEM CORP	100.24	99.35	104.50		7.03	5.62	6.53
KENCO FERTILIZER COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
HORSE CAVE	107.59	103.79	101.66		0.00	2.62	10.10
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
KENCO FERTILIZER COMPANY	107.59	103.79	101.66		0.00	2.62	10.10
KENTUCKY FERTILIZER WORKS							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
WINCHESTER	102.59	100.22	103.81		4.52	5.27	4.95
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
KENTUCKY FERTILIZER WORKS	102.59	100.22	103.81		4.52	5.27	4.95
MOBIL CHEM CO, AGRI CHEM DIV							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
RICHMOND	102.04	99.42	104.51		4.92	2.77	4.51
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
MOBIL CHEM CO, AGRI CHEM DIV	102.04	99.42	104.51		4.92	2.77	4.51

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

MONSANTO AGRI. CENTERS, INC.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
SLAUGHTERS	102.93	104.21	101.35	5.04	6.15	3.63	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
MONSANTO AGRI. CENTERS, INC.	102.93	104.21	101.35	5.04	6.15	3.63	
NORTH AMERICAN FERTILIZER CO.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
LOUISVILLE	102.76	97.36	104.15	4.77	3.90	4.94	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
NORTH AMERICAN FERTILIZER CO.	102.76	97.36	104.15	4.77	3.90	4.94	
OHIO VALLEY FERTILIZER, INC.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
MAYSVILLE	101.73	99.69	100.83	4.77	7.22	5.88	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
OHIO VALLEY FERTILIZER, INC.	101.73	99.69	100.83	4.77	7.22	5.88	
F. S. ROYSTER GUANO COMPANY							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
MORFCLK	103.67	100.83	101.66	4.18	3.46	4.42	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
F. S. ROYSTER GUANO COMPANY	103.67	100.83	101.66	4.18	3.46	4.42	
STEWART FERTILIZER SERVICE							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
MT. VERNON	108.21	108.59	99.03	16.82	17.91	7.86	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
STEWART FERTILIZER SERVICE	108.21	108.59	99.03	16.82	17.91	7.86	
SWIFT + COMPANY							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
NAT STOCKYDS	101.85	103.57	103.63	1.37	1.91	6.71	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
SWIFT + COMPANY	101.85	103.57	103.63	1.37	1.91	6.71	
TENNESSEE CORPORATION							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
NEW ALBANY	104.81	100.97	107.19	3.28	4.52	6.96	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
TENNESSEE CORPORATION	104.81	100.97	107.19	3.28	4.52	6.96	
VALLEY COUNTIES OF KY. COOP.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
BENTON	102.91	100.55	100.51	2.86	2.61	3.32	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
VALLEY COUNTIES OF KY. COOP.	102.91	100.55	100.51	2.86	2.61	3.32	



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

WARNER FERTILIZER COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
SCMERSET	97.70	99.51	102.36		12.26	6.05	7.01
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
WARNER FERTILIZER COMPANY	97.70	99.51	102.36		12.26	6.05	7.01

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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- 0-50S	14719	0.0	0.0	50.5	*	101	13
0- 0-60M	13611	0.0	0.0	61.6		103	15
0- 0-60M	13814	0.0	0.0	61.6		103	15
0- 9-27M W/B	14573	0.0	10.7	26.7		107	14
0- 9-27M W/B	13521	0.0	9.5	27.4		103	16
0-13-27M W/B	14561	0.0	15.0	30.4		108	25
0-20- 0	14716	0.0	20.9	0.0		105	11
0-20- 0	15395	0.0	20.5	0.0		103	11
0-20- 0	15560	0.0	20.1	0.0		101	11
0-20- 0	13261	0.0	20.6	0.0		103	15
0-20- 0	14157	0.0	18.1*	0.0		91*	15
0-20- 0	14609	0.0	18.8*	0.0		94*	15
0-20- 0	14614	0.0	20.5	0.0		103	15
0-20- 0	14952	0.0	20.0	0.0		100	15
0-20- 0	15089	0.0	19.9	0.0		100	15
0-20-20M	13050	0.0	20.7	21.5		105	11
0-20-20M	13348	0.0	19.9	19.2*		98	11
0-20-20M	14562	0.0	20.1	19.3*		99	11
0-20-20M	13311	0.0	20.1	22.3		104	13
0-20-20M	14027	0.0	20.1	19.6		100	25
0-20-20M	15394	0.0	20.9	19.5*		102	25
0-20-20M	15554	0.0	20.4	19.7		101	25
0-20-20M W/B	13349	0.0	19.9	20.4		100	11
0-20-20M W/B	13312	0.0	19.3*	22.1		101	13
0-20-20M W/B	14304	0.0	21.7	18.9*		104	21
0-25-25M	13218	0.0	25.2	25.2		101	15
0-25-25M	13437	0.0	24.0*	24.3*		96*	15
0-25-25M	14612	0.0	25.6	25.7		103	15
0-25-25M	14901	0.0	26.1	24.5*		102	15
0-25-25M	14950	0.0	25.8	24.2*		101	15
0-25-25M	15859	0.0	24.3*	26.4		100	15
0-25-25M	13353	0.0	23.0*	28.4		99	16
0-25-25M	13877	0.0	24.6	25.4		99	16
0-25-25M	15084	0.0	25.2	25.9		102	25
0-25-25M W/B	15252	0.0	26.2	24.2*		102	15
3- 9- 6M	14032	3.0	8.8	6.0		98	11
3- 9- 6M	14711	3.3	9.1	6.2		104	11
3- 9- 6M	15555	3.2	9.0	6.3		102	11
3- 9- 6M	15981	3.3	8.2*	6.6		100	11
3-12-12M	13345	3.0	12.9	10.8*		101	11
4- 9- 3S	14210	4.0	9.4	4.0	*	106	11
4-12- 8M	13343	4.0	12.7	8.9		105	11
4-12- 8M	13438	4.0	12.5	8.5		103	11
4-12- 8M	14023	4.1	12.1	8.9		103	11
4-12- 8M	14714	4.3	11.8	8.9		103	11
4-12- 8M	14717	4.5	12.0	9.2		106	11
4-12- 8M	13006	4.1	12.6	9.1		106	15
4-12- 8M	13309	4.2	12.7	9.3		107	15
4-12- 8M	13323	4.0	13.0	8.7		106	15
4-12- 8M	13882	4.2	12.9	8.7		107	15
4-12- 8M	14061	4.2	12.7	9.4		107	15
4-12- 8M	14469	4.6	12.5	9.2		110	15
4-12- 8M	14601	4.5	12.9	8.6		109	15
4-12- 8M	15061	4.2	12.6	9.2		106	15



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

AGRIDO CHEMICAL COMPANY		MEMPHIS		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
4-12- 8M	15144	4.3	12.7	9.0			107	15
4-12- 8M	15303	4.3	12.5	9.5			108	15
4-12- 8M	15862	4.2	12.8	9.5			109	15
4-16- 4S	13081	4.2	16.4	4.2			103	11
4-16- 4S	13439	4.0	16.3	4.6			103	11
4-16- 4S	13899	4.1	15.9	4.0			100	11
4-16- 4S	14029	4.2	15.9	4.3			101	11
4-16- 4S	14030	3.9	16.1	4.5			101	11
4-16- 4S	14468	4.3	15.9	4.0			102	11
4-16- 4S	13321	4.1	16.1	4.3			102	13
5-10-10M	13051	5.0	10.3	10.4			102	11
5-10-10M	13351	4.9	9.7	10.6			99	11
5-10-10M	14712	5.3	12.8	12.2			119	25
5-10-10M	15556	5.6	12.1	10.8			116	25
5-10-10M	16124	5.6	11.1	10.2			110	25
5-10-15S	13256	4.9	10.1	15.5			101	11
5-10-15S	13346	4.9	10.0	15.3			100	11
5-10-15S	13350	5.1	9.9	15.5			101	11
5-10-15S	13500	4.7*	10.5	15.6			101	11
5-10-15S	14024	5.0	10.2	15.2			101	11
5-10-15S	14033	5.0	10.1	14.9			100	11
5-10-15S	14306	5.3	9.9	15.8			103	11
5-10-15S	14713	5.4	10.0	15.2			103	11
5-10-15S	15398	5.2	9.9	15.4			101	11
5-10-15S	15399	5.1	10.2	15.0			102	11
5-10-15S	15977	5.1	10.3	14.5*			100	11
5-10-15S	14949	5.5	10.2	15.8			105	13
5-10-15S	15039	5.3	10.5	15.4			104	14
5-10-15S	13005	5.3	10.2	15.6			103	15
5-10-15S	13059	5.2	11.2	14.0*			104	15
5-10-15S	13089	4.9	11.7	14.9	*		106	15
5-10-15S	13258	4.9	10.2	15.7			101	15
5-10-15S	13259	5.6	10.3	15.3			106	15
5-10-15S	13881	5.1	10.4	15.4			103	15
5-10-15S	13883	5.4	10.5	15.1			105	15
5-10-15S	13900	4.7	12.5	15.1			109	15
5-10-15S	13903	5.1	10.4	15.2			103	15
5-10-15S	13921	5.1	10.4	15.0			102	15
5-10-15S	13922	5.2	10.1	15.9			103	15
5-10-15S	14286	5.4	10.0	14.9			102	15
5-10-15S	14467	5.4	10.6	15.7			106	15
5-10-15S	14575	5.5	10.2	15.5	*		105	15
5-10-15S	14603	5.1	9.9	14.9			100	15
5-10-15S	14607	5.2	10.2	15.2			102	15
5-10-15S	14610	5.5	10.5	15.7			106	15
5-10-15S	14899	5.6	10.3	15.4			106	15
5-10-15S	14904	5.5	10.4	16.2			107	15
5-10-15S	15033	5.3	11.1	15.7			108	15
5-10-15S	15148	5.5	10.2	15.6			105	15
5-10-15S	15287	5.4	10.6	15.3			105	15
5-10-15S	15301	5.1	10.8	15.4			105	15
5-10-15S	15418	5.2	10.1	14.5*			100	15
5-10-15S	15841	5.3	10.1	16.4			105	15
5-10-15S	15861	5.3	10.2	15.1			102	15
5-10-15S	13522	5.2	10.2	16.7			105	16
5-10-15S	13878	4.9	10.9	15.2			103	16
5-20-10M	15038	5.2	18.6*	10.7			98	14

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

AGRICOLA CHEMICAL COMPANY		MEMPHIS		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	PDT				
5-20-10M	13235	5.4	19.7	9.6*		100	15	
5-20-10M	15745	5.3	18.3*	10.8		98	15	
5-20-10M	14986	5.2	18.5*	10.7		98	16	
5-20-20M	13342	5.0	19.0*	20.8		98	11	
5-20-20M	13440	4.9	19.4*	20.5		99	11	
5-20-20M	13501	4.8	19.4*	19.2*		96*	11	
5-20-20M	13042	5.3	20.1	20.4		102	15	
5-20-20M	13219	5.0	20.2	20.1		101	15	
5-20-20M	13260	5.2	19.9	22.0		103	15	
5-20-20M	13310	5.2	20.3	20.7		103	15	
5-20-20M	13325	4.9	20.6	21.0		102	15	
5-20-20M	13884	5.1	20.8	19.8		102	15	
5-20-20M	13924	5.2	20.6	19.9		102	15	
5-20-20M	14158	5.0	19.3*	18.4*		96*	15	
5-20-20M	14605	5.1	20.2	21.4		103	15	
5-20-20M	14613	8.2	17.0*	18.1*		102	15	
5-20-20M	14900	5.3	19.8	20.9		102	15	
5-20-20M	14905	5.0	19.6	20.7		100	15	
5-20-20M	15035	5.3	19.2*	20.1		99	15	
5-20-20M	15085	5.3	20.3	20.3		102	15	
5-20-20M	15151	5.3	20.4	21.6		104	15	
5-20-20M	15288	4.9	19.8	21.8		101	15	
5-20-20M	16007	5.4	19.7	20.7		102	15	
5-20-20M	13879	5.2	20.3	18.7*		100	16	
5-20-20M	14315	5.3	19.6*	20.5		101	23	
5-20-20M	15557	5.2	20.6	19.9		102	25	
5-20-20M	14025	5.3	21.5	21.4		107	26	
5-20-20M W/B	13923	5.0	19.2*	19.9		98	15	
5-20-20M W/B	14035	4.9	18.5*	21.3		97*	21	
6- 6-18S	14031	5.9	6.5	17.7		101	11	
6- 6-18S	14710	6.2	6.4	19.3		106	13	
6- 6-18S	13080	6.0	6.6	19.0		105	15	
6- 6-18S	13901	6.1	6.3	19.0		104	15	
6- 6-18S	14707	6.1	7.2	16.9*		103	15	
6- 6-18S	16090	6.0	6.3	19.0		103	16	
6-12-12M	13052	5.6*	11.3*	11.2*		94*	11	
6-12-12M	13347	6.1	11.8	12.1		100	11	
6-12-12M	13503	5.4*	10.9*	11.0*		91*	11	
6-12-12M	15036	5.8	14.1	14.3		111	14	
6-12-12M	15040	6.0	12.0	13.1		102	14	
6-12-12M	13063	6.3	12.0	12.5		103	15	
6-12-12M	13234	6.3	12.1	12.5		103	15	
6-12-12M	13324	6.6	12.4	12.8		106	15	
6-12-12M	13712	6.6	12.6	12.2		106	15	
6-12-12M	13717	6.0	12.3	12.5		102	15	
6-12-12M	13925	6.5	12.3	12.5		105	15	
6-12-12M	14062	6.3	12.3	12.1		103	15	
6-12-12M	14288	6.5	12.4	12.8		106	15	
6-12-12M	14537	6.2	12.0	12.7		102	15	
6-12-12M	14602	6.8	12.4	12.7		107	15	
6-12-12M	14626	6.6	12.3	13.0		106	15	
6-12-12M	15032	6.7	12.1	12.8		106	15	
6-12-12M	15062	5.9	12.4	11.7		100	15	
6-12-12M	15086	6.4	12.7	12.1		105	15	
6-12-12M	15304	6.2	12.4	12.9		104	15	
6-12-12M	15863	6.8	12.5	12.1		106	15	
6-12-12M	14159	6.8	14.5	11.9		113	23	



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

AGRICO CHEMICAL COMPANY		MEMPHIS		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
6-12-12M	15397	6.2	12.6	11.9		103	25	
6-12-12M	15558	6.7	12.4	13.0		107	25	
6-24-24M	14985	6.0	24.1	23.9		100	16	
8- 8-18S	14028	7.9	8.2	17.9		100	11	
8- 8-18S	14305	7.9	8.5	18.3		102	11	
8- 8-18S	13079	8.1	8.1	18.2		101	15	
8- 8-18S	14390	8.2	8.0	18.4		102	15	
8- 8-18S	14706	7.6*	8.6	17.6		99	15	
8- 8-18S	14709	7.8	8.1	18.1		100	15	
8- 8-18S	16091	7.9	8.2	18.3		101	16	
8- 8-18S	14037	8.0	8.0	18.6		101	21	
8-10-15S	14902	7.9	10.2	15.0		100	13	
8-10-15S	14036	7.9	10.1	15.4		100	21	
8-32-16M	14611	7.8	21.2*	17.4		80*	15	
8-32-16M	15916	8.0	31.6	16.7		100	15	
10-10-10M	13344	10.1	9.6*	10.8		101	11	
10-10-10M	13441	9.8	10.2	10.6		100	11	
10-10-10M	13502	9.8	10.1	10.7		100	11	
10-10-10M	14388	10.2	9.7*	10.7		101	13	
10-10-10M	13064	10.2	10.9	10.1		104	15	
10-10-10M	13078	10.3	10.4	11.0		104	15	
10-10-10M	13257	10.3	10.3	10.7		103	15	
10-10-10M	13322	10.1	10.2	11.0		103	15	
10-10-10M	13926	10.5	9.9	10.8		103	15	
10-10-10M	14285	10.1	10.4	11.1		103	15	
10-10-10M	14303	10.5	10.3	10.7		104	15	
10-10-10M	14604	10.5	10.2	11.3		105	15	
10-10-10M	14708	10.6	10.0	10.7		104	15	
10-10-10M	14951	9.8	10.3	10.9		102	15	
10-10-10M	15347	9.4*	9.5*	9.9		95*	15	
10-10-10M	15551	9.9	10.5	11.4		104	15	
10-10-10M	16100	10.0	10.4	11.0		103	15	
10-10-10M	14436	10.4	10.3	10.9		105	16	
10-10-10M	14026	10.5	10.9	10.2		106	25	
10-10-10M	14715	10.5	7.6*	7.8*		91*	25	
10-10-10M	14718	11.2	12.7	10.4		115	25	
10-10-10M	14903	10.1	12.0	10.8		108	25	
10-10-10M	15559	10.3	11.1	10.3		105	25	
10-10-10M	14022	10.2	11.7	10.4		107	26	
10-10-10S	15063	10.1	10.2	11.0	*	103	15	
10-10-15S	15037	9.5*	10.3	14.5*		98	14	
10-10-15S	15034	10.1	10.5	14.8		102	15	
10-20-20M	14574	6.5*	14.6*	13.4*		69*	15	
12-12-12M	13053	11.4*	11.9	11.6*		96*	11	
12-12-12M	13043	12.1	12.4	12.2		102	15	
12-12-12M	13220	12.0	12.2	12.2		101	15	
12-12-12M	13308	12.3	12.8	12.5		104	15	
12-12-12M	13885	12.0	12.9	12.5		103	15	
12-12-12M	14606	12.3	12.5	12.8		104	15	
12-12-12M	14608	12.1	12.4	12.8		103	15	
12-12-12M	14627	12.5	12.8	12.4		105	15	
12-12-12M	15064	12.3	12.7	12.1		103	15	
12-12-12M	15087	12.4	12.7	12.8		105	15	
12-12-12M	15302	12.0	12.4	12.4		101	15	
12-12-12M	15348	12.5	12.9	12.6		105	15	
12-12-12M	15396	12.3	12.3	12.6		103	15	
12-12-12M	15860	12.4	11.9	12.5		102	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

AGRICO CHEMICAL COMPANY		MEMPHIS		TENN	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
12-12-12M	16125	12.5	12.5	12.2		104	15
12-12-12M	13880	11.6*	12.3	12.8		100	16
12-12-12M	14563	12.7	13.2	12.5		107	25
15-15-15M	13044	15.1	14.9	15.4		101	15
16- 8- 8M	13077	16.0	9.1	9.0		104	15
18-46- 0	16232	18.3	46.0	0.0		101	16
20-20- 5M	15349	19.9	21.1	4.8		101	11
20-20- 5M	14034	19.6	22.6	5.1		104	21
33- 0- 0	13902	33.8	0.0	0.0		101	15
82- 0- 0	15367	82.0	0.0	0.0		100	19
82- 0- 0	15368	82.0	0.0	0.0		100	19
82- 0- 0	15369	82.0	0.0	0.0		100	19
82- 0- 0	15372	82.0	0.0	0.0		100	19
82- 0- 0	15377	82.0	0.0	0.0		100	19
82- 0- 0	15378	82.0	0.0	0.0		100	19
82- 0- 0	15380	82.0	0.0	0.0		100	19
82- 0- 0	15382	82.0	0.0	0.0		100	19
82- 0- 0	15385	82.0	0.0	0.0		100	19
82- 0- 0	15387	82.0	0.0	0.0		100	19
82- 0- 0	15644	82.0	0.0	0.0		100	19
82- 0- 0	15649	82.0	0.0	0.0		100	19
82- 0- 0	15653	82.0	0.0	0.0		100	19
82- 0- 0	15658	82.0	0.0	0.0		100	19
82- 0- 0	15661	82.0	0.0	0.0		100	19
82- 0- 0	15666	82.0	0.0	0.0		100	19
82- 0- 0	15668	82.0	0.0	0.0		100	19
82- 0- 0	15669	82.0	0.0	0.0		100	19
82- 0- 0	16255	82.0	0.0	0.0		100	19
82- 0- 0	16256	82.0	0.0	0.0		100	19
82- 0- 0	16263	82.0	0.0	0.0		100	19
82- 0- 0	16269	82.0	0.0	0.0		100	19
82- 0- 0	16272	82.0	0.0	0.0		100	19
82- 0- 0	16276	82.0	0.0	0.0		100	19
82- 0- 0	16280	82.0	0.0	0.0		100	19
82- 0- 0	16281	82.0	0.0	0.0		100	19
82- 0- 0	16285	82.0	0.0	0.0		100	19
82- 0- 0	16286	82.0	0.0	0.0		100	19
82- 0- 0	16295	82.0	0.0	0.0		100	19
82- 0- 0	16298	82.0	0.0	0.0		100	19
82- 0- 0	16299	82.0	0.0	0.0		100	19
82- 0- 0	16305	82.0	0.0	0.0		100	19
82- 0- 0	16308	82.0	0.0	0.0		100	19
ALLIED CHEMICAL CORPORATION		HOPEWELL		VA.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
30- 0- 0	13728	30.7	0.0	0.0		102	19
33- 0- 0	14474	34.1	0.0	0.0		102	17
37- 0- 0	15116	37.9	0.0	0.0		102	19
ALLIED CHEMICAL CORPORATION		MEMPHIS		TENN	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
30- 0- 0	12980	29.9	0.0	0.0		100	19
ALLIED CHEMICAL CORPORATION		SOUTH POINT		OHIO	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
11-37- 0	16163	11.5	37.1	0.0		101	19
28- 0- 0	12979	27.3*	0.0	0.0		98	19
30- 0- 0	14800	30.6	0.0	0.0		102	19



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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

AMERICAN CYANAMID COMPANY		PRINCETON		N. J.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0-46- 0	14466	0.0	47.1	0.0		102	15	
0-46- 0	13812	0.0	47.7	0.0		104	17	
0-46- 0	14336	0.0	46.6	0.0		101	17	
33- 0- 0	13431	34.5	0.0	0.0		103	17	
ARMOUR AGRI. CHEMICAL CO.		ATLANTA		GA.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0-46- 0	14817	0.0	45.8	0.0		100	15	
0-46- 0	14669	0.0	45.6	0.0		99	17	
3-12-24M	13561	3.2	11.5*	21.0*		94*	15	
4-16- 4S	13680	4.4	15.3*	4.9	*	102	11	
5- 5- 0	13933	4.8	4.7*	0.0		95*	11	
5-10- 5M	15912	5.3	9.7*	7.2		106	15	
5-10- 5S	13121	6.3	11.9	3.3*		115	11	
5-10- 5S	13895	6.5	12.0	3.3*		117	11	
5-10- 5S	13180	6.1	9.4*	5.5		107	13	
5-10- 5S	13181	6.2	9.6*	6.7	*	111	13	
5-10- 5S	13495	5.8	12.3	3.9*		115	13	
5-10- 5S	13600	7.0	9.1*	5.5		111	13	
5-10- 5S	13585	5.9	10.3	5.7	*	110	15	
5-10- 5S	13942	5.5	10.5	4.8		106	15	
12-24-24M	13563	12.3	24.7	24.3		102	15	
12-24-24M	15786	11.9	24.4	24.6		101	15	
12-24-24M	15798	12.1	23.8	24.6		100	15	
12-24-24M	15021	12.3	24.7	23.9		102	17	
12-24-24M	16067	12.2	24.2	24.9		102	17	
15-15-15M	15873	15.4	15.7	16.1		104	15	
15-15-15M	13729	15.1	15.8	14.9		102	17	
15-15-15M	15031	15.3	15.3	15.3		102	17	
15-40- 5M	14111	15.1	41.5	7.0		104	17	
15-40- 5M	15121	15.1	39.9	5.9		101	17	
33- 0- 0	14442	34.0	0.0	0.0		102	17	
ARMOUR AGRI. CHEMICAL CO.		CHEROKEE		ALA.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
12-24-24M	13768	11.1*	23.1*	25.0		97*	14	
28- 0- 0	12945	28.7	0.0	0.0		102	19	
28- 0- 0	12982	28.5	0.0	0.0		102	19	
28- 0- 0	13800	28.1	0.0	0.0		100	19	
82- 0- 0	15370	82.0	0.0	0.0		100	19	
82- 0- 0	15374	82.0	0.0	0.0		100	19	
82- 0- 0	15376	82.0	0.0	0.0		100	19	
82- 0- 0	15381	82.0	0.0	0.0		100	19	
82- 0- 0	15383	82.0	0.0	0.0		100	19	
82- 0- 0	15384	82.0	0.0	0.0		100	19	
82- 0- 0	15641	82.0	0.0	0.0		100	19	
82- 0- 0	15651	82.0	0.0	0.0		100	19	
82- 0- 0	15662	82.0	0.0	0.0		100	19	
82- 0- 0	15667	82.0	0.0	0.0		100	19	
82- 0- 0	16264	82.0	0.0	0.0		100	19	
82- 0- 0	16267	82.0	0.0	0.0		100	19	
82- 0- 0	16275	82.0	0.0	0.0		100	19	
82- 0- 0	16279	82.0	0.0	0.0		100	19	
82- 0- 0	16284	82.0	0.0	0.0		100	19	
82- 0- 0	16300	82.0	0.0	0.0		100	19	
82- 0- 0	16301	82.0	0.0	0.0		100	19	
82- 0- 0	16303	82.0	0.0	0.0		100	19	
82- 0- 0	16307	82.0	0.0	0.0		100	19	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

ARMOUR AGRIC. CHEMICAL CO.		CINCINNATI		OHIO		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-0-50S	15628	0.0	0.0	46.9*			94*	11
0-0-62M	14620	0.0	0.0	57.6*			93*	15
0-20-0	16102	0.0	19.4*	0.0			97*	11
0-20-0	15344	0.0	20.6	0.0			103	13
0-20-0	14621	0.0	20.1	0.0			100	15
0-20-20M	14072	0.0	17.7*	19.6			92*	13
0-20-20M	13054	0.0	18.8*	19.6			95*	15
0-20-20M	13091	0.0	19.2*	21.7			100	15
0-20-20M	16010	0.0	21.0	21.2			105	15
0-20-20M W/B	16008	0.0	18.3*	20.5			95*	13
3-12-24M W/B	13361	2.8	11.0*	22.5*			93*	15
4-12-8M	13393	4.0	13.4	8.6			107	15
4-12-8M	13400	3.9	11.5*	8.4			98	15
4-12-8M	13908	4.7	12.6	8.2			108	15
4-12-8M	14076	5.0	12.1	9.9			112	15
4-12-8M	14190	4.7	13.3	9.2			114	15
4-12-8M	14284	5.7	12.9	10.6			122	15
4-12-8M	14622	4.9	15.2	13.7			134	15
4-12-8M	14643	4.6	12.2	7.5*			104	15
4-12-8M	15289	4.3	13.4	9.6			112	15
4-12-8M	15351	5.0	12.4	8.0			108	15
4-16-4S	13796	5.2	15.4*	6.5		*	110	11
4-16-4S	13394	4.4	16.3	6.9		*	110	13
5-10-5S	13795	5.5	10.2	4.9		*	104	11
5-10-5S	13580	5.7	10.4	6.0		*	110	13
5-10-5S	13581	5.5	10.7	6.3		*	110	13
5-10-5S	13920	4.8	10.9	6.1			106	13
5-10-10M	13689	5.2	10.3	10.1			103	13
5-10-10M	12951	5.1	17.1	15.7			144	15
5-10-10M	13055	5.1	9.9	10.1			101	15
5-10-10M	13092	5.6	9.9	10.2			104	15
5-10-10M	13198	4.9	17.4	15.7			145	15
5-10-10M	13319	5.5	10.5	10.5			106	15
5-10-10M	13328	5.4	11.6	11.3			113	15
5-10-10M	13329	5.3	11.4	9.2*			107	15
5-10-10M	13354	5.0	10.9	11.1			106	15
5-10-10M	13401	5.4	9.8	9.9			101	15
5-10-10M	13982	5.7	11.1	11.3			112	15
5-10-10M	14073	5.1	10.6	10.2			104	15
5-10-10M	14281	5.8	10.3	10.4			108	15
5-10-10M	14618	5.5	10.3	9.8			104	15
5-10-10M	14831	5.4	10.5	10.8			107	15
5-10-10M	15353	5.6	10.2	10.1			105	15
5-10-10M	15626	5.4	11.4	12.8			115	15
5-10-15S	13093	5.2	10.4	15.3		*	103	13
5-10-15S	13359	6.9	10.2	13.0*		*	108	13
5-10-15S	13395	5.0	10.7	14.5*			101	13
5-10-15S	13402	5.1	10.3	14.9			102	13
5-10-15S	13909	5.3	10.2	14.6*			102	13
5-10-15S	14635	5.0	10.4	13.8*			99	13
5-10-15S	14838	5.2	10.2	14.2*			100	13
5-10-15S	15352	5.1	10.3	14.4*			101	13
5-10-15S	16099	5.2	10.4	14.4*			101	13
5-10-15S	12954	5.1	10.8	14.8			104	15
5-10-15S	13088	5.0	10.6	15.2			103	15
5-10-15S	13095	4.8	10.8	15.4			103	15
5-10-15S	13273	4.8	10.2	14.8			99	15



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

ARMOUR AGRI. CHEMICAL CO.	CINCINNATI	OHIO					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-10-15S	13317	5.0	10.7	14.4*		102	15
5-10-15S	13396	5.0	10.5	14.9		102	15
5-10-15S	13403	5.0	10.2	15.2		101	15
5-10-15S	13586	5.1	11.0	14.3*	*	103	15
5-10-15S	13934	5.1	10.5	14.9		102	15
5-10-15S	13943	4.9	10.8	14.6*		101	15
5-10-15S	14128	4.9	10.1	14.8	*	99	15
5-10-15S	14283	5.6	10.2	14.9		104	15
5-10-15S	14374	5.5	10.5	15.1		105	15
5-10-15S	14636	5.1	10.3	13.5*		99	15
5-10-15S	14644	5.2	10.6	13.7*		101	15
5-10-15S	15290	5.2	10.9	14.0*		103	15
5-10-15S	15490	5.3	11.0	13.4*		103	15
5-10-15S	15989	5.3	9.9	14.9	*	101	15
5-10-20S	12949	5.7	14.1	18.9*		117	15
5-20-20M	12953	5.3	19.8	17.8*		98	15
5-20-20M	13096	5.3	18.6*	19.7		97*	15
5-20-20M	13199	5.0	19.6	18.1*		96*	15
5-20-20M	13274	5.1	19.0*	20.3		98	15
5-20-20M	13318	4.8	19.8	19.9		98	15
5-20-20M	13330	4.9	20.4	19.2*		100	15
5-20-20M	13360	4.9	20.4	18.4*		98	15
5-20-20M	13397	5.2	19.1*	20.2		99	15
5-20-20M	13404	5.2	19.0*	19.9		98	15
5-20-20M	13582	5.0	19.9	20.7		101	15
5-20-20M	13907	4.7	19.8	19.5*		98	15
5-20-20M	13910	5.0	19.8	19.0*		98	15
5-20-20M	13935	5.3	19.1*	17.2*		95*	15
5-20-20M	13947	5.2	19.4*	20.1		99	15
5-20-20M	13983	5.0	20.2	19.0*		99	15
5-20-20M	14129	5.2	19.1*	18.1*		96*	15
5-20-20M	14637	5.3	18.3*	19.2*		95*	15
5-20-20M	15154	5.5	18.5*	20.2		98	15
5-20-20M	15345	5.2	19.7	19.3*		99	15
5-20-20M	16101	5.4	19.3*	20.1		100	15
5-20-20M W/B	16006	4.8	17.8*	20.5		94*	15
6- 6-18S	13275	5.8	7.2	17.7		103	15
6- 6-18S	13944	6.1	8.0	16.9*		107	15
6- 6-18S	15630	6.5	8.0	16.8*	*	109	15
6-12-12M	13056	5.8	13.2	11.7		103	15
6-12-12M	13357	5.8	12.6	11.8		101	15
6-12-12M	13405	5.3*	13.9	14.0		107	15
6-12-12M	14074	5.5*	12.4	12.1		99	15
6-12-12M	14191	5.8	12.6	12.8		103	15
6-12-12M	14287	5.6*	12.4	10.8*		97*	15
6-12-12M	14617	5.8	11.8	12.5		99	15
6-12-12M	14645	6.2	12.3	10.4*		99	15
6-12-12M	14832	6.2	12.2	12.3		102	15
6-12-12M	15155	6.6	11.7	13.3		105	15
6-12-18M	13406	5.9	12.0	17.1*		98	15
6-12-18M	14646	5.9	12.4	17.3*		100	15
6-12-18S	13398	6.3	11.8	17.9	*	100	13
6-12-18S	13898	6.0	11.5*	17.4*		97*	13
6-12-18S	13911	5.8	13.8	16.7*		103	13
6-12-18S	14616	5.6*	12.6	17.9		100	13
6-12-18S	15153	6.0	11.7	18.7		100	13
6-12-18S	12952	5.9	12.4	17.4*		100	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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				
6-12-18S	13276	5.8	13.4	17.9			104	15
6-12-18S	13320	5.8	12.2	17.7			99	15
6-12-18S	13356	6.0	12.7	17.7	*		102	15
6-12-18S	13583	6.4	11.5*	17.5*			100	15
6-12-18S	13587	6.5	11.8	17.9	*		101	15
6-12-18S	15073	6.3	12.1	17.5*			101	15
6-12-18S	15346	5.6*	11.5*	17.9	*		96*	15
6-24-12M	13331	5.8	23.9	11.5*			98	15
6-24-12M	14619	6.1	24.3	11.4*			101	15
10-10-10M	12950	10.3	10.4	9.9			103	15
10-10-10M	13087	10.2	9.4*	10.5			100	15
10-10-10M	13094	9.6*	11.1	10.8			103	15
10-10-10M	13102	10.2	9.9	11.4			103	15
10-10-10M	13277	10.2	10.2	11.5			104	15
10-10-10M	13358	10.1	10.4	9.6*			101	15
10-10-10M	13399	9.6*	10.9	10.4			102	15
10-10-10M	13912	8.8*	11.9	10.3			100	15
10-10-10M	13914	9.9	10.6	10.1			101	15
10-10-10M	13945	10.0	11.7	10.4			106	15
10-10-10M	14130	9.3*	10.3	10.4			98	15
10-10-10M	14282	9.7	11.2	10.5			103	15
10-10-10M	14375	9.6*	10.8	11.3			103	15
10-10-10M	15150	10.0	10.6	10.0			102	15
10-20-20M	15958	9.6*	16.9*	18.6*			90*	15
12-12-12M	13057	9.8*	13.3	14.2			97*	15
12-12-12M	13913	11.6*	12.9	13.0			102	15
12-12-12M	14075	11.4*	13.9	11.6*			102	15
12-12-12M	14079	11.6*	13.3	13.4			104	15
12-12-12M	14185	10.4*	13.5	11.9			98	15
12-12-12M	14615	11.9	12.6	12.8			102	15
12-12-12M	14975	11.4*	12.6	13.4			101	15
12-12-12M	15074	12.3	11.7	12.0			100	15
12-12-12M	15627	12.2	12.8	12.3			104	15
12-12-12M	16131	11.7	12.8	12.7			102	15
15-15-15M	16009	15.4	15.3	15.2			102	15
ARMOUR AGRI. CHEMICAL CO.		CRYSTAL CITY MO.						
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
33- 0- 0	13097	33.9	0.0	0.0		101	15	
ARMOUR AGRI. CHEMICAL CO.		E. ST. LOUIS ILL.						
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
6-12-12M	14131	5.4*	12.1	12.0		97*	15	
ARMOUR AGRI. CHEMICAL CO.		FORT MEADE FLA.						
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0-46- 0	13126	0.0	47.7	0.0		104	15	
ARMOUR AGRI. CHEMICAL CO.		JEFFERSONVILLIND.						
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0- 0-50S	14866	0.0	0.0	53.1		106	11	
0- 0-50S	15361	0.0	0.0	51.0		102	11	
0- 0-50S	15514	0.0	0.0	52.9		106	11	
0- 0-62M	13652	0.0	0.0	62.3		100	15	
0- 0-62M	14450	0.0	0.0	61.0*		98	15	
0- 0-62M	15808	0.0	0.0	62.0		100	15	
0-20- 0	13389	0.0	20.6	0.0		103	11	
0-20- 0	14525	0.0	19.1*	0.0		95*	11	
0-20- 0	15217	0.0	18.2*	0.0		91*	11	
0-20- 0	15362	0.0	19.7	0.0		99	11	
0-20-20M	12993	0.0	21.5	19.1*		103	17	



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

ARMOUR AGRI. CHEMICAL CO.		JEFFERSONVILLIND.						
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0-20-20M	13691	0.0	19.1*	19.7		96*	23	
0-20-20M	14452	0.0	21.8	19.7		105	25	
0-20-20M	15215	0.0	19.2*	20.5		98	25	
0-20-20M	14161	0.0	18.7*	21.1		97*	26	
0-20-20M W/B	14745	0.0	19.3*	19.8		97*	13	
0-20-20M W/B	15809	0.0	22.4	16.6*		102	15	
0-20-20M W/B	14908	0.0	20.5	18.9*		100	25	
0-20-20M W/B	15857	0.0	17.6*	20.4		93*	25	
0-20-20M W/B	14160	0.0	20.4	21.9		104	26	
0-25-25M	15515	0.0	27.7	20.7*		102	25	
3-12-12M	15959	3.2	13.3	12.3		108	15	
4-12- 8M	13635	4.0	13.1	10.5		111	13	
4-12- 8M	14045	3.9	12.7	9.8		106	13	
4-12- 8M	15825	4.4	11.8	10.1		106	13	
4-12- 8M	13390	3.9	12.7	9.7		106	15	
4-12- 8M	14747	4.4	11.8	8.6		103	15	
4-12- 8M	15145	4.8	12.8	8.4		110	15	
5-10- 5S	13834	5.0	10.0	5.4		101	11	
5-10- 5S	14043	4.9	10.2	5.4		101	11	
5-10-15S	13025	5.1	10.3	15.7	*	103	11	
5-10-15S	13082	4.9	10.1	15.8		102	11	
5-10-15S	14746	5.1	10.4	15.7	*	104	11	
5-10-15S	12995	5.1	10.4	16.3	*	104	13	
5-10-15S	13124	4.9	10.1	15.4		101	13	
5-10-15S	13193	4.9	11.9	15.1	*	107	13	
5-10-15S	13384	5.1	10.5	16.0	*	104	13	
5-10-15S	13419	5.1	12.0	15.8	*	110	13	
5-10-15S	13630	4.5*	10.0	15.6		98	13	
5-10-15S	13632	5.2	10.3	14.6*		102	13	
5-10-15S	14044	5.2	11.0	15.8	*	106	13	
5-10-15S	15714	5.0	10.0	16.7		104	13	
5-10-15S	15814	5.3	10.3	15.7		104	13	
5-10-15S	13423	4.7	10.2	15.5		100	15	
5-10-15S	13802	4.9	9.6*	16.3		100	15	
5-10-15S	13940	4.9	9.8	16.3		101	15	
5-10-15S	13941	4.8	10.7	15.7	*	103	15	
5-10-15S	14463	5.0	11.0	15.8		106	15	
5-10-15S	14859	5.3	11.2	16.0	*	108	15	
5-10-15S	14867	4.9	11.0	14.8	*	103	15	
5-10-15S	14911	5.4	9.8	15.5		102	15	
5-10-15S	15146	5.4	11.0	15.2	*	107	15	
5-10-15S	15149	4.9	10.2	16.4		103	15	
5-10-15S	15218	5.4	10.1	16.2		105	15	
5-10-15S	15872	5.5	10.4	16.1		107	15	
5-20-20M	14047	5.1	18.1*	20.6		96*	13	
5-20-20M	15401	5.1	19.3*	20.5		99	13	
5-20-20M	14163	5.1	18.9*	21.2		99	14	
5-20-20M	13125	5.1	18.9*	20.0		97*	15	
5-20-20M	13629	5.2	17.9*	21.7		97*	15	
5-20-20M	13803	5.0	19.2*	21.3		99	15	
5-20-20M	14451	5.3	19.0*	20.7		99	15	
5-20-20M	14459	5.5	18.9*	20.3		99	15	
5-20-20M	14865	5.0	21.4	17.8*		101	15	
5-20-20M	14909	5.6	19.3*	20.1		101	15	
5-20-20M	15216	5.2	19.4*	20.3		99	15	
5-20-20M	15359	5.1	17.5*	22.3		97*	15	
5-20-20M	15435	5.4	20.3	19.0*		101	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

ARMOUR AGRIL. CHEMICAL CO.		JEFFERSONVILLIND.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-20-20M	15516	5.2	18.4*	21.9		99	15
5-20-20M	15812	5.2	18.8*	22.5		101	15
5-20-20M	15826	6.0	21.0	18.3*		104	15
5-20-20M	15870	6.1	21.3	20.7		109	15
6- 6-18S	13690	5.9	6.6	18.1		102	11
6- 6-18S	13194	5.7	6.5	16.9*		98	13
6- 6-18S	13278	6.3	7.3	18.1	*	107	13
6-12-12M	12998	6.0	11.8	13.7		102	13
6-12-12M	13085	5.9	12.5	13.0		103	13
6-12-12M	14164	5.8	11.7	13.7		101	14
6-12-12M	13023	5.8	12.0	13.4		101	15
6-12-12M	13123	5.9	11.8	12.9		100	15
6-12-12M	13681	6.1	12.1	13.1		103	15
6-12-12M	14449	5.9	12.2	15.2		106	15
6-12-12M	14462	6.1	11.4*	12.9		100	15
6-12-12M	15799	6.1	11.8	12.1		100	15
6-12-12M	15828	5.8	12.0	12.4		100	15
6-12-12M	15858	6.5	11.7	12.5		103	15
6-12-12S	14409	6.7	13.1	15.4		114	13
6-12-12S	13946	6.3	13.2	15.6	*	112	15
6-12-12S	15363	5.3*	13.8	13.7	*	106	15
6-12-12S	15829	6.3	11.9	13.3		103	15
6-12-18S	12994	5.5*	12.4	17.3*		98	13
6-12-18S	13024	5.6*	12.3	17.4*	*	98	13
6-12-18S	13084	5.7	12.5	16.9*		98	13
6-12-18S	13801	5.6*	11.8	17.9		97*	13
6-12-18S	14524	6.0	12.6	19.3		104	13
6-12-18S	13391	5.9	13.1	15.8*		99	15
6-12-18S	13631	5.9	12.2	18.7		101	15
6-12-18S	15200	6.2	11.9	18.3		101	15
6-12-18S	15871	6.2	12.3	19.4		104	15
6-24-24M	15677	6.2	22.2*	23.6		96*	15
7-14-21NIT	15205	7.0	14.0	22.1	*	101	15
8-10-15S	14453	8.3	9.8	15.4	*	101	15
8-10-15S	14910	8.0	10.0	15.0	*	100	15
8-10-15S	15801	8.2	10.2	14.9		102	15
10-10-10M	14162	9.8	10.4	12.2		104	14
10-10-10M	13236	9.6*	10.7	10.6		101	15
10-10-10M	13385	10.0	10.2	11.2		102	15
10-10-10M	13420	9.3*	10.4	11.8		101	15
10-10-10M	13422	8.5*	10.5	12.1		98	15
10-10-10M	13682	9.9	11.0	11.1		104	15
10-10-10M	13804	10.2	10.5	11.1		105	15
10-10-10M	15214	9.8	10.4	12.1		104	15
10-10-10M	15280	9.9	10.6	11.0		103	15
10-10-10M	15420	9.2*	10.6	11.4		100	15
10-10-10M	15813	9.9	10.3	12.3		104	15
10-11-17S W/ME	14448	9.6*	12.0	20.2		100	25
12-12-12M	13083	11.4*	12.3	12.7		99	13
12-12-12M	13688	10.8*	12.0	13.3		97*	13
12-12-12M	15800	11.0*	13.1	12.9		100	15
12-12-12M	15807	11.1*	13.8	13.2		103	15
ARMOUR AGRIL. CHEMICAL CO.		MEMPHIS TENN					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-10-10M	13655	6.5	12.3	12.3		125	17
6-12-12M	15678	5.7*	11.3*	13.7		99	15
6-12-12M	13653	6.1	12.2	12.8		103	17



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

ARMOUR AGRI. CHEMICAL CO.		MEMPHIS		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	PDT				
15-15-15M	13654	15.2	15.8	15.7			103	17
ARMOUR AGRI. CHEMICAL CO.		NASHVILLE		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	PDT				
0- 0-48S	15023	0.0	0.0	52.3			109	15
0- 0-58M W/B	14441	0.0	0.0	60.1			104	17
0- 0-60M	14998	0.0	0.0	61.9			103	16
0- 0-62M	15114	0.0	0.0	62.5			101	13
0- 9-27M W/B	14088	0.0	10.0	26.4*			103	13
0-20- 0	14046	0.0	21.0	0.0			105	13
0-20- 0	13179	0.0	20.5	0.0			103	15
0-20- 0	14328	0.0	21.1	0.0			105	15
0-20-20M	14091	0.0	19.7	20.5			100	13
0-20-20M	15414	0.0	20.6	20.6			103	14
0-20-20M	13127	0.0	19.6	20.5			100	15
0-20-20M	13782	0.0	19.1*	19.6			96*	15
0-20-20M	14944	0.0	20.7	20.6			103	15
0-20-20M	16330	0.0	19.1*	19.3*			96*	15
0-46- 0	14093	0.0	46.2	0.0			101	11
0-46- 0	15587	0.0	45.8	0.0			100	15
3-12- 6M	13119	3.4	12.6	6.4			107	11
3-12- 6M	13183	3.0	12.2	6.7			103	13
3-12- 6M	13188	3.0	12.8	6.6			105	13
3-12- 6M	13443	2.9	12.9	6.9			106	13
3-12- 6M	14110	3.3	12.7	7.2			109	13
3-12- 6M	14668	3.8	11.8	7.2			108	15
3-12- 6M	14684	3.8	11.8	7.3			109	15
3-12-24M	13172	3.1	10.6*	23.9			96*	15
3-12-24M	13684	3.2	11.8	24.0			100	15
3-12-24M	15476	3.1	12.4	23.2*			101	15
3-12-24M W/B	13517	3.0	11.3*	25.2			100	13
3-12-24M W/B	15416	3.4	11.9	23.8			102	16
4-12- 8M	14538	4.5	12.4	9.3			108	13
4-12- 8M	13168	4.4	12.1	9.0			106	15
4-12- 8M	13355	4.1	12.1	9.0			104	15
4-12- 8M	13444	4.0	12.3	8.6			102	15
4-12- 8M	14325	4.5	12.1	9.3			107	15
4-12- 8M	14654	4.4	12.1	8.9			105	15
4-12- 8M	15477	4.4	11.9	8.5			103	15
5-10- 5S	13532	6.6	12.2	6.4			127	11
5-10- 5S	14198	5.1	10.1	5.5			103	13
5-10- 5S	14945	6.1	9.8	6.7		*	111	13
5-10-10M	13237	5.4	10.4	10.1			105	15
5-10-10M	13560	4.9	10.8	11.7			106	15
5-10-10M	14326	5.1	10.2	9.9			101	15
5-10-10M	14946	5.5	10.2	10.2			104	15
5-10-10M	15224	5.2	10.4	10.8			105	15
5-10-10M	15674	5.3	10.0	13.6			110	15
5-10-15S	14089	4.9	9.8	15.7			100	11
5-10-15S	13748	5.4	9.9	14.3*		*	101	13
5-10-15S	14540	5.7	9.9	14.3*			102	13
5-10-15S	15521	5.6	9.8	14.6			102	14
5-10-15S	13128	4.9	10.6	15.4		*	103	15
5-10-15S	13170	5.1	10.2	13.5*			98	15
5-10-15S	13529	5.3	9.9	14.9			101	15
5-10-15S	13562	5.1	10.0	13.6*		*	98	15
5-10-15S	13685	4.9	10.3	14.8			100	15
5-10-15S	13730	5.3	10.1	14.5*			101	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

ARMOUR AGRIL. CHEMICAL CO.		NASHVILLE		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-10-15S	14415	5.1	10.4	14.3*		101	15	
5-10-15S	14528	5.7	9.8	14.9		103	15	
5-10-15S	14673	5.4	10.0	14.7		102	15	
5-10-15S	15024	5.0	9.6*	16.5		102	15	
5-10-15S	15122	6.1	9.1*	15.3		104	15	
5-10-15S	15322	5.9	9.8	14.9		105	15	
5-10-15S	15588	5.3	9.7	16.0		102	15	
5-10-15S	15673	5.2	10.9	16.3	*	108	15	
5-10-15S	16047	5.1	9.7*	16.7		103	15	
5-10-15S	16155	5.2	9.6*	17.8		105	15	
5-20-20M	14995	5.4	18.7*	21.3		100	14	
5-20-20M	14997	5.0	17.8*	22.6		98	14	
5-20-20M	13167	5.0	17.9*	21.6		96*	15	
5-20-20M	13530	5.4	18.9*	20.6		100	15	
5-20-20M	13558	4.7*	18.8*	20.0		95*	15	
5-20-20M	13731	5.0	17.6*	20.2		94*	15	
5-20-20M	13744	5.8	17.7*	20.3		97*	15	
5-20-20M	13746	4.8	19.6	20.1		98	15	
5-20-20M	13749	4.9	19.6*	20.1		99	15	
5-20-20M	14414	5.1	19.3*	19.2*		97*	15	
5-20-20M	14527	5.3	19.7	21.1		102	15	
5-20-20M	14541	5.5	16.7*	20.1		93*	15	
5-20-20M	14581	5.1	18.7*	22.3		100	15	
5-20-20M	14664	5.4	18.3*	21.8		99	15	
5-20-20M	14674	5.1	18.2*	22.1		98	15	
5-20-20M	14947	5.2	18.7*	21.1		99	15	
5-20-20M	14948	5.2	20.8	18.7*		101	15	
5-20-20M	14993	5.1	19.3*	19.9		98	15	
5-20-20M	15096	5.3	19.6	19.6		100	15	
5-20-20M	15119	5.2	19.6	20.7		101	15	
5-20-20M	15193	5.2	18.7*	19.9		97*	15	
5-20-20M	15323	6.7	16.8*	18.3*		96*	15	
5-20-20M	15478	5.3	19.8	18.2*		98	15	
5-20-20M	15787	5.5	20.6	19.0*		102	15	
5-20-20M	16046	4.7*	19.2*	19.8		96*	15	
5-20-20M	16156	5.1	19.4*	19.9		99	15	
5-20-20M	14570	5.4	16.7*	20.7		94*	16	
5-20-20M	15413	5.2	19.6	20.4		100	16	
5-20-20M	16207	4.7*	19.0*	21.0		97*	16	
5-20-20M	12996	5.1	20.3	20.5		102	17	
6- 6-18S	15201	6.3	6.7	18.1		105	13	
6-12-12M	14526	6.0	11.9	12.4		100	13	
6-12-12M	13765	5.9	12.1	12.2		100	14	
6-12-12M	15523	6.7	11.4*	12.9		103	14	
6-12-12M	13174	6.0	11.7	13.0		101	15	
6-12-12M	13528	6.3	11.9	11.9		101	15	
6-12-12M	13557	6.4	12.9	13.3		107	15	
6-12-12M	13732	5.9	12.0	12.7		101	15	
6-12-12M	13733	6.1	11.2*	12.4		99	15	
6-12-12M	14092	5.9	11.5*	12.1		97*	15	
6-12-12M	14109	6.0	12.2	13.8		104	15	
6-12-12M	14327	6.2	11.8	13.4		103	15	
6-12-12M	14439	6.0	11.9	12.4		100	15	
6-12-12M	14671	6.2	11.9	12.4		101	15	
6-12-12M	15022	6.1	11.7	12.9		101	15	
6-12-12M	15123	6.2	11.9	12.7		102	15	
6-12-12M	15670	6.1	11.8	11.7		99	15	



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

ARMOUR AGRIC. CHEMICAL CO.	NUM	N	NASHVILLE APA	TENN POT	XS CL	RV	PHYS
6-12-12M	13767	5.9	12.5	11.4*		101	16
6-12-18S	13442	5.9	11.4*	16.9*	*	96*	13
6-12-18S	15788	5.9	12.1	16.5*	*	97*	13
6-12-18S	15520	6.4	12.0	17.8		102	14
6-12-18S	13173	6.1	11.9	17.0*		98	15
6-12-18S	13686	6.1	12.5	17.0*		100	15
6-12-18S	13747	6.0	11.9	17.0*		98	15
6-12-18S	14108	6.3	11.8	17.4*	*	100	15
6-12-18S	14542	6.5	12.3	17.7		103	15
6-12-18S	14667	6.3	11.8	17.5*		100	15
6-12-18S	14823	6.2	12.0	17.3*		100	15
6-12-18S	15025	6.0	12.0	17.8		99	15
6-12-18S	15479	6.1	11.3*	16.9*		96*	15
6-12-18S	15671	6.4	12.1	17.5*		101	15
6-12-18S	16048	6.2	11.3*	19.5		101	15
6-12-18S	16238	5.4*	10.9*	20.1		97*	15
6-12-18S	15113	6.4	12.4	17.7		103	17
6-18-12M	13447	6.4	16.1*	13.6		98	15
6-18-12M	14580	5.8	18.2	16.9		107	15
6-18-12M	14670	6.3	16.8*	13.6		100	15
7-14-21NIT	13171	7.7	19.6	14.7*		110	15
7-14-21NIT	13527	7.4	17.3	15.7*	*	103	15
7-14-21NIT	13750	6.5*	15.3	14.3*		92*	15
7-14-21NIT	15120	8.4	17.2	18.9*		112	15
8-32-16M	15417	8.6	32.5	17.0		104	16
10-10-10M	14090	9.8	9.6*	10.8		99	13
10-10-10M	13766	9.5*	10.8	11.6		103	14
10-10-10M	14996	10.0	10.1	10.5		101	14
10-10-10M	15415	9.5*	11.1	11.9		104	14
10-10-10M	13169	10.3	11.3	9.6*		105	15
10-10-10M	13182	8.3*	10.1	10.2		92*	15
10-10-10M	13189	10.0	9.9	9.9		99	15
10-10-10M	13445	10.4	10.3	11.1		105	15
10-10-10M	13446	9.5*	11.1	10.5		102	15
10-10-10M	13531	10.1	9.7	10.8		101	15
10-10-10M	13734	8.7*	11.5	11.3		100	15
10-10-10M	13743	10.5	10.5	10.1		104	15
10-10-10M	13745	9.8	10.2	10.8		101	15
10-10-10M	13783	9.7	9.8	11.1		99	15
10-10-10M	13805	9.4*	10.7	11.5		102	15
10-10-10M	14440	10.0	9.9	10.9		101	15
10-10-10M	14539	9.9	10.4	10.2		101	15
10-10-10M	14663	10.4	10.3	9.8		103	15
10-10-10M	14672	9.9	10.0	10.8		100	15
10-10-10M	15324	10.0	10.3	10.8		102	15
10-10-10M	15480	10.2	10.8	9.6*		103	15
10-10-10M	15522	9.8	10.2	10.3		100	15
10-10-10M	15589	9.4*	10.9	11.7		102	15
10-10-10M	15590	9.5*	11.2	11.1		103	15
10-10-10M	12997	9.6*	10.5	11.8		103	17
10-10-10M	13120	10.7	10.1	10.5		105	17
10-20-20M	15672	10.5	19.7	19.2*		100	15
12-24-24M	13516	11.9	24.9	25.1		102	15
13-0-44NIT	13564	13.3	0.0	43.8		101	15
15-15-15M	13687	14.6*	16.2	15.9		102	15
15-40-5M	13559	15.1	40.0	6.0		101	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

BALE FERTILIZER COMPANY		HORSE CAVE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-10-30M	14579	0.0	9.9	26.7*			93*	26
0-20- 0	14408	0.0	19.3*	0.0			97*	11
0-20-20M	16141	0.0	24.6	16.4*			109	26
4-12- 8M	13633	4.4	13.3	8.1			109	25
4-12- 8M	14566	5.0	14.2	8.1			117	26
5-10-15S	13634	3.3*	6.6*	16.3			79*	25
5-10-15S	14407	3.7*	6.4*	16.7			81*	25
5-21-21M	14405	5.1*	24.3	21.7			105	25
9-12-18S	14080	9.5	12.7	17.7			104	23
10-10-10M	14406	11.7	12.8	12.0			121	25
10-10-10M	13628	10.9	11.4	10.4			110	26
BALLARD COUNTY COOP		LA CENTER		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-48S	16230	0.0	0.0	47.8			100	14
0- 0-60M	16225	0.0	0.0	61.7			103	16
0-26-30M	16227	0.0	25.6	31.6			101	26
6- 0-48M	16224	6.8	0.0	47.8			103	26
6- 0-48M	16228	8.5	0.0	45.8*			108	26
6- 9-14S	15740	8.0	11.2	12.5*	*		112	26
6-24-24M	16226	6.1	21.4*	26.1			97*	16
18-10-12M	16229	18.8	11.7	11.9			106	26
BLUEGRASS PLANT FOODS, INC.		CYNTHIANA		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-20- 0	15364	0.0	19.5*	0.0			97*	11
3-12-12M	14300	3.5	11.4*	13.4			104	13
4- 4-12S	15173	4.4	4.2	13.1	*		101	13
4-16- 4M	14299	4.7	13.3*	6.5			98	11
4-16- 4S	14277	4.4	15.5*	4.5			101	11
4-16- 4S	14278	4.6	14.7*	5.0			100	11
4-16- 4S	14393	4.3	15.8	4.4			102	11
5-10-10M	14298	4.9	9.8	11.2			101	13
5-10-15S	14634	5.3	10.0	15.3			102	11
5-10-15S	16112	5.3	9.7*	15.6			102	11
5-10-15S	16114	5.1	9.3*	15.7			99	11
5-10-15S	16116	5.2	9.5*	15.6			100	11
5-10-15S	16117	5.2	9.5*	15.5			100	11
5-10-15S	16119	4.9	9.5*	15.1			98	11
5-10-15S	15170	5.4	9.7	16.3			104	13
5-10-15S	15175	5.5	10.0	16.1			105	13
5-10-15S W/ME	16115	5.1	9.4*	15.5			99	11
5-20-20M	15174	5.8	18.7*	18.7*			98	13
6- 6-18S	16109	6.4	6.2	17.3*			102	11
6- 6-18M W/ME	16118	6.0	5.9	18.0			100	11
6- 8- 6M	16113	6.2	8.1	7.5			105	11
6- 8- 6S	14302	6.5	8.1	7.4			108	13
6-11-12S	16110	6.8	11.1	14.0			100	11
6-12-12M	15168	6.1	11.4*	14.6			103	13
6-12-18S	15365	6.0	12.1	17.2*			99	15
8-10-15S W/ME	15169	8.6	9.4*	15.5			102	13
10- 6- 4M	14301	9.8	7.5	5.4			108	13
10- 6-10M	15176	9.7	5.7*	12.0			101	13
10- 8-12S	16108	10.3	8.1	12.4			100	11
10-10-10M	14392	9.6*	9.4*	11.2			98	11
10-10-10M	14297	10.4	10.2	10.3			103	13
14- 0-21M	15171	10.1*	0.0	28.4			90*	11
16- 0-30M	15172	11.0*	0.0	28.9*			77*	11



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

BLUEGRASS PLANT FOODS, INC.		DANVILLE		KY.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0- 0-50S	15578	0.0	0.0	51.6		103	11	
0-10-20M W/B	14428	0.0	9.8	19.4*		97*	11	
0-10-20M W/B	14755	0.0	9.4*	20.8		99	11	
0-10-20M W/B	15308	0.0	9.2*	20.5		97*	11	
0-10-30M W/B	14426	0.0	11.1	25.3*		95*	11	
0-20-20M	15853	0.0	20.0	20.0		100	11	
0-20-20M	14961	0.0	19.7	21.1		101	13	
3-12-12M	14424	3.5	11.5*	12.4		102	11	
3-12-12M	14700	3.8	11.4*	12.8		104	11	
3-12-12M	14962	3.4	11.6*	11.9		100	11	
3-12-12M	15306	3.8	11.3*	12.4		103	11	
4- 6-10S	16077	4.6	8.8	10.7		112	11	
4-12- 8M	13861	3.9	11.7	8.3		98	11	
4-12- 8M	14694	4.2	11.4*	8.9		101	11	
4-12- 8M	15855	4.6	11.7	9.5		106	11	
4-12- 8M	16069	4.8	11.2*	10.3		107	13	
4-12- 8M	15305	4.4	11.1*	9.9		103	15	
4-16- 4S	13855	3.9	15.2*	6.3	*	100	11	
4-16- 4S	14698	5.0	11.9*	10.7	*	103	11	
5-10-10M	14963	5.7	9.7	12.7		109	15	
5-10-15S	13296	4.7	9.8	15.2		98	11	
5-10-15S	13856	4.9	10.3	13.6*		98	11	
5-10-15S	13857	5.0	10.4	13.5*		99	11	
5-10-15S	14421	5.4	9.0*	15.8		100	11	
5-10-15S	14423	5.4	9.8	15.1		102	11	
5-10-15S	14693	5.4	10.7	12.8*		100	11	
5-10-15S	14753	5.5	10.3	13.6*		101	11	
5-10-15S	14770	5.4	9.5*	14.6		99	11	
5-10-15S	15571	5.3	9.9	15.2		102	11	
5-10-15S	15572	5.5	9.8	14.6		101	11	
5-10-15S	15619	5.2	9.8	15.1		101	11	
5-10-15S	15852	5.5	9.4*	15.7		102	11	
5-10-15S	16070	5.7	9.1*	14.9		100	11	
5-10-15S W/ME	14699	5.7	9.8	14.8	*	103	11	
5-20-20M	14769	5.8	19.8	21.6		105	11	
5-20-20M	15620	5.2	18.1*	20.2		96*	11	
5-20-20M	15854	5.6	20.0	20.7		103	11	
5-20-20M	13860	5.6	19.7	22.0		104	13	
5-20-20M	14692	5.9	20.9	20.6		107	13	
5-20-20M	14754	6.1	19.9	21.2		106	13	
6- 6-18M	14425	6.3	6.1	18.1		102	11	
6- 6-18S	13858	5.9	7.2	15.5*		99	11	
6- 6-18S	14420	6.3	6.3	18.0		103	11	
6- 6-18S	14697	6.3	5.7*	18.3		101	11	
6- 6-18S	14752	6.2	6.9	18.1	*	105	11	
6- 6-18S	16074	6.0	6.6	18.1		103	11	
6- 8- 6M	15621	6.1	7.7	6.8		101	11	
6- 8- 6S	14422	6.1	7.2*	6.8		99	11	
6- 8- 6S	14696	6.2	7.3*	7.1		100	11	
6- 8- 6S	16073	6.1	7.9	11.5		114	11	
6-12-12M	13859	7.5	11.9	11.8		107	13	
6-12-12M	14427	8.0	11.3*	13.2		111	13	
6-12-12M	15240	7.8	10.9*	13.7		109	13	
6-12-18M	13862	5.6*	12.1	17.8		98	13	
6-12-18S	14768	6.0	11.6*	18.5		99	11	
6-12-18S W/ME	16072	6.1	12.0	18.4		101	11	
8- 0-24S	14419	13.3	0.0	12.1*		108	12	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

BLUEGRASS PLANT FOODS, INC.		DANVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
8-10-15S W/ME	15242	8.1	9.7	15.2		100	11	
8-10-15S W/ME	16071	7.7	9.7	15.4		98	11	
10-10-10M	14695	11.0	9.7*	10.4		104	11	
10-10-10M	14767	10.9	9.4*	11.1		104	11	
10-10-10M	15307	9.9	9.9	10.8		100	11	
10-10-10M	13297	10.6	9.7*	10.9		103	13	
10-10-10M	13854	10.6	9.5*	10.7		102	13	
10-10-10M	14964	10.4	9.7	11.9		104	13	
12-12-12M	14965	11.0*	11.6*	13.6		97*	13	
12-12-12M	15241	11.0*	11.6*	14.2		98	13	
16- 8- 8M	14701	16.3	8.1	8.6		102	24	
BUNTON SEED COMPANY		LOUISVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
6-12- 6M	15866	6.8	12.8	7.1		110	11	
BURLEY BELT FERTILIZER CO.		LEXINGTON		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-47S W/ME	15180	0.0	0.0	47.2		99	13	
0- 0-57M W/B	13853	0.0	0.0	57.8		100	23	
0- 0-58M W/B	13627	0.0	0.0	58.8		100	25	
0-20- 0	13020	0.0	20.0	0.0		100	11	
0-20-20M	14008	0.0	20.1	21.0		102	21	
0-20-20M	14012	0.0	20.3	20.8		102	21	
0-20-20M	15390	0.0	19.9	19.5*		99	21	
0-20-20M	14064	0.0	19.5*	20.7		99	25	
0-30-30M	13614	0.0	30.5	28.9*		100	25	
3- 9- 6M	14014	3.4	9.1	8.2		111	11	
3- 9- 6M	14966	3.7	9.1	8.3		114	11	
3- 9- 6S	13789	3.5	8.9	8.0		109	11	
3- 9- 6S	14005	3.3	8.5*	7.0		102	11	
3- 9- 6S	14011	2.9	8.8	8.1		104	11	
3- 9- 6S	15389	3.7	9.0	8.2		114	11	
3- 9-18M W/B	15849	3.9	7.2*	20.8		104	11	
4-12- 8M	14017	4.1	11.1*	8.9		98	11	
4-12- 8M	14967	4.4	10.5*	8.1		96*	11	
4-12- 8M	14968	4.3	11.0*	8.6		99	11	
4-12- 8M	15617	5.0	11.1*	10.4		108	11	
4-12- 8M	14381	4.4	11.8	9.2		104	13	
4-16- 4S	13016	4.4	15.4*	4.8		101	11	
4-16- 4S	14009	4.0	16.2	4.3		101	11	
4-16- 4S	14276	4.5	15.2*	6.1		104	11	
5- 5-12S	15182	5.1	5.3	13.9		108	13	
5-10-10M	14015	5.1	9.9	10.7		102	11	
5-10-10M	14827	5.5	9.6*	11.6		105	11	
5-10-10M	14969	5.0	10.1	10.7		102	11	
5-10-10M	15392	5.4	9.7	10.7		103	11	
5-10-10M	15970	5.1	9.9	10.0		100	11	
5-10-10M	14623	5.2	9.7*	11.1		103	13	
5-10-10M	15966	5.8	10.9	11.7		113	13	
5-10-10M	13623	4.9	9.4*	11.8		101	25	
5-10-10M	14070	5.3	9.9	10.6		103	25	
5-10-15S	13019	5.0	10.6	15.7		104	11	
5-10-15S	13784	5.0	10.1	14.9		100	11	
5-10-15S	13785	4.8	10.1	15.1		99	11	
5-10-15S	14004	5.0	9.9	15.2		100	11	
5-10-15S	14006	4.9	10.5	15.0		101	11	
5-10-15S	14010	4.9	9.9	15.2		99	11	
5-10-15S	14013	5.2	10.3	15.2		103	11	



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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	PDT	XS CL	RV	PHYS
5-10-15S	14970	5.2	9.8	15.2		101	11
5-10-15S	15177	5.2	10.4	15.7		104	11
5-10-15S	15273	5.2	10.5	14.6*		102	11
5-10-15S	14120	5.0	10.2	15.4		102	13
5-10-15S	14126	5.0	10.2	15.2		101	13
5-10-15S	14377	5.1	10.1	15.3		101	13
5-10-15S	14379	5.2	10.5	14.9		103	13
5-10-15S	15183	5.3	9.9	15.3		102	13
5-10-15S	15186	5.2	10.0	15.7		102	13
5-10-15S	14941	5.2	10.1	15.6		103	15
5-20-20M	13626	4.6*	19.7	20.8		99	11
5-20-20M	14018	4.9	19.5*	20.8		99	11
5-20-20M	14828	5.1	19.7	21.0		101	11
5-20-20M	15272	5.4	20.3	20.2		103	11
5-20-20M	15388	5.0	19.8	20.8		100	11
5-20-20M	14385	5.1	19.5*	21.9		101	13
5-20-20M	15967	5.1	18.6*	20.8		98	23
5-20-20M	15971	5.0	19.1*	20.4		98	23
5-20-20M	15713	7.1	20.9	20.8		112	25
6- 6-18M	15493	6.4	6.4	18.2		105	11
6- 6-18M	14275	6.4	6.7	18.3		106	25
6- 6-18S	13021	5.8	6.4	18.2		100	11
6- 6-18S	14274	6.0	6.3	18.6		103	11
6- 6-18S	15254	6.0	6.1	18.9		103	11
6- 6-18S	14121	5.8	6.2	18.6		101	13
6- 6-18S	15178	6.0	6.2	18.1		101	13
6- 6-18S	15463	6.0	6.1	18.3		101	13
6- 8- 6M	14383	6.4	8.5	6.6		106	13
6- 8- 6S	14007	6.1	8.7	6.0		104	11
6- 8- 6S	15618	6.3	8.7	6.6		107	11
6- 8- 6S	15972	6.3	8.0	6.4		104	11
6- 8- 6S	13790	6.2	8.4	6.0		103	13
6- 8- 6S	15181	6.3	8.3	6.6		105	13
6-12-12M	13613	6.0	11.7	13.0		101	11
6-12-12M	13625	5.9	11.6*	13.3		101	11
6-12-12M	14019	5.9	12.0	12.7		101	11
6-12-12M	14829	6.1	11.9	12.5		101	11
6-12-12M	15391	6.1	11.9	11.9		100	11
6-12-12M	15968	6.1	11.3*	13.1		100	11
6-12-12M	14624	6.3	11.3*	13.4		101	13
6-12-18S	14380	6.1	13.5	17.4*		104	13
6-12-18S	14942	5.5*	10.8*	19.5		96*	13
6-12-18S	13788	5.8	12.1	17.0*		98	15
6-12-18S W/ME	15083	6.5	12.4	17.7		103	15
8- 6-18M W/ME	15253	7.9	6.1	17.7		99	11
8-10-15S	13017	8.2	10.3	14.9		102	11
8-10-15S	13786	7.8	9.9	15.6		100	11
8-10-15S	15393	8.1	9.8	16.0		101	11
8-10-15S	14122	7.7*	10.0	15.5		99	13
8-10-15S	14376	7.9	10.2	15.7		101	13
8-10-15S	14378	8.5	10.1	15.1		103	13
8-10-15S	15179	8.2	10.2	15.4		102	13
8-10-18S	14943	7.8	9.9	19.3		101	13
8-10-18S W/ME	15545	8.1	9.2*	19.5		101	11
10-10-10M	13018	9.9	9.9	10.4		100	11
10-10-10M	13624	9.9	10.2	10.7		101	11
10-10-10M	13787	9.7	10.5	10.2		101	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

BURLEY BELT FERTILIZER CO.		LEXINGTON		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
10-10-10M	13813	9.6*	10.2	10.5			99	11
10-10-10M	13816	9.7	10.2	10.3			100	11
10-10-10M	14016	9.9	10.2	10.2			100	11
10-10-10M	14971	7.0*	9.6*	13.7			90*	11
10-10-10M	14117	9.3*	11.0	10.1			99	13
10-10-10M	14382	10.2	9.8	10.4			101	13
10-10-10M	15184	10.7	9.9	10.5			104	13
10-10-10M	15185	9.9	10.1	10.5			101	13
10-10-10M	15492	10.1	10.3	10.4			102	13
10-10-10M	14071	9.8	11.1	9.7			102	25
10-10-20S	15847	10.4	12.6	17.6*			106	11
10-10-20S	14123	9.9	10.8	19.2*			101	13
12-12-12M	13791	12.1	11.7	11.6*			99	13
12-12-12M	14384	12.9	12.3	11.6*			104	13
12-12-12M	14625	12.3	12.6	12.1			103	13
12-12-12M	14020	11.2*	11.4*	12.8			96*	23
12-12-12M	14830	12.0	12.0	13.0			101	23
12-12-12M	15969	10.7*	10.3*	14.2			93*	25
12-12-12M	15973	14.1	14.0	8.7*			109	25
20- 0-10M	13815	20.1	0.0	10.7			101	25
20-10-10M	15712	19.6	9.1*	12.4			99	25
20-10-10M	15848	21.1	11.2	9.5*			106	25
20-20- 5M	14003	21.0	23.3	6.0			110	25
CARLISLE FERTILIZER COMPANY		BARDWELL		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-60M	15318	0.0	0.0	60.4			101	16
0-46- 0	15319	0.0	45.2*	0.0			98	16
2- 6-48M	16219	1.6*	9.4	47.8			108	26
7-21-28M	16220	2.8*	25.2	26.1*			93*	26
18-46- 0	15320	18.3	46.7	0.0			102	16
33- 0- 0	15321	34.2	0.0	0.0			104	16
CECIL FARM SUPPLY		STANLEY		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-50S	15597	0.0	0.0	51.3			103	15
0-46- 0	15598	0.0	46.1	0.0			100	15
5-20- 0	15596	5.7	19.8	0.0			103	15
5-20-20M	15890	5.6	21.5	18.7*			105	25
5-20-20M	15892	5.9	21.8	18.6*			107	25
5-20-30M	15894	5.2	20.6	30.1			102	25
6-12-18S	15891	6.9	13.9	15.7*			107	25
6-12-18S	15895	6.9	12.0	17.8			104	25
6-24-24M	15893	6.1	25.8	22.3*			103	25
6-26-26M	15889	6.0	27.8	24.2*			102	25
6-26-26M	15896	6.0	26.8	26.1			102	25
18-46- 0	15595	18.2	46.2	0.0			101	15
CENTRAL FARMERS FERT. COMPANY		CHICAGO		ILL.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-60M	13388	0.0	0.0	60.4			101	15
0- 0-60M	14335	0.0	0.0	60.6			101	15
0- 0-60M	13477	0.0	0.0	60.2			100	17
0-46- 0	13835	0.0	47.5	0.0			103	16
0-46- 0	12999	0.0	44.4*	0.0			96*	17
0-46- 0	13387	0.0	45.6	0.0			99	17
0-46- 0	13476	0.0	44.2*	0.0			96*	17
0-46- 0	13850	0.0	45.2*	0.0			98	17



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

CHEVRON CHEMICAL CO-ORTHO DIV		RICHMOND		CAL.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
33- 0- 0	13298	34.3	0.0	0.0		102	17	
33- 0- 0	13612	33.9	0.0	0.0		101	17	
CHILEAN NITRATE SALES CORP.		NEW YORK		N.Y.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
16- 0- 0	15953	15.7	0.0	0.0		98	17	
CLINE FERTILIZER COMPANY		EWING		VA.2				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0-20-20M	14850	0.0	20.3	19.7		100	25	
3- 9- 6M	14847	3.3	8.9	5.7		102	25	
3- 9- 6M	15949	4.0	10.5	6.6		120	25	
5-10- 5M	14841	5.2	9.9	4.8		100	25	
5-10- 5M	14848	5.2	9.7	4.7*		100	25	
5-10- 5M	15950	6.0	11.7	5.0		116	25	
5-10-10M	14842	5.5	10.1	8.9*		101	25	
5-10-10M	14849	5.9	10.8	11.5		112	25	
5-10-10M	15951	5.3	10.3	10.2		104	25	
5-10-15S	14851	5.2	10.1	17.4		106	25	
6-12-12M	14852	6.5	12.2	12.4		104	25	
10-10-10M	14843	10.4	10.5	10.7		105	25	
10-10-10M	14853	9.9	9.7*	12.0		101	25	
10-20-20M	14844	11.4	22.2	17.2*		106	25	
12-12-12M	14854	12.2	12.4	12.2		102	25	
COASTAL CHEMICAL CORP.		YAZOO CITY		MISS				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
18-46- 0	13450	18.2	46.2	0.0		101	17	
COMMERCIAL SOLVENTS CORP.		NEW YORK		N.Y.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
33- 0- 0	12975	34.0	0.0	0.0		101	15	
33- 0- 0	15471	35.0	0.0	0.0		104	17	
COMMONWEALTH FERTILIZER CO.		CAMPBELLSVILLE KY.						
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
5- 8-10S	14739	5.9	9.8	11.6		116	24	
6-18-12M	14742	6.4	18.8	11.6*		104	26	
6-24-24M	13073	5.6*	23.9	27.9		103	25	
9- 8-14M	14744	9.0	8.3	14.9		102	23	
10-10-10M	14741	9.8	9.9	10.0		99	26	
11- 6- 4S	14738	10.8*	6.5	4.6		98	26	
COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE KY.						
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0- 0-50S	16186	0.0	0.0	45.8*		92*	15	
0- 9-29M W/B	16146	0.0	11.3	25.6*		99	11	
0-10-30M	13779	0.0	9.4*	33.3		104	21	
0-20- 0	13778	0.0	19.8	0.0		99	11	
0-20- 0	14099	0.0	20.0	0.0		100	11	
0-20-20M	14096	0.0	20.5	20.1		102	13	
0-20-20M	15526	0.0	20.4	22.2		105	14	
0-20-20M	13892	0.0	16.8*	24.5		97*	23	
0-20-20M	13777	0.0	19.0*	22.6		101	24	
0-30-20M	16154	0.0	27.7*	22.8		98	13	
0-30-20M	15404	0.0	29.3*	22.1		101	15	
4-12- 8M	13075	5.0	12.5	8.9		111	13	
4-12- 8M	14095	4.9	13.3	8.5		113	13	
4-12- 8M	14743	5.6	12.4	9.2		115	13	
4-12- 8M	13177	5.1	12.6	9.0		112	15	
4-12- 8M	15225	5.4	12.0	9.2		112	15	
4-16- 4S	13893	4.9	16.8	5.1	*	111	11	
4-16- 4S	14204	4.9	17.1	4.5		111	11	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE KY.			XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-10-15S	16149	5.2	10.4	15.4		104	11	
5-10-15S	13076	5.6	10.1	15.1		104	13	
5-10-15S	14418	5.4	10.1	15.8		104	13	
5-10-15S	15226	5.9	9.9	15.2		105	15	
5-10-15S	16328	5.3	11.1	16.6	*	109	15	
5-20-20M	15528	5.2	18.6*	21.4		99	13	
5-20-20M	14571	5.2	19.0*	21.8		101	14	
5-20-20M	13774	5.4	18.8*	19.3*		98	15	
5-20-20M	16184	5.2	20.9	22.0		106	15	
5-20-20M	16326	5.7	19.1*	21.3		102	15	
5-20-20M	16148	5.8	23.2	18.1*		109	23	
6- 9-14S	16150	6.7	10.0	15.1		105	11	
6-12-12M	13773	6.7	12.6	11.2*		105	13	
6-12-12M	14098	6.6	13.2	10.6*		105	13	
6-12-12M	16147	5.8	14.2	13.5		110	13	
6-12-12M	13178	5.9	13.0	11.6*		102	15	
6-18-12M	13074	6.2	18.0	12.0		101	13	
6-18-12M	14097	6.3	16.8*	12.0		98	13	
6-18-12M	14582	7.1	15.5*	12.4		98	13	
6-18-12M	15403	6.5	17.7	12.7		102	15	
6-18-12M	13775	5.9	18.4	13.0		102	16	
6-18-12M W/ME	15529	6.1	19.9	12.7		107	13	
7-14- 7M	14100	7.1	10.9*	7.4		90*	19	
7-14- 7M	15539	8.5	10.5*	7.3		96*	19	
7-14- 7M	16164	7.4	12.9*	7.2		99	19	
8-12-15S	14417	7.8	13.2	15.4		103	15	
8-12-15S	15117	7.6*	12.6	16.5		102	16	
8-12-15M W/ME	14740	7.7*	12.5	15.3		101	15	
8-12-15S W/ME	14094	7.6*	13.4	15.1		103	15	
8-12-15S W/ME	14572	7.7*	13.6	15.4		104	16	
8-24- 8M	14583	8.2	21.8*	8.9		96*	13	
8-24- 8S	15762	7.7*	22.9*	10.4		99	15	
8-24- 8S W/ME	15402	7.6*	23.7	8.4		98	15	
8-24- 8S W/ME	15527	7.9	23.3*	8.2	*	98	15	
10-10-10M	13526	9.9	9.6*	12.3		102	14	
10-10-10M	13780	9.6*	10.8	9.4*		100	14	
10-10-10M	13894	9.8	8.5*	15.1		102	15	
10-10-10M	15196	10.6	10.0	10.9		105	15	
10-10-10M	15227	10.6	10.0	10.0		103	15	
10-10-10M	16185	9.7	9.9	11.4		101	15	
10-10-10M	16327	9.4*	10.1	12.0		101	15	
10-10-10M	13776	9.8	10.7	10.2		101	16	
13-34-15M	15118	13.3	33.4*	15.6		100	14	
CONSUMERS COOP ASSN-P R SMART		KANSAS CITY			MO.			
GRADE	NUM	N	APA	POT	XS	CL	RV	PHYS
10-10-10M	15781	11.4	11.5	11.9			115	17
COOPERATIVE FERTILIZER SERVICE		BALTIMORE			MD.			
GRADE	NUM	N	APA	POT	XS	CL	RV	PHYS
10- 5- 5M	15561	10.3	5.3	5.7			105	13
10-10-10M	14077	9.9	10.9	11.6			105	15
COOPERATIVE FERTILIZER SERVICE		BRISTOL			VA.			
GRADE	NUM	N	APA	POT	XS	CL	RV	PHYS
10-20-20M	15952	10.5	19.8	20.1			101	23
COOPERATIVE FERTILIZER SERVICE		LOUISVILLE			KY.			
GRADE	NUM	N	APA	POT	XS	CL	RV	PHYS
0-15-30M	13931	0.0	15.1	29.9			100	13
0-15-30M W/B	13295	0.0	15.3	30.6			102	11



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

COOPERATIVE FERTILIZER SERVICE		LOUISVILLE		KY.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0-15-30M W/B	13607	0.0	14.9	30.4		100	11	
0-15-30M W/B	15277	0.0	15.4	29.2*		100	11	
0-15-30M W/B	13844	0.0	16.1	29.8		103	23	
0-20- 0	13846	0.0	20.7	0.0		104	11	
0-20- 0	14445	0.0	20.0	0.0		100	11	
0-20- 0	14802	0.0	19.9	0.0		100	11	
0-20- 0	14857	0.0	20.4	0.0		102	11	
0-20- 0	14878	0.0	20.1	0.0		100	11	
0-20-20M	13027	0.0	20.2	21.0		102	11	
0-20-20M	13696	0.0	20.7	21.2		104	11	
0-20-20M	14456	0.0	20.0	20.9		102	11	
0-20-20M	15222	0.0	19.6	21.0		100	11	
0-20-20M	15824	0.0	19.6	20.6		100	11	
0-20-20M	13487	0.0	20.7	21.0		104	21	
0-20-20M	14532	0.0	19.9	21.1		102	21	
3-12-12M	13293	3.7	11.5*	16.1		112	11	
3-12-12M	13483	3.0	12.1	14.0		105	11	
3-12-12M	13697	3.2	13.6	12.8		111	11	
4-12- 8M	13304	4.1	11.5*	8.1		98	11	
4-12- 8M	13485	4.1	12.2	9.6		105	11	
4-12- 8M	13991	4.1	12.7	8.9		106	11	
4-12- 8M	15258	4.8	12.4	10.4		112	11	
4-12- 8M	16126	4.1	11.9	9.0		103	11	
4-16- 4S	12967	4.0	16.8	4.9		105	11	
4-16- 4S	13038	4.1	16.4	4.5		104	11	
4-16- 4S	13045	4.2	16.7	4.5		105	11	
4-16- 4S	13061	4.0	16.7	5.0		105	11	
4-16- 4S	13098	3.9	16.1	5.3		103	11	
4-16- 4S	13137	4.0	16.1	4.5		102	11	
4-16- 4S	13211	3.9	16.6	4.8		103	11	
4-16- 4S	13254	4.4	15.8	4.0		102	11	
4-16- 4S	13288	3.9	16.6	4.8		104	11	
4-16- 4S	13376	4.1	16.7	4.6		105	11	
4-16- 4S	13379	3.9	16.6	4.6		103	11	
4-16- 4S	13482	4.0	16.3	5.1		104	11	
4-16- 4S	13565	4.2	16.5	5.2		105	11	
4-16- 4S	13619	4.2	15.4*	4.9		101	11	
4-16- 4S	13692	4.1	15.8	5.0		102	11	
4-16- 4S	13807	4.0	15.6	4.3		99	11	
4-16- 4S	13836	3.9	16.7	4.6		104	11	
4-16- 4S	13837	3.7*	15.7	4.9		99	11	
4-16- 4S	13845	3.9	15.5*	4.6		99	11	
4-16- 4S	14178	4.2	15.7	4.7		101	11	
4-16- 4S	14258	4.1	16.0	5.2		103	11	
4-16- 4S	14268	4.6	16.0	4.8		105	11	
4-16- 4S	14269	4.4	16.6	4.5		106	11	
5-10-15S	13026	5.0	10.4	15.4		102	11	
5-10-15S	13191	5.1	10.1	15.7		102	11	
5-10-15S	13303	4.9	10.7	15.3		103	11	
5-10-15S	13377	5.2	10.6	15.0		103	11	
5-10-15S	13430	5.1	10.1	15.8		102	11	
5-10-15S	13484	5.1	10.2	16.6		104	11	
5-10-15S	13810	5.0	9.8	15.7		101	11	
5-10-15S	13948	5.1	10.0	15.7		102	11	
5-10-15S	13987	5.1	10.0	16.0		103	11	
5-10-15S	14316	5.3	10.1	15.7		104	11	
5-10-15S	14443	5.4	10.3	15.5		104	11	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

COOPERATIVE FERTILIZER SERVICE	LOUISVILLE	KY.					
GRADE	NUM	N	APA	PDT	XS CL	RV	PHYS
5-10-15S	14455	5.3	10.4	15.4		104	11
5-10-15S	14536	5.4	10.8	14.9		106	11
5-10-15S	15257	5.3	10.7	15.4		106	11
5-10-15S	13932	5.2	10.5	15.4		104	13
5-10-20S	13289	5.0	10.6	20.4		103	11
5-10-20S	13294	5.1	10.8	19.9		103	11
5-10-20S	14457	5.1	10.4	21.3		104	11
5-10-20S	13927	5.0	10.5	20.3		102	13
5-20-20M	13028	5.4	19.8	20.2		101	11
5-20-20M	13306	4.9	19.6	20.7		99	11
5-20-20M	13429	4.2*	19.4*	22.7		99	11
5-20-20M	13606	5.1	20.3	20.5		102	11
5-20-20M	13986	4.8	20.1	21.2		101	11
5-20-20M	14444	5.4	19.8	20.8		102	11
5-20-20M	14531	5.3	20.0	20.7		102	11
5-20-20M	15219	5.3	19.6	20.7		101	11
5-20-20M	15279	5.0	20.5	20.1		102	11
5-20-20M	15562	5.4	19.4*	21.3		102	11
6- 6-18S	15856	6.3	5.8	18.8		103	11
6- 6-18S	15928	6.1	6.7	17.9		104	11
6- 8- 6S	14314	6.6	9.0	6.4		111	11
6- 8- 6S	14856	6.4	8.5	6.1		106	11
6-12-12M	13378	5.9	12.8	12.7		104	11
6-12-12M	13488	6.0	12.6	13.3		105	11
6-12-12M	13989	5.9	12.2	12.5		101	11
6-12-12M	13992	6.3	11.9	13.2		104	11
6-12-12M	14530	6.3	11.9	12.7		103	11
6-12-12M	14879	6.4	12.2	13.2		105	11
6-12-12M	15220	6.3	11.8	12.6		102	11
6-12-12M	15816	6.6	11.8	12.3		103	11
6-12-12M	13806	5.9	12.2	13.2		103	13
8-10-15S	13192	8.1	10.4	15.5		103	11
8-10-15S	13386	8.0	10.5	15.5		102	11
8-10-15S	13601	7.9	10.8	15.7		103	11
8-10-15S	14389	8.1	10.6	15.8		104	11
8-10-15S	14454	8.7	10.2	15.5		105	11
8-10-15S	14458	8.3	10.5	15.8		104	11
8-10-15S	14868	8.1	10.9	14.5*		102	11
8-10-15S	14874	8.3	10.6	14.9		104	11
8-10-15S	15221	8.1	10.5	15.7		103	11
8-10-15S	15278	8.1	10.5	15.8		104	11
8-10-15S	15563	8.3	10.6	16.0		105	11
8-10-15S	15929	8.0	10.7	15.3		103	11
8-10-15S	13808	7.9	10.3	15.7		102	15
10-10-10M	13029	10.0	10.6	10.8		103	11
10-10-10M	13305	10.1	10.3	10.8		103	11
10-10-10M	13375	10.0	10.7	10.7		103	11
10-10-10M	13486	9.9	10.4	11.3		103	11
10-10-10M	13695	10.1	10.6	10.2		103	11
10-10-10M	13809	10.1	10.5	10.1		102	11
10-10-10M	13838	9.4*	10.6	11.2		101	11
10-10-10M	14465	10.4	10.5	10.7		105	11
10-10-10M	14529	10.1	10.5	11.1		104	11
10-10-10M	15271	10.1	10.8	10.5		104	11
12-12-12M	13929	11.9	12.0	12.5		100	15
30- 0- 0	14337	31.0	0.0	0.0		103	19



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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

COOPERATIVE FERT. SERV., INC.		RICHMOND		VA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
30- 0- 0	15606	31.4	0.0	0.0			104	19
COOPERATIVE FERTILIZER SERVICE		RUSSELLVILLE KY.				XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-50S	15454	0.0	0.0	51.6			103	15
0- 0-50S	15124	0.0	0.0	50.2			100	18
0- 0-60M	15455	0.0	0.0	61.3			102	15
0- 0-60M	15592	0.0	0.0	60.4			101	15
0- 0-60M	15128	0.0	0.0	60.1			100	16
0-15-30M W/B	14171	0.0	14.2*	31.9			100	11
0-15-30M W/B	14435	0.0	17.6	24.5*			99	11
0-15-30M W/B	13262	0.0	14.8	30.4			100	21
0-15-30M W/B	13525	0.0	13.9*	32.6			101	21
0-15-30M W/B	14103	0.0	14.1*	33.0			102	21
0-15-30M W/B	14104	0.0	14.5*	32.9			103	21
0-15-30M W/B	13062	0.0	13.9*	31.4			99	23
0-20- 0	14665	0.0	20.1	0.0			100	11
0-20-20M	14166	0.0	20.0	21.9			103	21
0-46- 0	15457	0.0	44.6*	0.0			97*	15
0-46- 0	15593	0.0	46.6	0.0			101	15
0-46- 0	15127	0.0	47.1	0.0			103	16
0-46- 0	13217	0.0	45.4	0.0			99	17
4-12- 8M	12968	4.2	12.7	9.8			108	15
4-12- 8M	13138	4.0	12.2	8.9			102	15
4-12- 8M	13145	4.2	11.9	8.8			103	15
4-12- 8M	13175	4.1	12.6	10.4			109	15
4-12- 8M	13290	4.2	12.0	9.3			104	15
4-12- 8M	13667	3.9	11.9	8.9			101	15
4-12- 8M	13847	3.9	12.4	9.5			104	15
4-12- 8M	14641	4.6	11.9	9.1			106	15
4-12- 8M	15753	4.2	12.1	9.1			104	15
4-12- 8M	15911	4.9	11.7	8.7			107	15
4-12- 8M	15111	4.3	11.1*	9.3			101	16
4-16- 4S	13251	4.1	16.0	4.3			101	11
5-10-15S	14638	5.3	10.7	14.9			104	11
5-10-15S	13832	5.2	10.0	15.2			102	13
5-10-15S	13046	5.2	10.3	15.5			103	15
5-10-15S	13117	5.2	10.1	15.5			103	15
5-10-15S	13146	5.9	9.6*	15.2			105	15
5-10-15S	13212	5.0	10.4	15.1			102	15
5-10-15S	13264	5.1	10.1	15.2			101	15
5-10-15S	13287	5.2	10.1	15.2			102	15
5-10-15S	13722	5.4	10.0	15.4			103	15
5-10-15S	13954	5.4	10.1	15.9			104	15
5-10-15S	14169	5.0	10.3	15.2			101	15
5-10-15S	14676	5.0	10.3	14.6*			100	15
5-10-15S	14804	5.4	10.0	15.8			104	15
5-10-15S	14818	5.2	9.8	15.9			102	15
5-10-15S	15405	5.1	10.1	15.6			102	15
5-10-15S	15605	5.6	9.9	14.9			103	15
5-10-15S	13548	5.6	9.8	15.5			104	16
5-10-15S	13839	4.9	9.9	16.0			101	16
5-10-15S	15110	5.5	9.8	14.9			102	16
5-10-15S	15126	5.2	10.2	14.9			101	16
5-15- 5M	13213	4.6*	15.9	5.4			102	15
5-15- 5M	13663	4.9	15.7	6.4			105	15
5-15- 5M	15823	4.8	15.2	6.3			102	15
5-20-20M	12969	5.5	19.7	21.2			103	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

COOPERATIVE FERTILIZER SERVICE		RUSSELLVILLE KY.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-20-20M	13039	5.0	18.9*	22.0		100	15
5-20-20M	13214	5.3	19.4*	20.9		101	15
5-20-20M	13230	5.1	19.8	20.8		101	15
5-20-20M	13292	5.0	19.9	20.7		100	15
5-20-20M	13566	5.0	19.7	21.7		101	15
5-20-20M	13636	5.2	19.8	20.1		101	15
5-20-20M	13664	4.9	19.8	20.7		100	15
5-20-20M	13822	5.0	19.7	19.5*		99	15
5-20-20M	13848	6.0	19.9	19.2*		103	15
5-20-20M	14170	5.3	20.4	19.0*		101	15
5-20-20M	14175	4.8	20.1	20.4		100	15
5-20-20M	14446	5.0	19.7	20.2		100	15
5-20-20M	14642	5.2	19.6	20.5		100	15
5-20-20M	14675	5.1	20.0	20.8		101	15
5-20-20M	14679	5.8	19.0*	20.6		101	15
5-20-20M	14776	5.6	20.0	19.9		102	15
5-20-20M	14805	5.3	20.6	20.0		103	15
5-20-20M	15594	4.8	21.1	19.4*		101	15
5-20-20M	15604	5.3	19.4*	20.1		100	15
5-20-20M	15754	5.3	19.6*	19.6		100	15
5-20-20M	13231	5.0	19.2*	21.0		99	16
5-20-20M	13549	5.3	18.3*	21.6		99	16
6-12-12M	13118	5.9	11.8	13.4		101	15
6-12-12M	13139	6.2	11.9	12.8		102	15
6-12-12M	13215	6.3	12.2	12.2		103	15
6-12-12M	13291	6.0	12.2	13.4		104	15
6-12-12M	13637	6.1	12.2	12.1		102	15
6-12-12M	13666	5.8	12.3	12.4		101	15
6-12-12M	13849	6.3	12.1	12.8		104	15
6-12-12M	13928	6.1	12.1	13.1		103	15
6-12-12M	14167	6.0	12.2	12.7		102	15
6-12-12M	14176	6.2	12.0	12.8		102	15
6-12-12M	14447	5.9	12.1	13.0		102	15
6-12-12M	14677	6.1	11.9	12.8		101	15
6-12-12M	14803	6.0	12.6	12.1		102	15
6-12-12M	14819	6.3	12.2	12.8		104	15
6-12-12M	14907	6.2	11.6*	14.7		105	15
10-10-10M	13048	9.9	9.9	10.4		100	15
10-10-10M	13160	9.8	10.3	10.6		101	15
10-10-10M	13255	10.5	10.0	10.9		104	15
10-10-10M	13263	9.6*	10.5	11.2		101	15
10-10-10M	13286	10.1	10.2	11.4		103	15
10-10-10M	13547	10.1	10.2	11.0		103	15
10-10-10M	13665	9.4*	10.3	10.7		99	15
10-10-10M	13798	9.9	10.4	11.1		102	15
10-10-10M	13823	10.4	9.7	11.4		103	15
10-10-10M	14168	10.2	10.0	11.1		103	15
10-10-10M	14177	10.1	10.2	10.3		102	15
10-10-10M	14270	10.4	10.3	10.9		105	15
10-10-10M	14498	10.8	9.8	11.3		105	15
10-10-10M	14639	10.2	10.2	10.5		102	15
10-10-10M	14678	10.4	10.1	10.8		104	15
10-10-10M	14772	9.9	10.0	11.1		101	15
10-10-10M	14801	10.5	9.9	10.2		102	15
10-10-10M	15494	10.0	10.2	11.0		102	15
10-10-10M	15112	9.7	10.6	10.7		102	16
10-10-10M	15125	10.0	10.4	10.2		102	16



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

COOPERATIVE FERTILIZER SERVICE			RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
12-12-12M	13047	11.4*	12.0	12.5		98	15
12-12-12M	13049	12.1	12.0	13.0		102	15
12-12-12M	13162	12.2	11.7	12.4		101	15
12-12-12M	13216	11.6*	11.9	13.3		100	15
12-12-12M	13620	11.3*	13.0	12.0		100	15
12-12-12M	13833	11.7	11.7	13.1		100	15
12-12-12M	13953	11.9	12.2	12.4		101	15
12-12-12M	14181	11.7	12.3	12.6		100	15
12-12-12M	14386	12.2	12.0	12.4		101	15
12-12-12M	14640	12.7	11.7	12.7		103	15
12-12-12M	14773	12.1	12.2	11.9		101	15
12-12-12M	14906	12.0	11.8	12.5		100	15
12-12-12M	15811	12.0	12.5	12.5		102	15
12-12-12M	15815	12.5	11.8	12.7		103	15
12-12-12M	13694	11.9	11.9	13.0		101	16
12-12-12M	13840	11.7	12.3	11.8		99	16
30- 0- 0	12970	30.5	0.0	0.0		102	19
30- 0- 0	12971	30.2	0.0	0.0		100	19
30- 0- 0	12976	30.2	0.0	0.0		101	19
30- 0- 0	12977	30.1	0.0	0.0		100	19
33- 0- 0	15456	34.4	0.0	0.0		103	15
COOPERATIVE FERTILIZER SERVICE			WINCHESTER KY.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0- 0-50S	14505	0.0	0.0	48.9*		98	15
0- 0-50S	13190	0.0	0.0	50.7		101	17
0-15-30M W/B	14509	0.0	15.6	29.9		102	11
0-15-30M W/B	14775	0.0	15.2	30.1		101	11
0-15-30M W/B	12948	0.0	14.9	32.5		104	13
0-20- 0	15965	0.0	19.8	0.0		99	11
0-20- 0	14514	0.0	20.0	0.0		100	11
0-20-20M	14722	0.0	20.3	20.4		102	11
0-20-20M	14499	0.0	20.1	20.5		101	11
0-20-20M	14771	0.0	20.1	20.0		100	11
0-20-20M	15081	0.0	20.0	21.9		103	11
0-20-20M	15265	0.0	20.1	20.0		100	11
0-20-20M	16127	0.0	18.8*	20.5		97*	11
0-46- 0	15961	0.0	36.5*	0.0		79*	15
4-12- 8M	13410	3.9	12.7	8.7		104	11
4-12- 8M	13988	3.9	12.1	10.4		105	11
4-12- 8M	14182	4.0	12.5	9.3		105	11
4-12- 8M	14510	4.2	11.8	8.9		103	11
4-12- 8M	15269	4.1	11.8	9.2		102	11
4-12- 8M	15564	4.0	11.5*	8.6		99	11
4-12- 8M	15976	4.0	11.6*	8.6		99	11
4-12- 8M	16129	3.9	11.8	9.2		101	11
4-12- 8M	14290	4.3	12.6	9.9		109	13
5-10-15S	13411	5.2	10.3	15.0		102	11
5-10-15S	13579	5.1	10.5	15.8		104	11
5-10-15S	14272	5.3	9.8	15.8		103	11
5-10-15S	14500	5.2	10.5	15.1		103	11
5-10-15S	14511	5.4	10.3	14.9		103	11
5-10-15S	14558	5.4	10.2	15.1		103	11
5-10-15S	14723	5.4	10.5	15.1		105	11
5-10-15S	14761	5.1	10.7	15.2		104	11
5-10-15S	14858	5.3	10.4	14.8		103	11
5-10-15S	14912	5.2	10.1	15.3		102	11
5-10-15S	15082	5.0	10.8	15.2		104	11

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

COOPERATIVE FERTILIZER SERVICE		WINCHESTER		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-10-15S	15267	5.5	10.2	15.5		105	11
5-10-15S	15622	5.3	10.1	14.8		102	11
5-10-15S	16024	5.3	9.2*	15.7		100	12
5-10-15S	12946	5.1	10.3	15.2		102	13
5-10-15S	12947	5.1	10.3	15.1		102	13
5-10-15S	13937	4.8	10.2	15.4		100	13
5-10-15S	14289	5.3	10.3	15.4		103	13
5-10-15S	13252	5.1	10.2	15.1		101	15
5-20-20M	13022	4.9	20.0	19.5*		99	11
5-20-20M	13993	4.9	20.3	20.7		101	11
5-20-20M	14183	4.9	20.1	20.9		101	11
5-20-20M	14501	5.1	20.0	20.5		101	11
5-20-20M	14513	5.2	19.9	19.9		101	11
5-20-20M	14724	5.3	20.7	19.8		103	11
5-20-20M	14973	5.0	19.2*	19.8		98	11
5-20-20M	15268	5.3	20.0	20.3		101	11
5-20-20M	15623	5.3	19.6	20.9		102	11
5-20-20M	15978	5.0	17.6*	16.9*		90*	11
5-20-20M	15964	5.1	19.8	20.0		100	23
5-20-20M W/B	15354	5.3	20.5	20.1		102	13
6- 6-18S	14271	6.4	6.5	18.3		105	11
6- 6-18S	14502	6.3	6.7	18.1		105	11
6- 6-18S	14559	6.1	6.4	17.7		101	11
6- 6-18S	14760	6.1	6.2	18.6		103	11
6- 6-18S	15458	6.2	6.5	18.0		104	11
6- 6-18S	15484	6.3	6.6	18.1		105	11
6- 6-18S	15624	6.3	6.5	17.5*		103	11
6- 6-18S	16025	6.0	6.1	18.7		102	12
6- 6-18S	13797	6.0	6.4	17.8		101	13
6- 8- 6S	13412	5.7	8.5	6.1		101	11
6- 8- 6S	14503	6.5	8.5	6.6		108	11
6- 8- 6S	14512	6.3	8.5	6.6		106	11
6- 8- 6S	14725	6.5	9.0	6.6		110	11
6- 8- 6S	15270	6.0	8.7	6.4		105	11
6- 8- 6S	15625	6.2	8.5	6.3		105	11
6- 8- 6S	15980	6.2	8.3	6.9		105	11
6- 8- 6S	13936	5.9	8.9	6.4		105	13
6-12-12M	14078	5.9	11.8	13.2		101	11
6-12-12M	14184	5.9	12.1	12.1		100	11
6-12-12M	14726	6.2	12.1	12.1		102	11
6-12-12M	15266	6.1	12.3	11.8		101	11
6-12-12M	15962	6.2	11.3*	12.1		99	11
6-12-12M	15979	6.4	11.2*	12.1		99	11
6-12-12M	16130	6.2	11.6*	12.3		100	11
8-10-15S	13253	8.0	10.2	15.2		101	11
8-10-15S	14273	8.0	10.3	15.5		102	11
8-10-15S	14504	8.2	10.4	15.1		102	11
8-10-15S	14560	8.3	10.5	14.7		103	11
8-10-15S	14774	8.1	10.4	15.5		103	11
8-10-15S	14913	8.2	10.3	15.3		103	11
8-10-15S	15459	8.0	10.1	15.3		101	11
8-10-15S	15518	8.2	9.9	15.6		102	11
8-10-15S	16026	8.2	9.9	15.4		102	11
10-10-10M	14727	10.8	9.7	11.6		106	11
10-10-10M	14974	10.2	9.9	10.7		102	23
12-12-12M	15264	10.7*	12.0	13.5		97*	13
30- 0- 0	14349	30.9	0.0	0.0		103	19



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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

DARLING + COMPANY		CAIRO		ILL.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-25-25M	14953	0.0	24.6	24.3*			98	15
0-25-25M	13708	0.0	25.1	24.5			100	25
4-12- 8M	13544	5.5	13.1	10.1			120	15
5-10-15S	13543	5.8	15.2	14.3*	*		124	15
5-10-15S	15052	6.1	15.0	14.8	*		126	15
5-10-15S	15237	5.8	10.3	14.7			105	15
5-10-15S	15239	5.8	10.4	14.3*			105	15
5-10-15S	15724	6.0	14.8	14.6*	*		124	15
5-10-15S	15725	5.5	10.0	15.2			103	15
5-20- 0	13546	5.2	21.4	0.0			106	15
5-20-20M	13707	6.5	18.5*	19.4*			101	15
5-20-20M	14981	5.0	19.5*	20.4			99	15
5-20-20M	15049	6.3	19.6	19.8			104	15
5-20-20M	14978	5.8	20.4	21.1			106	16
5-20-20M	15726	5.0	20.0	20.2			100	25
5-20-20M W/ME	14954	5.4	20.7	20.4			104	15
6-12-12M	13719	4.8*	10.9*	10.9*			87*	15
6-12-12M	14984	5.8	13.1	12.7			104	15
6-12-12M	15675	5.8	13.6	12.8			106	15
6-12-18S	14955	6.9	12.2	18.4			105	15
6-12-18S W/ME	15051	6.9	12.7	17.0*			105	15
6-24-24M	14956	6.2	21.6*	23.4*			95*	15
6-24-24M	14983	6.7	23.7	23.9			101	15
6-24-24M	15676	6.1	23.9	24.0			100	15
6-24-24M	14977	6.8	23.6	23.3*			101	16
6-24-24M	15326	7.3	22.9*	23.1*			101	16
6-24-24M	15739	6.0	23.7	24.3			100	25
6-24-24M W/ME	14957	6.2	24.7	24.1			102	15
10-10-10M	15238	9.6*	12.1	10.5			106	15
10-10-10M	15475	10.0	10.4	10.3			102	15
10-10-10M	15727	9.2*	11.6	10.8			103	15
10-20-20M	13709	8.5*	20.4	20.7			97*	15
12-12-12M	15728	11.6*	12.8	12.2			101	15
15-15-15M	14982	14.8	14.8	16.0			100	15
15-15-15M	15050	14.8	14.8	16.2			100	15
15-15-15M	15729	14.9	15.4	15.1			101	15
15-15-15M	14979	14.8	14.8	16.2			100	16
DARLING + COMPANY		E. ST. LOUIS		ILL.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-10-15S	16233	5.3	12.5	14.0*			109	15
5-10-15S	15327	6.4	10.8	13.3*			108	16
5-15-30M	14994	4.7*	17.0	30.6			105	16
5-20-20M	13238	5.3	20.8	20.4			104	15
5-20-20M	15003	5.9	19.9	20.2			104	15
5-20-20M	15194	5.9	19.8	19.9			103	15
5-20-20M	15681	6.1	20.7	20.5			107	15
5-20-20M	16062	5.1	20.6	21.0			103	15
5-20-20M	16212	5.6	20.3	20.5			104	15
5-20-20M	16234	5.4	21.5	20.7			106	15
5-20-20M W/ME	15002	5.8	21.2	19.9			106	15
5-20-20M W/ME	16063	5.3	20.0	20.5			102	15
5-20-20M W/ME	16237	5.7	19.9	19.8			102	15
6-12-18S	14990	6.9	12.4	18.1			106	15
6-18-12M	13239	6.0	20.7	12.7			109	15
6-24-24M	16208	6.4	24.1	23.4*			101	15
6-24-24M	16235	6.4	24.2	24.3			102	15

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

DARLING + COMPANY		E. ST. LOUIS ILL.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
7-28-14M	15600	7.0	27.6	14.8		100	15
7-28-14M W/ME	14992	7.1	28.3	14.8		102	15
7-28-14M W/ME	15599	7.2	28.1	14.6		101	15
7-28-14M W/ME	15680	7.0	28.0	14.4		100	15
15-15-15M	16064	14.4*	15.2	14.9		98	15
15-15-15M	16236	13.1*	17.1	15.6		99	15
E. I. DU PONT DE NEMOURS + CO.		WILMINGTON DEL.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
38- 0- 0	14142	38.4	0.0	0.0		101	17
ESCAMBIA CHEMICAL CORPORATION		PENSACOLA FLA.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
11-23- 0	15042	11.7	22.5*	0.0		98	18
FARMERS CHEMICAL ASSN., INC.		TYNER TENN			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
28- 0- 0	16092	29.2	0.0	0.0		104	19
30- 0- 0	12940	30.5	0.0	0.0		102	19
30- 0- 0	12942	30.2	0.0	0.0		100	19
30- 0- 0	13140	31.7	0.0	0.0		105	19
30- 0- 0	13876	30.8	0.0	0.0		103	19
30- 0- 0	14165	31.0	0.0	0.0		103	19
30- 0- 0	14535	31.0	0.0	0.0		103	19
30- 0- 0	15734	31.5	0.0	0.0		105	19
30- 0- 0	16325	31.7	0.0	0.0		105	19
30- 0- 0	16329	31.8	0.0	0.0		106	19
33- 0- 0	13478	34.4	0.0	0.0		103	17
33- 0- 0	15963	34.3	0.0	0.0		102	17
FARMERS COOPERATIVE		MADISONVILLE KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
30- 0- 0	13195	30.1	0.0	0.0		100	19
FARMERS FERTILIZER COMPANY		SMITH GROVE KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-20-30M	14081	0.0	16.8*	34.0		97*	11
4-16- 4S	14192	4.3	16.1	5.1	*	104	11
5-10-15S	15683	5.2	10.7	15.7		105	11
9- 9-14S	16160	9.6*	9.9	16.3		101	13
10-10-10M	14082	9.8	10.9	10.9		103	11
10-10-10M	15682	9.8	11.6	9.1*		103	11
FEDERAL CHEMICAL COMPANY		HUMBOLDT TENN			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-20-20M	16036	0.0	20.6	19.6		101	15
0-20-20M	15735	0.0	17.5*	19.7		91*	25
4-12- 8M	13715	5.3	16.8	13.8		144	13
4-16- 4S	13718	4.4	16.3	4.8	*	105	13
5-10-15S	13737	5.2	9.9	14.7	*	100	15
5-10-15S	15736	5.0	10.5	15.5	*	103	15
5-10-15S	16060	5.3	9.4*	14.8	*	99	15
5-20-20M	15020	5.3	19.1*	20.7		100	15
5-20-20M	15030	5.6	18.3*	20.0		98	15
5-20-20M	15679	6.0	20.4	18.7*		103	15
5-20-20M	16045	4.7*	18.5*	22.3		98	15
5-20-20M	16061	5.5	19.5*	20.1		101	15
5-20-20M	16243	4.8	19.6	19.3*		97*	15
5-20-20M	16240	7.6	17.9*	19.2*		104	25
5-25-15M W/ME	16056	5.9	22.3*	14.8		96*	15
6-12-12M	13209	6.0	12.0	11.7		99	15
6-12-12M	13706	5.9	12.1	12.0		100	15
6-12-12M	13713	6.0	11.9	11.7		99	15



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

FEDERAL CHEMICAL COMPANY		HUMBOLDT		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
6-12-12M	15019	6.3	12.0	12.0		102	15	
6-12-12M	15737	7.6	12.6	13.1		113	15	
6-12-12M	16040	6.0	12.1	11.7		100	15	
6-12-12M	16043	6.0	11.9	13.2		102	15	
6-12-12M	16059	6.0	12.5	12.7		103	15	
6-12-12M W/ME	15233	6.7	11.6*	13.2		104	25	
10-10-10M	13714	9.7*	10.2	9.7*		98	15	
10-10-10M	13738	10.5	9.9	10.6		103	15	
10-10-10M	15234	9.6*	11.4	10.5		103	15	
10-10-10M	16057	10.1	9.8	11.0		101	15	
10-10-15S	15029	9.9	12.2	15.1	*	107	15	
10-10-15S W/ME	16055	10.3	11.9	14.8	*	107	15	
10-20-20M	13705	10.1	20.2	20.2		101	15	
12-12-12M	13210	12.3	11.8	12.2		101	15	
12-12-12M	15018	12.3	13.2	11.1*		103	15	
12-12-12M	15235	11.1*	12.6	13.1		99	15	
12-12-12M	15738	10.5*	12.8	13.8		98	15	
12-12-12M	16044	11.1*	11.7	11.1*		94*	15	
15-15-15M	13662	14.8	14.0*	14.9		97*	15	
15-15-15M	15236	13.8*	13.9*	15.1		94*	15	
15-15-15M	16041	14.3*	14.6	16.1		98	15	
15-15-15M	16058	15.1	17.3	12.4*		102	15	
15-15-15M	16244	14.0*	12.7*	14.8		91*	15	
FEDERAL CHEMICAL COMPANY		LOUISVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-10-30M W/B	13031	0.0	10.5	28.6*		99	15	
0-10-30M W/B	13200	0.0	10.1	28.9*		98	15	
0-10-30M W/B	13608	0.0	10.3	31.4		104	15	
0-10-30M W/B	13648	0.0	10.3	30.7		103	15	
0-10-30M W/B	14730	0.0	11.3	30.5		106	15	
0-10-30M W/B	15295	0.0	10.5	29.9		102	15	
0-10-30M W/B	15513	0.0	10.8	28.7*		101	15	
0-10-30M W/B	13963	0.0	10.3	29.5		100	25	
0-10-30M W/B	15443	0.0	10.9	29.9		103	25	
0-20-0	15570	0.0	19.4*	0.0		97*	13	
0-20-0	16084	0.0	19.7	0.0		98	14	
0-20-0	13226	0.0	20.0	0.0		100	15	
0-20-0	13554	0.0	20.1	0.0		101	15	
0-20-0	14085	0.0	20.1	0.0		101	15	
0-20-0	15297	0.0	19.8	0.0		99	15	
0-20-0	15914	0.0	19.7	0.0		98	15	
0-20-20M	13453	0.0	19.8	20.1		100	13	
0-20-20M	13201	0.0	19.4*	21.4		100	15	
0-20-20M	13506	0.0	19.9	19.8		99	15	
0-20-20M	13700	0.0	19.7	21.0		100	15	
0-20-20M	14807	0.0	17.4*	20.5		92*	15	
0-20-20M	15065	0.0	17.5*	20.9		93*	15	
0-20-20M	15565	0.0	18.1*	22.3		97*	15	
0-20-20M	15926	0.0	20.4	19.9		101	15	
0-20-20M	15990	0.0	19.5*	18.9*		96*	15	
0-20-20M	13955	0.0	19.4*	19.3*		97*	25	
0-20-20M	15263	0.0	19.8	20.4		100	25	
3-12-12M	13509	3.7	12.2	12.7		107	13	
3-12-12M	13701	3.1	13.4	12.7		109	13	
3-12-12M	13414	4.0	12.5	16.5		119	15	
3-12-12M	14876	3.9	11.4*	12.2		104	15	
3-12-12M	15992	5.7	12.7	13.1		123	15	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**  
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	
4-12- 8M	13452	3.9	12.1	7.5*		98	13	
4-12- 8M	13508	3.2*	14.7	7.9		107	13	
4-12- 8M	13651	4.1	12.2	7.7*		101	13	
4-12- 8M	13999	4.8	11.8	8.3		105	13	
4-12- 8M	13147	5.2	12.4	9.6		114	15	
4-12- 8M	13204	4.6	11.9	8.1		104	15	
4-12- 8M	13228	4.2	11.7	8.0		100	15	
4-12- 8M	13332	4.9	12.9	11.1		117	15	
4-12- 8M	13338	4.7	12.5	8.2		107	15	
4-12- 8M	13550	4.5	11.8	8.1		102	15	
4-12- 8M	13574	5.0	12.9	8.0		111	15	
4-12- 8M	13949	4.4	12.9	11.3		114	15	
4-12- 8M	14187	4.5	13.8	8.0		111	15	
4-12- 8M	14839	4.9	12.0	10.4		112	15	
4-12- 8M	14875	4.9	12.1	9.8		110	15	
4-12- 8M	15066	4.8	11.7	8.9		106	15	
4-12- 8M	15143	4.9	13.1	10.8		117	15	
4-12- 8M	15429	5.2	13.8	13.1		127	15	
4-12- 8M	15927	4.9	12.7	10.4		114	15	
4-16- 4S	13281	4.5	16.8	5.3	*	109	11	
4-16- 4S	13415	4.3	14.8*	6.2	*	101	11	
4-16- 4S	13698	4.5	16.4	5.8	*	109	11	
4-16- 4S	13958	5.0	15.5*	6.3		109	11	
4-16- 4S	13224	4.3	17.0	4.5	*	107	13	
4-16- 4S	13959	4.9	15.7	6.7	*	110	15	
5-10-10M	16121	5.4	10.1	11.4		106	15	
5-10-15M	14547	8.9	10.6	16.1		128	13	
5-10-15S	13030	5.5	10.1	15.3		104	15	
5-10-15S	13148	5.6	10.5	14.6*		104	15	
5-10-15S	13205	5.5	9.8	16.0		104	15	
5-10-15S	13206	5.3	9.7	15.7		102	15	
5-10-15S	13222	5.5	9.7*	16.5		105	15	
5-10-15S	13282	5.8	10.6	14.1*		105	15	
5-10-15S	13333	5.7	10.8	15.8		109	15	
5-10-15S	13335	5.5	11.0	13.5*		104	15	
5-10-15S	13336	5.4	10.9	14.6*		105	15	
5-10-15S	13339	5.6	10.2	15.2		105	15	
5-10-15S	13416	5.3	9.6*	17.7		106	15	
5-10-15S	13425	5.6	10.3	14.9		105	15	
5-10-15S	13428	5.6	10.2	15.3		105	15	
5-10-15S	13551	6.6	9.9	15.8		111	15	
5-10-15S	13575	5.4	10.4	15.8		106	15	
5-10-15S	13650	5.5	10.3	15.4		105	15	
5-10-15S	13952	5.8	11.3	12.9*		106	15	
5-10-15S	13956	5.5	10.4	14.8		104	15	
5-10-15S	14001	5.3	11.3	13.1*		103	15	
5-10-15S	14470	5.9	10.9	15.0	*	109	15	
5-10-15S	14507	6.0	10.0	15.9		107	15	
5-10-15S	14729	5.9	11.4	12.8*	*	107	15	
5-10-15S	14809	6.0	10.0	15.2		106	15	
5-10-15S	15147	5.7	10.2	15.2		106	15	
5-10-15S	15206	5.5	10.1	16.1		106	15	
5-10-15S	15262	5.7	10.6	14.8		106	15	
5-10-15S	15430	5.4	10.5	15.4	*	105	15	
5-10-15S	15445	5.7	10.6	15.5	*	108	15	
5-10-15S	15931	5.4	10.7	15.1	*	106	15	
5-20-20M	13202	5.4	19.1*	21.3		101	15	



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

FEDERAL CHEMICAL COMPANY		LOUISVILLE			KY.			
GRADE	NUM	N	APA	PDT	XS CL	RV	PHYS	
5-20-20M	13227	5.2	18.7*	22.5		101	15	
5-20-20M	13427	5.1	19.0*	20.1		98	15	
5-20-20M	13505	4.9	19.9	21.3		101	15	
5-20-20M	13552	5.7	19.0*	20.4		101	15	
5-20-20M	13576	5.5	19.4*	20.2		101	15	
5-20-20M	13646	5.0	19.7	20.6		100	15	
5-20-20M	13962	5.3	18.8*	21.7		100	15	
5-20-20M	14546	5.5	18.9*	21.0		100	15	
5-20-20M	14877	6.0	18.3*	19.2*		99	15	
5-20-20M	15152	5.2	19.8	20.3		101	15	
5-20-20M	15208	5.6	19.8	19.9		102	15	
5-20-20M	15442	4.9	19.5*	20.4		99	15	
5-20-20M	15496	5.9	18.3*	19.9		99	15	
5-20-20M	15566	5.0	19.5*	18.3*		97*	15	
5-20-20M	15898	5.6	19.0*	19.2*		99	15	
5-20-20M	15913	5.4	19.9	18.0*		99	15	
5-20-20M	15991	4.9	18.7*	23.9		101	15	
5-20-20M	16065	5.1	18.4*	21.8		99	15	
6- 6-18S	13203	6.3	7.0	18.0	*	106	15	
6- 6-18S	14179	6.1	8.0	18.1	*	109	15	
6- 6-18S	15309	6.5	7.3	19.1		111	15	
6- 8- 6S	13417	5.3*	8.9	9.3	*	108	15	
6-12-12M	16085	6.7	12.3	13.6		108	14	
6-12-12M	13451	6.3	11.9	13.8		105	15	
6-12-12M	13553	5.1*	12.5	12.2		97*	15	
6-12-12M	13998	6.3	11.6*	13.4		103	15	
6-12-12M	14102	6.3	12.2	12.7		104	15	
6-12-12M	14188	7.3	12.0	13.3		110	15	
6-12-12M	14840	5.4*	11.7	16.6		104	15	
6-12-12M	15207	5.4*	11.8	14.9		101	15	
6-12-12M	15497	6.6	11.0*	16.9		108	15	
6-12-12M	15810	6.4	13.4	13.2		109	15	
6-12-12M	15817	6.2	12.9	12.4		105	15	
6-12-12M	15850	4.4*	12.5	9.3*		88*	15	
6-12-12M	16122	6.2	11.9	13.8		104	15	
6-12-12M	16133	5.8	14.1	14.3		111	15	
6-12-12M	16287	6.3	11.8	14.2		105	15	
6-12-12S	14475	6.6	12.4	13.7	*	108	15	
6-12-18S	13285	5.1*	14.6	13.7*		97*	13	
6-12-18S	14596	6.4	14.1	16.3*		106	15	
6-24-24M	15483	6.2	22.6*	24.5		98	16	
7-28-14M	15294	6.9	26.3*	15.8		98	15	
7-28-14M	15567	7.3	26.6*	13.6*		98	15	
9-10-15S	14404	9.0	11.0	15.1	*	103	13	
9-10-15S	15342	9.0	10.8	15.5		103	13	
9-10-15S	13208	9.0	9.7	15.6		100	15	
9-10-15S	13424	9.2	10.4	16.1	*	104	15	
9-10-15S	13426	8.9	10.2	16.4		103	15	
9-10-15S	13609	9.2	10.1	16.9		105	15	
9-10-15S	13950	9.0	10.0	15.8		101	15	
9-10-15S	13964	9.0	9.5*	14.8	*	98	15	
9-10-15S	14460	8.9	9.8	18.0		103	15	
9-10-15S	14810	8.3*	11.1	16.1	*	102	15	
9-10-15S	15296	8.8	10.2	16.4		102	15	
9-10-15S	15358	8.5*	11.0	14.6	*	100	15	
9-10-15S	15444	8.9	10.8	16.3		104	15	
9-10-15S	15568	8.8	10.8	18.7		107	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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			
9-10-15S	15569	8.7*	11.0	14.7		101	15	
9-10-15S	15777	9.4	10.9	15.0		105	15	
9-10-15S	15899	7.6*	12.2	14.7	*	100	15	
9-10-15S	15930	8.7	11.8	14.6	*	104	15	
10-10-10M	15261	10.2	9.9	11.5		103	13	
10-10-10M	13149	10.1	10.3	10.8		103	15	
10-10-10M	13207	10.5	10.3	11.3		106	15	
10-10-10M	13221	10.3	10.6	11.2		105	15	
10-10-10M	13225	10.3	10.2	11.0		104	15	
10-10-10M	13283	10.6	10.1	11.3		105	15	
10-10-10M	13334	10.7	10.5	11.1		106	15	
10-10-10M	13337	10.1	10.0	11.2		102	15	
10-10-10M	13374	10.3	10.3	11.1		104	15	
10-10-10M	13418	9.9	10.3	11.4		103	15	
10-10-10M	13504	9.5*	10.7	11.6		102	15	
10-10-10M	13555	10.5	10.4	11.4		106	15	
10-10-10M	13577	10.3	10.3	10.4		103	15	
10-10-10M	13610	10.4	9.9	11.0		103	15	
10-10-10M	13699	10.0	10.3	11.5		104	15	
10-10-10M	13951	9.9	10.3	11.9		103	15	
10-10-10M	13957	11.0	10.5	9.2*		105	15	
10-10-10M	14000	10.0	9.9	11.0		101	15	
10-10-10M	14461	10.6	10.6	9.7		104	15	
10-10-10M	14508	10.4	10.4	11.0		105	15	
10-10-10M	14808	9.4*	10.9	11.7		103	15	
10-10-10M	14976	10.5	9.6*	11.0		103	15	
10-10-10M	15441	10.1	10.5	10.9		103	15	
10-10-10M	15512	10.3	10.6	9.9		103	15	
10-10-10M	15897	9.8	10.5	10.8		102	15	
10-10-15S	13647	9.6*	8.7*	16.1		96*	15	
10-10-15S W/ME	14101	9.4*	10.6	15.2	*	99	15	
10-10-15S W/ME	14564	9.8	11.3	15.7	*	104	15	
10-10-15S W/ME	14728	10.6	11.8	15.1	*	108	15	
10-10-15S W/ME	15446	10.0	9.1*	16.6		100	15	
10-10-15S W/ME	15495	10.5	11.7	15.2	*	108	15	
10-10-15S W/ME	15699	9.4*	8.3*	16.9	*	95*	15	
12-12-12M	13223	11.6*	12.1	12.7		99	15	
12-12-12M	13229	12.0	11.7	12.7		100	15	
12-12-12M	13284	10.7*	12.0	13.0		96*	15	
12-12-12M	13556	11.9	12.2	12.9		101	15	
12-12-12M	14189	11.9	12.1	12.2		100	15	
12-12-12M	15067	11.5*	12.4	13.0		100	15	
12-12-12M	15343	12.7	10.9*	12.8		101	15	
12-12-12M	15698	13.1	12.0	10.6*		103	15	
12-12-12M	15851	11.9	12.4	12.9		102	15	
12-12-12M	16123	11.6*	11.7	13.8		100	15	
12-12-12M	16132	11.7	12.4	12.1		100	15	
12-12-12M	16134	12.0	11.3*	14.0		101	15	
16- 8- 8M	13671	15.2*	8.3	9.2		99	15	
18-46- 0	13507	17.9	44.5*	0.0		98	15	
33- 0- 0	13510	34.8	0.0	0.0		104	17	
33- 0- 0	13578	35.6	0.0	0.0		106	17	
33- 0- 0	15915	34.6	0.0	0.0		103	17	
FEDERAL CHEM. CO.—LAWN + GARD			LOUISVILLE	KY.				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
5-20-20M	13070	5.5	20.1	20.8		103	15	



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

FEDERAL CHEMICAL COMPANY			NASHVILLE		TENN		XS CL	RV	PHYS
GRADE	NUM		N	APA	POT				
0- 9-27M W/B	13512		0.0	9.3	28.7		105	14	
0-20-20M	14989		0.0	19.1*	24.5		104	13	
0-20-20M	13513		0.0	20.0	22.7		104	16	
0-20-20M	13674		0.0	19.6	22.0		102	25	
4-12- 8M	15771		4.4	13.0	10.8		114	14	
4-12- 8M	13675		5.0	11.7	9.7		109	15	
4-12- 8M	14662		4.6	11.4*	10.1		106	15	
4-12- 8M	14688		4.9	13.1	12.1		120	15	
4-12- 8M	15756		4.4	11.0*	12.5		108	15	
4-12- 8M	13159		5.1	12.6	8.4		111	16	
4-16- 4S	13672		4.3	16.6	4.9	*	106	11	
5-10-15S	14084		5.2	10.2	15.4	*	103	13	
5-10-15S	13723		5.1	10.2	14.7	*	101	15	
5-10-15S	14660		5.6	9.7*	14.4*		101	15	
5-10-15S	14820		5.7	10.0	14.0*	*	102	15	
5-10-15S	15106		4.9	10.0	15.1	*	100	15	
5-10-15S	16152		5.1	9.7	14.4*		98	16	
5-10-20M W/ME	15105		5.2	9.7	21.2		102	27	
5-20-20M	15772		5.4	18.7*	20.2		98	14	
5-20-20M	13673		5.1	21.2	21.3		105	15	
5-20-20M	13727		5.0	18.9*	21.0		99	15	
5-20-20M	13771		5.6	19.3*	20.1		100	15	
5-20-20M	14822		4.9	17.6*	21.7		95*	15	
5-20-20M	14987		5.6	18.8*	20.3		99	15	
5-20-20M	15697		5.2	19.5*	20.1		100	15	
5-20-20M	15746		5.7	18.5*	20.0		99	15	
5-20-20M	16322		5.3	19.3*	19.0*		98	15	
5-20-20M	13158		5.3	19.3*	20.2		100	16	
5-20-20M	13514		4.9	18.8*	21.1		98	16	
5-20-20M	16209		5.1	18.0*	20.5		96*	16	
5-25-15M	13770		5.2	23.7*	15.2		98	13	
5-25-15M W/ME	15688		5.4	21.4*	15.1		93*	15	
5-25-15M W/ME	16153		5.7	23.7*	15.4		100	15	
5-25-15M W/ME	15108		5.6	22.3*	15.3		96*	17	
5-25-15M W/ME	15720		5.7	23.3*	15.2		99	17	
5-25-15M W/ME	15721		5.7	24.0*	15.6		101	17	
5-25-15M W/ME	15722		5.7	24.0*	15.7		101	17	
6-12-12M	13677		6.3	11.8	12.4		102	15	
6-12-12M	13725		6.2	11.9	12.2		101	15	
6-12-12M	13769		6.3	11.7	12.1		101	15	
6-12-12M	14086		6.2	12.0	12.8		103	15	
6-12-12M	14821		6.2	11.7	11.5*		99	15	
6-12-12M	15747		6.4	12.0	14.8		108	15	
6-18-12M	15109		6.1	17.3*	11.5*		97*	15	
6-24-24M	13669		5.6*	22.5*	22.8*		94*	15	
9-10-15S	14083		8.5*	9.9	15.8	*	99	13	
9-10-15S	15187		8.7*	10.6	14.6		100	13	
9-10-15S	13724		8.6*	10.5	15.4		101	15	
10-10-10M	14988		10.5	9.9	10.1		102	13	
10-10-10M	13511		10.4	9.9	10.7		103	14	
10-10-10M	15770		10.2	10.1	10.2		102	14	
10-10-10M	13156		10.1	10.1	9.9		100	15	
10-10-10M	13670		10.4	10.4	10.2		104	15	
10-10-10M	13679		9.6*	10.5	9.6*		99	15	
10-10-10M	14661		10.5	10.5	10.0		104	15	
10-10-10M	15755		10.5	9.8	10.0		102	15	
10-10-10M	16211		10.2	9.9	10.1		101	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

FEDERAL CHEMICAL COMPANY		NASHVILLE		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
10-10-10M	13157	10.4	10.1	9.6*		101	16	
10-10-10M	16323	9.5*	11.4	11.9		105	16	
10-10-15S	13676	10.0	10.2	15.1	*	101	15	
10-10-15S	13726	9.9	9.7	15.8		100	15	
10-10-15S W/ME	14087	10.1	10.3	15.1		102	15	
10-10-15S W/ME	15687	10.3	10.8	15.5		105	16	
10-10-15S W/ME	16151	10.2	10.2	15.6		102	16	
12-12-12M	12983	11.2*	11.7	13.2		97*	15	
12-12-12M	13772	11.5*	11.7	12.5		98	15	
12-12-12M	14687	12.0	11.4*	11.4*		97*	15	
12-12-12M W/ME	16321	12.5	12.1	12.7		103	15	
16- 8- 8M	15107	15.1*	8.0	9.9		99	15	
82- 0- 0	16283	82.0	0.0	0.0		100	19	
GLASGOW FERTILIZER COMPANY		GLASGOW		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-20-20M	14156	0.0	25.7	15.2*		111	23	
0-20-20M	15142	0.0	20.7	20.7		103	23	
0-20-20M W/B	13113	0.0	20.6	21.6		104	25	
4-12- 8M	13114	4.3	10.3*	9.3		97*	11	
4-12- 8M	13645	4.2	11.4*	8.8		100	11	
4-12- 8M	14153	4.5	9.6*	9.6		96*	11	
4-12- 8M	15141	4.1	9.3*	8.9		90*	11	
4-12- 8M	15546	4.2	10.2*	10.5		99	11	
4-16- 4S	13110	4.3	15.8	5.1		103	11	
4-16- 4S	13649	4.3	16.2	4.5		104	11	
4-16- 4S	14252	4.6	16.0	4.9		106	11	
5-10-15S	13116	5.1	9.8	16.1		102	11	
5-10-15S	13640	5.3	10.2	15.3		103	11	
5-10-15S	13643	5.3	10.2	15.8		104	11	
5-10-15S W/ME	14155	5.0	11.3	14.2*		103	11	
5-20-20M	13112	5.5	20.5	20.3		104	11	
5-20-20M	14154	5.6	19.9	20.8		103	11	
5-20-20M	13641	5.2	20.5	20.4		103	13	
6-12-12M	13115	6.7	11.8	12.7		104	11	
6-12-12M	13642	6.6	11.6*	13.8		105	13	
10-10-10M	13111	9.9	10.7	9.9		101	11	
10-10-10M	14565	10.7	10.3	10.7		106	11	
10-10-10M	13644	10.2	10.5	10.7		104	13	
W.R. GRACE + CO., DAV. CHEM.		BARTOW		FLA.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-46- 0	15436	0.0	44.8*	0.0		97*	17	
W.R. GRACE + CO.		DECATUR		ILL.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
6-12-18M	16221	5.9	13.3	19.5		106	10	
6-12-18M	16223	6.0	12.4	19.3		103	10	
9- 9- 9M	16222	9.7	9.2	9.3		105	10	
W.R. GRACE + CO.		COLUMBUS		OHIO		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
5-10-10M	13407	5.0	10.7	10.6		104	15	
5-10-15S	13408	4.9	10.1	15.7		101	15	
5-20-20M	13409	4.1*	19.3*	22.8		98	15	
W.R. GRACE + CO.		NASHVILLE		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-20- 0	13106	0.0	19.7	0.0		98	15	
0-20- 0	14152	0.0	19.6	0.0		98	17	
0-20-20M	14922	0.0	19.7	20.4		100	15	
0-20-20M	13661	0.0	19.7	19.6		98	25	



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

W.R. GRACE + CO.		NASHVILLE		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-20-20M	14106	0.0	18.5*	20.4		95*	25	
0-20-20M	14651	0.0	19.7	20.0		99	25	
0-20-20M	14494	0.0	20.7	19.8		102	25	
0-20-20M W/B	13638	0.0	19.9	19.5*		99	15	
0-20-20M W/B	15412	0.0	19.9	20.5		101	25	
0-25-25M	14936	0.0	26.1	25.8		104	15	
4-12- 8M	13036	4.4	11.9	8.6		103	15	
4-12- 8M	13103	4.6	12.1	8.6		106	15	
4-12- 8M	14150	4.0	13.0	7.8		104	15	
4-12- 8M	14497	4.8	12.3	8.7		108	15	
4-16- 4S	14216	4.2	15.9	4.9		103	11	
5-10-15S	15717	5.3	9.5*	14.2*		98	13	
5-10-15S	14578	5.4	9.9	15.1		103	14	
5-10-15S	13033	5.0	9.8	15.2		99	15	
5-10-15S	13035	5.0	9.8	15.7		101	15	
5-10-15S	14149	5.1	9.9	15.7		102	15	
5-10-15S	14919	5.5	10.0	15.4		103	15	
5-10-15S	14920	5.5	9.8	15.2		103	15	
5-10-15S	15313	5.3	9.7	15.2		101	15	
5-10-15S	15317	5.2	9.9	15.1		101	15	
5-10-15S	15406	5.5	9.7	15.3		102	15	
5-10-15S	15730	5.6	9.7	15.1		103	15	
5-10-15S	16053	5.2	9.8	14.9		100	15	
5-10-15S	16054	5.0	10.0	14.9		100	15	
5-20-20M	15718	5.2	18.8*	19.5*		97*	13	
5-20-20M	15766	5.4	19.6	18.6*		99	14	
5-20-20M	13034	4.9	19.1*	21.3		99	15	
5-20-20M	13040	4.9	19.7	20.4		99	15	
5-20-20M	13105	5.0	19.6*	19.5*		98	15	
5-20-20M	13246	4.9	20.1	20.2		100	15	
5-20-20M	13659	4.8	19.5*	21.1		99	15	
5-20-20M	13711	4.8	20.1	18.6*		98	15	
5-20-20M	14107	4.9	19.6	20.3		99	15	
5-20-20M	14151	5.1	19.7	19.4*		99	15	
5-20-20M	14174	4.8	20.3	19.9		100	15	
5-20-20M	14816	4.9	19.3*	18.4*		95*	15	
5-20-20M	14921	5.2	19.1*	20.8		99	15	
5-20-20M	15048	6.0	18.1*	18.7*		97*	15	
5-20-20M	15314	5.0	20.5	19.3*		100	15	
5-20-20M	15591	5.0	20.3	21.0		102	15	
5-20-20M	15767	4.9	19.5*	18.3*		96*	15	
5-20-20M	16050	4.7	19.4*	20.3		98	15	
5-20-20M	16052	5.2	19.5*	20.3		100	15	
5-20-20M	16316	5.2	19.5*	20.5		100	15	
5-20-20M	14492	5.5	19.0*	20.4		100	16	
6-12-12M	13107	6.2	12.0	12.1		101	13	
6-12-12M	13037	5.9	12.3	12.1		101	15	
6-12-12M	13658	6.3	11.9	12.0		101	15	
6-12-12M	13710	6.2	11.7	13.2		102	15	
6-12-12M	14496	6.3	12.5	12.6		105	15	
6-12-12M	15315	6.0	12.0	11.9		100	15	
6-12-12M	15731	6.6	12.1	12.1		104	15	
6-12-12M	16051	6.3	11.8	12.7		102	15	
6-12-12M	14577	5.9	12.3	12.4		101	16	
6-24-24M	15765	6.5	22.1*	21.7*		95*	14	
6-24-24M	14495	6.6	23.7	22.4*		100	15	
6-24-24M	14686	6.4	22.1*	23.0*		96*	15	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

W.R. GRACE + CO.		NASHVILLE		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
6-24-24M	15046	6.7	22.9*	23.8			100	15
6-24-24M	15732	6.5	22.2*	21.5*			95*	15
6-24-24M	16319	6.2	24.1	25.4			103	16
7-14- 7M	15715	7.0	10.7*	7.4			89*	19
10-10-10M	15719	9.4*	10.0	11.7			100	13
10-10-10M	15764	10.2	10.3	10.1			102	14
10-10-10M	13071	10.2	10.6	11.8			106	15
10-10-10M	13104	9.5*	10.2	10.4			99	15
10-10-10M	13448	10.0	10.1	11.7			103	15
10-10-10M	14105	9.9	10.0	11.1			101	15
10-10-10M	14148	9.9	10.1	9.9			100	15
10-10-10M	14173	10.0	10.2	10.1			100	15
10-10-10M	15316	10.3	9.8	10.5			102	15
10-10-10M	14493	10.2	10.2	10.0			102	16
10-10-10M	14576	10.1	10.2	10.8			102	16
10-10-10M	14685	10.3	9.9	11.1			103	16
10-10-10M	16320	9.8	10.7	10.6			102	16
10-10-15S	15769	9.5*	10.9	15.2			101	15
10-10-15S	16317	9.8	10.4	15.4	*		98	15
10-20-20M	13660	9.9	18.9*	20.4			98	15
10-20-20M	15028	10.7	20.2	19.9			103	15
15-15-15M	15047	15.4	15.8	15.1			103	15
15-15-15M	15733	15.2	16.0	15.1			103	15
15-15-15M	15768	15.5	15.6	14.6			103	15
18-46- 0	16318	18.2	45.4	0.0			100	17
30- 0- 0	12960	30.1	0.0	0.0			100	19
30- 0- 0	16324	30.2	0.0	0.0			101	19
W.R. GRACE + CO.		NEW ALBANY		IND.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-52S	13875	0.0	0.0	53.4			103	11
0- 0-60M	14319	0.0	0.0	60.6			101	15
0-13-39M	16187	0.0	14.1	39.8			105	25
0-13-39M W/B	16192	0.0	14.5	38.9			104	25
0-20- 0	16087	0.0	19.9	0.0			100	14
0-20- 0	13890	0.0	18.5*	0.0			92*	15
0-20- 0	15805	0.0	19.0*	0.0			95*	15
0-20- 0	15834	0.0	21.3	0.0			107	15
0-25-25M	13302	0.0	25.4	25.2			101	15
0-25-25M	14792	0.0	25.0	26.4			102	15
0-25-25M	14353	0.0	27.8	20.0*			101	25
0-25-25M	14894	0.0	24.3*	26.8			101	26
0-25-25M	16089	0.0	25.4	26.4			103	26
3- 9-27M	15610	3.6	9.5	27.9			107	15
3-12-12M	14295	3.8	14.4	13.6			120	15
3-12-12M	15797	4.2	11.5*	13.6			109	15
4-12- 8M	13299	4.6	12.1	10.4			110	15
4-12- 8M	13539	4.4	12.4	9.3			107	15
4-12- 8M	13970	4.7	11.7	10.7			109	15
4-12- 8M	14355	5.0	12.4	10.2			114	15
4-12- 8M	14796	4.8	12.2	8.9			109	15
4-12- 8M	14891	4.5	12.4	8.9			107	15
4-12- 8M	15437	4.7	11.6*	10.8			109	15
4-12- 8M	15830	4.4	11.5*	9.8			105	15
4-12- 8M	15984	4.3	11.7	9.6			105	15
4-12- 8M	13150	6.7	12.6	9.9			125	16
4-12- 8M	13886	4.5	12.0	9.3			106	16
4-12- 8M	16190	4.9	12.3	9.1			110	16



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

W.R. GRACE + CO. GRADE	NUM	N	NEW ALBANY APA	IND. PDT	XS CL	RV	PHYS
4-16- 4S	13142	4.2	15.9	4.7		102	11
4-16- 4S	13143	4.3	15.6	4.8		102	11
4-16- 4S	13247	4.5	16.4	5.3	*	107	11
4-16- 4S	13534	4.1	15.9	5.1		103	11
4-16- 4S	13639	4.1	16.1	4.6		102	11
4-16- 4S	13887	4.2	16.0	4.8		103	11
4-16- 4S	14172	4.5	15.8	4.6		103	11
4-16- 4S	14246	3.9	16.5	4.8		103	11
4-16- 4S	12941	4.4	16.7	6.6	*	111	13
4-16- 4S	13108	4.1	16.0	4.7		102	15
5-10-15S	13703	5.2	11.4	15.7	*	108	13
5-10-15S	14352	5.4	10.2	15.2		103	13
5-10-15S	14794	5.2	10.6	15.2		104	13
5-10-15S	15212	5.3	9.8	15.1		101	13
5-10-15S	15256	5.3	10.4	15.2		104	13
5-10-15S	12944	5.4	10.5	15.2		105	15
5-10-15S	13248	4.9	10.0	16.0		101	15
5-10-15S	13301	5.1	10.6	15.1		103	15
5-10-15S	13480	4.9	10.5	16.0		103	15
5-10-15S	13535	5.1	11.1	16.1		107	15
5-10-15S	13622	5.1	10.3	15.6		103	15
5-10-15S	13874	5.3	10.8	15.5	*	106	15
5-10-15S	13888	5.0	10.7	15.8		104	15
5-10-15S	14293	5.3	10.4	15.5		104	15
5-10-15S	14294	5.3	10.1	15.5		104	15
5-10-15S	14472	5.4	10.3	16.4		106	15
5-10-15S	14892	5.3	10.1	15.7		103	15
5-10-15S	15831	5.2	10.1	14.9		101	15
5-10-15S	16014	5.3	9.9	17.0		105	15
5-10-15S	16189	4.6*	10.4	15.4		100	15
5-10-15S	13151	5.3	9.7	15.2		101	16
5-10-15S	14893	5.2	10.6	15.7		105	16
5-10-15S	15936	5.0	10.4	15.5		103	16
5-20-20M	16088	4.7*	20.5	20.9		101	14
5-20-20M	12943	5.1	21.1	20.8		104	15
5-20-20M	13072	4.9	19.9	19.9		99	15
5-20-20M	13249	4.4*	19.6*	22.1		99	15
5-20-20M	13341	5.3	21.1	18.1*		102	15
5-20-20M	13421	4.9	21.0	21.1		104	15
5-20-20M	13479	5.0	20.1	22.5		104	15
5-20-20M	13537	4.9	19.6	21.0		100	15
5-20-20M	13616	4.8	21.0	21.2		103	15
5-20-20M	13872	5.1	21.1	19.9		103	15
5-20-20M	13967	4.7*	20.4	21.2		101	15
5-20-20M	14354	5.1	20.0	19.5*		100	15
5-20-20M	14793	4.9	20.1	19.9		100	15
5-20-20M	14890	4.9	20.3	21.0		102	15
5-20-20M	14937	4.9	19.4*	20.2		98	15
5-20-20M	15400	5.0	20.3	21.0		102	15
5-20-20M	15612	4.5*	21.1	19.5*		100	15
5-20-20M	15832	4.7	20.0	21.4		101	15
5-20-20M	15983	5.4	20.3	21.5		104	15
5-20-20M	13152	5.5	19.7	20.4		102	16
5-20-20M	15937	5.2	20.9	19.0*		102	16
5-20-20M	16191	5.0	21.8	19.9		104	16
5-20-20M W/B	15438	4.8	18.5*	18.8*		93*	15
6- 6-18S	13871	6.6	6.8	19.2		109	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

W.R. GRACE + CO.		NEW ALBANY		IND.		RV	PHYS
GRADE	NUM	N	APA	POT	XS CL		
6- 6-18S	15548	6.2	7.8	18.0	*	109	15
6-12-12M	15213	6.1	13.0	12.9		106	13
6-12-12M	13702	6.0	12.2	13.9		104	15
6-12-12M	13889	5.9	12.0	14.0		103	15
6-12-12M	14798	6.1	12.1	13.3		103	15
6-12-12M	15439	6.0	11.6*	13.6		101	15
6-12-12M	16013	6.4	14.3	13.1		113	15
6-12-18S	13869	6.0	12.5	18.0		102	15
6-12-18S	15611	6.2	11.8	19.2		102	15
6-18-12M	15440	6.4	18.1	13.6		104	15
6-18-12M	15842	6.7	18.2	13.3		106	15
6-18-12M	15466	6.6	17.8	13.6		104	16
6-24-24M	14938	6.1	23.5*	23.4*		99	15
6-24-24M	15609	5.9	23.8	25.1		100	15
6-24-24M	15613	6.1	24.2	23.6		100	15
10-10-10M	13144	9.9	11.4	11.6		107	15
10-10-10M	13250	10.2	10.1	11.7		104	15
10-10-10M	13300	9.9	11.0	11.4		105	15
10-10-10M	13340	10.1	10.9	11.6		106	15
10-10-10M	13481	10.0	10.2	11.5		103	15
10-10-10M	13533	10.0	10.6	11.3		104	15
10-10-10M	13536	10.0	10.1	11.0		102	15
10-10-10M	13615	9.9	10.9	12.8		107	15
10-10-10M	13621	10.0	11.3	11.6		107	15
10-10-10M	13968	10.1	10.0	11.3		102	15
10-10-10M	14351	10.5	9.8	11.7		105	15
10-10-10M	14471	10.3	10.4	11.2		105	15
10-10-10M	14797	10.4	9.9	11.3		104	15
10-10-10M	14889	10.1	10.2	11.4		104	15
10-10-10M	15255	10.3	9.9	11.3		103	15
10-10-10M	15833	10.5	10.1	10.9		104	15
10-10-10M	13153	9.7	10.8	11.9		104	16
10-10-10M	15935	10.4	9.7*	10.7		102	16
12-12-12M	13617	11.5*	12.1	12.7		99	15
12-12-12M	13704	12.4	12.3	12.6		103	15
12-12-12M	13873	12.0	11.7	13.3		101	15
12-12-12M	14296	12.4	12.0	12.6		103	15
12-12-12M	14795	12.2	12.2	12.7		102	15
15-15-15M	13870	14.7	15.5	15.8		101	15
15-15-15M	13969	14.6	15.4	15.7		100	15
15-15-15M	14939	14.7	15.6	15.5		101	15
15-15-15M	15547	15.2	15.2	15.5		102	15
15-15-15M	15843	14.8	15.7	15.4		101	15
18-46- 0	14940	18.2	45.7	0.0		100	15
28- 0- 0	13141	28.0	0.0	0.0		100	19
28- 0- 0	13891	28.8	0.0	0.0		103	19
32- 0- 0	15614	32.3	0.0	0.0		101	19
W.R. GRACE + CO., NIT. DIV.		MEMPHIS		TENN		RV	PHYS
GRADE	NUM	N	APA	POT	XS CL		
33- 0- 0	13041	33.8	0.0	0.0		101	15
33- 0- 0	13109	34.0	0.0	0.0		101	17
33- 0- 0	14318	34.2	0.0	0.0		102	17
82- 0- 0	15366	82.0	0.0	0.0		100	19
82- 0- 0	15371	82.0	0.0	0.0		100	19
82- 0- 0	15373	82.0	0.0	0.0		100	19
82- 0- 0	15375	82.0	0.0	0.0		100	19
82- 0- 0	15386	82.0	0.0	0.0		100	19



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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

W.R. GRACE + CO., NIT. DIV.		MEMPHIS		TENN		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
82- 0- 0	15652	82.0	0.0	0.0		100	19	
82- 0- 0	15655	82.0	0.0	0.0		100	19	
82- 0- 0	15657	82.0	0.0	0.0		100	19	
82- 0- 0	15659	82.0	0.0	0.0		100	19	
82- 0- 0	15663	82.0	0.0	0.0		100	19	
82- 0- 0	16259	82.0	0.0	0.0		100	19	
82- 0- 0	16260	82.0	0.0	0.0		100	19	
82- 0- 0	16262	82.0	0.0	0.0		100	19	
82- 0- 0	16270	82.0	0.0	0.0		100	19	
82- 0- 0	16273	82.0	0.0	0.0		100	19	
82- 0- 0	16277	82.0	0.0	0.0		100	19	
82- 0- 0	16282	82.0	0.0	0.0		100	19	
82- 0- 0	16297	82.0	0.0	0.0		100	19	
82- 0- 0	16304	82.0	0.0	0.0		100	19	
W.R. GRACE + CO., W KY LIQ FER		BOWLING GREENKY.		POT	XS CL	RV	PHYS	
GRADE	NUM	N	APA					
4-12-24M	14599	4.2	12.3	25.4		104	10	
5-15-15M	15543	5.7	15.1	14.3*		103	10	
6-18- 6M	15540	6.2	18.9	5.4*		103	10	
6-18- 6M	16162	6.2	18.9	5.8		104	10	
6-20-10M	15542	7.0	21.6	9.9		109	10	
9-10-15S	14598	10.0	10.2	15.4		106	10	
9-27- 0	14597	8.9	28.4	0.0		103	10	
9-27- 0	15541	8.9	27.4	0.0		101	10	
W.R. GRACE + CO., W KY LIQ FER		GUTHRIE KY.		POT	XS CL	RV	PHYS	
GRADE	NUM	N	APA					
4-12-24M	15115	4.1	12.5	24.9		104	10	
W.R. GRACE + CO., W KY LIQ FER		HOPKINSVILLE KY.		POT	XS CL	RV	PHYS	
GRADE	NUM	N	APA					
4-12-24M	13066	4.5	13.9	23.1*		107	10	
4-12-24M	15135	4.0	12.2	24.5		102	10	
5-15-10M	15138	5.2	15.5	10.4		103	10	
5-15-15M	15131	5.1	15.2	16.3		103	10	
5-15-15M	15136	4.9	15.0	17.0		103	10	
5-15-15M	16290	5.2	15.2	15.1		102	10	
5-15-15M	16292	5.1	14.9	15.2		100	10	
5-15-15M	16293	5.4	15.8	14.9		104	10	
5-15-20M	15130	5.1	14.5*	20.7		100	10	
5-15-20M	15137	4.9	14.7	21.6		101	10	
6-12-18M	16289	5.8	11.6*	20.9		102	10	
6-18-12M	15133	5.9	18.3	12.5		101	10	
6-18-12M	16294	5.7*	17.1*	11.0*		94*	10	
6-18-18M	15134	6.3	17.9	18.2		101	10	
7-14- 7M	13065	7.0	14.9	6.3*		102	10	
7-14-14M	15139	8.7	14.6	14.3		110	10	
9-10-15NIT	15132	9.2	9.4*	16.1		101	10	
9-10-15NIT	16288	9.3	11.0	18.4		110	10	
10-20-10NIT	16291	10.2	20.9	9.9		103	10	
13- 0-44NIT	15140	13.6	0.0	44.2		102	11	
30- 0- 0	12984	29.9	0.0	0.0		99	19	
30- 0- 0	13060	35.0	0.0	0.0		117	19	
30- 0- 0	13668	30.9	0.0	0.0		103	19	
GREEN BELT CHEMICAL CO.		SPRINGFIELD OHIO		POT	XS CL	RV	PHYS	
GRADE	NUM	N	APA					
10- 6- 4M	14600	10.0	6.5	4.1		103	13	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

GREEN VALLEY FARM SUPPLY		ISLAND		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-60M	15584	0.0	0.0	61.4			102	15
0-15-40M	14914	0.0	15.2	40.5			101	23
0-46- 0	15582	0.0	46.3	0.0			101	15
0-46- 0	15583	0.0	44.5*	0.0			97*	15
5-10-15M	14917	5.5	10.6	14.2*			104	15
5-20-20M	15579	5.5	19.3*	20.7			101	15
5-20-20M	14915	4.8	17.5*	23.0			97*	23
5-20-20M	14918	4.0*	16.3*	22.0			89*	23
6-26-26M	14916	7.1	29.7	21.8*			107	23
10-10-10M	15580	9.8	10.3	11.3			102	15
18-46- 0	15585	18.7	47.4	0.0			103	15
33- 0- 0	15581	34.2	0.0	0.0			102	15
GR0-GREEN CHEMICAL CO., INC.		SHELBYVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-10-30M W/B	15245	0.0	7.0*	35.1			98	23
0-10-30M W/B	14480	0.0	12.0	27.9*			104	26
0-10-30M W/B	14731	0.0	8.2*	21.5*			76*	26
0-20-20M W/B	15251	0.0	17.0*	23.8			96*	11
2-17-28M	15999	2.6	19.6	26.9*			101	15
3-12-12M	15247	2.3*	12.6	9.6*			92*	13
4-16- 4S	13938	4.4	16.7	5.1	*		108	15
5- 7- 9M	14735	5.7	10.8	10.5			120	26
5-10-15S	15243	5.4	10.4	14.6			103	11
5-10-15S	15803	5.3	10.4	14.2*			101	13
5-10-15S	13599	5.1	10.0	15.1			101	15
5-10-15S	15506	4.7*	10.3	14.8			99	15
5-10-15S	15996	5.3	9.9	15.2			102	15
5-10-15S	14478	4.9	10.3	15.4			101	16
5-20-20M	15250	5.4	20.9	18.7*			102	13
5-20-20M	14434	5.2	21.6	19.1*			104	14
5-20-20M	13939	5.0	18.2*	22.2			98	15
5-20-20M	15997	4.5*	14.3*	20.2			83*	15
5-20-20M W/B	14481	4.7	21.3	18.4*			100	15
5-20-20M W/B	14479	5.1	19.3*	20.0			99	26
6- 8-12S	15993	6.0*	6.7*	12.3			89*	15
7-11-13S	15509	6.7*	15.2	13.0*			109	15
7-13-15S	15998	7.9	15.4	15.3			110	15
7-14-14S	15511	6.6*	14.3	13.2*			95*	15
8-10-15S	14180	7.4*	13.8	16.0	*		112	15
8-10-15S	14266	7.9	9.9	14.9			99	15
8-10-15S	15995	7.9	9.2*	15.0			97*	15
8-12-15S W/ME	15211	8.0	13.6	14.6*			104	13
8-12-15S W/ME	15244	7.7*	10.9*	16.1			97*	13
8-12-15S W/ME	15802	8.0	12.8	15.2			103	13
8-12-15S W/ME	15507	7.6*	12.7	14.3*			99	15
8-24-10S	15804	8.0	18.3*	10.8	*		87*	15
8-24-10M W/ME	15246	8.6	22.8*	10.8			100	13
9- 9-21M	15508	8.6*	9.6	19.7*			93*	15
9- 9-21M	15510	7.0*	9.8	25.0			94*	15
10-10-10M	15248	9.8	9.7	10.4			99	13
10-10-10M	13598	9.9	10.9	11.4			105	15
10-10-10M	14264	9.0*	10.7	9.7			97*	15
10-10-10M	14265	9.9	9.5*	10.2			98	15
10-10-10M	14736	9.6*	10.3	10.2			99	15
10-10-10M	15994	9.4*	10.6	10.5			100	15
10-10-10M	14855	9.0*	11.7	11.1			103	16
12-12-12M	15249	11.6*	12.6	12.4			101	13



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

GRO-GREEN CHEMICAL CO., INC.		SHELBYVILLE KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
12-12-12M	13316	11.4*	13.0	13.0		102	14
12-12-12M	14433	11.1*	12.1	11.7		96*	16
13- 6-16M	14732	15.1	4.4*	27.9		116	23
22- 0-30M	14733	21.3*	0.0	31.3		98	26
22- 0-30M	14737	17.5*	0.0	34.3		89*	26
22- 7-20M	14734	22.5	12.1	15.1*		104	26
GRO-GREEN SALES CO., LEBANON		SHELBYVILLE KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-22-29M W/B	14431	0.0	22.5	30.4		102	26
0-26-25M	14432	0.0	23.9*	30.8		102	26
4-19-19M W/B	14429	5.0	21.6	17.8*		104	13
5-11-43M	14430	6.9	12.8	41.3*		109	26
5-20-20M	13313	5.1	22.6	16.9*		103	14
8-10-15S	13314	7.4*	11.0	15.5		101	13
8-12-15S	13315	7.8	11.7	14.2*		97*	14
GULF OIL CORP., AGRI CHEM DIV		CECILIA KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-20- 0	13817	0.0	19.9	0.0		100	15
0-24-24M W/B	14588	0.0	25.7	23.6*		103	14
3-12-12M	14591	4.0	13.2	12.1		112	13
4-12- 8M	14590	4.9	12.6	7.5*		108	12
4-12- 8M	13818	4.2	12.9	8.6		107	13
4-12- 8M	15424	4.7	11.8	10.4		109	16
5-10-15S	15707	5.8	9.6*	17.8		108	11
5-10-15S	14593	5.6	10.5	16.0		107	13
5-10-15S	15423	5.6	10.8	15.9		108	13
5-10-15S	15425	5.8	10.6	15.8		109	14
5-20-20M	13821	5.1	17.1*	24.9		99	13
5-20-20M	15708	5.3	20.3	20.0		102	13
5-20-20M	14589	5.9	18.4*	19.6		99	14
5-20-20M	15837	5.6	19.9	20.4		102	15
5-20-20M	15426	5.3	19.4*	21.0		101	16
6-12-12M	15427	6.2	11.6*	15.1		105	16
6-12-18S	14594	7.2	13.4	16.6*		108	15
6-12-18S	15838	7.1	12.8	17.0*		107	15
6-24-12M	15709	6.1	24.6	12.2		102	13
6-24-12M	15839	6.1	24.7	12.1		102	15
7-10-11S	15711	8.1	10.4	12.3		107	14
8-10-15S	15700	7.7*	10.6	15.0		100	13
8-10-15S	15706	7.8	9.8	17.2		102	13
8-10-15S	14592	8.7	11.0	14.5*		106	15
8-10-15S	15840	8.6	11.0	14.3*		105	15
10-10-10M	13820	10.6	10.7	11.6		108	13
10-10-10M	15710	10.4	10.1	11.5		105	14
10-10-10M	14587	10.7	10.6	11.6		108	16
10-10-10M	15428	10.9	10.2	11.4		108	16
12-12-12M	13819	11.9	13.2	12.5		104	13
12-12-12M	14595	12.2	13.3	12.2		105	15
GULF OIL CORP., AGRI CHEM DIV		CLARKSON KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
4-12- 8M	16169	5.0	12.9	8.5		112	14
5-20-20M	16172	5.2	20.0	20.2		101	16
6-12-12M	16171	6.5	11.3*	13.5		103	14
8- 8-13S	16167	9.1	9.1	13.7		106	24
8-11- 8S	16165	8.7	11.9	8.4		105	24
9-16- 0	15906	10.0	16.0	0.0		105	26
11-15-16S	16166	12.1	15.7	15.4*		103	24

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

GULF OIL CORP., AGRI CHEM DIV		CLARKSON		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
13-13-13M	16168	14.2	13.6	13.8			101	24
13-13-13M	16173	14.1	13.8	14.2			101	26
14-14-14M	15907	14.1*	15.7	15.5			101	26
GULF OIL CORP., AGRI CHEM DIV		CLAY		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-23-28M	15006	0.0	27.0	26.7*			105	26
4-10-15M	13245	4.4	10.8	16.0			108	14
4-19-19M	15007	5.5	19.3	21.2			104	26
5-10-15S	13244	5.1	10.3	13.9*	*		99	14
5-20-20M	13241	5.5	19.6	21.2			103	16
5-20-30M	13242	5.1	19.0*	30.0			98	16
5-20-30M	15004	5.1	20.1	30.5			101	16
6-18-12M	13243	6.7	17.6	13.9			105	16
12-12-12M	13240	12.6	13.8	12.0			107	16
GULF OIL CORP., AGRI CHEM DIV		HARTFORD		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-15-40M	16176	0.0	13.2*	43.7			99	26
5-20-20M	16174	5.6	19.3*	22.1			103	16
5-20-20M	16175	5.8	19.4*	21.9			104	16
8-8-13S	16177	8.8	9.5	14.4			107	23
GULF OIL CORP., AGRI CHEM DIV		HENDERSON		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-20-20M	14680	0.0	16.1*	20.5			88*	15
0-46-0	15888	0.0	46.1	0.0			100	15
0-47-0	16183	0.0	47.4	0.0			101	15
4-10-15M W/ME	15944	4.2	9.1*	16.1			100	13
4-10-15M W/ME	15467	4.4	9.7*	17.8			107	15
4-10-15M W/ME	15882	4.6	12.6	13.8*			112	15
4-10-15M W/ME	16311	4.1	10.7	22.0			119	15
5-10-15S	15943	5.1	11.2	19.5	*		114	11
5-10-15S	16179	5.8	10.8	15.4	*		109	11
5-10-15S	15908	5.7	9.6*	17.6			108	12
5-10-15S	14923	5.4	12.9	9.9*			104	13
5-10-15S	14958	5.8	10.9	14.7			108	13
5-10-15S	15774	5.9	10.5	14.5*			106	13
5-10-15S	15005	5.9	10.6	15.4			109	15
5-20-20M	15000	5.2	20.3	21.2			103	13
5-20-20M	13233	5.6	22.1	17.8*			105	15
5-20-20M	14924	6.1	24.5	13.8*			108	15
5-20-20M	14959	5.5	20.1	23.7			107	15
5-20-20M	15775	5.8	19.4*	21.7			104	15
5-20-20M	15776	5.6	19.2*	29.8			113	15
5-20-20M	15879	5.4	20.1	21.7			104	15
5-20-20M	15883	5.6	21.9	19.9			107	15
5-20-20M	15884	5.3	21.6	27.6			116	15
5-20-20M	15885	5.8	19.6	22.4			105	15
5-20-20M	15887	5.6	22.1	19.3*			107	15
5-20-20M	15942	5.5	19.7	22.3			104	15
5-20-20M	16180	5.7	16.9*	24.2			100	15
5-20-20M	16310	5.6	19.9	21.8			104	15
5-20-20M	15468	5.9	21.6	19.5*			107	16
5-20-30M	14999	5.1	19.8	30.5			100	13
5-20-30M	14925	5.7	20.1	28.9*			102	15
5-20-30M	15876	5.5	21.4	28.4*			103	15
5-20-30M	15877	5.5	23.5	25.8*			105	15
5-20-30M	15878	5.0	19.6*	30.8			100	15
5-20-30M	15886	5.4	21.3	28.7*			103	15



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-20-30M	15940	5.1	20.6	31.1		103	15
5-20-30M	16312	6.3	19.7	26.3*		100	15
5-20-30M	16178	5.0	19.3*	30.7		99	16
6-12-12M	14681	6.0	10.0*	18.1		104	15
6-18-12M	14682	6.9	17.6*	13.7		105	15
6-18-12M	15909	6.8	18.0	13.0		105	16
7-28-14M	15881	7.8	28.4	13.1*		103	15
10-10-10M	14683	10.8	10.4	10.0		105	15
10-10-10M	14927	10.6	10.6	10.8		106	15
10-10-10M	14960	10.5	10.7	10.8		106	15
10-10-10M	16313	11.0	11.7	11.9		114	15
10-10-10M	15469	6.8*	21.5	14.8		130	16
10-10-10M	15910	8.5*	14.8	16.2		119	16
10-10-10M	16182	10.6	10.3	10.5		105	17
12-12-12M	15939	11.7	11.0*	14.5		99	13
12-12-12M	14926	12.0	14.5	11.7		107	15
12-12-12M	16331	12.0	12.7	13.4		104	16
18-46- 0	15880	18.0	47.0	0.0		102	15
28- 0- 0	12981	28.5	0.0	0.0		102	19
28- 0- 0	13764	27.3*	0.0	0.0		97*	19
GULF OIL CORP., AGRI CHEM DIV		HENDERSON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
28- 0- 0	13058	28.1	0.0	0.0		100	19
28- 0- 0	15723	27.1*	0.0	0.0		97*	19
30- 0- 0	14307	30.9	0.0	0.0		103	19
30- 0- 0	15603	30.2	0.0	0.0		101	19
30- 0- 0	16161	32.9	0.0	0.0		110	19
30- 0- 0	16315	30.5	0.0	0.0		102	19
33- 0- 0	15008	34.1	0.0	0.0		102	16
82- 0- 0	15642	82.0	0.0	0.0		100	19
82- 0- 0	15645	82.0	0.0	0.0		100	19
82- 0- 0	15646	82.0	0.0	0.0		100	19
82- 0- 0	15648	82.0	0.0	0.0		100	19
82- 0- 0	15650	82.0	0.0	0.0		100	19
82- 0- 0	15654	82.0	0.0	0.0		100	19
82- 0- 0	16253	82.0	0.0	0.0		100	19
82- 0- 0	16254	82.0	0.0	0.0		100	19
82- 0- 0	16257	82.0	0.0	0.0		100	19
82- 0- 0	16258	82.0	0.0	0.0		100	19
82- 0- 0	16265	82.0	0.0	0.0		100	19
82- 0- 0	16268	82.0	0.0	0.0		100	19
82- 0- 0	16296	82.0	0.0	0.0		100	19
GULF OIL CORP., AGRI CHEM DIV		KANSAS CITY		MO.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
6-24-12M W/ME	15938	6.3	23.7	11.9		100	15
6-24-24M	13232	5.9	24.0	24.5		100	15
6-24-24M	15198	6.4	23.8	25.3		102	15
6-24-24M	15470	6.2	23.7	24.1		100	15
6-24-24M	15773	6.7	24.4	23.1*		102	15
6-24-24M	15941	6.4	24.1	23.5*		101	15
6-24-24M	16314	6.5	24.2	23.9		102	15
6-24-24M	16042	5.7	23.1*	24.3		97*	25
30-10- 0	13455	30.3	9.8	0.0		100	17
33- 0- 0	13567	33.8	0.0	0.0		101	17
GULF OIL CORP., AGRI CHEM DIV		MADISONVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
18-46- 0	15778	18.3	46.7	0.0		102	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

GULF OIL CORP., AGRI CHEM DIV		MORGANFIELD		KY.		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT					
6-9-0	16217	5.9	9.3	0.0				101	19
6-18-6M	16218	7.0	17.7	8.0				107	19
9-9-9M	16216	10.0	9.1	9.9				108	19
10-8-6M	15013	10.1	7.9	6.6				101	19
GULF OIL CORP., AGRI CHEM DIV		OWENSBORO		KY.		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT					
5-10-15S	14933	5.5	10.6	15.9				108	13
10-10-10M	14934	12.5	9.5*	8.4*				108	23
GULF OIL CORP., AGRI CHEM DIV		STURGIS		KY.		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT					
4-19-19M	15199	5.5	18.7	20.9				105	13
17-17-22M	15197	20.1	16.4*	21.5*				104	26
HOPKINS COUNTY FARM SERVICE		MADISONVILLE		KY.		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT					
0-0-60M	13186	0.0	0.0	61.6				103	16
0-46-0	13187	0.0	47.1	0.0				103	18
5-20-30M	16309	5.1	19.8	31.3				102	26
18-46-0	13184	18.3	44.0*	0.0				98	16
18-46-0	15763	18.2	45.7	0.0				100	16
33-0-0	13185	33.7	0.0	0.0				101	18
HOWE-HILLIARD GRAIN CO.		MAYFIELD		KY.		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT					
0-46-0	16049	0.0	44.3*	0.0				96*	17
6-24-24M	12962	6.5	22.7*	24.0				99	16
16-48-0	12963	15.9	46.7*	0.0				98	16
18-46-0	12961	18.1	47.2	0.0				102	16
18-46-0	12964	17.9	46.9	0.0				101	16
HUTSON CHEMICAL COMPANY		MURRAY		KY.		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT					
0-0-60M	15325	0.0	0.0	61.4				102	15
0-26-30M	14980	0.0	25.6	31.7				101	26
0-51-0	15041	0.0	50.6	0.0				99	14
0-52-0	13161	0.0	51.6	0.0				99	15
0-52-0	14653	0.0	51.4	0.0				99	15
5-10-15S	15059	5.7	11.3	15.4		*		110	11
5-17-24S	16032	9.1	15.4*	22.9*				107	25
5-20-20M	15057	5.4	20.4	18.5*				101	13
5-20-20M	15748	5.2	20.7	20.0				102	15
5-20-20M	16030	5.2	21.1	20.2				104	15
5-27-18M	16031	4.3*	34.5	17.1*				110	25
6-12-12M	13720	5.8	13.5	12.0				104	11
6-12-12M	15056	6.0	13.1	13.4				107	15
6-20-19S	16034	12.7	25.3	19.9				134	25
11-17-20M	15053	12.5	17.6	18.7*				104	26
11-22-22S	16033	9.7*	16.0*	28.8				90*	25
14-14-14M	15058	14.1	14.2	15.2				102	17
14-23-15S	15055	15.6	25.2	14.7*				105	26
14-24-16S	16035	15.7	29.1	11.6*				108	25
15-15-15M	15060	14.3*	14.3*	17.4				99	15
16-0-30M	15054	16.9	0.0	30.6				101	26
16-16-16M	16066	16.2	15.9	16.4				101	17
30-0-0	12965	29.5	0.0	0.0				98	19
30-0-0	12966	29.9	0.0	0.0				100	19
INTERNATIONAL MIN + CHEM CORP		CHICAGO		ILL.		XS	CL	RV	PHYS
GRADE	NUM	N	APA	POT					
82-0-0	16306	82.0	0.0	0.0				100	19



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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
0-10-30M	16096	0.0	9.1*	34.9			106	23
0-20- 0	13369	0.0	18.3*	0.0			92*	15
0-20- 0	14799	0.0	20.0	0.0			100	15
0-20- 0	15079	0.0	20.1	0.0			100	15
0-20- 0	15284	0.0	19.8	0.0			99	15
0-20- 0	16107	0.0	20.1	0.0			100	15
0-20-20M	15281	0.0	19.4*	19.6			97*	15
0-20-20M	15291	0.0	19.1*	19.8			97*	15
0-20-20M	15350	0.0	18.7*	21.8			99	15
0-20-20M W/B	15335	0.0	16.7*	23.1			94*	13
3-12-12M	13368	5.4	12.2	12.5			118	17
4-12- 8M	13008	3.7	13.2	10.0			108	15
4-12- 8M	13015	4.0	11.9	11.4			107	15
4-12- 8M	13916	2.7*	14.2	9.3			104	15
4-12- 8M	14291	4.4	12.4	8.9			106	15
4-12- 8M	14387	4.4	12.5	8.4			106	15
4-12- 8M	16103	3.9	12.4	8.1			101	15
4-16- 4M	13915	4.4	14.2*	5.7			99	13
4-16- 4S	13370	4.1	15.3*	4.8			100	13
4-16- 4S	13371	4.3	14.9*	4.8			99	13
4-16- 4S	13792	4.2	15.4*	5.1			101	13
5-10-10M	13326	4.2*	12.0	12.8			110	15
5-10-10M	13595	5.0	9.6*	12.2			103	15
5-10-10M W/B	13597	5.1	9.7	10.2			100	15
5-10-15S	13009	5.0	10.6	15.3	*		103	15
5-10-15S	13013	5.2	9.4*	14.9			98	15
5-10-15S	13100	4.9	9.1*	14.7			95*	15
5-10-15S	13101	4.9	9.1*	14.9			95*	15
5-10-15S	13896	4.9	9.2*	14.9			96*	15
5-10-15S	13897	4.8	9.2*	14.5*			95*	15
5-10-15S	13917	5.2	10.4	14.2*	*		101	15
5-10-15S	15075	5.1	9.7*	15.1			99	15
5-10-15S	15292	4.9	9.9	15.6			100	15
5-10-15S	15333	5.1	9.9	14.9			100	15
5-10-15S	15334	5.3	10.1	15.9			104	15
5-10-15S	16011	5.3	10.1	14.8			102	15
5-10-15S	16093	5.2	10.1	16.4	*		104	15
5-10-15S	16104	5.4	9.5*	14.9	*		100	15
5-10-15S	13364	5.2	9.9	14.8	*		100	17
5-10-15S	13366	4.8	9.8	14.9	*		98	17
5-10-15S W/ME	15285	5.2	9.9	15.5			102	15
5-10-15S W/ME	15339	5.1	9.7	15.7			101	15
5-10-15S W/ME	15988	5.2	9.4*	15.9			100	15
5-20-20M	13014	5.0	19.0*	20.2			98	15
5-20-20M	13918	4.9	19.4*	19.9			98	15
5-20-20M	14292	5.3	18.9*	17.9*			95*	15
5-20-20M	15282	5.1	19.9	19.9			100	15
5-20-20M	15293	5.2	18.7*	19.1*			96*	15
5-20-20M	16105	5.1	19.4*	20.1			99	15
5-20-20M	13367	4.9	19.1*	20.7			98	17
5-20-20M W/ME	15337	4.9	20.0	19.6			99	15
5-20-20M W/ME	16097	4.9	20.4	18.4*			99	15
6- 6-18S	14373	6.8	6.7	18.4			109	15
6- 6-18S	13362	6.3	6.4	17.6			103	17
6- 8- 6S	13363	6.9	8.8	6.7			113	17
6-12-12M	16106	6.3	11.8	13.7			104	15
6-12-18S	13594	4.6*	12.1	19.6			96*	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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	POT	XS CL	RV	PHYS
6-12-18S	13794	4.8*	11.9	19.4		96*	15
6-12-18S W/ME	15076	4.9*	12.0	19.1		96*	15
6-12-18S W/ME	15340	6.3	11.9	18.2		102	15
6-12-18S W/ME	15987	5.9	12.1	18.1		100	15
6-24-24M W/ME	15341	6.0	21.3*	22.8*		93*	15
6-24-24M W/ME	16094	5.8	22.8*	23.9		97*	15
8-10-15S	13593	7.4*	9.9	16.7	*	99	15
10-10-10M	13007	9.8	10.3	10.5		101	15
10-10-10M	13596	9.8	10.2	10.7		101	15
10-10-10M	13919	9.8	10.2	11.2		102	15
10-10-10M	14280	9.8	10.5	10.3		101	15
10-10-10M	15077	9.8	10.2	11.0		101	15
10-10-10M	15283	10.1	10.6	10.6		103	15
10-10-10M	15336	10.1	16.1	9.9		121	15
10-10-10M	16012	11.6	12.6	12.4		120	15
10-10-10M	13365	10.3	10.0	10.7		103	17
10-10-10M W/ME	16098	9.9	10.1	10.6		101	15
10-20-20M	14279	12.3	17.5*	15.8*		98	15
12-12-12M	13327	11.3*	12.7	12.1		99	15
12-12-12M	15078	11.7	13.0	11.6*		101	15
12-12-12M	15338	11.9	12.7	11.3*		101	15
12-12-12M	16029	11.1*	12.5	12.5		98	15
12-12-12M	16095	11.8	13.1	12.7		103	15
16- 8- 8M	13793	15.0*	8.1	9.2		98	15
82- 0- 0	15379	82.0	0.0	0.0		100	19
INTERNATIONAL MIN +	CHEM CORP	CLARKSVILLE	TENN				
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0- 0-50S	15795	0.0	0.0	45.7*		91*	15
0-20- 0	13524	0.0	20.1	0.0		101	11
0-20- 0	15796	0.0	19.3*	0.0		97*	11
0-20-20M	15102	0.0	16.7*	24.2		96*	26
4-12- 8M	15917	4.2	11.2*	10.3		103	11
4-16- 4S	13523	4.4	17.3	11.1	*	123	11
4-16- 4S W/ME	14228	4.6	16.0	6.5	*	109	13
4-16- 4S W/ME	15328	4.3	16.3	4.5		104	23
4-19-19M W/B	16159	4.4*	21.5	19.4		106	15
5-10-10M	15329	4.0*	9.4*	9.3*		90*	25
5-10-15S	15472	5.9	11.1	14.5*		109	11
5-10-15S	14320	4.7*	10.5	14.6		99	13
5-10-15S	15104	4.9	10.5	14.8		101	13
5-10-15S	15743	5.1	9.4*	16.0		100	13
5-10-15S	15789	6.2	10.8	13.6*	*	107	13
5-10-15S	15790	5.3	9.9	14.9		101	13
5-10-15S	13751	4.8	10.1	15.7	*	100	14
5-20-20M	15473	5.7	16.9*	21.3		96*	13
5-20-20M	16157	5.2	18.7*	20.9		98	13
5-20-20M	13755	4.8	16.6*	23.9		95*	14
5-20-20M	15100	4.6*	19.8	20.9		99	15
5-20-20M	15742	6.2	19.6	18.9*		102	15
5-20-20M	15791	5.3	20.0	19.2*		100	15
5-20-20M	15101	4.7*	21.2	19.9		102	16
6-12-12M	15330	5.9	12.2	13.1		102	13
6-12-12M	15741	6.0	12.4	12.4		102	13
6-12-12M	15792	5.8	12.3	12.1		100	13
6-12-12M	15793	5.5*	12.1	13.0		99	13
6-12-12M	15918	6.2	12.4	11.9		102	13
6-12-12M	15920	5.7	12.4	12.9		101	13



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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			
6-12-12M	12978	5.8	12.1	11.9		99	15
6-12-12M	16158	6.0	11.9	12.1		100	15
6-12-12M	13756	5.1*	11.8	13.4		97*	16
10-10-10M	15474	9.7	11.5	9.5*		103	13
10-10-10M	15794	8.4*	12.0	11.4		101	13
10-10-10M	15919	9.9	9.7	11.2		100	15
10-10-10M	13753	9.4*	9.5*	11.1		97*	16
10-10-10M	15331	8.8*	12.2	10.7		102	23
10-10-10M	15103	9.3*	10.5	11.0		100	25
15-15-15M	15744	14.0*	14.1*	16.1		96*	15
INTERNATIONAL MIN + CHEM CORP		FLORENCE ALA.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
15-15-15M	15099	14.7	14.8	16.3		100	15
15-15-15M	13752	14.8	15.2	15.7		101	18
INTERNATIONAL MIN + CHEM CORP		GREENEVILLE TENN			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
5-10- 5M	14845	5.1	9.8	10.3		113	11
5-10-10M	14846	5.2	10.2	9.6*		101	11
INTERNATIONAL MIN + CHEM CORP		SKOKIE ILL.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0- 0-22S	14329	0.0	0.0	22.2		101	15
0- 0-50S	13852	0.0	0.0	50.8		102	11
0- 0-50S	13811	0.0	0.0	49.9		100	15
0- 0-50S	14317	0.0	0.0	50.4		101	15
0- 0-50S	14464	0.0	0.0	50.1		100	15
0- 0-60M	13851	0.0	0.0	60.6		101	15
0- 0-60M	14267	0.0	0.0	61.0		102	15
0-46- 0	16027	0.0	45.2*	0.0		98	15
33- 0- 0	15332	33.6	0.0	0.0		100	17
INTERNATIONAL MIN + CHEM CORP		SOMERSET KY.			XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-20- 0	13573	0.0	18.5*	0.0		92*	11
0-20- 0	14763	0.0	20.2	0.0		101	11
0-20- 0	15260	0.0	19.6	0.0		98	11
0-20-20M	13499	0.0	18.1*	21.9		97*	11
0-20-20M	13568	0.0	18.8*	19.2*		95*	11
0-20-20M	14790	0.0	19.7	20.1		99	11
0-20-20M	12955	0.0	21.0	19.6		103	13
0-20-20M	14364	0.0	19.7	18.7*		97*	13
0-20-20M	14534	0.0	20.0	20.8		101	21
0-20-20M	15538	0.0	19.0*	21.8		100	15
3-12-12M	14791	3.3	11.8	13.2		104	11
4-12- 8M	13994	4.1	12.3	9.8		106	11
4-12- 8M	14363	4.5	11.6*	10.1		107	11
4-12- 8M	15259	4.4	14.5	13.3		126	11
4-12- 8M	14789	5.0	11.3*	9.6		107	13
4-12- 8M	15093	4.3	11.9	9.5		105	15
5-10- 5M	12956	5.7	10.2	6.6		110	11
5-10- 5M	13569	5.6	9.4*	6.8		106	13
5-10- 5M	15954	5.6	8.1*	5.9		97*	13
5-10-10M	12957	5.3	10.0	12.2		107	13
5-10-10M	13570	5.3	11.7	11.8		113	13
5-10-10M	15955	7.2	9.3*	17.2		128	23
5-10-15M/S	15536	5.3	10.1	15.7		104	13
5-10-15S	14543	5.7	10.4	14.8		105	11
5-10-15S	14786	4.9	9.5*	16.8		101	13
5-10-15S	14366	5.2	9.6*	14.8		99	15

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

INTERNATIONAL MIN		+	CHEM CORP	SOMERSET		KY.			
GRADE			NUM	N	APA	POT	XS CL	RV	PHYS
5-10-15S	W/ME		14766	5.3	10.0	16.0		104	13
5-10-15S	W/ME		15534	5.0	10.9	14.6*	*	103	15
5-20-20M			14533	5.3	18.1*	22.0		99	11
5-20-20M			13497	5.0	17.5*	21.8		96*	13
5-20-20M			13996	4.6*	20.7	20.4		101	13
5-20-20M			14545	5.2	17.8*	21.0		96*	13
5-20-20M			14764	5.1	20.2	20.1		101	13
5-20-20M			14784	2.9*	22.2	17.5*		94*	13
5-20-20M			14365	5.3	18.8*	21.8		101	15
6-12-12M			12958	6.0	11.9	13.2		102	13
6-12-12M			13498	5.7	12.7	13.1		103	13
6-12-12M			13571	5.9	12.3	12.4		101	13
6-12-12M			14788	6.7	11.0*	11.2*		98	13
6-12-12M			15956	6.2	12.6	13.0		105	15
6-12-18S	W/ME		14787	6.1	12.7	17.9		102	15
6-18-12M			15080	6.2	16.8*	12.7		98	13
10-10-10M			13496	9.5*	10.1	11.2		100	11
10-10-10M			13997	10.3	10.0	9.2*		100	11
10-10-10M			14367	9.9	10.5	10.7		102	11
10-10-10M			14544	9.9	10.5	10.6		102	11
10-10-10M			14765	9.9	10.4	10.4		101	11
10-10-10M			13572	10.0	10.3	10.3		101	13
10-10-10M			13995	9.3*	10.5	10.3		99	13
10-10-10M			14785	9.7*	10.3	11.0		101	13
10-10-10M			15537	9.6*	10.3	11.1		101	13
10-10-10M			12959	11.6*	11.9	12.9		99	15
12-12-12M			15957	11.5*	12.7	12.3		100	15
12-12-12M			15960	11.2*	13.6	12.5		102	15
JAMES KARNES				CANE VALLEY		KY.			
GRADE			NUM	N	APA	POT	XS CL	RV	PHYS
5-20-20M			14437	5.3	19.0*	20.9		100	26
10-10-10M			14438	9.3*	11.4	10.8		103	26
KENCO FERTILIZER COMPANY				HORSE CAVE		KY.			
GRADE			NUM	N	APA	POT	XS CL	RV	PHYS
0-20-20M			14114	0.0	20.2	22.0		104	25
0-26-26M			15524	0.0	28.2	23.5*		102	25
4- 9-18S			16143	5.5	9.4	17.8*		106	26
4-12- 8M			14113	4.8	13.7	8.4		114	25
4-16- 4S			14222	4.8	16.5	3.0*		105	25
4-16- 4S			14227	4.8	15.9	2.6*		101	25
10-10-10M			14112	11.0	11.2	10.4		110	25
12-16-23S			16145	12.5	15.9	23.3*		100	26
15-15-15S			16142	16.5	16.8	14.6*		108	25
17-17-17M			14567	15.7*	15.3*	20.9		97*	26
17-17-18M			16144	18.0	17.5	19.2		101	26
KENGAS CORPORATION				OWENSBORO		KY.			
GRADE			NUM	N	APA	POT	XS CL	RV	PHYS
4-11-11M			14929	4.4	11.3	10.7		104	19
4-11-11M			15601	4.4	11.1	10.8		103	19
11-37- 0			14931	11.4	37.5	0.0		102	19
28- 0- 0			14930	28.4	0.0	0.0		102	19
37- 0- 0			15602	37.0	0.0	0.0		100	19
KENTUCKY FERTILIZER WORKS				WINCHESTER		KY.			
GRADE			NUM	N	APA	POT	XS CL	RV	PHYS
0- 0-50S			13279	0.0	0.0	50.6		101	11
0- 0-60M			13280	0.0	0.0	60.7		101	15
0-20- 0			15639	0.0	19.9	0.0		100	11



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

KENTUCKY FERTILIZER WORKS		WINCHESTER			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-20-20M	14703	0.0	19.3*	20.2		98	11
0-20-20M	15068	0.0	19.3*	21.8		101	11
0-20-20M	15631	0.0	19.8	21.8		102	11
4- 4-18S	16018	4.6	4.4*	18.8		97*	12
4- 4-18S	16023	5.5	5.0	20.1		109	12
4-12- 8M	13432	4.0	11.7	9.8		102	11
4-12- 8M	15632	4.5	10.8*	8.5		99	11
4-12- 8M	16135	4.1	11.7	8.7		100	11
4-16- 4S	13433	3.9	15.4*	4.5		98	11
4-16- 4S	13434	3.9	16.0	5.0		101	11
5-10-10M	14552	5.1	9.6*	10.9		101	11
5-10-10M	15069	5.0	10.2	10.4		102	11
5-10-10M	16136	5.1	10.4	10.1		103	11
5-10-15S	13435	4.9	10.2	15.5		101	11
5-10-15S	14553	4.9	10.2	15.4		101	11
5-10-15S	14702	5.1	9.8	14.9		100	11
5-10-15S	15070	5.2	10.0	15.4		102	11
5-10-15S	15549	4.9	9.9	15.8		101	11
5-10-15S	15629	5.2	9.8	15.4		101	11
5-10-15S	15633	5.1	10.2	15.2		102	11
5-10-15S	16137	4.8	10.1	14.9		99	11
5-20-20M	14506	5.7	18.8*	21.3		101	11
5-20-20M	14972	4.9	19.7	19.7		98	11
5-20-20M	15634	5.2	19.5*	21.6		101	11
6- 6-17S	16017	6.4	7.2	16.8*		106	12
6- 6-17S	16020	5.9	5.5*	19.9		102	12
6- 6-18S	13693	6.2	6.7	17.4*		103	11
6- 6-18S	14554	6.5	6.8	16.9*		104	11
6- 6-18S	14705	6.1	6.1	19.1		103	11
6- 6-18S	15635	6.5	6.1	18.0		103	11
6- 6-18S	16021	6.2	6.2	18.4		103	12
6- 6-18S	16022	5.9	5.9	19.0		101	12
6- 8- 6S	14555	5.9	9.7	7.1		111	11
6- 8- 6S	15071	6.4	8.6	6.0		106	11
6- 8- 6S	15636	6.2	7.9	6.8		103	11
8-10-15S	14391	8.0	10.1	15.5		101	11
8-10-15S	16019	7.6*	9.5*	14.8		96*	12
10-10-10M	13436	9.1*	10.9	10.7		100	11
10-10-10M	14704	10.4	9.6*	10.4		102	11
10-10-10M	15550	10.4	9.9	10.5		102	11
10-10-10M	15637	10.3	10.2	11.0		104	11
10-10-10M	14556	10.8	9.8	9.9		103	23
12-12-12M	14557	12.3	12.1	12.2		102	15
12-12-12M	15072	12.2	12.0	12.1		101	15
12-12-12M	15638	12.0	12.6	12.1		102	15
LINCOLN FARM SERVICE		STANFORD			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
11-12-18S	15485	10.9*	14.1	20.4		103	26
MISSISSIPPI CHEMICAL CORP.		YAZOO CITY			MISS		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
33- 0- 0	13449	35.0	0.0	0.0		104	15
MOBIL CHEM CO, AGRICHEM DIV		RICHMOND			VA.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0- 9-27M	13454	0.0	9.4	29.6		108	15
0-10-30M	14758	0.0	11.3	30.0		105	15
0-10-30M W/B	13459	0.0	9.5*	31.9		102	11
0-10-30M W/ME	14135	0.0	10.0	31.0		102	25

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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.	XS CL	RV	PHYS	
GRADE	NUM	N	APA	POT		
0-10-30M W/ME	16213	0.0	11.3	29.6	104	26
0-19-19M	12985	0.0	19.8	21.0	106	15
0-19-19M W/B	13863	0.0	19.5	21.6	106	15
0-19-19M W/B	15300	0.0	19.7	20.8	106	15
0-20- 0	12992	0.0	20.4	0.0	102	15
0-20- 0	13979	0.0	20.3	0.0	102	15
0-20- 0	14324	0.0	19.7	0.0	98	15
0-20- 0	14398	0.0	20.0	0.0	100	15
0-20- 0	14759	0.0	19.7	0.0	99	15
0-20- 0	15751	0.0	19.2*	0.0	96*	15
0-20-10M	13762	0.0	20.6	10.3	103	14
0-20-20M	13763	0.0	20.7	19.9	102	14
0-20-20M	14518	0.0	21.0	20.7	104	14
0-20-20M	13458	0.0	18.5*	21.7	98	15
0-20-20M	13976	0.0	20.5	20.7	103	15
0-20-20M	14397	0.0	19.8	19.9	99	15
0-20-20M	14666	0.0	20.3	19.9	101	15
0-20-20M	14896	0.0	20.6	19.3*	101	15
0-20-20M	15690	0.0	19.6	20.1	99	15
0-20-20M	16076	0.0	20.0	20.0	100	15
0-20-20M	14133	0.0	19.8	21.4	102	25
3-12-12M	13980	3.3	13.0	12.5	108	15
3-12-12M	13468	3.1	12.7	13.3	106	17
4-12- 8M	14515	4.3	11.9	8.6	103	14
4-12- 8M	15750	4.0	11.6*	8.3	99	14
4-12- 8M	16081	4.9	12.2	9.8	111	14
4-12- 8M	13011	4.6	17.8	12.1	140	15
4-12- 8M	13460	4.0	12.0	8.8	102	15
4-12- 8M	13545	4.1	11.8	8.9	102	15
4-12- 8M	14412	4.7	12.1	9.4	108	15
4-12- 8M	14652	4.7	12.1	9.6	109	15
4-12- 8M	15757	4.5	11.7	9.2	105	15
4-12- 8M	13166	4.3	11.7	9.9	105	16
4-12- 8M/S	14584	4.1	11.2*	9.2	100	15
4-12-12M	14585	4.4	11.8	12.2	102	15
4-16- 4S	12986	4.4	15.3*	5.3	* 103	11
4-16- 4S	12987	4.7	14.5*	5.6	* 101	11
4-16- 4S	14052	3.6*	15.7	8.6	* 106	11
4-16- 4S	13010	4.8	15.3*	5.7	* 106	13
4-16- 4S	13163	3.7*	16.0	7.7	* 106	13
4-16- 4S	13716	3.4*	16.1	8.2	* 105	13
5-10-10M	12988	5.3	10.8	10.2	106	15
5-10-10M	15868	5.5	10.2	10.2	104	15
5-10-15S	12989	5.4	10.2	15.4	* 104	15
5-10-15S	13012	5.2	10.3	15.8	104	15
5-10-15S	13122	5.4	10.3	14.7	103	15
5-10-15S	13464	4.6*	10.2	15.5	100	15
5-10-15S	13864	5.0	10.2	15.4	102	15
5-10-15S	13867	5.2	9.9	14.9	101	15
5-10-15S	13977	5.0	10.1	15.8	102	15
5-10-15S	14059	5.4	9.9	15.2	* 103	15
5-10-15S	14321	5.1	10.3	15.2	102	15
5-10-15S	14413	5.3	9.9	15.8	103	15
5-10-15S	15689	5.8	10.0	14.8	104	15
5-10-15S	15758	5.2	10.1	15.1	* 102	15
5-10-15S	15782	5.8	10.1	15.1	* 105	15
5-10-15S	13164	5.0	10.1	15.5	101	16



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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				
5-10-15S W/ME	16075	5.9	9.6*	15.0			104	15
5-20-20M	13461	4.9	19.8	21.4			101	13
5-20-20M	13758	5.3	19.4*	19.2*			98	14
5-20-20M	14516	5.4	20.7	19.8			103	14
5-20-20M	14568	5.4	19.2*	20.5			100	14
5-20-20M	16082	5.1	20.2	18.6*			99	14
5-20-20M	16215	5.5	19.1*	20.2			100	14
5-20-20M	13978	5.1	19.9	19.4*			99	15
5-20-20M	14058	5.5	19.2*	20.7			101	15
5-20-20M	14410	5.8	19.3*	21.1			102	15
5-20-20M	14656	5.5	19.9	19.6			101	15
5-20-20M	14690	5.9	19.2*	21.4			103	15
5-20-20M	14824	5.6	19.6	20.0			101	15
5-20-20M	15043	5.7	19.5*	20.1			101	15
5-20-20M	15299	5.6	19.5*	20.2			101	15
5-20-20M	15525	5.5	19.6*	20.3			101	15
5-20-20M	15759	5.7	19.1*	19.9			100	15
5-20-20M	15761	5.5	18.1*	20.5			98	15
5-20-20M	15869	5.1	20.1	20.7			101	15
5-20-20M	12990	5.3	20.1	20.8			102	16
5-20-20M	13520	5.9	19.7	22.4			106	16
5-20-20M W/B	14586	5.8	18.2*	21.2			100	15
5-20-20M W/ME	14657	5.3	16.9*	17.9*			90*	15
6- 6-18S	15806	6.1	6.4	17.7			101	15
6-12-12M	13466	6.7	11.8	13.0			105	15
6-12-12M	13735	6.8	11.2*	12.5			103	15
6-12-12M	13761	5.9	11.8	12.3			100	15
6-12-12M	14132	5.9	11.7	12.1			99	15
6-12-12M	14756	6.3	11.8	11.6*			100	15
6-12-12M	15026	6.0	11.9	12.1			100	15
6-12-12M	15760	6.3	11.9	11.6*			100	15
6-12-18S	13759	5.8	12.1	18.9		*	101	14
6-12-18S	13519	6.1	11.7	19.4		*	102	15
6-12-18S	13868	6.1	12.1	19.2			102	15
6-12-18S	13981	6.1	11.9	18.3			100	15
6-12-18S	14897	6.2	12.0	18.1		*	101	15
6-12-18S	13465	6.1	11.9	18.3			100	17
6-12-18S W/ME	16083	6.3	11.8	18.1		*	101	14
6-12-18S W/ME	14134	6.2	11.8	17.0*			99	15
6-12-18S W/ME	14394	6.3	12.0	18.0		*	101	15
6-12-18S W/ME	15691	6.7	11.6*	18.0			102	15
6-12-18S W/ME	15867	6.4	12.3	18.5			103	15
6-12-18S W/ME	16214	6.3	12.2	16.9*		*	100	16
6-18-12M	13757	6.0	18.3	12.0			101	14
6-18-12M	14322	6.4	17.6	12.0			101	15
6-18-12M	14655	6.3	18.2	13.1			104	15
6-24-24M	13781	6.0	21.5*	24.3			95*	15
6-24-24M	15044	6.3	22.0*	23.8			96*	15
10- 6- 4M	12991	9.9	6.9	4.8			104	15
10-10-10M	14825	9.2*	10.3	10.8			98	13
10-10-10M	13760	9.1*	10.1	11.0			97*	14
10-10-10M	15749	10.0	9.9	10.7			101	14
10-10-10M	13176	9.4*	10.3	11.2			100	15
10-10-10M	13467	9.9	10.2	11.3			102	15
10-10-10M	13518	9.5*	10.2	11.2			100	15
10-10-10M	13736	9.8	9.7	11.0			100	15
10-10-10M	13866	9.7	10.2	11.1			101	15

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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				
10-10-10M	14060	9.2*	10.3	10.8			98	15
10-10-10M	14115	10.5	11.2	11.1			108	15
10-10-10M	14323	10.0	9.7	11.4			101	15
10-10-10M	14411	9.8	10.3	10.7			101	15
10-10-10M	14658	9.7*	10.3	11.5			102	15
10-10-10M	14689	10.0	10.8	10.1			103	15
10-10-10M	14898	10.4	9.8	11.2			103	15
10-10-10M	15752	10.0	10.3	10.7			102	15
10-10-10M	13165	9.6*	10.0	10.7			99	16
10-10-10M	14002	10.2	9.6*	10.3			100	16
10-10-10M	14569	9.6*	10.4	11.1			101	16
10-10-10M W/ME	15027	9.7	9.9	11.0			100	15
12-12-12M	16080	12.1	11.9	12.3			100	14
12-12-12M	13462	11.7	12.8	13.0			102	15
12-12-12M	13865	11.3*	12.5	12.8			100	15
12-12-12M	14396	11.7	12.1	13.0			100	15
12-12-12M	14895	12.3	11.7	12.9			102	15
12-12-12M	15298	11.9	13.0	12.5			103	15
15-15-15M	14517	13.3*	13.5*	16.5			93*	14
15-15-15M	14659	14.3*	14.3*	15.7			97*	15
15-15-15M	14757	14.6	14.5*	14.9			98	15
15-15-15M	16239	14.4*	14.5*	15.2			97*	15
15-15-15M	14395	14.7	14.0*	15.4			97*	16
15-15-15M	13463	14.5*	14.6	15.5			98	17
28- 0- 0	12972	28.8	0.0	0.0			103	19
28- 0- 0	15129	29.0	0.0	0.0			104	19
30-10- 0	13456	29.0*	10.5	0.0			98	15
MONSANTO COMPANY		ST. LOUIS		MO.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
32- 0- 0	15586	31.9	0.0	0.0			100	19
82- 0- 0	15643	82.0	0.0	0.0			100	19
82- 0- 0	15647	82.0	0.0	0.0			100	19
82- 0- 0	16252	82.0	0.0	0.0			100	19
82- 0- 0	16271	82.0	0.0	0.0			100	19
82- 0- 0	16302	82.0	0.0	0.0			100	19
MONSANTO AGRI. CENTERS, INC.		SLAUGHTERS		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-18-26M	15009	0.0	21.3	27.5			111	26
0-26-26M	15012	0.0	27.8	25.8			104	25
5-10-15S	15947	5.2	9.7*	17.0			104	15
5-10-15S	15900	5.4	10.0	15.5			103	25
5-20-20M	15011	6.0	22.8	19.0*			110	25
5-20-20M	15901	5.2	18.3*	19.9			96*	25
6-26-26M	15010	6.1	26.3	26.3			101	25
6-26-26M	15945	5.9	26.0	25.9			99	25
8-24-16M	15902	8.8	25.6	14.8*			105	25
10-10-10M	15903	8.6*	7.7*	7.8*			82*	25
10-10-10M	15946	9.9	10.2	11.0			101	25
NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0- 0-50S	13966	0.0	0.0	50.5			101	13
0- 0-60M	14483	0.0	0.0	60.8			101	13
0- 0-60M W/B	14477	0.0	0.0	58.2*			97*	15
0-20- 0	14486	0.0	18.9*	0.0			95*	11
0-20- 0	14750	0.0	19.3*	0.0			97*	11
0-20- 0	15499	0.0	19.5*	0.0			98	11
0-20- 0	15818	0.0	19.0*	0.0			95*	11



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
0-20-20M	13069	0.0	20.0	21.4		102	11	
0-20-20M	14484	0.0	20.6	20.0		102	11	
0-20-20M W/B	14748	0.0	18.7*	19.2*		94*	11	
3-12-12M	14416	3.9	11.3*	12.7		104	11	
3-12-12M	15431	3.8	11.2*	13.3		105	11	
4-12- 8M	13990	4.6	11.2*	10.2		105	11	
4-12- 8M	14488	4.5	12.0	14.8		119	11	
4-12- 8M	14749	4.9	10.7*	10.8		107	11	
4-12- 8M	15432	4.3	11.0*	8.8		100	11	
4-12- 8M	15505	4.9	10.8*	10.8		107	11	
4-16- 4S	13603	5.1	15.2*	8.3	*	112	11	
5-10-15S	13067	5.2	9.4*	15.9	*	100	11	
5-10-15S	13413	5.0	9.6*	15.1		98	11	
5-10-15S	13602	5.3	10.2	15.7		104	11	
5-10-15S	13604	5.5	11.9	15.4	*	111	11	
5-10-15S	14491	4.7*	11.1	16.0	*	104	11	
5-10-15S	15356	5.5	9.5*	15.9	*	103	11	
5-10-15S	15433	5.6	9.7*	15.3		103	11	
5-10-15S	15503	5.2	9.7*	15.8		102	11	
5-10-15S	15504	5.3	9.5*	16.3		103	11	
5-10-15S	15517	5.1	9.1*	14.8		96*	11	
5-10-15S	15822	5.3	9.4*	15.1		99	11	
5-10-15S	13965	5.1	10.2	15.8		103	13	
5-10-15S W/ME	14751	4.9	9.6*	15.2		98	11	
5-20-20M	13068	4.8	20.5	20.2		101	11	
5-20-20M	15820	5.1	18.7*	21.1		98	13	
5-20-20M	14489	5.7	18.9*	21.2		101	15	
5-20-20M	14811	5.6	18.7*	20.8		100	15	
5-20-20M	15498	6.0	18.9*	20.6		102	15	
5-20-20M W/B	14485	5.1	18.7*	20.8		98	11	
5-20-20M W/B	15821	5.2	16.8*	20.4		93*	11	
5-20-20S	13961	5.0	20.6	19.1*		101	25	
6- 8- 6M	13373	5.5*	9.5	8.2		109	11	
6- 8- 6M	15864	5.7*	8.7	6.4		102	11	
6-12-12M	15434	6.0	11.0*	12.4		97*	11	
6-12-12M	15500	5.1*	11.6*	10.4*		91*	11	
6-12-12M	15819	6.0	11.4*	12.1		98	11	
8-10-15S	15355	7.5*	10.1	15.4		98	11	
8-10-15S W/ME	14482	7.9	10.1	14.9		100	11	
8-10-15S W/ME	15501	7.5*	10.4	15.0		99	11	
10-10-10M	13372	9.7	10.5	10.4		101	11	
10-10-10M	14473	9.6*	10.5	10.7		101	11	
10-10-10M	14476	10.3	10.2	10.7		103	11	
10-10-10M	14490	10.1	9.8	10.5		100	11	
10-10-10M	15865	9.8	9.9	10.6		100	11	
10-10-10M	13960	9.8	10.3	10.4		101	13	
10-10-10M	14812	10.3	9.8	11.3		103	13	
10-10-10M	15502	10.2	10.2	10.4		102	15	
10-10-10S	13618	9.9	9.7*	11.1		100	11	
OHIO VALLEY FERTILIZER, INC.		MAYSVILLE		KY.		XS CL	RV	PHYS
GRADE	NUM	N	APA	POT				
3- 9- 6M	14628	3.9	9.6	7.6		117	13	
4-12- 8M	14647	4.8	11.9	8.1		105	13	
4-12- 8M	15166	5.1	11.1*	7.8		103	13	
4-16- 4S	13904	4.2	15.6	5.7		103	11	
4-16- 4S	13905	4.2	16.7	5.4		107	11	
4-16- 4S	13906	4.1	15.7	5.2		102	11	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

OHIO VALLEY FERTILIZER, INC.		MAYSVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-16-4S	13930	4.0	15.4*	5.7		101	11
5-10-10M	14629	5.1	9.9	9.7		99	13
5-10-10M	14633	5.1	10.0	9.7		100	13
5-10-10M	14648	5.1	10.2	8.9*		99	13
5-10-15S	16004	4.8	9.2*	14.9		96*	11
5-10-15S	14118	5.1	10.9	15.1		104	13
5-10-15S	14649	5.2	10.0	16.0		103	13
5-10-15S	15156	5.9	10.0	16.4		108	13
5-10-15S	15159	5.1	9.6*	16.0		101	13
5-10-15S	15460	5.8	10.7	15.4		108	13
5-10-15S	16002	5.6	8.1*	16.3		99	13
5-10-15S	15161	5.1	9.2*	15.8		99	15
5-10-20S W/ME	14116	4.9	10.2	20.6		101	11
5-10-20S W/ME	14127	4.9	10.6	17.6*		97*	13
5-10-20S W/ME	15167	5.4	9.5*	20.4		101	13
5-10-20S W/ME	15464	5.0	10.5	18.4*		99	13
5-20-20M	14650	5.9	18.1*	19.0*		97*	13
5-20-20M	15157	5.6	16.5*	16.9*		89*	13
5-20-20M	15461	5.3	21.8	18.1*		103	15
6- 6-18S	14119	5.7	6.7	17.2*		99	13
6- 8- 6S	15160	5.9	7.8	7.2		101	13
6- 8- 6S	16003	6.2	7.5*	6.4		100	13
6-12-18S W/ME	14124	7.0	11.9	17.0*		103	13
8-10-15S	15162	7.7	9.7*	17.0		101	15
10-10-10M	15164	10.2	9.6*	10.9		101	13
10-10-10M	15462	9.9	10.8	9.3*		101	15
10-10-20S	16001	10.2	11.3	19.4*		104	13
10-10-20S W/ME	15544	9.8	10.6	20.2		101	11
10-10-20S W/ME	14125	10.1	12.3	18.3*		105	13
10-10-20S W/ME	15158	8.8*	10.8	18.8*	*	95*	13
10-10-20S W/ME	15163	7.5*	8.9*	21.3	*	88*	13
10-10-20S W/ME	15465	10.1	10.9	19.8		103	15
12-12-12M	14630	12.0	11.5*	11.8		98	13
12-12-12M	14631	11.5*	13.3	12.4		102	13
12-12-12M	15165	12.1	11.9	12.4		101	13
12-12-12M	16005	11.9	11.0*	13.7		99	13
OLIN MATHIESON CHEM. CORP.		LITTLE ROCK			ARK.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
6-18-36M	16038	6.6	19.0	36.5		105	15
6-24-24M	16037	6.1	24.3	24.2		101	15
6-24-24M	13657	6.2	23.4*	24.5		100	17
10-20-20M	13656	10.0	19.4*	20.7		100	17
13-13-13M	16039	13.0	13.1	13.4		101	15
16- 0- 0	14330	16.2	0.0	0.0		101	17
OLIN MATHIESON CHEM. CORP.		LAKE CHARLES			LA.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
82- 0- 0	15664	82.0	0.0	0.0		100	19
82- 0- 0	16278	82.0	0.0	0.0		100	19
PENNYROYAL SUPPLY CO.		HOPKINSVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-20-20M W/B	13155	0.0	20.4	19.1*		100	26
5-20-20M	15097	5.1	19.1*	20.3		99	26
6-18-12M	15095	4.7*	16.3*	13.0		90*	26
9-10-15NIT	15098	8.7*	11.3	15.8		104	26
10-10-10M	13754	10.0	10.1	11.3		102	26
10-10-10M	15094	8.3*	11.7	24.8		122	26



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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

PHILLIPS PETROLEUM CO.		BARTLESVILLE OKLA					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
82- 0- 0	15640	82.0	0.0	0.0		100	19
82- 0- 0	15656	82.0	0.0	0.0		100	19
82- 0- 0	15660	82.0	0.0	0.0		100	19
82- 0- 0	15665	82.0	0.0	0.0		100	19
82- 0- 0	16251	82.0	0.0	0.0		100	19
82- 0- 0	16261	82.0	0.0	0.0		100	19
82- 0- 0	16274	82.0	0.0	0.0		100	19
RA-PID-GROW CORPORATION		DANSVILLE N.Y.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
23-19-17M	13515	24.4	19.8	15.7*		104	13
F. S. ROYSTER GUANO COMPANY		NORFOLK VA.					
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0- 0-50S	15553	0.0	0.0	49.8		100	11
0-10-30M W/B	13265	0.0	10.8	29.3*		102	16
0-20- 0	13473	0.0	20.4	0.0		102	15
0-20- 0	13831	0.0	22.1	0.0		110	15
0-20- 0	14141	0.0	20.0	0.0		100	15
0-20- 0	14360	0.0	19.8	0.0		99	15
0-20- 0	14813	0.0	20.1	0.0		101	15
0-20- 0	15450	0.0	19.8	0.0		99	15
0-20- 0	15487	0.0	20.4	0.0		102	15
0-20- 0	15686	0.0	19.6	0.0		98	15
0-20-20M	14519	0.0	21.9	18.6*		104	14
0-20-20M	13830	0.0	18.8*	21.2		98	15
0-20-20M	14308	0.0	19.4*	21.6		101	23
0-20-20M	14549	0.0	19.8	19.5*		99	23
0-20-20M W/B	13975	0.0	19.3*	21.7		100	15
0-20-20M W/B	15447	0.0	20.9	18.8*		101	15
0-20-20M W/B	15532	0.0	19.3*	21.2		100	15
0-20-20M W/ME	15275	0.0	18.8*	21.7		99	15
0-20-20M W/ME	15276	0.0	19.2*	21.1		99	15
0-20-20M W/ME	15844	0.0	20.1	18.7*		98	15
0-20-20M W/ME	14144	0.0	20.7	20.1		102	26
0-20-20M W/ME	14826	0.0	20.1	21.0		102	26
0-46- 0	15975	0.0	35.0*	0.0		76*	15
3-12-12M W/ME	15974	3.4	11.9	12.4		103	15
4-12- 8M	13266	4.2	12.3	8.1		103	15
4-12- 8M	13474	4.2	12.3	9.1		105	15
4-12- 8M	14049	4.1	12.4	8.6		101	15
4-12- 8M	14311	4.7	12.5	8.3		108	15
4-12- 8M W/ME	14523	4.2	12.3	7.9		102	14
4-12- 8M W/ME	14137	4.1	12.1	8.4		102	15
4-12- 8M W/ME	14357	4.2	12.4	8.3		104	15
4-12- 8M W/ME	14720	4.5	12.1	8.4		105	15
4-12- 8M W/ME	15090	4.5	12.5	8.8		107	15
4-12- 8M W/ME	15421	4.4	12.7	10.0		110	15
4-12- 8M W/ME	15449	4.2	12.6	8.7		105	15
4-12- 8M W/ME	15685	4.6	12.2	8.2		105	15
4-12- 8M W/ME	15845	4.8	11.8	8.5		106	15
4-16- 4S	13841	4.3	15.8	5.2	*	103	11
4-16- 4S	13842	4.8	16.0	4.9	*	107	11
4-16- 4S W/ME	14240	4.7	15.9	5.7	*	107	11
5-10-15S	13267	5.1	10.8	15.3		104	15
5-10-15S	13268	5.2	10.2	15.1		103	15
5-10-15S	13380	4.9	11.1	12.8*	*	99	15
5-10-15S	13382	5.3	9.7	14.6*		100	15
5-10-15S	13469	5.1	10.1	15.2		101	15

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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				
5-10-15S	13843	5.1	10.1	15.0			101	15
5-10-15S	13972	4.9	10.3	14.8			100	15
5-10-15S	14050	4.9	10.5	15.1			101	15
5-10-15S	14051	5.0	10.5	15.2			102	15
5-10-15S	14313	5.5	10.1	14.9			103	15
5-10-15S	14814	5.5	10.6	14.9			105	13
5-10-15S W/ME	15448	5.5	10.3	15.4			105	13
5-10-15S W/ME	14522	5.0	11.2	15.2	*		105	14
5-10-15S W/ME	14139	5.2	10.4	14.9			102	15
5-10-15S W/ME	14239	4.9	10.4	15.5			102	15
5-10-15S W/ME	14359	5.0	10.7	14.6			102	15
5-10-15S W/ME	14361	5.6	10.3	15.6			106	15
5-10-15S W/ME	14550	5.2	10.8	15.3			105	15
5-10-15S W/ME	14721	5.2	10.4	14.8			102	15
5-10-15S W/ME	14880	5.4	10.0	15.2			103	15
5-10-15S W/ME	14881	5.7	10.7	15.1			107	15
5-10-15S W/ME	15204	5.3	10.2	15.4			104	15
5-10-15S W/ME	15451	5.3	10.4	14.9			103	15
5-10-15S W/ME	15684	5.1	10.4	14.6			102	15
5-10-15S W/ME	15835	5.2	10.3	14.9			102	15
5-10-15S W/ME	15932	5.6	9.8	15.4			103	15
5-10-15S W/ME	14143	5.0	11.0	15.4			105	16
5-20-20M	13828	5.2	20.4	19.6			101	13
5-20-20M	14147	5.1	20.4	19.3*			100	14
5-20-20M	14520	4.9	19.1*	18.0*			95*	14
5-20-20M	13269	5.0	19.5*	20.2			99	15
5-20-20M	13381	5.1	18.7*	21.0			98	15
5-20-20M	13974	5.4	19.3*	19.3*			99	15
5-20-20M	14048	5.0	19.7	19.5*			99	15
5-20-20M	14136	5.3	19.9	19.9			101	15
5-20-20M	14310	5.7	19.9	19.6			102	15
5-20-20M	14358	5.5	18.9*	18.8*			98	15
5-20-20M	14632	5.2	19.3*	20.1			99	15
5-20-20M	14815	5.1	19.8	20.1			100	15
5-20-20M	15202	5.2	19.7	19.6			99	15
5-20-20M	15486	5.4	19.4*	19.9			100	15
5-20-20M	15531	5.4	19.3*	20.2			100	15
5-20-20M	15875	5.1	20.5	19.5*			101	15
5-20-20M W/ME	15874	5.4	20.6	19.0*			102	15
6- 6-18S W/ME	15552	6.5	6.4	18.1			105	15
6-12-12M	13270	6.4	12.4	12.0			104	15
6-12-12M	13472	6.2	12.1	11.1*			100	15
6-12-12M	13973	6.1	11.9	12.1			101	15
6-12-12M W/ME	14145	6.2	12.0	12.0			101	14
6-12-12M W/ME	14362	6.2	13.4	13.3			109	15
6-12-12M W/ME	14548	6.8	11.9	13.7			107	15
6-12-12M W/ME	14882	6.7	12.2	12.1			105	15
6-12-12M W/ME	15452	6.5	11.8	13.2			104	15
6-12-12M W/ME	15836	6.1	12.0	12.9			102	15
6-12-12M W/ME	15934	6.4	12.3	12.7			105	15
7-28-14M	13971	7.0	27.2*	14.9			99	15
10-10-10M	14146	10.1	10.5	9.9			102	14
10-10-10M	14521	10.4	10.7	10.6			105	14
10-10-10M	13383	9.8	9.7	11.4			100	15
10-10-10M	13470	10.0	10.2	10.6			102	15
10-10-10M	13829	10.3	10.6	10.5			104	15
10-10-10M	14138	10.1	10.2	10.1			101	15



TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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	14309	10.3	10.0	10.5		102	15	
10-10-10M	14356	10.1	10.6	11.1		104	15	
10-10-10M	15092	10.8	10.4	10.8		106	15	
10-10-10M	15203	9.9	10.8	10.7		103	15	
10-10-10M	15422	9.6*	11.0	11.4		104	15	
10-10-10M	15453	10.2	10.2	9.8		101	15	
10-10-10M	15846	10.6	10.7	9.8		105	15	
10-10-10M W/ME	15091	10.0	11.4	11.0		106	15	
10-10-10M W/ME	15933	9.5*	10.5	11.3		101	15	
10-10-15S	13271	9.5*	10.4	14.8		98	15	
10-10-15S	13471	10.1	10.0	15.5		101	15	
10-10-15S	14312	9.7	10.8	15.2		102	15	
10-10-15S W/ME	14140	10.1	11.1	15.3		104	15	
10-10-15S W/ME	14551	10.0	10.5	15.4		102	15	
10-10-15S W/ME	15530	9.6*	11.1	15.5		102	15	
12-12-12M	13475	11.9	12.4	13.3		102	15	
30- 0- 0	13392	29.5	0.0	0.0		98	19	
30- 0- 0	14021	30.8	0.0	0.0		103	19	
30- 0- 0	15716	32.0	0.0	0.0		107	19	
33- 0- 0	13272	34.5	0.0	0.0		103	17	
82- 0- 0	16266	82.0	0.0	0.0		100	19	
O. M. SCOTT + SONS		MARYSVILLE			OHIO			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
23- 7- 7M	14186	23.5	6.1*	7.7		100	15	
SMITH-DOUGLASS COMPANY, INC.		NORFOLK			VA.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
5-10- 5M W/ME	16241	6.1	9.8	5.2		108	15	
5-10-15S	14935	5.5	8.7*	19.9		107	23	
7- 9- 5M W/ME	16242	7.6	9.0	5.0		104	11	
7-37- 7M	14932	7.8	37.0	9.1		104	15	
SOUTHERN NITROGEN CO. INC.		SAVANNAH			GA.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
33- 0- 0	16028	34.1	0.0	0.0		102	17	
SO. STATES CLARK COOP.		WINCHESTER			KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
5-10- 5M	16120	4.8	11.9	6.8		113	19	
SO. STATES GREENVILLE COOP.		GREENVILLE			KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
30- 0- 0	13196	30.6	0.0	0.0		102	19	
SO. STATES MADISONVILLE COOP.		MADISONVILLE			KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0-46- 0	13197	0.0	46.1	0.0		100	18	
STEWART FERTILIZER SERVICE		MT. VERNON			KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS	
0-20-20M	14344	0.0	20.2	20.4		101	25	
0-20-20M	14348	0.0	23.4	20.4		112	25	
4-12- 8M	14345	4.2	12.1	5.5*		96*	25	
5-10-15S	14339	7.8	16.2	11.6*		135	25	
5-10-15S	15904	4.0*	7.2*	15.9		85*	25	
5-20-20M	14341	6.9	24.5	20.1		119	25	
5-20-20M	14346	5.8	22.4	20.7		111	25	
5-20-20M	14338	4.6*	19.2*	20.8		97*	26	
6-12-12M	14342	6.4	12.9	11.9		106	25	
6-12-12M	14343	6.0	11.2*	10.4*		94*	25	
10-10-10M	14340	10.4	9.3*	9.6*		99	25	
10-10-10M	14347	10.7	10.7	10.6		107	25	
10-10-10M	14350	10.9	11.3	11.1		111	25	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966

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

STEWART FERTILIZER SERVICE		MT. VERNON			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
10-10-10M	15905	11.0	10.7	11.4		109	25
10-14-15S	15488	12.2	17.5	13.8*		115	26
14-10-15S	15489	16.8	12.9	13.7*		113	24
SWIFT & COMPANY		NAT STOCKYDS			ILL.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-12- 8S	14332	4.0	12.9	8.9		106	15
5-20-20M	15608	4.9	20.9	19.5*		102	15
5-30-15M	13540	4.4*	30.7	15.5		100	15
6-10- 4M	13739	6.7	10.1	4.0		106	15
6-10- 4M	13740	6.5	10.5	4.8		108	15
6-24-24M	13542	5.7*	24.5	24.1		100	15
7-28-14M	15607	7.3	27.6	14.6		101	15
12- 5- 7S	13741	12.1	6.2	8.1		108	15
12-12-12M	13541	11.8	13.0	12.4		102	15
12-12-12M	14333	11.7	13.2	12.3		103	15
16- 8- 4M	13742	16.8	7.5*	4.3		102	15
33- 0- 0	14334	34.4	0.0	0.0		103	15
TENNESSEE CORPORATION		EVENDALE			OHIO		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
4-16- 4S	13090	4.1	15.1*	5.3	*	99	11
5-10-15S	13099	5.4	10.2	16.0		105	13
5-10-15S	13086	5.3	10.0	16.3		105	15
TENNESSEE CORPORATION		NEW ALBANY			IND.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
0-25-25M W/B	14399	0.0	22.0*	25.4		92*	23
3-12-12M	13984	3.1	12.1	12.8		103	15
4-12- 8M	14400	4.3	11.4*	8.3		100	11
4-12- 8M	15921	4.5	10.9*	10.0		103	11
4-12- 8M	13985	4.7	13.0	9.8		113	15
4-16- 4S	13827	4.1	14.8*	5.5	*	99	11
5-10- 5M	13000	5.5	10.7	5.4		108	11
5-10-15S	13589	5.4	10.3	16.4		106	13
5-10-15S	13591	5.1	10.1	16.4		104	13
5-10-15S	13592	5.2	10.4	15.5		104	13
5-10-15S	13825	5.7	11.1	13.0*		105	13
5-10-15S	15481	5.6	10.2	15.6		105	13
5-10-15S	16015	5.2	9.8	16.0		103	13
5-10-15S	13001	5.7	10.6	15.0		106	15
5-10-15S	15286	5.5	9.8	16.1		105	15
5-10-15S	15985	5.2	9.4*	16.7		102	15
5-20-20M	13590	4.9	19.5*	21.7		100	15
5-20-20M	15209	5.4	19.8	20.5		102	15
5-20-20M	15223	5.3	20.0	20.5		102	15
5-20-20M	15360	4.9	19.2*	22.9		101	15
8-10-15S	15274	8.6	10.3	16.0		106	15
10-10-10M	13002	10.3	10.2	11.7		105	15
10-10-10M	13588	10.3	10.4	11.6		105	15
10-10-10M	13824	9.9	9.8	12.7		103	15
10-10-10M	15922	10.5	11.3	11.6		109	15
10-10-10M	15986	10.5	9.9	11.0		104	15
10-10-20S W/ME	15923	10.6	11.5	21.7		109	23
10-10-20S W/ME	15482	11.0	12.1	18.8*		109	25
12-12-12M	13826	11.9	12.7	13.0		103	15
12-12-12M	15210	11.8	14.2	13.4		107	15
TENNESSEE CORPORATION		NEW YORK			N.Y.		
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
5-10-10M	16140	6.0	11.0	11.7		115	11



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

TENNESSEE CORPORATION		NEW YORK		N.Y.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
5-10-15S	16139	5.3	9.6*	16.3		103	11
TENNESSEE FARMERS COOP.		LAVERGNE		TENN	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
5-10-15S	13490	4.9	10.3	14.1*	*	99	13
6-12-12M	13489	5.9	12.0	13.7		103	13
6-12-12M	13491	5.5*	12.9	11.1*		99	15
6-12-12M	13494	6.0	10.4*	13.6		97*	15
8-16-24S	13492	7.9	16.1	24.0		100	15
15-15-15M	13493	14.7	14.8	16.5		100	15
15-15-15M	13721	14.4*	16.3	16.3		102	15
TOBACCO STATES CHEMICAL CO.		LEXINGTON		KY.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
10-20-10M	15948	10.2	20.6	10.6		103	19
UNION FERTILIZER CO.		MORGANFIELD		KY.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-25-26M	15001	0.0	25.7	28.0		102	26
20-14-14M	16210	19.8*	12.8*	18.6		99	26
VALLEY COUNTIES OF KY. COOP.		BENTON		KY.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0- 0-51S	15784	0.0	0.0	51.1		100	15
0- 0-60M	15785	0.0	0.0	60.7		101	15
0-52- 0	15311	0.0	51.2	0.0		99	16
0-60- 0	12973	0.0	59.7	0.0		99	15
6-24-24M	15228	6.8	25.1	23.2*		104	25
6-24-24M	16231	6.1	23.8	25.2		101	25
15-15-15M	15229	16.0	15.7	14.5*		104	25
16-16-16M	15230	16.4	16.0	16.5		102	15
16-16-16M	13683	16.0	15.8	15.8		99	17
16-16-16M	15045	16.3	16.0	16.2		101	17
16-16-16M	15195	16.4	16.0	16.2		102	17
16-16-16M	15783	16.6	16.6	15.9		103	17
18-46- 0	15310	17.9	46.2	0.0		100	16
20-20- 0	15231	21.0	19.8	0.0		103	15
25-25- 0	15232	25.6	26.0	0.0		103	15
30- 0- 0	12974	30.7	0.0	0.0		102	15
30- 0- 0	15312	30.9	0.0	0.0		103	16
WARNER FERTILIZER COMPANY		SOMERSET		KY.	XS CL	RV	PHYS
GRADE	NUM	N	APA	POT			
0-20-20M	14369	0.0	20.4	21.5		104	25
0-20-20M	14402	0.0	20.2	19.5*		100	25
0-25-25M	13136	0.0	23.2*	25.5		96*	25
0-25-25M	14370	0.0	24.7	25.7		100	25
0-25-25M	14371	0.0	26.4	24.8		103	25
0-25-25M	14403	0.0	25.9	24.9		102	25
0-25-25M	14778	0.0	26.3	24.2*		102	25
0-25-25M W/B	14781	0.0	27.7	21.4*		102	25
4-12- 8M	13129	4.2	12.4	8.4		105	25
4-12- 8M	14401	3.8	10.5*	7.6*		91*	25
5-10-15S	13132	5.2	10.1	15.7		103	25
5-10-15S	14780	5.3	9.5*	14.6		99	25
5-10-15S	16079	4.5*	9.7*	14.6*		95*	25
5-20-20M	13135	4.3*	19.4*	18.9*		94*	25
5-20-20M	14368	5.9	18.8*	23.2		105	25
5-20-20M	14372	3.7*	21.8	23.7		105	25
5-20-20M	14783	5.0	17.9*	24.1		100	25
6-12-18S	13131	4.9*	10.4*	18.0		89*	25
9-18-27S	13133	8.9	18.9	26.9		101	25

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, January-June, 1966**

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

WARNER FERTILIZER COMPANY		SOMERSET		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	PHYS
10-10-10M	13134	10.6	9.8	11.8		105	25
10-10-10M	14779	9.0*	8.6*	9.4*		89*	25
10-10-10M	14777	11.2	9.0*	11.1		104	26
10-10-20S	14782	10.0	9.5*	19.9		98	25
15-15-15M	13130	13.9*	15.9	16.0		99	25



TABLE 2 - Analyses of Inspection Samples of Rock Phosphate, Soft Phosphate with Colloidal Clay and Basic Slag

Sample Number	Manufacturer, Brand Name	Phosphoric Acid		Total		Percent of Relative Value Found
		Available Guar.	Found	Guar.	Found	
<u>Agrico Chemical Company</u>						
15827	Rock Phosphate	3.0	2.9	31.0	31.4	101
<u>Ruhm Phosphate Company</u>						
13538	Rock Phosphate	3.0	3.0	30.0	29.3*	98
<u>Thompson Sales Company</u>						
15357	Calphos	2.0	2.3	18.0	20.9	117
15533	Calphos	2.0	2.5	18.0	21.3	119
16086	Calphos	2.0	2.2	18.0	21.2	118
13605	Calphos	2.0	3.5	18.0	16.5*	92*
<u>U. S. Steel Corporation</u>						
14806	Basic Slag	---	---	6.0	7.5	125

TABLE 3 - Analyses of Inspection Samples of Organic Material

Sample Number	Manufacturer, Brand Name	Nitrogen	Available Phosphoric Acid	Potash	Percent Of Relative Value Found
13307	7-0-0 Agrinite	6.9	---	---	98
13352	7-0-0 Agrinite	7.0	---	---	100
15088	7-0-0 Agrinite	7.9	---	---	113
15419	7-0-0 Agrinite	7.9	---	---	113
<u>Armour Agri. Chem. Co.</u>					
13933	5-5-0 Armorganic	4.8	4.7*	---	96*
16138	5-5-0 Armorganic	5.0	5.2	---	101
<u>Burley Belt Fertilizer Co.</u>					
15491	7-0-0 Burl-Organic	9.4	---	---	134
<u>Grove Compost Company</u>					
14762	0.5-1.5-0.9 Fer-Til	0.9	1.7	0.8	168
<u>Sewerage Commission, City of Milwaukee</u>					
14331	6-3-0 Milorganite	6.0	3.0	---	100

TABLE 4. - Results of Analyses of Boron in Fertilizers Reported in Table 1. Analyses Deficient Are Underlined.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
AGRICO CHEMICAL COMPANY, MEMPHIS, TENNESSEE				
13312	0-20-20	BORON	0.5000	0.2100 *
13349	0-20-20	BORON	0.5700	0.5500
13521	0- 9-27	BORON	0.3400	0.5100
13923	5-20-20	BORON	5.0000	0.2800 M
14027	0-20-20	BORON	0.5700	0.5000 *
14035	5-20-20	BORON	0.5700	0.5100 *
14304	0-20-20	BORON	0.5700	0.5400
14561	0-13-27	BORON	0.8400	0.5400 *
14573	0- 9-27	BORON	0.4500	0.3400 *
15252	0-25-25	BORON	0.5000	0.2100 *
ARMOUR AGRICULTURAL CHEMICAL CO., CINCINNATI, OHIO				
13361	3-12-24	BORON	0.5700	1.2200 M
16006	5-20-20	BORON	0.5700	0.5900
16008	0-20-20	BORON	0.5700	0.3900 *
ARMOUR AGRICULTURAL CHEMICAL CO., JEFFERSONVILLE, INDIANA				
12993	0-20-20	BORON	0.5700	0.2800 *
14160	0-20-20	BORON	0.5700	0.5000 *
14745	0-20-20	BORON	0.5700	0.2400 *
14908	0-20-20	BORON	0.5700	0.7400
15809	0-20-20	BORON	0.5700	0.1600 *
15857	0-20-20	BORON	0.5700	0.3500 *
ARMOUR AGRICULTURAL CHEMICAL CO., NASHVILLE, TENNESSEE				
13172	3-12-24	BORON	0.3400	0.3900
13517	3-12-24	BORON	0.3400	0.1400 *
14088	0- 9-27	BORON	0.3400	0.3000 *
14441	0- 0-58	BORON	0.8400	0.5400 *
15416	3-12-24	BORON	0.3400	0.1400 *
BLUEGRASS PLANT FOODS, INC., DANVILLE, KENTUCKY				
14426	0-10-30	BORON	0.5700	0.7700
14428	0-10-20	BORON	0.2300	0.4300
14755	0-10-20	BORON	0.5600	0.8000
15308	0-10-20	BORON	0.2300	0.3500
BURLEY BELT FERTILIZER CO., LEXINGTON, KENTUCKY				
13627	0- 0-58	BORON	0.2300	0.2500
13853	0- 0-57	BORON	0.5700	0.5800
14012	0-20-20	BORON	0.5700	0.3800 *
15849	3- 9-18	BORON	0.5700	0.4400 *
COOPERATIVE FERTILIZER SERVICE, LOUISVILLE, KENTUCKY				
13295	0-15-30	BORON	0.4500	0.4800
13607	0-15-30	BORON	0.4500	0.5100
13844	0-15-30	BORON	0.4500	0.4800
15277	0-15-30	BORON	0.4500	0.4200



TABLE 4 (Cont'd.). - Results of Analyses of Boron in Fertilizers Reported in Table 1. Analyses Deficient Are Underlined.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
COOPERATIVE FERTILIZER SERVICE, RUSSELLVILLE, KENTUCKY				
13062	0-15-30	BORON	0.4500	0.3300 *
13262	0-15-30	BORON	0.4500	0.4600
13525	0-15-30	BORON	0.4500	0.3300 *
14103	0-15-30	BORON	0.4500	0.3400 *
14104	0-15-30	BORON	0.4500	0.3200 *
14171	0-15-30	BORON	0.4500	0.4100
14435	0-15-30	BORON	0.4500	0.2400 *
COOPERATIVE FERTILIZER SERVICE, WINCHESTER, KENTUCKY				
12948	0-15-30	BORON	0.4500	0.4100
14509	0-15-30	BORON	0.4500	0.4500
14775	0-15-30	BORON	0.4500	0.3500 *
15354	5-20-20	BORON	0.3400	0.3800
FEDERAL CHEMICAL COMPANY, LOUISVILLE, KENTUCKY				
14081	0-20-30	BORON	0.2090	0.1100 *
13031	0-10-30	BORON	0.5700	0.6100
13200	0-10-30	BORON	0.5700	0.5600
13608	0-10-30	BORON	0.5700	0.6400
13648	0-10-30	BORON	0.5700	0.6700
13963	0-10-30	BORON	0.5700	0.6100
14730	0-10-30	BORON	0.5700	0.4800 *
15295	0-10-30	BORON	0.5700	0.6200
15443	0-10-30	BORON	0.5700	0.4300 *
15513	0-10-30	BORON	0.5700	0.3500 *
FEDERAL CHEMICAL COMPANY, NASHVILLE, TENNESSEE				
13512	0- 9-27	BORON	0.4000	0.4900
15697	5-20-20	BORON	0.5700	0.3000 *
W. R. GRACE & CO., NASHVILLE, TENNESSEE				
13638	0-20-20	BORON	0.5700	0.0150 *
15412	0-20-20	BORON	0.2200	0.3900
W. R. GRACE & CO., NEW ALBANY, INDIANA				
15438	5-20-20	BORON	0.5000	0.5600
16192	0-13-39	BORON	0.5000	0.3500 *
GRO-GREEN CHEMICAL CO., SHELBYVILLE, KENTUCKY				
14479	5-20-20	BORON	0.7200	0.3900 *
14480	0-10-30	BORON	0.9500	0.6000 *
14481	5-20-20	BORON	0.5700	0.4800 *
14731	0-10-30	BORON	0.5600	0.4300 *
15245	0-10-30	BORON	0.5700	0.3300 *
15251	0-20-20	BORON	0.5700	0.4200 *
15802	8-12-15	BORON	0.1000	0.1100
15998	7-13-15	BORON	0.1000	0.0700 *

TABLE 4 (Cont'd.). - Results of Analyses of Boron in Fertilizers Reported in Table 1. Analyses Deficient Are Underlined.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
GRO-GREEN CHEMICAL CO., LEBANON, KENTUCKY				
14429	4-19-19	BORON	0.4900	0.5300
14431	0-22-29	BORON	0.4600	0.4400
INTERNATIONAL MIN. & CHEM. CORP., CINCINNATI, OHIO				
13597	5-10-10	BORON	0.5700	0.4500 *
15335	0-20-20	BORON	0.5700	0.5600
MOBIL CHEMICAL CO., AGRI. CHEM. DIV., RICHMOND, VIRGINIA				
12985	0-19-19	BORON	0.5700	0.3600 *
13459	0-10-30	BORON	0.4500	0.5100
13863	0-19-19	BORON	0.5700	0.3400 *
14135	0-10-30	BORON	0.4500	0.2900 *
14586	5-20-20	BORON	0.3400	0.5900
15300	0-19-19	BORON	0.5700	0.4800 *
16213	0-10-30	BORON	0.5000	0.5500
NORTH AMERICAN FERTILIZER CO., LOUISVILLE, KENTUCKY				
14477	0-0-60	BORON	0.5700	0.5400
14485	5-20-20	BORON	0.5600	0.3200 *
14748	0-20-20	BORON	0.5600	0.4100 *
15821	5-20-20	BORON	0.5600	0.6200
F. S. ROYSTER GUANO CO., NORFOLK, VIRGINIA				
13265	0-10-30	BORON	0.5600	0.4500 *
13975	0-20-20	BORON	0.5700	0.3800 *
14144	0-20-20	BORON	0.5700	0.1800 *
14308	0-20-20	BORON	0.5700	0.4300 *
14826	0-20-20	BORON	0.5700	0.2800 *
15276	0-20-20	BORON	0.5700	0.5500
15447	0-20-20	BORON	0.5700	0.4400 *
15532	0-20-20	BORON	0.5700	0.4400 *



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
BLUEGRASS PLANT FOODS, INC., CYNTHIANA, KENTUCKY				
15169	8-10-15	MAGNESIUM	1.2000	0.8700 *
16115	5-10-15	MAGNESIUM	1.2000	1.2400
16118	6- 6-18	MAGNESIUM	1.2000	1.8200
BLUEGRASS PLANT FOODS, INC., DANVILLE, KENTUCKY				
13857	5-10-15	MAGNESIUM	2.0000	1.0600 *
13858	6- 6-18	MAGNESIUM	1.0000	1.1400
14699	5-10-15	MAGNESIUM	2.0000	1.2000 *
14768	6-12-18	MAGNESIUM	2.0000	1.0000 *
14768	6-12-18	MAGNESIUM	2.0000	1.4800 *
14770	5-10-15	MAGNESIUM	2.0000	0.9400 *
15242	8-10-15	MAGNESIUM	2.0000	0.9800
16071	8-10-15	MAGNESIUM	1.0000	0.9800
16072	6-12-18	MAGNESIUM	1.2000	1.1400
BURLEY BELT FERTILIZER CO., LEXINGTON, KENTUCKY				
15083	6-12-18	MAGNESIUM	2.0000	4.3000 M
15253	8- 6-18	MAGNESIUM	2.0000	1.4000 *
15545	8-10-18	MAGNESIUM	2.0000	1.6000 *
15180	0- 0-47	ZINC	1.7200	2.1000
COMMONWEALTH FERTILIZER CO., RUSSELLVILLE, KENTUCKY				
14094	8-12-15	MAGNESIUM	1.5000	2.4500
14572	8-12-15	MAGNESIUM	1.5000	2.6000
14583	8-24- 8	MAGNESIUM	1.5000	1.0000 *
14740	8-12-15	MAGNESIUM	1.5000	2.7400
15402	8-24- 8	MAGNESIUM	1.5000	1.3000 *
15527	8-24- 8	MAGNESIUM	1.5000	1.0600 *
15529	6-18-12	MAGNESIUM	1.5000	1.0600 *
14583	8-24- 8	ZINC	1.0000	0.2700 *
15402	8-24- 8	ZINC	1.0000	0.7300 *
15527	8-24- 8	ZINC	1.0000	0.0750 *
DARLING & COMPANY, CAIRO, ILLINOIS				
14954	5-20-20	COPPER	0.0500	0.0270 *
14957	6-24-24	COPPER	0.0500	0.0330 *
15051	6-12-18	COPPER	0.0500	0.0350 *
14954	5-20-20	IRON	0.2500	0.6300
14957	6-24-24	IRON	0.2500	0.7500
15051	6-12-18	IRON	0.2500	0.5200
14954	5-20-20	MANGANESE	0.0500	0.0400
14957	6-24-24	MANGANESE	0.0500	0.0520
15051	6-12-18	MANGANESE	0.0500	0.0440
14954	5-20-20	ZINC	0.0500	0.0380 *
14957	6-24-24	ZINC	0.0500	0.0410
15051	6-12-18	ZINC	0.0500	0.0440
DARLING & COMPANY, E. ST. LOUIS, ILLINOIS				
13238	5-20-20	COPPER	0.0500	0.0300 *
14992	7-28-14	COPPER	0.0500	0.0230 *
15002	5-20-20	COPPER	0.0500	0.0250 *
15599	7-28-14	COPPER	0.0500	0.0230 *
15680	7-28-14	COPPER	0.0500	0.0220 *
16063	5-20-20	COPPER	0.0500	0.0080 *
16237	5-20-20	COPPER	0.0500	0.0290 *

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
DARLING & COMPANY, E. ST. LOUIS, ILLINOIS (Cont'd.)				
14992	7-28-14	IRON	0.2500	0.8000
15002	5-20-20	IRON	0.2500	0.6700
15599	7-28-14	IRON	0.2500	0.8000
15680	7-28-14	IRON	0.2500	0.9300
16063	5-20-20	IRON	0.2500	0.6900
16237	5-20-20	IRON	0.2500	0.8000
14992	7-28-14	MANGANESE	0.0500	0.0440
15002	5-20-20	MANGANESE	0.0500	0.0410
15599	7-28-14	MANGANESE	0.0500	0.4500 M
15680	7-28-14	MANGANESE	0.0500	0.0400
16063	5-20-20	MANGANESE	0.0500	0.0200 *
16237	5-20-20	MANGANESE	0.0500	0.0500
14992	7-28-14	ZINC	0.0500	0.0350 *
15002	5-20-20	ZINC	0.0500	0.0340 *
15599	7-28-14	ZINC	0.0500	0.0430
15680	7-28-14	ZINC	0.0500	0.0500
16063	5-20-20	ZINC	0.0500	0.0160 *
16237	5-20-20	ZINC	0.0500	0.0400
FEDERAL CHEMICAL COMPANY, HUMBOLDT, TENNESSEE				
15029	10-10-15	MAGNESIUM	1.5000	1.3600
15233	6-12-12	MAGNESIUM	2.0000	1.4300 *
16055	10-10-15	MAGNESIUM	1.5000	1.4400
16056	5-25-15	MAGNESIUM	2.0000	2.3200
15029	10-10-15	COPPER	0.0500	0.0340 *
15233	6-12-12	COPPER	0.0500	0.0220 *
16055	10-10-15	COPPER	0.0500	0.0360 *
16056	5-25-15	COPPER	0.0500	0.0330 *
16056	5-25-15	IRON	0.1000	0.7800
15233	6-12-12	MANGANESE	0.0500	0.0340 *
15029	10-10-15	ZINC	0.0500	0.0370 *
15233	6-12-12	ZINC	0.0500	0.0280 *
16055	10-10-15	ZINC	0.0500	0.0400
16056	5-25-15	ZINC	0.5000	0.0380 *
FEDERAL CHEMICAL COMPANY, LOUISVILLE, KENTUCKY				
13647	10-10-15	MAGNESIUM	1.5000	2.2400
14101	10-10-15	MAGNESIUM	1.5000	1.6800
14564	10-10-15	MAGNESIUM	1.5000	1.5700
14728	10-10-15	MAGNESIUM	1.5000	1.4000
15446	10-10-15	MAGNESIUM	1.5000	1.7800
15495	10-10-15	MAGNESIUM	1.5000	1.3800
15699	10-10-15	MAGNESIUM	1.5000	2.6000
13647	10-10-15	COPPER	0.0500	0.0000 *
14101	10-10-15	COPPER	0.0500	0.0440
14564	10-10-15	COPPER	0.0500	0.0440
14728	10-10-15	COPPER	0.0500	0.0420
15446	10-10-15	COPPER	0.0500	0.0490
15495	10-10-15	COPPER	0.0500	0.0360 *
15699	10-10-15	COPPER	0.0500	0.0360 *



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 COMPANY, LOUISVILLE, KENTUCKY				
14564	10-10-15	ZINC	0.0500	0.0450
14728	10-10-15	ZINC	0.0500	0.0500
15446	10-10-15	ZINC	0.0500	0.0610
15495	10-10-15	ZINC	0.0500	0.0400
15699	10-10-15	ZINC	0.0500	0.0380 *
FEDERAL CHEMICAL COMPANY, NASHVILLE, TENNESSEE				
13676	10-10-15	MAGNESIUM	2.0000	2.0700
13726	10-10-15	MAGNESIUM	1.5000	2.1800
13770	5-25-15	MAGNESIUM	2.0000	2.6600
13772	12-12-12	MAGNESIUM	2.0000	1.3300 *
14087	10-10-15	MAGNESIUM	1.5000	1.9400
15105	5-10-20	MAGNESIUM	2.0000	2.4100
15108	5-25-15	MAGNESIUM	2.0000	2.1000
15687	10-10-15	MAGNESIUM	1.5000	1.9700
15688	5-25-15	MAGNESIUM	2.0000	2.1500
15720	5-25-15	MAGNESIUM	2.0000	2.3000
15721	5-25-15	MAGNESIUM	2.0000	2.7200
15722	5-25-15	MAGNESIUM	2.0000	2.5000
16151	10-10-15	MAGNESIUM	1.5000	1.9600
16153	5-25-15	MAGNESIUM	2.0000	2.4400
16321	12-12-12	MAGNESIUM	2.0000	1.2900 *
13676	10-10-15	COPPER	0.0500	0.0460
13726	10-10-15	COPPER	0.0500	0.0380 *
13770	5-25-15	COPPER	0.0500	0.0250 *
14087	10-10-15	COPPER	0.0500	0.0370 *
15105	5-10-20	COPPER	0.0500	0.0300 *
15108	5-25-15	COPPER	0.0500	0.0350 *
15687	10-10-15	COPPER	0.0500	0.0360 *
15688	5-25-15	COPPER	0.0500	0.0340 *
15720	5-25-15	COPPER	0.0500	0.0410
15721	5-25-15	COPPER	0.0500	0.0410
15722	5-25-15	COPPER	0.0500	0.0410
16151	10-10-15	COPPER	0.0500	0.0380 *
16153	5-25-15	COPPER	0.0500	0.0390 *
15105	5-10-20	IRON	0.1000	0.2600
15108	5-25-15	IRON	0.1000	0.7500
15688	5-25-15	IRON	0.1000	0.7500
15720	5-25-15	IRON	0.1000	0.8100
15721	5-25-15	IRON	0.1000	0.8100
15722	5-25-15	IRON	0.1000	0.8100
16153	5-25-15	IRON	0.1000	0.8000
15105	5-10-20	MANGANESE	0.0500	0.0430
15105	5-10-20	ZINC	0.0500	0.4900 M
15108	5-25-15	ZINC	0.5000	0.3800 *
15687	10-10-15	ZINC	0.0500	0.0450
15688	5-25-15	ZINC	0.0500	0.0380 *
15720	5-25-15	ZINC	0.5000	0.4400
15721	5-25-15	ZINC	0.5000	0.4500
15722	5-25-15	ZINC	0.5000	0.4500
16151	10-10-15	ZINC	0.0500	0.0380 *
16153	5-25-15	ZINC	0.5000	0.3900 *
16321	12-12-12	ZINC	0.0500	0.0740

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
GLASGOW FERTILIZER COMPANY, GLASGOW, KENTUCKY				
13640	5-10-15	MAGNESIUM	1.0000	1.1800
14155	5-10-15	MAGNESIUM	1.0000	1.4000
GRO-GREEN CHEMICAL COMPANY, SHELBYVILLE, KENTUCKY				
15211	8-12-15	MAGNESIUM	2.0000	2.7000
15244	8-12-15	MAGNESIUM	2.0000	2.4200
15246	8-24-10	MAGNESIUM	1.0000	1.3600
15507	8-12-15	MAGNESIUM	2.0000	2.1200
15802	8-12-15	MAGNESIUM	2.0000	2.8400
15804	8-24-10	MAGNESIUM	1.0000	1.7600
15998	7-13-15	MAGNESIUM	2.0000	2.2000
GULF OIL CORP., AGRI. CHEM. DIV., HENDERSON, KY.				
15467	4-10-15	MAGNESIUM	1.5000	1.5100
15882	4-10-15	MAGNESIUM	1.5000	1.5300
15944	4-10-15	MAGNESIUM	1.5000	1.8600
16311	4-10-15	MAGNESIUM	1.5000	2.0200
15467	4-10-15	COPPER	0.1000	0.0600 *
15882	4-10-15	COPPER	0.1000	0.6100 M
15944	4-10-15	COPPER	0.1000	0.0650 *
16311	4-10-15	COPPER	0.1000	0.0500 *
15467	4-10-15	IRON	0.2000	0.4250
15882	4-10-15	IRON	0.2000	1.0800
15944	4-10-15	IRON	0.2000	0.5900
16311	4-10-15	IRON	0.2000	0.3500
15467	4-10-15	MANGANESE	0.1500	0.2000
15882	4-10-15	MANGANESE	0.1500	0.3150 M
15944	4-10-15	MANGANESE	0.1500	0.2790
16311	4-10-15	MANGANESE	0.1500	0.2270
INTERNATIONAL MIN. & CHEM. CORP., CINCINNATI, OHIO				
13370	4-16- 4	MAGNESIUM	1.0000	1.3000
13371	4-16- 4	MAGNESIUM	1.0000	1.3000
13593	8-10-15	MAGNESIUM	0.5000	0.8500
13594	6-12-18	MAGNESIUM	2.0000	2.5000
13793	16- 8- 8	MAGNESIUM	0.5000	0.6400
13794	6-12-18	MAGNESIUM	2.0000	2.9000
13915	4-16- 4	MAGNESIUM	1.0000	1.4200
15076	6-12-18	MAGNESIUM	2.0000	2.8400
15285	5-10-15	MAGNESIUM	2.0000	1.4000 *
15337	5-20-20	MAGNESIUM	0.5000	0.6800
15339	5-10-15	MAGNESIUM	2.0000	1.4600 *
15340	6-12-18	MAGNESIUM	2.0000	1.3600 *
15341	6-24-24	MAGNESIUM	0.5000	0.9300
15987	6-12-18	MAGNESIUM	2.0000	1.2800 *
15988	5-10-15	MAGNESIUM	0.5000	1.7300 M
16094	6-24-24	MAGNESIUM	0.5000	0.8600
16097	5-20-20	MAGNESIUM	0.5000	0.6800
16098	10-10-10	MAGNESIUM	0.5000	0.8200
13370	4-16- 4	COPPER	0.0800	0.0200 *
13371	4-16- 4	COPPER	0.0800	0.0200 *
13594	6-12-18	COPPER	0.0500	0.0380 *
13794	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
INTERNATIONAL MIN. & CHEM. CORP., CINCINNATI, OHIO (Cont'd.)				
13915	4-16- 4	COPPER	0.0800	0.0160 *
15076	6-12-18	COPPER	0.0500	0.0370 *
15340	6-12-18	COPPER	0.0500	0.0470
15987	6-12-18	COPPER	0.0500	0.0390 *
15076	6-12-18	IRON	0.3000	0.5100
15285	5-10-15	IRON	0.1000	0.2760
15337	5-20-20	IRON	0.1000	0.5400
15339	5-10-15	IRON	0.1000	0.2660
15340	6-12-18	IRON	0.3000	0.4680
15341	6-24-24	IRON	0.1000	0.5500
15987	6-12-18	IRON	0.3000	0.6500
15988	5-10-15	IRON	0.1000	0.2300
16094	6-24-24	IRON	0.1000	0.5600
16097	5-20-20	IRON	0.1000	0.5900
16098	10-10-10	IRON	0.1000	0.2700
15076	6-12-18	ZINC	0.1000	0.0820
15285	5-10-15	ZINC	0.0500	0.0190 *
15337	5-20-20	ZINC	0.0500	0.0470
15339	5-10-15	ZINC	0.0500	0.0200 *
15340	6-12-18	ZINC	0.1000	0.0730 *
15341	6-24-24	ZINC	0.0500	0.0280 *
15987	6-12-18	ZINC	0.1000	0.0680 *
15988	5-10-15	ZINC	0.0500	0.0240 *
16094	6-24-24	ZINC	0.0500	0.0260 *
16097	5-20-20	ZINC	0.0500	0.0240 *
16098	10-10-10	ZINC	0.0500	0.0220 *
INTERNATIONAL MIN. & CHEM. CORP., CLARKSVILLE, TENNESSEE				
13523	4-16- 4	MAGNESIUM	1.6900	1.9700
14228	4-16- 4	MAGNESIUM	1.6910	2.1000
14320	5-10-15	MAGNESIUM	1.6910	2.8800
15328	4-16- 4	MAGNESIUM	1.6910	2.0500
13523	4-16- 4	COPPER	0.0600	0.0260 *
14228	4-16- 4	COPPER	0.0600	0.0650
14320	5-10-15	COPPER	0.0600	0.0610
15328	4-16- 4	COPPER	0.0600	0.0420 *
14320	5-10-15	IRON	0.4270	0.4500
15328	4-16- 4	IRON	0.4270	0.8000
14320	5-10-15	MANGANESE	0.1620	0.1670
15328	4-16- 4	MANGANESE	0.1620	1.5700 M
14320	5-10-15	ZINC	0.4800	0.0420 *
15328	4-16- 4	ZINC	0.4800	0.1300 *
INTERNATIONAL MIN. & CHEM. CORP., SOMERSET, KENTUCKY				
13997	10-10-10	MAGNESIUM	0.5000	0.6400
14766	5-10-15	MAGNESIUM	1.5000	2.3600
14787	6-12-18	MAGNESIUM	2.0000	2.6400
15534	5-10-15	MAGNESIUM	1.5000	2.9000

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
INTERNATIONAL MIN. & CHEM. CORP., SOMERSET, KENTUCKY (Cont'd.)				
15535	5-10-15	MAGNESIUM	0.5000	1.5900 M
14766	5-10-15	COBALT	0.0006	0.9900 M
14787	6-12-18	COBALT	0.0006	0.9900 M
14766	5-10-15	COPPER	0.0500	0.0480
14787	6-12-18	COPPER	0.0500	0.0410
15534	5-10-15	COPPER	0.0500	0.0480
14766	5-10-15	IRON	0.4000	0.5100
14787	6-12-18	IRON	0.3000	0.5800
15534	5-10-15	IRON	0.4000	0.4700
15535	5-10-15	IRON	0.1000	0.3420 M
14766	5-10-15	ZINC	0.1000	0.0930
14787	6-12-18	ZINC	0.1000	0.1500
15534	5-10-15	ZINC	0.1000	0.1010
15535	5-10-15	ZINC	0.0500	0.0460
MOBIL CHEMICAL CO., AGRIC. CHEM. DIV., RICHMOND, VIRGINIA				
13163	4-16- 4	MAGNESIUM	0.5000	0.4700
13459	0-10-30	MAGNESIUM	0.5000	0.5100
13465	6-12-18	MAGNESIUM	0.5000	0.4200 *
13519	6-12-18	MAGNESIUM	0.5000	0.3700 *
13716	4-16- 4	MAGNESIUM	0.5000	0.4800
13757	6-18-12	MAGNESIUM	0.5000	0.4200 *
13758	5-20-20	MAGNESIUM	0.5000	0.4000 *
13759	6-12-18	MAGNESIUM	0.5000	0.4100 *
13760	10-10-10	MAGNESIUM	0.5000	0.3700 *
13867	5-10-15	MAGNESIUM	0.5000	0.5200
13868	6-12-18	MAGNESIUM	0.0500	0.4500 M
13981	6-12-18	MAGNESIUM	0.0500	0.3800 M
14052	4-16- 4	MAGNESIUM	0.5000	0.6000
14134	6-12-18	MAGNESIUM	0.5000	0.3500 *
14135	0-10-30	MAGNESIUM	0.5000	0.8400
14394	6-12-18	MAGNESIUM	0.5000	0.4100 *
14657	5-20-20	MAGNESIUM	0.5000	0.4600
15027	10-10-10	MAGNESIUM	0.1000	0.4000 M
15691	6-12-18	MAGNESIUM	0.5000	0.5000
15867	6-12-18	MAGNESIUM	0.5000	0.4400 *
16075	5-10-15	MAGNESIUM	0.5000	0.7800
16083	6-12-18	MAGNESIUM	0.5000	0.9000
16213	0-10-30	MAGNESIUM	0.5000	0.8800
16214	6-12-18	MAGNESIUM	0.5000	0.3500 *
13163	4-16- 4	COPPER	0.0500	0.0400
13459	0-10-30	COPPER	0.0500	0.0500
13465	6-12-18	COPPER	0.0500	0.0390 *
13519	6-12-18	COPPER	0.0500	0.0300 *
13716	4-16- 4	COPPER	0.0500	0.0480
13757	6-18-12	COPPER	0.0500	0.0440
13758	5-20-20	COPPER	0.0500	0.0390 *
13759	6-12-18	COPPER	0.0500	0.0370 *
13760	10-10-10	COPPER	0.0500	0.0410
13867	5-10-15	COPPER	0.0500	0.0730
13868	6-12-18	COPPER	0.0500	0.0430
13981	6-12-18	COPPER	0.0500	0.0460



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 CHEMICAL CO., AGRI. CHEM. DIV., RICHMOND, VIRGINIA (Cont'd.)				
14052	4-16- 4	COPPER	0.0500	0.0450
14134	6-12-18	COPPER	0.0500	0.0230 *
14135	0-10-30	COPPER	0.0500	0.0760
14394	6-12-18	COPPER	0.0500	0.0320 *
14657	5-20-20	COPPER	0.0500	0.0380 *
15691	6-12-18	COPPER	0.0500	0.0290 *
15867	6-12-18	COPPER	0.0500	0.0430
16075	5-10-15	COPPER	0.0500	0.0330 *
16083	6-12-18	COPPER	0.0500	0.0330 *
16213	0-10-30	COPPER	0.0500	0.0950
16214	6-12-18	COPPER	0.0500	0.0320 *
14394	6-12-18	IRON	0.1000	0.8000
14657	5-20-20	IRON	0.1000	0.9700
15691	6-12-18	IRON	0.1000	0.8500
15867	6-12-18	IRON	0.1000	0.8800
16075	5-10-15	IRON	0.1000	0.4500
16083	6-12-18	IRON	0.1000	0.7500
16213	0-10-30	IRON	0.1000	0.7500
16214	6-12-18	IRON	0.1000	0.8000
14394	6-12-18	MANGANESE	0.0500	0.0640
14657	5-20-20	MANGANESE	0.0500	0.0670
15691	6-12-18	MANGANESE	0.0500	0.0640
15867	6-12-18	MANGANESE	0.0500	0.0460
16075	5-10-15	MANGANESE	0.0500	0.0300 *
16083	6-12-18	MANGANESE	0.0500	0.0700
16213	0-10-30	MANGANESE	0.0500	0.1210 M
16214	6-12-18	MANGANESE	0.0500	0.0790
14394	6-12-18	ZINC	0.0500	0.0320 *
14657	5-20-20	ZINC	0.0500	0.0410
15691	6-12-18	ZINC	0.0500	0.0300 *
15867	6-12-18	ZINC	0.0500	0.4400 M
16075	5-10-15	ZINC	0.0500	0.0230 *
16083	6-12-18	ZINC	0.0500	0.0330 *
16213	0-10-30	ZINC	0.0500	0.1000 M
16214	6-12-18	ZINC	0.0500	0.0410
NORTH AMERICAN FERTILIZER CO., LOUISVILLE, KENTUCKY				
14751	5-10-15	COBALT	0.0005	0.9900 M
14482	8-10-15	COPPER	0.0500	0.0760
14751	5-10-15	COPPER	0.0500	0.0460
15501	8-10-15	COPPER	0.0500	0.0320 *
14482	8-10-15	IRON	0.1000	0.4100
14751	5-10-15	IRON	0.1000	0.4300
15501	8-10-15	IRON	0.1000	0.3140
14482	8-10-15	MANGANESE	0.0500	0.1300 M
14751	5-10-15	MANGANESE	0.0500	0.1170 M
15501	8-10-15	MANGANESE	0.0500	0.0700
14482	8-10-15	ZINC	0.0500	0.0080 *
14751	5-10-15	ZINC	0.0500	0.0080 *
15501	8-10-15	ZINC	0.0500	0.0070 *

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
OHIO VALLEY FERTILIZER, INC., MAYSVILLE, KENTUCKY				
14116	5-10-20	MAGNESIUM	1.5000	0.4100 *
14124	6-12-18	MAGNESIUM	1.5000	0.7700 *
14125	10-10-20	MAGNESIUM	1.5000	0.4200 *
14127	5-10-20	MAGNESIUM	1.5000	0.6000 *
15158	10-10-20	MAGNESIUM	1.0000	3.0400 M
15163	10-10-20	MAGNESIUM	1.0000	3.1000 M
15167	5-10-20	MAGNESIUM	1.0000	0.4300 *
15464	5-10-20	MAGNESIUM	1.5000	0.3700 *
15465	10-10-20	MAGNESIUM	1.5000	0.4000 *
15544	10-10-20	MAGNESIUM	1.0000	0.4800 *
16002	5-10-15	MAGNESIUM	2.0000	3.8200
F. S. ROYSTER GUANO CO., NORFOLK, VIRGINIA				
13265	0-10-30	MAGNESIUM	0.6000	0.4300 *
13266	4-12- 8	MAGNESIUM	0.6000	3.0000 M
13267	5-10-15	MAGNESIUM	1.2000	1.2100
13268	5-10-15	MAGNESIUM	1.2000	1.1500
13270	6-12-12	MAGNESIUM	0.6000	0.8100
13271	10-10-15	MAGNESIUM	1.2000	1.5000
13380	5-10-15	MAGNESIUM	1.2000	1.1900
13382	5-10-15	MAGNESIUM	1.2000	1.5000
13469	5-10-15	MAGNESIUM	1.2000	1.3000
13471	10-10-15	MAGNESIUM	1.2000	1.4500
13472	6-12-12	MAGNESIUM	0.6000	1.2400 M
13474	4-12- 8	MAGNESIUM	0.6000	1.7000 M
13841	4-16- 4	MAGNESIUM	1.2000	1.4100
13843	5-10-15	MAGNESIUM	1.2000	1.2700
13971	7-28-14	MAGNESIUM	0.5000	0.6200
13972	5-10-15	MAGNESIUM	1.2000	1.1700
13973	6-12-12	MAGNESIUM	0.6000	0.9600
14049	4-12- 8	MAGNESIUM	0.6000	1.1000
14050	5-10-15	MAGNESIUM	1.2000	1.4700
14051	5-10-15	MAGNESIUM	1.2000	1.3100
14137	4-12- 8	MAGNESIUM	0.6000	1.0300
14139	5-10-15	MAGNESIUM	1.2000	1.0000 *
14140	10-10-15	MAGNESIUM	1.2000	1.2800
14143	5-10-15	MAGNESIUM	1.2000	0.9400 *
14144	0-20-20	MAGNESIUM	0.6000	0.6100
14145	6-12-12	MAGNESIUM	0.6000	0.7500
14239	5-10-15	MAGNESIUM	1.2000	1.0000 *
14240	4-16- 4	MAGNESIUM	1.2000	1.1500
14308	0-20-20	MAGNESIUM	0.6000	0.8700
14311	4-12- 8	MAGNESIUM	0.6000	0.9600
14312	10-10-15	MAGNESIUM	1.2000	1.3400
14313	5-10-15	MAGNESIUM	1.2000	1.3900
14357	4-12- 8	MAGNESIUM	0.6000	1.2400 M
14359	5-10-15	MAGNESIUM	1.2000	1.3500
14361	5-10-15	MAGNESIUM	1.2000	1.0700 *
14362	6-12-12	MAGNESIUM	0.6000	0.8100
14522	5-10-15	MAGNESIUM	1.2000	1.0400 *
14523	4-12- 8	MAGNESIUM	0.6000	1.1400
14548	6-12-12	MAGNESIUM	0.6000	0.9200



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 CO., NORFOLK, VIRGINIA				
14550	5-10-15	MAGNESIUM	1.2000	1.1800
14551	10-10-15	MAGNESIUM	1.0000	1.3300
14720	4-12- 8	MAGNESIUM	0.6000	1.1700
14721	5-10-15	MAGNESIUM	1.2000	1.2200
14814	5-10-15	MAGNESIUM	1.2000	1.6200
14826	0-20-20	MAGNESIUM	0.6000	0.7200
14880	5-10-15	MAGNESIUM	1.2000	1.1000
14881	5-10-15	MAGNESIUM	1.2000	0.9400 *
14882	6-12-12	MAGNESIUM	0.6000	0.8700
14883	5-10-15	MAGNESIUM	1.2000	1.0800 *
15090	4-12- 8	MAGNESIUM	0.6000	1.0500
15091	10-10-10	MAGNESIUM	0.5000	0.7600
15204	5-10-15	MAGNESIUM	1.2000	1.1000
15275	0-20-20	MAGNESIUM	0.6000	0.9000
15276	0-20-20	MAGNESIUM	0.5000	0.8900
15421	4-12- 8	MAGNESIUM	0.6000	0.9300
15448	5-10-15	MAGNESIUM	1.2000	1.0500 *
15449	4-12- 8	MAGNESIUM	0.6000	0.9400
15451	5-10-15	MAGNESIUM	1.2000	1.2000
15452	6-12-12	MAGNESIUM	0.6000	0.9000
15530	10-10-15	MAGNESIUM	1.2000	1.0900
15552	6- 6-18	MAGNESIUM	1.2000	1.2000
15684	5-10-15	MAGNESIUM	1.2000	1.2800
15685	4-12- 8	MAGNESIUM	0.6000	1.1700
15835	5-10-15	MAGNESIUM	1.2000	1.2400
15836	6-12-12	MAGNESIUM	0.6000	0.9800
15844	0-20-20	MAGNESIUM	0.6000	0.6600
15845	4-12- 8	MAGNESIUM	0.6000	1.1000
15874	5-20-20	MAGNESIUM	0.5000	0.1800 *
15932	5-10-15	MAGNESIUM	1.2000	1.1000
15933	10-10-10	MAGNESIUM	0.5000	1.0100 M
15934	6-12-12	MAGNESIUM	0.6000	0.7600
15974	3-12-12	MAGNESIUM	0.6000	0.9700
13267	5-10-15	COPPER	0.0500	0.0700
13271	10-10-15	COPPER	0.0500	0.0700
13382	5-10-15	COPPER	0.0500	0.0800
13469	5-10-15	COPPER	0.0500	0.0760
13471	10-10-15	COPPER	0.0500	0.0690
13841	4-16- 4	COPPER	0.0500	0.0480
13843	5-10-15	COPPER	0.0500	0.0750
13971	7-28-14	COPPER	0.0500	0.0530
14051	5-10-15	COPPER	0.0500	0.0710
14143	5-10-15	COPPER	0.0500	0.0600
14239	5-10-15	COPPER	0.0500	0.0630
14240	4-16- 4	COPPER	0.0500	0.0460
14312	10-10-15	COPPER	0.0500	0.0660
14313	5-10-15	COPPER	0.0500	0.0590
14361	5-10-15	COPPER	0.0500	0.0840
14522	5-10-15	COPPER	0.0500	0.0460
14550	5-10-15	COPPER	0.0500	0.0650
14551	10-10-15	COPPER	0.0500	0.0690
14814	5-10-15	COPPER	0.0500	0.0540

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 CO., NORFOLK, VIRGINIA				
14880	5-10-15	COPPER	0.0500	0.0480
14883	5-10-15	COPPER	0.0500	0.0480
15091	10-10-10	COPPER	0.0500	0.0570
15448	5-10-15	COPPER	0.0500	0.0650
15530	10-10-15	COPPER	0.0500	0.0630
15684	5-10-15	COPPER	0.0500	0.0400
15874	5-20-20	COPPER	0.0500	0.0600
15932	5-10-15	COPPER	0.0500	0.0800
15933	10-10-10	COPPER	0.0500	0.0480
14312	10-10-15	IRON	0.1000	0.3920
14313	5-10-15	IRON	0.1000	0.2520
14361	5-10-15	IRON	0.1000	0.2510
14522	5-10-15	IRON	0.1000	0.3290
14550	5-10-15	IRON	0.1000	0.2790
14551	10-10-15	IRON	0.1000	0.3400
14880	5-10-15	IRON	0.1000	0.2700
14883	5-10-15	IRON	0.1000	0.2520
15091	10-10-10	IRON	0.1000	0.4800
15448	5-10-15	IRON	0.1000	0.2280
15530	10-10-15	IRON	0.1000	0.4000
15684	5-10-15	IRON	0.1000	0.2400
15874	5-20-20	IRON	0.1000	1.7900
15932	5-10-15	IRON	0.1000	0.2500
15933	10-10-10	IRON	0.1000	0.7000
14312	10-10-15	MANGANESE	0.0500	0.0590
14313	5-10-15	MANGANESE	0.0500	0.0560
14361	5-10-15	MANGANESE	0.0500	0.0690
14522	5-10-15	MANGANESE	0.0500	0.0430
14550	5-10-15	MANGANESE	0.0500	0.0550
14551	10-10-15	MANGANESE	0.0500	0.0560
14814	5-10-15	MANGANESE	0.0500	0.0510
14880	5-10-15	MANGANESE	0.0500	0.0510
14883	5-10-15	MANGANESE	0.0500	0.0540
15091	10-10-10	MANGANESE	0.0500	0.1500 M
15448	5-10-15	MANGANESE	0.0500	0.0600
15530	10-10-15	MANGANESE	0.0500	0.0560
15684	5-10-15	MANGANESE	0.0500	0.0440
15874	5-20-20	MANGANESE	0.0500	0.1410 M
15932	5-10-15	MANGANESE	0.0500	0.0670
15933	10-10-10	MANGANESE	0.0500	0.1320 M
14312	10-10-15	ZINC	0.0500	0.0460
14313	5-10-15	ZINC	0.0500	0.0430
14361	5-10-15	ZINC	0.0500	0.0550
14522	5-10-15	ZINC	0.0500	0.0370 *
14550	5-10-15	ZINC	0.0500	0.0440
14551	10-10-15	ZINC	0.0500	0.0480



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 CO., NORFOLK, KENTUCKY				
14814	5-10-15	ZINC	0.0500	0.0430
14880	5-10-15	ZINC	0.0500	0.0420
14883	5-10-15	ZINC	0.0500	0.0380 *
15091	10-10-10	ZINC	0.0500	0.0450
15448	5-10-15	ZINC	0.0500	0.0510
15530	10-10-15	ZINC	0.0500	0.0480
15684	5-10-15	ZINC	0.0500	0.0380 *
15874	5-20-20	ZINC	0.0500	0.0900
15932	5-10-15	ZINC	0.0500	0.0630
TENNESSEE CORPORATION, NEW ALBANY, INDIANA				
15482	10-10-20	COPPER	0.1900	0.0980 *
15923	10-10-20	COPPER	0.1900	0.1700
15482	10-10-20	IRON	0.1500	0.5100
15923	10-10-20	IRON	0.1500	1.1300
15482	10-10-20	MANGANESE	0.1700	0.1420
15923	10-10-20	MANGANESE	0.1700	0.1680
15482	10-10-20	ZINC	0.2600	0.1400 *
15923	10-10-20	ZINC	0.2600	0.2200

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



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

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



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

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