

**REPORT OF  
ANALYSES OF OFFICIAL  
FERTILIZER SAMPLPES**

JULY 1967 - JUNE 1968



University of Kentucky  
Agricultural Experiment Station  
Lexington

DIVISION OF REGULATORY SERVICES  
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This is the first bulletin that we have published since 1946 that contains the results of the analysis of all official samples secured in a 12-month period.

This bulletin contains the results of analyses of 3,452 official samples of commercial fertilizer made during the period July 1, 1967 through June 30, 1968.

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" "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 =	15.0
Total computed guaranteed value		<u>50.0</u>

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 =	15.1
Total computed value		<u>50.8</u>

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.

(Continued)

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.

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 overrun 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. In 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.

## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Agrico Chemical Company  
5050 Poplar Ave.  
Memphis, Tennessee 38101

Allied Chemical Corporation  
South Point,  
Ohio 45680

American Cyanamid Company  
P. O. Box 400  
Princeton, New Jersey 08540

Armour Agricultural Chemical Co.  
Box 1685  
Atlanta, Georgia 30301

Ballard County Coop.  
LaCenter,  
Kentucky 42056

Blackstone Guano Co.  
c/o Mobil Chemical Co.  
401 East Main St.  
Richmond, Virginia 23208

Bluegrass Plant Foods, Inc.  
447 N. Main Street  
Cynthiana, Kentucky 41031

Bunton Seed Company  
939 Jefferson Street  
Louisville, Kentucky 40202

Burley Belt Fertilizer Company  
Route #4  
Lexington, Kentucky 40505

Burley Belt Chemical Co.  
Box 7  
London, Kentucky 40741

Central Farmers Fertilizer Co.  
100 South Wacker Drive  
Chicago, Illinois 60606

Chevron Chemical Company  
940 Hensley Street  
Richmond, California 94801

Chilean Nitrate Sales Corporation  
120 Broadway  
New York, New York 10005

Christian County Supply Co.  
Skyline Drive  
Hopkinsville, Kentucky 42240

Cline Fertilizer Company  
P. O. Box 67  
Ewing, Virginia 24248

Cominco American, Inc.  
818 West Riverside Ave.  
Spokane, Washington 99201

Commercial Solvents Corporation  
260 Madison Avenue  
New York, New York 10016

Commonwealth Fertilizer Company  
Morgantown Road  
Russellville, Kentucky 42276

E lance Products Co.  
740 South Alabama Street  
Indianapolis, Indiana 46206

Farmers Chemical Association  
P. O. Box 67  
Tyner, Tennessee 37392

Farmland Industries, Inc.  
P. O. Box 7305  
Kansas City, Missouri 64116

Farmsco of Kentucky  
Route 1  
Gracey, Kentucky 42232

Farmers Fertilizer Company  
Smiths Grove,  
Kentucky 42171

Federal Chemical Company  
646 Starks Building  
Louisville, Kentucky 40202

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

Franklin Crop Service  
Route #3  
Franklin, Kentucky 42134

Frasier Supply Company  
505 West Main Street  
Glasgow, Kentucky 42141

Free Flow Fertilizer Company  
Box 119  
Maumee, Ohio 43537

Glasgow Fertilizer Company  
Industrial Avenue  
Glasgow, Kentucky 42141

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

Graves County Soil Improvement Assn.  
Mayfield,  
Kentucky 42066

Green 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

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

Hercules Powder Company  
910 Market Street  
Wilmington, Delaware 19899

Heritage House Products  
300 Union Commerce Building  
Cleveland, Ohio 44115

Hillenmeyer Nurseries  
R.R. #6, Sandersville Road  
Lexington, Kentucky 40505

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

Howe-Hilliard Grain Company  
Mayfield,  
Kentucky 42066

Hutson Chemical Company  
103 Maple Street  
Murray, Kentucky 42071

Hydroponic Chemical Company  
Box 97-C  
Copley, Ohio 44321

International Minerals & Chemical Corp.  
Old Orchard Road  
Skokie, Illinois 60078

Kaiser Agricultural Chemicals  
P. O. Box 246  
Savannah, Georgia 31402

Kengas Division  
Tennessee Liquefied Gas  
3002 Fairview Drive  
Owensboro, Kentucky 42301

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

Kerr-McGee Chemical Corporation  
Kerr-McGee Building  
Oklahoma City, Oklahoma 73102

Martin Bros. Implement Company  
Roanoke,  
Illinois 61561

Mayfield Milling Company  
Box 311  
Mayfield, Kentucky 42066

(Continued)

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

Mays Oil & Allied Chemical Co.  
Box 347  
Princeton, Kentucky 42445

Miles Farms  
Route #3  
Owensboro, Kentucky 42301

Mississippi Chemical Corporation  
P. O. Box 388  
Yazoo City, Mississippi

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

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

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

North American Fertilizer Company  
Preston Street at Bergman  
Louisville, Kentucky 40217

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

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

Pennsylvania Dutch Fertilizer Co.  
Box 180  
Lebanon, Pennsylvania 17042

Phillips Petroleum Company  
841 Adams Building  
Bartlesville, Oklahoma 74004

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

Royster Company  
P. O. Drawer 1940  
Norfolk, Virginia 23501

Schochoh Crop Service  
Route #5  
Russellville, Kentucky 42276

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

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

Sinclair Petrochemicals, Inc.  
120 South Riverside Plaza  
Chicago, Illinois 60606

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

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

Stanley Crop Service  
Stanley,  
Kentucky 42375

Sterns Nurseries, Inc.  
404 William Street  
Geneva, New York 14456

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

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

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

(Continued)



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

Tobacco States Chemical Company  
Box 479  
Lexington, Kentucky 40501

Tompkinsville Fertilizer Company  
Tompkinsville,  
Kentucky 42167

Union Fertilizer Company  
Morganfield,  
Kentucky 42437

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

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

The listing on pages 12 thru 22 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 23 thru 26 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.

## "WILD" SAMPLES

No matter how much care is exerted in a fertilizer plant, an occasional "wild" sample may appear. Such samples are caused by unusual circumstances such as putting the wrong fertilizer in bags labeled for another grade or large errors in mixing or manipulation in the factory that cannot be said to represent usual procedure.

Computations that include such samples would only throw the coefficient of variation as well as the average analysis completely out of line. They are judged to be so abnormal they have not been included in these statistical determinations. There were only 20 such samples in the mixed fertilizer samples reported. As a basis for excluding these samples, the following rules were followed:

1. Throw out any samples more than 110% or less than 90% in relative value except:
  - a. The sample is within  $\pm 10\%$  of the average sample value.
  - b. The variation of all the sample values is such that the samples more than  $\pm 10\%$  appear to fit a normal distribution pattern.
2. Throw out individual samples whose ratio of ingredients differs strongly from the balance of samples of the grade. These may include samples:
  - a. Whose ratio strongly suggests an entirely different grade of fertilizer.
  - b. Two or more of whose ingredients are higher or lower by 10% or more of the extreme values of the remaining normal samples.

## NOTE ON METHODS OF COMPUTATION USED

It is apparent that the computation of coefficients of variation and even the simple averages for a large number of samples requires a great many mathematical operations. The cost would make the operation impossible by ordinary methods, but the use of the digital computer leased by the University of Kentucky enables us to make these computations.

The machine program for this work was developed especially for the purpose and is available for use on the computer at the University of Kentucky. It will be duplicated for use on other IBM 360 computers at no charge.

## Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968

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, Tenn.	0-20- 0	2	---	21.3	---	---	0.2	---
	0-20-20	3	---	21.8	20.4	---	1.4	4.2
	4-12- 8	5	4.5	12.3	8.5	8.1	4.6	7.3
	4-16- 4	2	4.1	15.9	4.4	5.2	0.9	11.3
	5-10-15	34	5.3	10.5	14.9	6.9	8.4	7.8
	5-20-20	19	5.3	19.5	20.0	5.4	5.0	3.5
	6- 6-18	4	6.8	6.3	18.5	12.4	2.5	1.7
	6-12-12	19	6.1	12.1	12.7	5.6	4.8	6.5
	6-24-24	2	6.1	23.1	24.6	8.1	1.8	2.3
	8- 8-18	4	8.4	8.2	18.4	1.5	3.2	1.7
	10-10-10	13	10.3	10.6	10.3	2.4	3.6	3.1
	12-12-12	5	12.3	12.4	12.5	2.5	3.7	2.2
	15-15-15	2	15.0	15.9	15.9	0.0	1.3	1.3
	30- 0- 0	2	30.6	---	---	3.0	---	---
82- 0- 0	32	82.0	---	---	0.1	---	---	
	ALL GRADES	153	% OF GUAR.			CV		
			101.1	102.2	101.5	4.5	4.2	4.8
ARMOUR AGRICULTURAL CHEMICAL COMPANY Atlanta, Ga.	0- 0-50	4	---	---	51.0	---	---	1.4
	0-20- 0	8	---	18.8	---	---	6.6	---
	0-20-20	3	---	19.8	20.2	---	7.3	4.8
	0-25-25	4	---	24.3	23.9	---	6.1	8.0
	0-25-25B	2	---	21.7	23.1	---	5.2	3.3
	0-46- 0	4	---	47.1	---	---	0.9	---
	3-12-24	2	3.8	11.5	20.6	5.6	4.9	20.3
	4-12- 8	8	4.4	12.1	9.3	6.5	5.3	6.4
	5-10- 5	2	7.3	10.0	6.9	15.5	3.5	9.2
	5-10-10	5	5.7	10.3	11.8	8.3	4.6	9.0
	5-10-15	65	5.3	10.1	14.9	6.1	3.9	4.9
	5-20-20	34	5.2	19.0	20.0	5.9	5.3	5.3
	6- 6-18	3	6.6	7.2	17.8	6.0	8.4	1.6
	6-12-12	40	6.2	12.0	12.4	5.4	4.9	8.3
	6-12-18	31	6.1	12.0	18.0	7.8	3.0	4.7
	10- 6- 4	2	9.9	7.8	6.1	2.8	0.0	4.6
	10-10-10	42	10.3	10.2	10.6	5.7	5.0	7.1
	10-10-20	3	10.0	10.0	19.4	7.5	0.6	3.3
	12-12-12	10	11.7	12.5	12.7	4.3	2.1	4.7
	12-12-18	11	12.0	12.1	17.9	5.5	5.0	6.6
12-24-24	2	12.3	23.7	23.8	2.8	0.1	7.7	
15-15-15	10	15.3	15.9	16.3	2.9	2.8	4.1	
15-40- 5	5	15.7	41.0	6.2	1.3	1.0	12.6	

Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968 (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 AGRICULTURAL CHEMICAL COMPANY Atlanta, Ga. (Cont'd)	28- 0- 0	2	29.5	---	---	0.9	---	---
	33.5- 0- 0	5	34.4	---	---	1.3	---	---
	82- 0- 0	3	82.0	---	---	0.1	---	---
	ALL GRADES	320	% OF GUAR.			CV		
			103.0	99.9	101.7	5.4	4.1	6.3
Cincinnati, Ohio	5-10-10	2	5.1	10.8	11.4	2.7	3.2	0.1
	5-10-15	7	5.6	9.9	15.1	4.8	2.6	1.7
	5-20-20	6	5.2	19.9	19.7	2.6	2.1	3.8
	6-12-12	5	6.0	12.6	12.2	5.2	5.6	6.8
	6-12-18	4	6.3	12.2	18.0	5.2	4.5	6.0
	10-10-10	3	9.9	11.2	11.7	6.7	10.3	7.4
	ALL GRADES	31	% OF GUAR.			CV		
			104.0	101.7	101.7	4.5	4.5	4.3
Jeffersonville, Ind.	0-20- 0	2	---	19.9	---	---	1.4	---
	0-25-25	2	---	25.4	24.0	---	3.0	1.7
	4-12- 8	2	4.5	11.6	9.2	1.5	6.7	9.2
	5-10-10	2	5.5	11.1	10.8	11.6	7.6	3.9
	5-10-15	9	5.3	10.2	15.3	7.2	7.9	6.0
	5-20-20	8	5.5	19.2	19.8	13.8	5.1	3.9
	6-12-12	5	6.1	11.8	12.2	4.1	2.6	1.6
	6-12-18	5	6.0	12.0	18.7	8.4	1.8	4.0
	10-10-10	11	10.3	10.7	11.1	7.0	7.2	9.6
	ALL GRADES	51	% OF GUAR.			CV		
				104.0	100.7	103.2	7.9	5.1
Nashville, Tenn.	3-12- 6	3	4.1	11.6	7.2	19.7	1.3	6.0
	4-12- 8	4	4.6	11.9	9.5	8.3	2.1	6.7
	5-10-10	3	5.5	10.1	10.4	5.2	8.6	6.0
	5-10-15	2	5.3	9.9	15.1	6.7	2.8	7.0
	5-20-20	7	5.1	19.1	20.2	6.1	3.3	5.6
	6-12-12	12	6.1	11.7	12.5	6.1	4.7	6.6
	6-12-18	4	6.0	11.3	17.9	2.1	4.5	4.7
	6-18-12	2	6.0	15.9	13.0	2.3	15.1	1.6
	6-24-24	3	6.4	24.0	24.6	0.9	1.9	3.2
	10-10-10	8	9.8	10.3	10.7	3.3	3.9	3.7
	12-24-24	2	12.5	25.4	23.9	4.5	1.1	4.7
	15-15-15	2	15.5	15.8	15.9	1.3	1.3	0.9
	ALL GRADES	59	% OF GUAR.			CV		
				103.1	99.1	103.9	5.6	4.1

Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968  
(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
BLUEGRASS PLANT FOODS, INC. Danville, Ky.	0-20- 0	2	---	18.5	---	---	1.9	---
	5-10-10	2	5.9	9.7	11.9	1.2	0.7	2.3
	5-10-15	10	5.4	9.9	16.4	5.3	3.9	3.9
	5-20-20	5	5.8	20.5	21.5	4.5	4.7	3.3
	6- 6-18	4	6.1	6.5	19.5	2.3	13.6	12.0
	6- 8- 6	2	6.8	8.0	7.2	3.1	5.3	4.9
	6-12-12	6	7.1	11.6	12.8	4.6	5.8	9.3
	10-10-10	6	10.6	10.0	11.2	3.9	6.5	5.3
	12-12-12	3	11.5	12.3	13.2	8.3	7.3	7.6
	ALL GRADES	47	% OF GUAR.			CV		
			107.7	100.1	108.7	4.3	5.7	6.1
BURLEY BELT FERTILIZER COMPANY Lexington, Ky.	0-20-20	3	---	20.2	19.4	---	2.0	5.3
	0-25-25	2	---	25.2	24.7	---	7.8	3.7
	3- 9- 6	2	3.5	8.9	7.6	13.9	0.8	3.7
	4-12- 8	2	4.4	11.9	8.7	0.0	4.7	4.8
	4-16- 4	3	4.6	15.8	5.3	4.5	6.2	19.7
	5-10-10	5	5.2	10.1	10.3	4.9	3.1	6.1
	5-10-15	12	5.3	10.0	15.4	3.6	2.6	3.5
	5-20-20	6	5.5	19.6	19.8	4.8	3.5	4.5
	6- 6-18	6	6.0	6.4	18.2	4.8	5.3	1.7
	6- 8- 6	3	6.5	7.8	7.1	0.8	8.6	5.0
	6-12-18	3	6.4	12.2	17.8	5.5	3.5	4.8
	8-10-15	6	8.3	10.2	15.3	2.7	4.0	1.8
	8-16-16	3	7.7	15.7	17.7	5.2	1.9	6.9
	10-10-10	23	10.2	10.3	10.2	4.0	5.0	5.5
	10-10-20	3	10.0	10.0	20.2	5.5	9.4	4.7
	12-12-12	6	12.3	12.1	12.0	2.3	2.3	3.1
20-10-10	2	19.6	10.6	11.3	0.3	4.6	3.7	
ALL GRADES	102	% OF GUAR.			CV			
		104.7	101.6	101.9	4.1	4.3	5.0	
BURLEY BELT CHEMICAL CO. London, Ky.	0- 0-60	2	---	---	59.4	---	---	4.7
	0-20-20	2	---	21.2	18.8	---	0.6	3.0
	3- 9- 6	3	3.6	8.8	6.8	9.6	9.5	3.7
	5-10-10	4	5.2	10.2	10.0	8.0	0.8	1.9
	5-10-15	3	5.3	10.2	15.0	3.7	5.9	3.5
	5-20-20	7	5.2	19.8	19.9	7.9	3.4	6.4

Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968  
 (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 CHEMICAL CO. London, Ky. (Cont.d)	6-12-12	14	6.3	12.0	12.1	7.6	6.3	5.1
	10-10-10	14	10.3	10.3	10.0	3.3	3.3	3.0
	12-12-12	3	11.7	12.4	11.6	1.3	5.2	4.3
	ALL GRADES	61	% OF GUAR.			CV		
			104.1	100.5	100.2	5.9	4.4	4.1
COMMONWEALTH FERTILIZER COMPANY Russellville, Ky.	4-12- 8	2	4.7	12.9	10.7	0.0	6.0	14.5
	4-16- 4	2	3.9	17.1	3.5	0.0	2.9	16.1
	5-10-15	3	5.8	11.0	15.8	3.6	1.8	5.3
	5-20-20	11	5.5	19.7	20.2	6.2	4.6	9.0
	6-12-12	8	6.1	13.4	13.0	5.4	4.4	6.0
	6-12-12ME	2	6.3	12.6	13.5	6.7	1.7	0.1
	6-18-12	7	6.2	17.9	13.5	7.6	4.6	8.6
	6-21-18	2	6.8	20.1	18.7	0.0	3.8	5.2
	6-21-18ME	2	6.7	20.6	18.1	3.1	0.0	6.6
	7-21-10	4	6.7	19.7	13.1	4.2	4.3	12.4
	8-12-15	3	7.2	14.2	14.5	4.8	11.7	15.2
	8-12-15ME	2	7.7	12.3	16.1	3.6	4.0	2.6
	10-10-10	14	9.3	11.1	12.2	7.2	9.0	9.1
	82- 0- 0	3	82.0	---	---	0.1	---	---
ALL GRADES	70	% OF GUAR.			CV			
			100.3	102.9	109.0	4.4	5.0	8.6
FEDERAL CHEMICAL COMPANY Humboldt, Tenn.	4-12-16	2	4.7	12.4	16.7	6.0	4.5	2.9
	5-10-15	2	5.3	9.6	13.9	9.4	1.4	3.5
	5-25-25	2	6.0	23.7	15.4	4.7	10.1	1.8
	6-12-12	2	6.2	12.0	11.6	1.1	1.7	6.1
	12-12-12	3	11.3	13.6	12.4	2.8	13.2	9.3
ALL GRADES	17	% OF GUAR.			CV			
			103.4	102.5	100.9	4.7	6.5	4.9
Louisville, Ky.	0- 0-50	2	---	---	50.9	---	---	0.8
	0-20- 0	7	---	19.5	---	---	3.5	---
	0-20-20	13	---	19.6	20.0	---	5.4	10.3
	4-12- 8	10	4.5	12.7	10.6	9.0	10.3	15.6
	4-16- 4	3	4.5	15.0	9.2	6.3	4.6	42.8
	5-10-15	28	5.7	10.5	15.1	7.5	7.2	3.8
	5-20-20	35	5.4	19.4	20.1	11.9	5.0	7.1
	5-25-15	2	5.9	22.9	16.6	20.5	0.2	7.2

Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968  
(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 COMPANY Louisville, Ky. (Cont'd)	6- 6-18	4	6.2	8.1	19.6	5.4	17.7	9.1
	6-12-12	38	6.5	12.4	12.8	10.0	4.8	8.0
	6-18-12	2	6.0	17.3	12.3	1.2	4.9	14.9
	6-24-24	2	6.4	22.3	25.4	12.2	2.5	11.6
	9-10-15	12	8.9	10.5	16.0	3.7	2.6	3.6
	10-10-10	32	10.1	10.6	11.0	5.5	5.4	9.2
	10-10-15	7	10.5	10.3	15.9	4.1	14.1	5.8
	12-12-12	11	11.7	12.3	12.8	5.1	3.4	8.1
	12-12-12ME	3	10.9	12.4	12.3	14.7	12.0	1.6
	33.5- 0- 0	3	34.3	---	---	1.6	---	---
	ALL GRADES	218	% OF GUAR.			CV		
		104.5	101.4	104.8	7.9	6.2	8.9	
FRASIER FARM SUPPLY CO. Glasgow, Ky.	5-20-20	4	5.0	20.0	21.2	2.0	2.2	2.9
	6-12-12	5	5.4	10.4	13.8	11.5	17.3	10.6
	10-10-10	4	9.9	9.7	11.1	6.2	11.4	16.4
	ALL GRADES	24	% OF GUAR.			CV		
		100.6	98.2	107.4	6.8	10.6	10.0	
GLASGOW FERTILIZER CO. Glasgow, Ky.	4-12- 8	2	4.6	11.8	9.5	3.0	2.4	13.4
	5-10-15	3	5.5	10.3	16.2	3.8	2.0	5.3
	5-10-15ME	4	5.6	10.3	16.1	3.9	3.7	3.9
	5-20-20	6	5.3	20.5	20.1	6.1	9.0	7.6
	6-12-12	5	8.1	12.4	14.2	40.3	13.1	8.5
	10-10-10	9	10.0	10.6	11.0	3.2	3.1	7.5
	12-12-12	2	12.7	12.3	12.9	1.6	4.0	1.6
	12-24-24	2	12.3	24.1	21.7	3.4	2.0	11.4
	20-10-10	2	20.0	10.4	11.0	0.3	3.4	5.8
	ALL GRADES	41	% OF GUAR.			CV		
		107.2	103.2	106.3	8.2	5.2	7.2	
W.R. GRACE & COMPANY Nashville, Tenn.	0-20- 0	2	---	19.7	---	---	1.4	---
	0-20-20	2	---	20.1	20.0	---	4.2	5.6
	3-10-30	6	3.5	10.4	29.4	11.4	5.5	1.8
	4-12- 8	3	5.0	10.9	9.5	4.1	2.4	1.0
	5-10-15	11	5.0	9.8	15.1	3.4	1.7	1.9
	5-20-20	13	5.3	19.8	20.1	6.1	1.8	4.3
	6-12-12	7	5.8	12.1	12.7	6.0	2.6	4.6
	6-24-24	2	6.3	24.2	23.1	0.0	0.3	4.9
	10-10-10	10	10.2	10.0	10.5	3.8	3.0	3.5



Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968  
(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 & COMPANY Nashville, Tenn. (Cont'd)	10-10-15	4	10.5	10.1	15.5	1.6	5.2	3.9
	15-15-15	3	15.2	15.9	14.8	1.0	7.6	4.9
	ALL GRADES	68	% OF GUAR.			CV		
			103.4	99.5	101.0	4.6	3.1	3.5
New Albany, Ind.	0-20- 0	11	---	18.9	---	---	4.8	---
	0-25-25	4	---	27.0	23.5	---	4.8	7.4
	3-10-30	2	3.9	10.0	29.4	1.8	2.8	2.4
	4-12- 8	11	4.9	12.4	9.0	8.6	2.3	8.5
	5-10-15	24	5.3	10.4	15.4	4.7	6.0	5.4
	5-20-20	21	5.4	20.3	20.0	7.0	3.4	3.7
	6- 6-18	3	6.5	7.2	18.6	8.5	4.2	1.5
	6-12-12	19	6.5	12.7	12.2	7.4	3.2	6.4
	6-12-18	6	6.2	12.4	18.2	3.9	2.2	2.5
	6-24-24	3	5.9	24.7	23.9	6.7	2.1	2.3
	6-38- 6	4	6.2	36.5	7.6	3.5	2.5	3.8
	10-10-10	22	10.0	10.8	10.8	4.3	4.8	6.3
	12-12-12	7	11.7	12.5	12.6	2.6	5.6	3.3
	ALL GRADES	146	% OF GUAR.			CV		
		104.9	102.7	102.9	5.6	4.0	4.9	
GRO-GREEN CHEMICAL CO. Shelbyville, Ky.	5-10-15	3	7.2	10.8	12.4	28.2	7.9	13.3
	5-20-20	3	6.2	16.9	19.3	5.7	2.6	14.8
	8-10-15	8	8.4	10.5	13.3	7.6	8.7	7.4
	8-12-15	2	8.5	12.3	14.1	4.1	14.9	1.0
	8-12-15ME	3	8.8	14.3	13.1	3.0	15.0	14.9
	9-13-12	3	10.0	15.1	11.2	9.5	17.7	20.1
	10-10-10	5	10.0	10.8	9.8	6.1	18.7	14.7
	ALL GRADES	41	% OF GUAR.			CV		
		110.1	102.8	98.5	9.0	12.1	12.3	
GULF OIL CORP. Cecilia, Ky.	0-20- 0	2	---	19.4	---	---	8.7	---
	4-12- 8	5	5.0	12.4	8.7	7.4	7.5	11.2
	5-10-15	6	5.6	9.8	16.6	5.7	3.0	2.5
	5-20-20	4	5.4	20.1	20.2	9.4	5.2	5.1
	6-12-12	3	6.7	12.5	12.2	5.1	1.8	9.4
	6-24-12	3	6.6	24.4	11.9	0.1	0.6	2.9

Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968  
(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 CORP. Cecilia, Ky. (Cont'd)	8-10-15	2	8.2	10.3	13.7	0.8	0.7	3.6	
	10-10-10	5	10.2	10.9	11.0	5.0	5.1	5.2	
	12-12-12	3	12.3	12.6	11.8	2.4	6.4	5.6	
	ALL GRADES	33	% OF GUAR.			CV			
			107.7	102.1	103.9	4.8	4.4	5.7	
	Henderson, Ky.	4-10-15	2	4.8	10.7	16.5	7.4	13.2	4.2
		5-20-20	8	5.6	19.3	21.0	5.6	3.6	3.0
		5-20-30	4	5.2	20.1	30.4	5.5	4.7	1.1
		6-24-24	2	6.1	23.5	24.9	1.1	3.6	1.2
		10-10-10	3	9.9	9.8	11.1	3.5	7.1	6.1
12-12-12		2	9.5	18.3	15.1	8.2	0.3	7.1	
30- 0- 0		2	30.9	---	---	0.0	---	---	
ALL GRADES	28	% OF GUAR.			CV				
		102.5	101.6	106.2	5.0	5.2	3.7		
INTERNATIONAL MINERALS & CHEMICAL CORP. Cincinnati, Ohio	0-20-20	2	---	20.5	19.4	---	7.5	0.2	
	0-25-25	2	---	25.1	24.1	---	2.2	1.1	
	4-12- 8	5	4.6	12.7	9.2	8.0	3.6	21.1	
	5-10-15	26	5.2	10.2	15.5	6.3	3.4	3.1	
	5-20-20	14	5.2	19.4	20.3	11.5	2.7	6.1	
	6- 6-18	3	5.4	6.7	16.9	15.1	16.1	8.5	
	6-12-12	5	6.2	12.4	12.4	3.6	9.0	2.3	
	6-12-18	6	5.8	12.7	19.3	4.0	4.7	2.9	
	8-32-16	3	7.9	29.7	15.5	2.1	1.9	6.1	
	10-10-10	16	10.2	10.9	10.8	3.3	7.7	6.9	
	12-12-12	6	12.0	12.4	12.6	2.2	3.7	4.4	
	ALL GRADES	95	% OF GUAR.			CV			
			102.3	100.7	103.5	6.2	5.3	5.9	
	Clarksville, Tenn.	4-12- 8	2	4.7	12.0	9.1	16.7	1.7	10.1
		4-16- 4	2	2.7	10.4	8.7	13.3	4.0	18.1
5-10-10		3	5.5	11.2	10.3	3.8	12.8	4.1	
5-10-15		3	5.5	10.3	15.6	7.3	1.6	1.9	
5-20-20		9	5.2	19.0	19.9	7.5	8.9	6.5	
6-12-12		3	6.0	11.8	11.6	8.8	9.6	4.8	
10-10-10		6	9.5	10.8	11.0	1.3	7.2	2.5	
ALL GRADES		36	% OF GUAR.			CV			
		101.3	97.4	103.3	7.6	7.0	6.1		

Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968  
(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 MINERALS & CHEMICAL CORP. (Cont'd) Somerset, Ky.	0-20-20	3	---	18.1	21.8	---	12.5	12.7
	5-10-15	8	5.4	10.4	15.4	6.6	4.1	5.5
	5-20-20	5	5.4	19.7	20.0	8.0	2.2	2.4
	6-12-12	5	6.4	12.3	12.8	7.9	1.8	2.9
	6-12-18	3	6.3	12.8	18.2	4.7	2.7	0.9
	10-10-10	7	10.1	10.8	11.1	5.9	9.1	8.0
	12-12-12	2	11.7	12.4	12.8	2.4	1.1	7.2
	ALL GRADES	42	% OF GUAR.			CV		
			103.9	100.0	103.4	6.2	4.9	5.6
	KENTUCKY FERTILIZER WORKS Winchester, Ky.	4-16- 4	2	4.4	15.9	4.0	3.2	0.9
5-10-15		4	5.2	10.7	15.2	4.8	2.9	4.2
5-20-20		6	5.2	19.6	21.1	4.7	2.6	1.6
6- 6-18		6	6.4	6.5	18.0	5.7	4.6	2.6
8-10-15		3	8.2	10.3	15.1	1.4	2.4	2.3
10-10-10		7	9.6	10.8	11.2	4.5	5.0	4.5
12-12-12		2	12.6	11.9	12.1	0.5	1.2	2.3
ALL GRADES		35	% OF GUAR.			CV		
		102.7	103.2	103.7	3.9	3.1	3.0	
MOBIL CHEMICAL CO. Richmond, Va.	0-20-20	4	---	20.8	19.9	---	4.4	5.2
	0-46- 0	2	---	47.8	---	---	1.7	---
	3-10-30	2	3.3	11.5	29.5	0.0	5.5	0.7
	4-12- 8	17	4.7	12.6	9.8	10.5	6.1	9.2
	5-10-15	12	5.3	10.6	15.6	6.2	5.1	5.1
	5-10-15ME	2	5.4	10.4	15.3	13.0	8.8	3.7
	5-20-20	32	5.4	20.0	20.2	5.6	4.7	5.1
	5-20-20ME	4	5.6	19.3	19.9	7.2	2.0	2.3
	6-12-12	4	6.1	12.0	12.6	6.3	2.4	6.2
	6-12-18	3	6.5	12.7	19.2	3.8	4.3	3.4
	6-12-18ME	14	6.4	12.5	18.3	5.7	2.9	2.8
	6-18-12	2	6.9	20.9	12.6	3.1	0.3	5.0
	6-18-12ME	2	6.1	17.2	12.5	4.6	2.8	1.7
	6-24-24	9	6.4	23.0	24.7	6.6	6.9	6.1
	8-32-16	2	8.7	32.0	16.1	4.0	3.7	9.2
10-10-10	28	10.0	10.7	11.0	6.3	7.1	9.3	

Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968  
(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
MOBIL CHEMICAL CO. Richmond, Va. (Cont'd)	10-10-10ME	3	9.8	10.4	11.4	3.1	4.1	2.2
	10-20-20	2	11.0	21.0	19.9	10.2	20.2	12.4
	14-14-14	5	13.8	14.8	15.3	5.9	7.8	3.6
	15-15-15	2	14.4	15.8	14.7	6.8	10.3	0.1
	ALL GRADES	167	% OF GUAR.			CV		
			103.7	102.8	104.7	6.3	5.5	5.4
NORTH AMERICAN FERTILIZER COMPANY Louisville, Ky.	0- 0-50	3	---	---	48.8	---	---	4.1
	0-20- 0	2	---	20.1	---	---	1.7	---
	4-12- 8	9	5.3	11.8	10.8	32.4	6.5	27.4
	5-10-15	12	5.3	10.1	15.3	5.8	4.6	3.4
	5-20-20	12	5.5	19.6	20.5	5.7	6.9	10.6
	6-12-12	8	6.5	12.5	13.3	6.0	6.7	3.5
	6-12-18	3	6.4	12.1	18.1	1.8	4.7	5.8
	6-24-24	2	6.4	23.7	24.8	3.3	6.8	3.9
	8-10-15	7	8.0	10.2	15.5	6.7	4.4	1.7
	9- 9-17	2	9.4	9.0	17.0	2.2	15.0	8.7
	10-10-10	19	10.1	10.4	11.8	3.8	4.5	6.8
	30- 0- 0	3	31.5	---	---	2.3	---	---
	82- 0- 0	2	82.0	---	---	0.2	---	---
	ALL GRADES	98	% OF GUAR.			CV		
			104.3	100.6	106.5	7.4	5.9	8.1
OHIO VALLEY FERTILIZER, INC. Maysville, Ky.	5-10-10	2	5.7	10.0	10.4	8.7	1.4	2.7
	5-10-15	2	5.6	10.5	15.0	3.8	6.7	8.9
	5-10-20	2	5.3	10.5	18.9	5.3	0.7	8.6
	5-20-20	2	5.1	18.8	20.1	0.0	12.0	12.6
	10-10-10	3	9.9	10.7	11.1	4.1	1.4	5.0
	10-10-20	7	11.8	12.3	16.5	18.5	17.1	24.6
	12-12-12	2	11.2	12.2	12.1	3.1	4.0	1.7
	ALL GRADES	30	% OF GUAR.			CV		
			110.9	105.8	92.7	7.5	7.2	10.7

Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968  
(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
ROYSTER COMPANY Norfolk, Va.	0-20- 0	9	---	19.8	---	---	1.9	---
	0-20-20	2	---	18.7	21.1	---	0.0	0.3
	0-20-20ME	7	---	20.1	20.9	---	2.9	5.6
	4-12- 8	2	4.7	13.2	10.9	7.6	3.7	16.2
	4-12- 8ME	8	4.4	12.5	9.5	7.5	2.4	4.8
	4-16- 4	2	5.0	16.0	5.6	0.0	2.2	1.2
	5-10-15	3	5.8	10.4	15.8	1.9	2.2	2.5
	5-10-15ME	34	5.7	10.6	15.1	6.0	3.8	5.3
	5-20-20	27	5.4	19.7	20.5	6.2	3.0	3.9
	6- 6-18	2	6.4	6.9	17.7	4.4	3.1	3.1
	6-12-12	5	6.7	12.3	12.7	9.0	3.5	3.5
	6-12-12ME	22	6.6	12.4	12.7	5.7	4.0	3.9
	6-12-18	2	6.4	12.6	18.2	3.3	0.5	0.4
	6-24-24	2	6.1	24.4	24.3	3.5	4.0	1.1
	10-10-10	31	10.2	10.6	10.6	3.9	3.2	5.4
	10-10-10ME	6	10.1	10.6	10.6	3.1	2.2	5.6
	10-10-15	12	9.8	10.2	15.7	2.8	5.6	3.7
	12-12-12	2	11.7	12.7	12.6	2.4	3.9	2.2
	28- 0- 0	2	29.2	---	---	0.2	---	---
	30- 0- 0	31.0	---	---	---	1.8	---	---
	33.5- 0- 0	2	35.0	---	---	0.1	---	---
82- 0- 0	5	82.0	---	---	0.2	---	---	
ALL GRADES	208	% OF GUAR.			CV			
		104.3	102.0	104.1	4.2	3.1	4.3	
SOUTHERN STATES COOP., INC. Louisville, Ky.	0- 0-50	3	---	---	50.7	---	---	1.4
	0-20- 0	2	---	19.9	---	---	1.0	---
	0-20-20	8	---	20.2	21.3	---	2.3	2.7
	0-46- 0	2	---	47.0	---	---	2.2	---
	3-12-12	3	3.7	12.1	13.1	5.4	2.0	5.9
	4-12- 8	7	4.3	11.5	8.8	4.1	2.4	3.2
	4-16- 4	4	4.5	16.2	4.5	6.4	2.5	2.1
	5-10-15	20	5.3	10.3	15.6	4.5	2.9	2.0
	5-10-20	2	5.4	10.5	20.0	7.8	0.7	2.8
	5-20-20	12	5.3	20.4	20.4	6.1	3.2	2.5
	6- 6-18	2	6.2	6.4	18.2	1.1	3.3	0.7
	6-12-12	11	6.5	12.4	12.5	4.3	2.3	3.1
	8-10-15	9	8.4	10.4	15.8	2.7	2.6	1.9
	10-10-10	15	10.4	10.4	10.4	4.3	3.9	4.3
	30- 0- 0	3	30.5	---	---	0.3	---	---
	ALL GRADES	106	% OF GUAR.			CV		
		105.4	102.0	103.8	4.4	2.6	2.8	

Average Analysis and Coefficient of Variation of Samples Analyzed, July, 1967 - June, 1968  
(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
SOUTHERN STATES COOP. INC. (Cont'd) Russellville, Ky.	0-20- 0	3	---	20.4	---	---	3.6	---
	4-12- 8	12	4.4	12.1	8.9	5.6	3.1	5.4
	5-10-15	23	5.4	10.1	14.9	6.9	3.1	4.7
	5-15- 5	7	5.7	15.0	5.2	6.1	1.7	4.7
	5-20-20	31	5.5	20.1	20.4	5.0	4.3	4.8
	6-12-12	21	6.5	11.9	12.8	3.5	3.1	5.7
	6-18-12	2	6.2	18.4	11.6	3.4	3.0	5.5
	10-10-10	34	10.1	10.2	10.4	4.0	3.7	4.9
	12-12-12	23	12.1	12.1	12.2	2.2	3.2	4.8
		ALL GRADES	160	% OF GUAR.			CV	
			104.8	100.6	102.9	4.6	3.3	4.9
Winchester, Ky.	0-20-20	2	---	20.2	21.5	---	2.7	2.9
	4-12- 8	2	4.4	12.2	8.7	1.6	3.4	1.6
	4-16- 4	2	4.4	16.1	4.7	1.6	1.3	3.0
	5-10-15	10	5.5	10.2	15.2	4.8	3.5	2.1
	5-20-20	12	5.1	19.9	20.5	5.0	2.9	2.9
	6- 6-18	5	6.3	6.4	18.4	3.6	3.5	1.8
	6- 8- 6	3	6.3	8.5	6.7	5.7	1.1	18.6
	6-12-12	5	6.4	12.1	12.1	8.8	3.1	3.0
	8-10-15	2	8.7	10.4	15.2	3.2	0.6	5.1
	10-10-10	3	10.4	10.0	10.8	1.1	0.0	2.8
	ALL GRADES	51	% OF GUAR.			CV		
			105.7	100.8	103.2	4.3	2.4	4.1

## 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	101.11	102.20	101.49		4.58	4.26	4.86
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
AGRICO CHEMICAL COMPANY	101.11	102.20	101.49		4.58	4.26	4.86
ARMOUR AGRI. CHEMICAL CO.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
ATLANTA	102.99	99.85	101.72		5.47	4.16	6.31
CHEROKEE	100.51	107.57	102.29		0.72	8.32	4.29
CINCINNATI	103.95	101.71	101.71		4.57	4.51	4.36
JEFFERSONVIL	104.01	100.73	103.18		7.97	5.12	4.96
NASHVILLE	103.12	99.11	103.89		5.63	4.19	4.98
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
ARMOUR AGRI. CHEMICAL CO.	103.12	100.03	102.17		5.41	4.57	5.44
BLUEGRASS PLANT FOODS, INC.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
CYNTHIANA	103.33	98.61	104.48		1.45	2.06	6.37
DANVILLE	107.68	100.08	108.70		4.34	5.72	6.16
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
BLUEGRASS PLANT FOODS, INC.	106.87	99.84	108.00		3.41	4.60	6.22
BURLEY BELT FERTILIZER CO.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
LEXINGTON	104.70	101.59	101.89		4.13	4.36	5.06
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
BURLEY BELT FERTILIZER CO.	104.70	101.59	101.89		4.13	4.36	5.06
BURLEY BELT CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
LONDON	104.07	100.52	100.19		5.98	4.49	4.10
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
BURLEY BELT CHEMICAL COMPANY	104.07	100.52	100.19		5.98	4.49	4.10
COMMONWEALTH FERTILIZER CO.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
RUSSELLVILLE	100.32	102.90	109.01		4.48	5.01	8.67
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
COMMONWEALTH FERTILIZER CO.	100.32	102.90	109.01		4.48	5.01	8.67
FARMERS CHEMICAL ASSN., INC.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
TYNER	106.08	0.0	0.0		2.01	0.0	0.0
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
FARMERS CHEMICAL ASSN., INC.	106.08	0.0	0.0		2.01	0.0	0.0

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

FEDERAL CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
HUMBOLDT	103.41	102.47	100.89		4.74	6.54	4.95
LOUISVILLE	104.57	101.44	104.84		7.91	6.27	8.94
NASHVILLE	100.77	99.06	108.36		2.40	5.22	3.10
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
FEDERAL CHEMICAL COMPANY	104.24	101.38	104.73		6.35	6.15	7.27
FRASIER SUPPLY COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
GLASGOW	100.63	98.19	107.43		6.81	10.62	10.02
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
FRASIER SUPPLY COMPANY	100.63	98.19	107.43		6.81	10.62	10.02
GLASGOW FERTILIZER COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
GLASGOW	107.16	103.17	106.23		8.28	5.22	7.22
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
GLASGOW FERTILIZER COMPANY	107.16	103.17	106.23		8.28	5.22	7.22
W.R. GRACE & CO.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
NASHVILLE	103.44	99.53	100.99		4.65	3.17	3.55
NEW ALBANY	104.88	102.67	102.89		5.63	4.01	4.96
MEMPHIS	100.15	0.0	0.0		0.28	0.0	0.0
HOPKINSVILLE	101.58	98.81	101.18		5.43	4.49	8.63
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
W.R. GRACE & CO.	103.58	101.47	102.20		4.25	3.80	5.04
GRO-GREEN CHEMICAL CO., INC.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
SHELBYVILLE	110.07	102.75	98.52		9.07	12.14	12.31
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
GRO-GREEN CHEMICAL CO., INC.	110.07	102.75	98.52		9.07	12.14	12.31
GULF OIL CORP., AGRI CHEM DIV							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
BOWLING GREE	101.74	97.74	118.28		4.54	12.43	7.62
CECILIA	107.74	102.14	103.92		4.89	4.42	5.79
HENDERSON	102.52	101.60	106.21		5.02	5.23	3.72
HENDERSON	100.16	0.0	0.0		0.05	0.0	0.0
HORSE CAVE	101.38	95.10	114.38		2.72	5.48	1.91
KANSAS CITY	103.54	99.82	105.86		1.24	2.00	0.13
MORGANFIELD	102.23	90.76	116.84		2.25	0.91	0.83
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
GULF OIL CORP., AGRI CHEM DIV	103.20	99.40	108.60		3.04	5.04	3.69



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

## INTERNATIONAL MIN &amp; CHEM CORP

RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
CINCINNATI	102.33	100.65	103.54		6.26	5.37	5.91
CLARKSVILLE	101.28	97.41	103.29		7.67	7.03	6.36
SOMERSET	103.85	99.97	103.38		6.27	4.93	5.61
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
INTERNATIONAL MIN & CHEM CORP	102.44	99.83	103.45		6.65	5.69	5.94

## KENGAS CORPORATION

RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
OWENSBORO	105.00	99.16	101.51		7.20	3.45	3.45
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
KENGAS CORPORATION	105.00	99.16	101.51		7.20	3.45	3.45

## KENTUCKY FERTILIZER WORKS

RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
WINCHESTER	102.73	103.21	103.65		3.93	3.15	3.09
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
KENTUCKY FERTILIZER WORKS	102.73	103.21	103.65		3.93	3.15	3.09

## KERR-MCGEE FARM CENTER

RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
PEMBROKE	103.17	101.83	99.17		17.48	4.05	6.13
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
KERR-MCGEE FARM CENTER	103.17	101.83	99.17		17.48	4.05	6.13

## MOBIL CHEM CO, AGRI CHEM DIV

RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
RICHMOND	103.73	102.75	104.68		6.34	5.50	5.46
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
MOBIL CHEM CO, AGRI CHEM DIV	103.73	102.75	104.68		6.34	5.50	5.46

## MONSANTO COMPANY

RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
SLAUGHTERS	108.18	102.83	103.87		13.33	7.37	6.17
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
MONSANTO COMPANY	108.18	102.83	103.87		13.33	7.37	6.17

## NORTH AMERICAN FERTILIZER CO.

RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
LOUISVILLE	104.31	100.56	106.48		7.45	5.91	8.10
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
NORTH AMERICAN FERTILIZER CO.	104.31	100.56	106.48		7.45	5.91	8.10

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

OHIO VALLEY FERTILIZER, INC.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
MAYSVILLE	110.93	105.78	92.74	7.50	7.27	10.75	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
OHIO VALLEY FERTILIZER, INC.							
	110.93	105.78	92.74	7.50	7.27	10.75	
F. S. ROYSTER GUANO COMPANY							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
NORFOLK	104.25	101.97	104.08	4.27	3.17	4.38	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
F. S. ROYSTER GUANO COMPANY							
	104.25	101.97	104.08	4.27	3.17	4.38	
SMITH-DOUGLASS COMPANY, INC.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
NORFOLK	102.30	105.49	105.06	3.50	4.23	8.53	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
SMITH-DOUGLASS COMPANY, INC.							
	102.30	105.49	105.06	3.50	4.23	8.53	
SOUTHERN STATES COOPERATIVE							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
LOUISVILLE	105.36	102.01	103.80	4.40	2.65	2.80	
RUSSELLVILLE	104.79	100.63	102.92	4.62	3.37	4.95	
WINCHESTER	105.66	100.76	103.16	4.36	2.48	4.11	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
SOUTHERN STATES COOPERATIVE							
	105.10	101.09	103.24	4.49	2.92	4.03	
VALLEY COUNTIES OF KY. COOP.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
BENTON	105.62	105.44	100.48	3.25	4.80	1.45	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
VALLEY COUNTIES OF KY. COOP.							
	105.62	105.44	100.48	3.25	4.80	1.45	
WARNER FERTILIZER COMPANY							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
SOMERSET	97.34	101.11	108.39	13.40	11.45	13.85	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
WARNER FERTILIZER COMPANY							
	97.34	101.11	108.39	13.40	11.45	13.85	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

AGRICO CHEMICAL COMPANY		MEMPHIS		TENN		RV
GRADE	NUM	N	APA	POT	XS CL	RV
0-20- 0	21553	0.0	21.2	0.0		106
0-20- 0	22851	0.0	21.3	0.0		107
0-20-20M	20462	0.0	21.4	20.6		106
0-20-20M	20747	0.0	21.9	19.4*		105
0-20-20M	22294	0.0	22.0	21.1		108
0-25-25M	19919	0.0	24.1*	25.2		98
4-12- 8M	19874	4.8	12.4	7.9		107
4-12- 8M	20648	4.1	11.5*	8.9		100
4-12- 8M	20746	5.0	12.3	9.4		111
4-12- 8M	20997	4.3	13.1	8.2		107
4-12- 8M	21554	4.4	12.1	8.1		103
4-16- 4S	20516	4.2	15.8	4.7		102
4-16- 4S	20775	3.9	16.0	4.0		99
5-10-15S	20071	5.4	10.7	14.8		104
5-10-15S	20072	5.4	10.2	15.2		103
5-10-15S	20276	4.7*	9.6*	15.3		97*
5-10-15S	20374	3.9*	12.8	10.3*	*	95*
5-10-15S	20453	5.9	10.4	15.7		108
5-10-15S	20454	5.3	10.4	15.7		105
5-10-15S	20465	5.3	10.1	15.5		103
5-10-15S	20645	5.5	10.0	15.4		104
5-10-15S	20646	5.5	10.3	15.7		105
5-10-15S	20662	5.4	9.7*	15.2		101
5-10-15S	20667	5.3	9.6*	15.1		100
5-10-15S	20697	5.0	10.3	15.3		102
5-10-15S	20748	5.0	10.1	15.3		101
5-10-15S	20751	5.2	10.0	15.5		102
5-10-15S	20767	5.3	10.3	15.2		104
5-10-15S	21059	5.2	11.7	15.7		109
5-10-15S	21094	5.5	10.0	15.9		105
5-10-15S	21095	5.5	10.4	16.4		107
5-10-15S	21181	4.8	11.2	13.1*		100
5-10-15S	21437	5.2	10.9	14.2*	*	103
5-10-15S	21603	4.9	11.0	13.4*		100
5-10-15S	21633	5.3	13.8	12.7*		113
5-10-15S	21721	5.7	11.7	15.5	*	112
5-10-15S	22068	5.7	10.8	13.6*		105
5-10-15S	22135	5.4	10.1	15.7		104
5-10-15S	22170	5.2	9.2*	15.1		98
5-10-15S	22293	5.7	10.5	14.5*		106
5-10-15S	22306	5.5	10.5	14.5*		104
5-10-15S	22370	5.3	10.1	15.5		103
5-10-15S	22513	5.6	10.4	14.5*		104
5-10-15S	22515	5.7	11.0	15.9		110
5-10-15S	22586	5.4	10.3	15.2		104
5-10-15S	22666	5.6	10.3	13.9*		103
5-10-15S	22852	5.0	10.0	14.5*		99
5-10-15S W/ME	22307	6.5	11.8	14.5*		115
5-20-20M	19918	5.0	19.6	20.6		100
5-20-20M	19966	5.3	18.2*	20.5		97*
5-20-20M	20242	5.1	18.0*	19.5*		94*
5-20-20M	20375	4.8	19.6	21.1		99
5-20-20M	20457	5.5	20.2	20.7		103
5-20-20M	20464	5.3	20.2	20.2		102

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
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
GRADE	NUM	N	APA	POT		
5-20-20M	20647	5.6	19.9	19.6		101
5-20-20M	20663	5.8	20.1	18.8*		102
5-20-20M	20750	5.2	19.7	19.3*		99
5-20-20M	21060	5.4	20.1	20.5		102
5-20-20M	21180	5.4	20.7	20.5		104
5-20-20M	21417	5.1	17.0*	20.0		92*
5-20-20M	21555	5.0	19.9	19.5*		99
5-20-20M	21717	5.9	18.9*	18.3*		98
5-20-20M	22173	5.5	19.7	20.0		101
5-20-20M	22295	5.6	20.3	19.8		103
5-20-20M	22371	5.2	19.9	20.5		101
5-20-20M	22512	5.4	20.2	20.1		102
5-20-20M	22664	5.0	18.2*	19.6		94*
6- 6-18S	20275	6.2	6.1	18.3		102
6- 6-18S	20311	8.0	6.3	18.2		114
6- 6-18S	21733	6.5	6.3	18.9		106
6- 6-18S	21734	6.3	6.5	18.6		105
6-12-12M	19873	6.2	11.2*	13.9		102
6-12-12M	20026	6.2	12.1	12.4		102
6-12-12M	20060	6.3	11.9	12.4		102
6-12-12M	20241	6.6	11.7	12.5		103
6-12-12M	20376	6.2	11.8	12.3		101
6-12-12M	20436	6.0	12.3	13.1		103
6-12-12M	20456	6.6	12.1	12.8		105
6-12-12M	20668	6.0	12.3	11.7		101
6-12-12M	20696	6.3	12.1	12.7		104
6-12-12M	20749	5.9	12.5	11.6*		100
6-12-12M	21179	5.9	12.5	12.3		102
6-12-12M	21438	5.3*	13.0	13.4		102
6-12-12M	21718	6.3	12.6	12.7		105
6-12-12M	22136	6.2	12.0	12.1		101
6-12-12M	22172	6.8	13.0	12.8		109
6-12-12M	22510	5.9	10.9*	12.1		96*
6-12-12M	22585	6.1	12.5	11.6*		102
6-12-12M	22649	6.0	11.3*	15.1		103
6-12-12M	22686	5.6*	11.3*	12.8		97*
6-24-24M	19959	6.4	23.4*	25.0		101
6-24-24M	21416	5.7	22.8*	24.2		97*
8- 8-18S	20274	8.3	8.4	18.6		104
8- 8-18S	20312	8.2	8.0	18.1		101
8- 8-18S	20996	8.4	8.5	18.1		104
8- 8-18S	21276	8.5	8.0	18.7		104
10-10-10M	20102	10.0	10.3	10.4		102
10-10-10M	20273	10.5	10.2	10.1		103
10-10-10M	20435	10.0	10.2	10.7		102
10-10-10M	20455	10.5	10.7	10.8		106
10-10-10M	20515	10.6	10.7	10.5		106
10-10-10M	20669	10.7	10.7	10.0		106
10-10-10M	20730	10.3	10.8	10.6		105
10-10-10M	20745	10.5	11.1	9.9		106
10-10-10M	21061	10.4	11.0	10.1		105
10-10-10M	21439	7.6*	10.2	8.7*		86*
10-10-10M	21552	10.1	11.1	10.7		105
10-10-10M	22171	10.4	10.0	10.5		102
10-10-10M	22369	9.9	10.2	10.0		100
10-10-10M	22511	10.2	10.2	10.0		102
12-12-12M	19840	12.3	12.1	12.3		102

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
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
GRADE	NUM	N	APA	POT			
12-12-12M	20458	12.7	12.5	12.8			105
12-12-12M	20463	12.5	12.4	12.8			104
12-12-12M	20752	11.9	13.2	12.4			103
12-12-12M	21719	12.1	12.0	12.2			101
15-15-15M	21720	15.0	16.0	16.0			103
15-15-15M	22665	15.0	15.7	15.7			102
16- 8- 8M	21727	18.3	10.0	9.6			117
30- 0- 0	21823	29.9	0.0	0.0			99
30- 0- 0	22550	31.2	0.0	0.0			104
30- 0- 0	21950	32.3	0.0	0.0			101
32- 0- 0	20090	34.9	0.0	0.0			104
33- 0- 0	19683	82.0	0.0	0.0			100
82- 0- 0	19683	82.0	0.0	0.0			100
82- 0- 0	19684	82.0	0.0	0.0			100
82- 0- 0	19687	82.0	0.0	0.0			100
82- 0- 0	19691	82.0	0.0	0.0			100
82- 0- 0	19697	82.0	0.0	0.0			100
82- 0- 0	19701	82.0	0.0	0.0			100
82- 0- 0	19709	82.0	0.0	0.0			100
82- 0- 0	19711	82.0	0.0	0.0			100
82- 0- 0	19721	82.0	0.0	0.0			100
82- 0- 0	19726	82.0	0.0	0.0			100
82- 0- 0	19727	82.0	0.0	0.0			100
82- 0- 0	19731	81.8	0.0	0.0			100
82- 0- 0	19733	82.0	0.0	0.0			100
82- 0- 0	19736	82.0	0.0	0.0			100
82- 0- 0	19737	82.0	0.0	0.0			100
82- 0- 0	19740	82.0	0.0	0.0			100
82- 0- 0	19741	82.0	0.0	0.0			100
82- 0- 0	19743	82.0	0.0	0.0			100
82- 0- 0	19744	82.0	0.0	0.0			100
82- 0- 0	19747	82.0	0.0	0.0			100
82- 0- 0	19748	82.0	0.0	0.0			100
82- 0- 0	21418	82.0	0.0	0.0			100
82- 0- 0	21430	82.1	0.0	0.0			100
82- 0- 0	21432	81.8	0.0	0.0			100
82- 0- 0	21860	81.7	0.0	0.0			100
82- 0- 0	21951	82.1	0.0	0.0			100
82- 0- 0	22001	82.0	0.0	0.0			100
82- 0- 0	22105	81.9	0.0	0.0			100
82- 0- 0	22108	82.1	0.0	0.0			100
82- 0- 0	22884	82.0	0.0	0.0			100
82- 0- 0	22894	82.1	0.0	0.0			100
82- 0- 0	22895	82.1	0.0	0.0			100
ALLIED CHEMICAL CORPORATION		SOUTH POINT		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
28- 0- 0	22252	28.8	0.0	0.0			103
30- 0- 0	21968	30.2	0.0	0.0			101
30- 0- 0	22202	31.4	0.0	0.0			105
30- 0- 0	22257	30.7	0.0	0.0			102
30- 0- 0	22451	31.3	0.0	0.0			104
82- 0- 0	21980	82.1	0.0	0.0			100
82- 0- 0	22201	82.1	0.0	0.0			100
82- 0- 0	22892	82.1	0.0	0.0			100
AMERICAN CYANAMID COMPANY		PRINCETON		N. J.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-46- 0	22882	0.0	47.7	0.0			104

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

ARMOUR AGRI. CHEMICAL CO.		ATLANTA		GA.		XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-50S	20481	0.0	0.0	51.8	*	104	
0- 0-50S	20627	0.0	0.0	51.0	*	102	
0- 0-50S	21739	0.0	0.0	51.2		102	
0- 0-50S	21932	0.0	0.0	50.0		100	
0-20- 0	20572	0.0	19.9	0.0		100	
0-20- 0	21778	0.0	19.0*	0.0		95*	
0-20- 0	22063	0.0	20.2	0.0		101	
0-20- 0	22473	0.0	18.3*	0.0		92*	
0-20- 0	22868	0.0	18.0*	0.0		90*	
0-20- 0	22873	0.0	16.3*	0.0		82*	
0-20- 0	22876	0.0	19.4*	0.0		97*	
0-20- 0	22880	0.0	19.2*	0.0		96*	
0-20-20M	20487	0.0	19.9	19.1*		98	
0-20-20M	21630	0.0	21.2	20.4		105	
0-20-20M	21831	0.0	18.3*	21.0		96*	
0-25-25M	20954	0.0	23.1*	25.8		96*	
0-25-25M	21500	0.0	25.1	23.1*		98	
0-25-25M	21777	0.0	23.0*	25.1		95*	
0-25-25M	22650	0.0	26.0	21.6*		98	
0-25-25M W/B	21779	0.0	22.5*	22.5*		90*	
0-25-25M W/B	22867	0.0	20.9*	23.6*		87*	
0-46- 0	21867	0.0	47.7	0.0		104	
0-46- 0	21913	0.0	46.7	0.0		102	
0-46- 0	22313	0.0	47.2	0.0		103	
0-46- 0	22613	0.0	46.8	0.0		102	
3-12-12M	22643	3.7	12.2	12.5		106	
3-12-24M	21700	3.6	11.9	23.5		102	
3-12-24M	21808	3.9	11.1*	17.6*		91*	
4-12- 8M	19992	4.0	12.8	9.0		106	
4-12- 8M	20231	4.1	11.9	9.1		103	
4-12- 8M	20497	4.3	12.9	9.0		108	
4-12- 8M	20951	4.6	11.9	8.7		105	
4-12- 8M	21012	4.2	12.6	10.5		110	
4-12- 8M	21631	4.8	11.7	9.5		108	
4-12- 8M	22491	4.6	11.8	9.0		105	
4-12- 8M	22700	4.6	11.0*	9.9		104	
4-16- 4S	20567	4.3	15.0*	5.3		101	
5-10- 5M	20204	6.5	10.2	6.4		116	
5-10- 5M	22858	8.1	9.7*	7.3		128	
5-10- 5S	22029	5.8	10.7	6.8	*	113	
5-10-10M	20485	6.0	9.7	13.7		114	
5-10-10M	20544	6.3	10.4	11.1		113	
5-10-10M	21043	5.1	10.1	11.2		104	
5-10-10M	22488	5.8	10.2	11.7		110	
5-10-10M	22638	5.4	11.0	11.5		111	
5-10-15S	20109	5.2	9.7*	14.9		100	
5-10-15S	20131	4.8	10.0	15.7	*	100	
5-10-15S	20137	5.3	10.5	12.1*	*	98	
5-10-15S	20161	5.5	9.7	15.7	*	103	
5-10-15S	20162	5.3	10.8	14.5*	*	104	
5-10-15S	20166	5.2	10.5	14.8		103	
5-10-15S	20179	5.3	10.1	14.9	*	102	
5-10-15S	20235	5.5	9.7	15.1	*	102	
5-10-15S	20310	5.2	9.5*	15.0	*	99	
5-10-15S	20321	5.4	10.0	14.9		102	
5-10-15S	20326	5.0	10.1	15.2		101	
5-10-15S	20410	5.6	9.7*	14.0*		100	

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

ARMOUR AGRI. CHEMICAL CO. GRADE	NUM	ATLANTA		GA.		XS CL	RV
		N	APA	POT			
5-10-15S	20434	5.3	9.6*	14.9			100
5-10-15S	20482	5.1	11.0	15.2	*		105
5-10-15S	20483	5.1	9.9	14.7			99
5-10-15S	20486	5.6	10.3	15.3	*		106
5-10-15S	20534	5.7	9.5*	14.2*			100
5-10-15S	20541	5.0	10.5	15.1	*		102
5-10-15S	20551	5.0	9.7	15.5			100
5-10-15S	20565	4.2*	10.8	14.8	*		98
5-10-15S	20568	5.0	10.0	15.1			100
5-10-15S	20574	5.5	10.2	14.4*			102
5-10-15S	20670	4.9	9.7	15.0			98
5-10-15S	20680	5.2	10.4	13.6*			100
5-10-15S	20711	5.4	10.0	14.7	*		102
5-10-15S	20862	5.2	9.6*	16.1			102
5-10-15S	20944	4.9	10.5	14.2*	*		100
5-10-15S	20952	5.3	9.5*	14.7			99
5-10-15S	21010	4.5*	10.5	16.6	*		103
5-10-15S	21011	4.8	10.8	15.5	*		103
5-10-15S	21017	5.4	10.2	14.0*			101
5-10-15S	21063	5.0	10.2	14.9	*		101
5-10-15S	21191	5.4	9.7	14.0*			99
5-10-15S	21213	5.4	10.2	12.8*			99
5-10-15S	21222	5.4	10.2	14.7	*		102
5-10-15S	21230	5.0	9.7	15.2			99
5-10-15S	21233	5.1	10.5	13.7*			100
5-10-15S	21262	5.0	9.9	15.9			101
5-10-15S	21281	4.9	9.7	15.1			99
5-10-15S	21489	5.2	10.3	15.3	*		103
5-10-15S	21527	5.2	10.8	13.6*	*		102
5-10-15S	21545	5.6	9.4*	14.8	*		101
5-10-15S	21623	5.3	10.4	15.7			105
5-10-15S	21689	5.4	9.7	14.9			101
5-10-15S	21713	5.3	9.5*	16.1			102
5-10-15S	21742	5.4	9.7*	15.4			102
5-10-15S	21780	5.2	9.7	15.5	*		101
5-10-15S	21889	5.5	9.9	14.9	*		102
5-10-15S	21931	5.8	10.2	15.1			105
5-10-15S	22011	5.5	10.1	14.9			103
5-10-15S	22030	5.4	10.0	15.5	*		103
5-10-15S	22048	6.1	10.2	14.0*			106
5-10-15S	22060	5.9	10.0	15.1			106
5-10-15S	22061	5.4	9.5*	15.4	*		102
5-10-15S	22123	5.5	10.0	15.3			104
5-10-15S	22179	5.8	10.1	14.5*	*		104
5-10-15S	22312	5.1	10.5	14.8	*		102
5-10-15S	22378	5.7	10.7	15.4	*		108
5-10-15S	22587	5.9	10.0	14.9			105
5-10-15S	22624	5.2	10.0	14.7			101
5-10-15S	22637	4.9	10.4	15.3	*		101
5-10-15S	22646	5.2	9.5*	15.2			99
5-10-15S	22730	5.1	10.0	15.2			101
5-10-15S	22761	5.0	10.0	14.4*			99
5-10-15S	22822	5.1	9.7*	14.6*			99
5-20-20M	19839	4.7*	19.4*	19.0*			96*
5-20-20M	19882	4.9	19.3*	19.5*			97*
5-20-20M	19970	5.4	19.0*	20.7			100
5-20-20M	20001	5.1	18.3*	20.0			96*

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

ARMOUR AGRI. CHEMICAL CO.		ATLANTA		GA.			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-20-20M	20168	5.3	19.2*	20.2		99	
5-20-20M	20180	5.4	19.7	20.1		101	
5-20-20M	20184	5.1	20.3	19.0*		100	
5-20-20M	20412	5.8	16.0*	19.6		92*	
5-20-20M	20413	5.3	18.7*	21.3		99	
5-20-20M	20488	5.0	19.9	20.5		100	
5-20-20M	20575	4.9	17.8*	18.4*		91*	
5-20-20M	20671	5.2	19.6	20.0		100	
5-20-20M	20782	5.0	18.5*	20.3		96*	
5-20-20M	21045	5.1	19.1*	19.3*		97*	
5-20-20M	21088	5.1	19.7	18.9*		98	
5-20-20M	21189	5.2	19.6	20.7		101	
5-20-20M	21215	5.1	19.3*	20.7		99	
5-20-20M	21232	5.4	18.8*	20.2		99	
5-20-20M	21629	5.1	19.6	20.4		100	
5-20-20M	21990	5.0	18.7*	20.5		97*	
5-20-20M	22093	5.4	20.3	20.1		103	
5-20-20M	22330	5.9	19.9	20.1		104	
5-20-20M	22380	5.5	19.9	19.6		101	
5-20-20M	22395	5.4	18.9*	20.7		100	
5-20-20M	22428	5.6	15.8*	23.6		96*	
5-20-20M	22497	5.5	17.7*	19.3*		95*	
5-20-20M	22648	5.1	19.3*	19.6		98	
5-20-20M	22676	4.5*	19.5*	19.5*		96*	
5-20-20M	22715	4.6*	18.2*	21.0		95*	
5-20-20M	22758	5.1	19.1*	18.7*		96*	
5-20-20M	22819	5.1	19.3*	18.7*		97*	
5-20-20M	22830	4.8	19.3*	21.1		99	
5-20-20M	22860	5.1	18.4*	20.3		97*	
5-20-20M	22862	5.0	18.3*	17.4*		92*	
6- 6-18S	21021	6.7	7.1	17.5*	*	108	
6- 6-18S	21153	6.2	7.8	18.1		109	
6- 6-18S	22731	7.0	6.6	17.8	*	108	
6-12-12M	19808	6.1	11.8	12.2		100	
6-12-12M	19906	5.9	11.6*	12.1		98	
6-12-12M	19965	5.9	12.3	13.9		104	
6-12-12M	19979	6.1	11.4*	12.6		99	
6-12-12M	19980	5.9	12.7	15.9		109	
6-12-12M	20002	6.2	12.3	13.6		105	
6-12-12M	20043	6.2	11.7	12.3		100	
6-12-12M	20054	6.0	12.9	13.4		106	
6-12-12M	20414	6.2	11.4*	12.3		99	
6-12-12M	20498	6.8	12.0	13.3		107	
6-12-12M	20535	6.1	11.3*	13.5		101	
6-12-12M	20539	5.9	11.5*	13.7		100	
6-12-12M	20554	6.6	11.9	13.4		106	
6-12-12M	20577	6.3	11.7	11.8		100	
6-12-12M	20738	6.2	11.9	12.2		101	
6-12-12M	20781	6.0	11.7	12.3		99	
6-12-12M	20921	6.3	11.7	11.9		101	
6-12-12M	20939	6.3	11.9	12.4		102	
6-12-12M	20943	5.9	11.8	12.3		99	
6-12-12M	20953	6.0	11.9	12.8		101	
6-12-12M	21019	6.4	14.0	12.1		110	
6-12-12M	21044	5.9	12.4	12.5		102	
6-12-12M	21046	7.0	11.6*	11.1*		102	
6-12-12M	21099	5.9	12.1	12.3		101	



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

ARMOUR AGRI. CHEMICAL CO.		ATLANTA		GA.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-12M	21231	5.9	12.7	12.3			102
6-12-12M	21279	6.2	11.4*	12.8			100
6-12-12M	21299	6.0	12.3	9.9*			97*
6-12-12M	21712	6.9	11.6*	12.2			104
6-12-12M	21807	5.9	11.6*	13.3			100
6-12-12M	21910	6.3	11.8	13.6			104
6-12-12M	22046	7.0	11.8	12.3			105
6-12-12M	22062	6.2	12.3	11.1*			100
6-12-12M	22124	6.5	11.6*	12.4			102
6-12-12M	22177	6.3	13.5	11.4*			106
6-12-12M	22225	6.7	12.1	10.3*			101
6-12-12M	22693	5.9	13.2	11.2*			102
6-12-12M	22745	6.0	12.0	12.1			100
6-12-12M	22832	5.4*	11.8	11.8			95*
6-12-12M	22833	6.3	11.4*	12.1			100
6-12-12M	22869	6.2	11.9	12.5			101
6-12-18S	20132	5.9	11.9	17.5*			98
6-12-18S	20165	6.0	11.7	18.0			99
6-12-18S	20309	5.9	11.9	18.1	*		99
6-12-18S	20317	6.6	12.1	17.7			102
6-12-18S	20327	5.6*	12.4	19.5			102
6-12-18S	20415	5.7*	11.4*	18.8			98
6-12-18S	20533	7.0	12.3	17.0*	*		104
6-12-18S	20553	5.6*	12.6	18.2			100
6-12-18S	20566	6.1	11.6*	18.0			99
6-12-18S	20569	6.1	12.0	17.7	*		100
6-12-18S	20678	6.7	11.9	17.5*	*		102
6-12-18S	20919	5.9	12.1	17.3*	*		99
6-12-18S	20945	5.5*	11.8	18.9	*		98
6-12-18S	20949	5.6*	12.1	18.4	*		99
6-12-18S	21016	6.1	12.0	18.3			101
6-12-18S	21062	5.9	12.3	17.4*	*		99
6-12-18S	21214	6.1	12.3	16.8*			99
6-12-18S	21260	5.2*	11.2*	18.8			94*
6-12-18S	21300	5.7*	11.8	18.9			99
6-12-18S	21499	7.5	12.4	17.1*	*		107
6-12-18S	21622	5.9	11.3*	19.6	*		100
6-12-18S	21741	5.9	12.1	18.1			100
6-12-18S	21888	6.6	12.0	16.4*	*		101
6-12-18S	21909	6.1	12.0	18.0			101
6-12-18S	22224	6.4	12.4	18.1	*		103
6-12-18S	22379	6.2	12.6	18.3	*		103
6-12-18S	22588	6.2	11.8	19.3	*		102
6-12-18S	22689	6.4	12.3	17.8			102
6-12-18S	22732	5.5*	12.4	19.0			100
6-12-18S	22834	5.9	12.6	17.0*			100
6-12-18S	22866	6.5	12.0	16.4*	*		100
8-10-15S	21020	8.7	10.2	15.4	*		105
10- 6- 4M W/ME	20203	9.7*	7.8	5.9			110
10- 6- 4M W/ME	21725	10.1	7.8	6.3			114
10-10-10M	19762	11.6	9.9	10.1			108
10-10-10M	19875	11.0	10.5	11.3			109
10-10-10M	19907	9.9	9.7	11.1			100
10-10-10M	19967	10.2	10.4	11.4			104
10-10-10M	20110	10.2	10.3	11.3			104
10-10-10M	20119	9.5*	10.0	10.8			99
10-10-10M	20232	10.9	9.8	10.0			104

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968

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

ARMOUR AGRI. CHEMICAL CO.	ATLANTA	GA.	XS CL	RV	
GRADE	NUM	N	APA	POT	
10-10-10M	20411	10.1	10.0	9.2*	99
10-10-10M	20484	10.2	10.7	10.1	103
10-10-10M	20543	10.2	10.3	10.2	103
10-10-10M	20552	10.9	10.1	10.7	106
10-10-10M	20576	9.9	10.5	10.4	102
10-10-10M	20588	10.1	10.3	10.2	102
10-10-10M	20650	10.9	9.9	10.7	105
10-10-10M	20673	10.9	9.7	10.1	104
10-10-10M	20677	10.8	10.1	10.2	104
10-10-10M	20735	10.7	9.7	11.1	104
10-10-10M	20918	9.9	10.1	9.3*	99
10-10-10M	20946	10.5	10.1	10.8	104
10-10-10M	20950	10.6	9.5*	10.4	101
10-10-10M	21018	10.3	10.8	11.6	106
10-10-10M	21047	10.1	10.6	9.4*	101
10-10-10M	21154	10.7	10.8	11.1	108
10-10-10M	21261	9.1*	11.0	12.3	102
10-10-10M	21526	9.6*	10.8	11.4	103
10-10-10M	21624	11.0	10.7	11.1	109
10-10-10M	21743	11.0	9.7*	10.5	104
10-10-10M	21833	9.7	10.1	11.9	102
10-10-10M	21887	10.7	9.5*	9.9	102
10-10-10M	22178	10.3	10.2	10.1	102
10-10-10M	22329	10.2	10.1	9.5*	100
10-10-10M	22381	9.9	11.5	10.8	106
10-10-10M	22396	10.1	10.5	10.1	103
10-10-10M	22483	8.7*	11.0	10.6	98
10-10-10M	22645	9.7*	11.0	10.7	103
10-10-10M	22675	10.6	9.8	11.1	104
10-10-10M	22690	9.0*	9.9	12.4	98
10-10-10M	22694	10.4	9.8	9.8	101
10-10-10M	22699	9.7	10.2	9.8	99
10-10-10M	22759	10.3	9.7	10.4	101
10-10-10M	22831	10.3	9.1*	10.1	98
10-10-10M	22870	10.6	9.4*	10.3	101
10-10-20S	20570	10.1	10.0	18.9*	99
10-10-20S	21621	9.2*	9.9	20.1	96*
10-10-20S	21738	10.7	10.0	19.1*	102
12- 4- 8M W/ME	22857	11.7	5.9	8.7	107
12-12-12M	20320	11.9	11.9	12.5	100
12-12-12M	20672	12.0	12.4	12.1	101
12-12-12M	20920	12.5	12.4	11.4*	102
12-12-12M	21149	12.0	12.5	13.3	103
12-12-12M	21188	11.6*	12.6	13.0	101
12-12-12M	21280	11.1*	12.6	13.0	99
12-12-12M	22226	12.0	12.8	12.4	103
12-12-12M	22611	10.7*	12.8	13.3	99
12-12-12M	22639	11.6*	12.5	12.9	101
12-12-12M	22760	11.5*	12.2	13.0	100
12-12-18S	20319	10.9*	11.7	18.3	95*
12-12-18S	20948	11.9	12.8	17.0*	101
12-12-18S	21036	13.0	12.4	16.1*	102
12-12-18S	21150	11.9	12.7	17.7	101
12-12-18S	21699	11.7	12.5	19.5	102
12-12-18S	21702	12.7	10.6*	20.0	102
12-12-18S	21912	12.4	12.3	17.1*	101
12-12-18S	22331	12.5	12.0	18.6	103

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

ARMOUR AGRI. CHEMICAL CO.		ATLANTA		GA.		XS CL	RV
GRADE	NUM	N	APA	POT			
12-12-18S	22612	12.2	11.8	17.0*			99
12-12-18S	22691	11.9	12.2	17.0*			99
12-12-18S	22757	10.9*	12.3	18.5	*		97*
12-24-24M	20041	12.5	23.7	22.5*			99
12-24-24M	22859	12.0	23.7	25.1			101
15-15-15M	19981	15.7	15.5	15.9			104
15-15-15M	20104	15.5	15.6	16.7			105
15-15-15M	20167	14.4*	16.0	17.8			103
15-15-15M	20573	15.2	16.0	15.4			103
15-15-15M	20956	15.4	15.6	16.3			104
15-15-15M	21151	15.6	17.0	15.9			107
15-15-15M	21234	14.7	15.8	16.9			103
15-15-15M	21701	15.2	15.4	16.5			103
15-15-15M	21891	15.8	15.9	16.0			106
15-15-15M	22362	15.6	15.7	16.0			105
15-40- 5M	20964	16.0	41.3	5.9			105
15-40- 5M	21148	15.5	41.1	7.5			105
15-40- 5M	21911	15.7	40.8	6.3			104
15-40- 5M	22328	15.9	40.3	5.5			103
15-40- 5M	22532	15.6	41.3	5.8			104
16- 8-12M	27446	15.9	8.5	13.9			103
18- 6- 9M	19876	16.9*	6.4	9.5			97*
20-10-10M	21916	21.6	9.8	7.3*			102
25- 5-10M W/ME	20652	25.9	5.5	10.1			104
28- 0- 0	21792	29.7	0.0	0.0			106
28- 0- 0	22009	29.3	0.0	0.0			104
30- 0- 0	21991	31.2	0.0	0.0			104
33- 0- 0	19870	33.6	0.0	0.0			100
33- 0- 0	20236	34.6	0.0	0.0			103
33- 0- 0	20480	34.8	0.0	0.0			104
33- 0- 0	21223	34.2	0.0	0.0			102
33- 0- 0	21744	34.6	0.0	0.0			103
82- 0- 0	21958	82.1	0.0	0.0			100
82- 0- 0	22104	81.9	0.0	0.0			100
ARMOUR AGRI. CHEMICAL CO.		CHEROKEE		ALA.		XS CL	RV
GRADE	NUM	N	APA	POT			
15-15-15M	20555	15.5	16.0	15.3			104
15-15-15M	21653	15.9	18.0	14.4*			109
15-40- 5M	21654	15.7	41.3	6.1			104
30- 0- 0	22654	30.9	0.0	0.0			103
82- 0- 0	19692	82.0	0.0	0.0			100
82- 0- 0	19694	82.0	0.0	0.0			100
82- 0- 0	19707	82.0	0.0	0.0			100
82- 0- 0	19714	82.0	0.0	0.0			100
82- 0- 0	21422	82.1	0.0	0.0			100
82- 0- 0	21857	82.1	0.0	0.0			100
82- 0- 0	21987	82.1	0.0	0.0			100
ARMOUR AGRI. CHEMICAL CO.		CINCINNATI		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10- 5S	20823	5.1	10.4	5.5			104
5-10-10M	20743	5.0	10.5	11.4			106
5-10-10M	20832	5.2	11.0	11.4			109
5-10-15S	20742	5.2	10.1	15.5			103
5-10-15S	20759	5.9	9.9	14.7			104
5-10-15S	20773	5.4	9.7	14.9	*		101
5-10-15S	20966	5.5	9.6*	15.1	*		102
5-10-15S	20977	5.4	9.7	14.9			101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
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ARMOUR AGRI. CHEMICAL CO.		CINCINNATI		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	20980	5.9	10.3	15.2		*	107
5-10-15S	21652	5.7	9.7	15.1			103
5-20-20M	19847	4.9	19.5*	19.4*			97*
5-20-20M	20744	5.3	19.3*	20.7			100
5-20-20M	20764	5.2	19.7	18.9*			98
5-20-20M	20822	5.1	20.1	19.8			100
5-20-20M	20968	5.2	20.4	20.5			102
5-20-20M	21651	5.2	20.2	19.0*			100
6-12-12M	19848	5.5*	13.8	12.1			104
6-12-12M	20762	6.0	12.8	13.1			105
6-12-12M	20969	5.9	12.4	11.3*			99
6-12-12M	20979	6.2	12.1	11.4*			100
6-12-12M	21650	6.3	12.1	12.9			104
6-12-18S	20542	6.7	11.9	18.3		*	103
6-12-18S	20763	6.1	11.9	18.9		*	102
6-12-18S	20824	6.5	11.9	16.4*		*	100
6-12-18S	20976	6.0	13.0	18.3		*	104
6-24-12M	19849	5.8	22.6*	12.1			96*
8-10-15S	20978	9.0	10.1	15.7		*	106
10-10-10M	20967	9.1*	12.5	12.7			108
10-10-10M	20975	10.2	10.3	11.3			104
10-10-10M	21655	10.3	10.8	11.1			106
12-12-18S	21656	12.7	12.6	17.2*			103
ARMOUR AGRI. CHEMICAL CO.		CRYSTAL CITY MO.				XS CL	RV
GRADE	NUM	N	APA	POT			
82- 0- 0	19716	82.0	0.0	0.0			100
82- 0- 0	19729	81.8	0.0	0.0			100
82- 0- 0	19745	82.0	0.0	0.0			100
ARMOUR AGRI. CHEMICAL CO.		JEFFERSONVILLIND.				XS CL	RV
GRADE	NUM	N	APA	POT			
0-20- 0	19812	0.0	19.7	0.0			98
0-20- 0	22534	0.0	20.1	0.0			100
0-20-20M	22533	0.0	19.7	20.8			100
0-25-25M	21288	0.0	25.9	24.3*			101
0-25-25M	22339	0.0	24.8	23.7*			98
4-12- 8M	19944	4.5	12.1	9.5			107
4-12- 8M	21740	4.4	11.0*	8.9			100
5-10-10M	19861	5.0	11.7	10.5			108
5-10-10M	21307	5.9	10.5	11.1			111
5-10-15S	20141	5.3	10.1	14.9		*	102
5-10-15S	20385	5.7	9.7*	15.7		*	104
5-10-15S	20519	5.5	9.4*	14.5*			100
5-10-15S	20602	5.9	9.4*	16.5		*	106
5-10-15S	20799	5.2	10.5	14.9			103
5-10-15S	20875	5.2	9.7	16.0			102
5-10-15S	21287	4.7	12.0	14.1*		*	105
5-10-15S	21770	4.9	10.5	14.6*			100
5-10-15S	22163	5.6	10.1	16.7			107
5-20-20M	19865	5.2	19.6	20.4			100
5-20-20M	19943	5.4	19.7	19.9			101
5-20-20M	20140	5.2	19.2*	20.6			99
5-20-20M	20384	7.3	19.8	20.5			109
5-20-20M	20517	5.0	18.7*	19.3*			96*
5-20-20M	20600	4.9	20.6	20.1			101
5-20-20M	21166	5.5	17.6*	19.0*			94*
5-20-20M	22535	5.4	18.1*	18.5*			95*
6- 6-18S	21308	5.5*	7.2	17.3*			100

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ARMOUR AGRI. CHEMICAL CO.		JEFFERSONVILLIND.				
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	20892	6.0	11.9	12.3		100
6-12-12M	20955	5.9	12.0	11.9		99
6-12-12M	21096	6.0	12.1	12.4		101
6-12-12M	21769	6.5	11.3*	12.4		101
6-12-12M	22823	5.9	11.9	12.2		99
6-12-18S	20520	6.3	11.9	17.6		101
6-12-18S	20800	5.9	12.0	18.3		100
6-12-18S	21190	5.6*	11.7	19.6	*	99
6-12-18S	21408	5.6*	12.0	19.0	*	100
6-12-18S	21746	6.8	12.3	18.9		106
8-10-15S	21306	8.2	10.2	15.9	*	103
10- 3- 7M	19753	10.4	3.7	8.7		110
10-10-10M	19811	12.0	9.8	10.2		109
10-10-10M	19860	9.8	10.4	11.0		102
10-10-10M	19985	9.9	12.4	13.2		113
10-10-10M	20388	10.0	10.4	10.1		101
10-10-10M	20389	10.5	10.1	11.1		104
10-10-10M	20518	10.5	10.3	11.1		105
10-10-10M	20601	10.5	10.3	10.0		103
10-10-10M	21167	9.3*	11.7	12.8		107
10-10-10M	21488	9.5*	11.1	11.2		103
10-10-10M	21768	10.3	10.5	11.0		105
10-10-10M	22338	10.5	10.4	10.1		104
30- 0- 0	21302	31.0	0.0	0.0		103
ARMOUR AGRI. CHEMICAL CO.		MEMPHIS TENN				
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	19969	7.0	13.8	11.5*		111
82- 0- 0	19718	82.0	0.0	0.0		100
82- 0- 0	19722	82.0	0.0	0.0		100
ARMOUR AGRI. CHEMICAL CO.		NASHVILLE TENN				
GRADE	NUM	N	APA	POT	XS CL	RV
3-12- 6M	21235	3.3	11.5*	7.0		102
3-12- 6M	21258	4.0	11.6*	7.7		110
3-12- 6M	22213	4.9	11.8	6.9		116
4-12- 8M	19917	4.2	12.0	9.9		106
4-12- 8M	19956	5.0	12.2	9.5		111
4-12- 8M	19968	4.9	11.6*	8.6		105
4-12- 8M	21582	4.4	11.8	10.0		107
4-12-12M	22536	5.2	12.1	12.3		109
5-10- 5S	20214	5.0	10.7	6.1		106
5-10-10M	20084	5.3	9.5*	10.2		100
5-10-10M	20556	5.3	9.7	9.9		101
5-10-10M	21584	5.8	11.1	11.1		113
5-10-15S	20962	5.0	10.1	14.3*		99
5-10-15S	21617	5.5	9.7	15.8		103
5-20-20M	19914	4.9	19.0*	21.4		99
5-20-20M	20013	5.6	18.7*	19.6		98
5-20-20M	20044	4.9	19.1*	19.9		97*
5-20-20M	20085	4.9	18.4*	20.6		96*
5-20-20M	20579	5.0	20.1	21.9		103
5-20-20M	21452	5.1	15.8*	18.9*		88*
5-20-20M	21453	4.9	19.7	18.7*		97*
5-20-20M	22714	5.5	18.5*	19.4*		97*
6-12-12M	19825	6.1	11.7	12.1		99
6-12-12M	19915	5.7	11.5*	12.5		97*
6-12-12M	20011	5.6*	11.8	11.9		97*
6-12-12M	20067	6.5	11.3*	12.3		100

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ARMOUR AGRI. CHEMICAL CO.		NASHVILLE		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-12M	20088	6.5	11.4*	12.6			102
6-12-12M	20961	6.4	12.4	11.0*			102
6-12-12M	21129	5.5*	10.3*	14.3			95*
6-12-12M	21451	5.9	12.0	13.6			102
6-12-12M	21583	6.6	11.8	12.3			103
6-12-12M	22212	6.3	11.8	12.7			102
6-12-12M	22563	6.3	12.4	12.1			103
6-12-12M	22716	6.1	12.0	12.6			101
6-12-18S	21128	6.0	11.9	16.9*			98
6-12-18S	21616	6.0	11.5*	17.5*			97*
6-12-18S	22548	5.8	11.1*	18.9			97*
6-12-18S	22591	6.1	10.7*	18.1			96*
6-18-12M	20012	6.1	14.2*	13.1			90*
6-18-12M	20042	5.9	17.6	12.8			99
6-18-36M W/ME	21448	6.2	19.6	36.9			105
6-24-24M	19886	6.4	24.6	23.9			102
6-24-24M	20093	6.3	23.9	24.5			101
6-24-24M	21962	6.4	23.7	25.5			102
10-10-10M	19823	9.7	10.4	10.3			101
10-10-10M	19916	9.9	9.9	11.0			100
10-10-10M	19971	10.4	10.1	10.7			103
10-10-10M	20014	9.2*	10.6	10.8			99
10-10-10M	20087	9.9	11.0	9.9			102
10-10-10M	21259	9.7	10.5	10.7			102
10-10-10M	21449	9.9	9.7	11.1			100
10-10-10M	21615	9.9	10.3	11.0			102
12-12-12M	21450	12.1	12.4	12.1			102
12-12-18S	21298	12.2	11.8	17.0*			99
12-24-24M	22549	12.9	25.6	23.1*			105
12-24-24M	22562	12.1	25.2	24.7			103
15-15-15M	19824	15.6	15.6	15.8			104
15-15-15M	20963	15.3	15.9	16.0			104
15-40-5M	21454	15.2	41.5	6.3			104
33-0-0	20091	33.3	0.0	0.0			99
ARMOUR AGRI. CHEMICAL CO.		SHELBYVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
16-8-12M	22340	16.9	8.3	12.1			104
BALLARD COUNTY COOP		LA CENTER		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
9-8-12M	22273	10.5	8.6	13.4			106
13-15-15M	22274	14.9	16.7	13.5*			105
BLACKSTONE GUANO COMPANY		RICHMOND		VA.		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10M	19768	9.7	10.4	11.1			102
BLUEGRASS PLANT FOODS, INC.		CYNTHIANA		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
4-19-19M	21403	6.1	16.0*	19.0*			93*
5-10-15S	21585	5.4	10.2	15.4			104
6-12-18S	21587	6.7	11.8	18.4			104
6-12-18S W/ME	21589	5.9	12.1	18.1			100
8-10-15S W/ME	21402	8.6	10.1	14.9			103
10-10-10M	20479	9.9	10.2	11.6			102
10-10-10M	21586	9.7	10.5	10.6			101
10-20-20M	21202	9.7*	4.4*	18.0*			62*

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968

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

BLUEGRASS PLANT FOODS, INC.		CYNTHIANA			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
13- 7-11M W/ME	21588	13.8	7.3	12.9		103	
16- 8- 8M	21201	16.1	7.9	8.0		100	
38- 0- 0	19850	38.3	0.0	0.0		101	
BLUEGRASS PLANT FOODS, INC.		DANVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
0- 0-50S	21141	0.0	0.0	53.1		106	
0-20- 0	20472	0.0	18.7*	0.0		94*	
0-20- 0	22289	0.0	18.2*	0.0		91*	
3-12-12M	21315	3.3	11.0*	12.5		99	
5-10-10M	21317	5.8	9.7	12.1		109	
5-10-10M	21472	5.9	9.6*	11.7		108	
5-10-15S	20564	5.0	9.6*	16.4		101	
5-10-15S	20716	5.2	10.0	15.5		102	
5-10-15S	21040	5.8	10.3	15.9		108	
5-10-15S	21137	5.3	9.6*	16.9		104	
5-10-15S	21196	5.2	9.9	16.4		103	
5-10-15S	21203	5.2	9.3*	17.5		103	
5-10-15S	21469	5.0	9.5*	16.9		102	
5-10-15S	21470	5.6	9.7	16.7		106	
5-10-15S	22286	5.7	10.2	15.7		106	
5-10-15S	22287	5.5	10.5	15.7		107	
5-20-20M	20217	5.6	21.7	21.9		109	
5-20-20M	21037	6.0	20.3	22.4		108	
5-20-20M	21204	5.8	20.2	21.2		105	
5-20-20M	22577	6.0	21.0	20.5		107	
5-20-20M	22598	5.4	19.1*	21.7		101	
6- 6-18S	21471	6.2	7.7	17.1*		106	
6- 6-18S	21140	6.2	6.5	18.3		104	
6- 6-18S	21205	6.1	6.0	20.0		105	
6- 6-18S	21467	5.9	5.7	22.5		107	
6- 8- 6S	20471	6.6	7.7*	6.9		105	
6- 8- 6S	22288	6.9	8.3	7.4		111	
6-12-12M	20340	6.8	11.6*	11.3*		102	
6-12-12M	20473	7.7	11.5*	12.7		109	
6-12-12M	21138	6.9	10.5*	14.1		104	
6-12-12M	21473	6.9	12.4	12.2		107	
6-12-12M	22597	7.0	12.1	12.2		106	
6-12-12M	22703	7.0	11.2*	14.4		107	
7- 5-17S W/ME	21602	7.8	6.4	19.4		104	
7- 7-17S	22738	8.8	7.8	17.1	*	106	
8- 6-18S W/ME	21468	7.9	6.7	19.3		104	
10- 6- 4M	21316	10.8	6.0	5.4		108	
10-10-10M	20216	10.5	9.7*	11.1		103	
10-10-10M	20717	10.8	10.4	11.3		108	
10-10-10M	21139	10.4	10.1	11.4		104	
10-10-10M	21474	10.0	11.0	10.1		103	
10-10-10M	22285	11.2	9.5*	11.6		107	
10-10-10M	22605	10.9	9.2*	11.8		105	
10-20-20M	22578	9.7*	21.5	19.5*		102	
12-12-12M	20341	12.4	13.3	12.3		106	
12-12-12M	21314	11.7	11.7	14.3		101	
12-12-12M	22604	10.5*	11.8	13.0		95*	
BUNTON SEED COMPANY		LOUISVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
6-12- 6M	19760	6.0	12.6	7.0		104	
6-12- 6M	20127	6.3	12.7	6.9		106	
12- 8- 8M	20649	12.7	8.1	9.5		106	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968

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

BURLEY BELT FERTILIZER COMPANY			LEXINGTON		KY.			
GRADE		NUM	N	APA	POT	XS CL	RV	
0- 0-57M	W/B	20230	0.0	0.0	57.6		101	
0- 0-58M	W/B	20262	0.0	0.0	58.8		101	
0-20- 0		21795	0.0	19.0*	0.0		95*	
0-20-20M		20849	0.0	20.6	18.2*		99	
0-20-20M		21399	0.0	20.1	19.7		100	
0-20-20M		21796	0.0	19.8	20.2		99	
0-25-25M		20459	0.0	26.6	24.0*		103	
0-25-25M		20958	0.0	23.8*	25.3		97*	
3- 9- 6M		20957	3.2	8.9	7.8		107	
3- 9- 6M		21571	3.9	8.8	7.4		111	
3- 9- 6S		20296	3.9	9.2	8.8		118	
4-12- 8M		20816	4.4	11.5*	9.0		102	
4-12- 8M		22583	4.4	12.3	8.4		105	
4-16- 4S		20817	4.8	14.7*	6.5		105	
4-16- 4S		20850	4.5	16.3	4.6		105	
4-16- 4S		21271	4.4	16.5	4.8		106	
5- 1-21M	W/ME	19983	9.8	1.8	21.4		141	
5-10-10M		19765	5.5	9.9	11.2		106	
5-10-10M		20828	5.1	10.5	10.1		103	
5-10-10M		20851	5.5	10.3	10.1		105	
5-10-10M		21572	5.0	9.7	9.5*		98	
5-10-10M		21576	5.0	10.2	10.6		102	
5-10-15S		20460	5.3	10.2	15.1		103	
5-10-15S		20769	5.2	10.1	14.9		102	
5-10-15S		20810	5.6	9.9	15.4		104	
5-10-15S		20829	5.3	10.3	14.9		103	
5-10-15S		21267	5.2	10.3	14.6*		101	
5-10-15S		21275	5.2	9.7	16.0		102	
5-10-15S		21395	4.8	10.0	16.0		100	
5-10-15S		21414	5.2	9.7	16.1		103	
5-10-15S		21664	5.3	9.7	16.1		103	
5-10-15S		21667	5.4	9.7	15.7		103	
5-10-15S		22319	5.4	10.3	14.9		103	
5-10-15S		22576	5.4	9.7	15.3		102	
5-20-20M		20263	5.0	18.7*	20.9		97*	
5-20-20M		20461	5.4	20.2	20.2		102	
5-20-20M		20813	5.8	19.4*	18.9*		100	
5-20-20M		21662	6.5	12.7*	21.8		89*	
5-20-20M		21677	5.4	20.6	19.9		103	
5-20-20M		21797	5.5	19.5*	18.5*		99	
5-20-20M		22584	5.6	19.2*	20.2		100	
6- 6-18S		20293	5.9	6.2	17.8		100	
6- 6-18S		20814	6.0	6.9	18.0		103	
6- 6-18S		21269	6.5	6.0	18.2		103	
6- 6-18S		21274	5.6*	6.7	18.6		101	
6- 6-18S		21286	6.0	6.2	18.6		102	
6- 6-18S		21415	6.1	6.3	18.1		102	
6- 8- 6S		20815	6.5	7.3*	7.0		103	
6- 8- 6S		21174	6.6	8.6	7.5		111	
6- 8- 6S		21270	6.5	7.6*	6.8		104	
6-12-12M		21678	6.8	11.6*	12.1		103	
6-12-18S		21668	6.6	13.9	15.3*		105	
6-12-18S	W/ME	21400	6.4	12.0	17.7		101	
6-12-18S	W/ME	21501	6.0	11.9	18.7		101	
6-12-18S	W/ME	22035	6.7	12.7	17.0*		104	
7- 5-16S		21398	11.8	5.3*	13.5*		115	
8-10-15S		20771	8.3	10.2	15.1		102	



TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968

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

BURLEY BELT FERTILIZER COMPANY		LEXINGTON		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
8-10-15S	20808	8.3	10.7	15.3		104
8-10-15S	20812	8.4	10.0	15.4		103
8-10-15S	21268	8.3	10.4	14.9		103
8-10-15S	21273	8.4	10.3	15.7		104
8-10-15S	21396	7.8	9.5*	15.1	*	97*
8-16-16M	19853	7.3*	15.4*	18.7		99
8-16-16M	19855	7.7*	15.7	18.0		101
8-16-16M	19984	8.1	16.0	16.3		101
9-10-15S	21661	10.9	10.8	13.7*		110
10- 6- 4M	19766	11.6	8.8	4.2		123
10-10-10M	19764	10.1	10.4	10.1		102
10-10-10M	19819	9.9	11.6	10.3		105
10-10-10M	19862	10.5	8.7*	10.5		99
10-10-10M	19863	10.0	10.8	9.5*		101
10-10-10M	20294	9.3*	10.5	10.4		99
10-10-10M	20295	10.1	9.9	11.1		102
10-10-10M	20297	9.6*	10.0	9.9		98
10-10-10M	20614	9.5*	10.5	11.6		102
10-10-10M	20809	10.9	10.1	10.0		105
10-10-10M	20959	10.2	10.5	10.6		104
10-10-10M	21052	9.8	10.4	10.8		102
10-10-10M	21127	10.1	10.5	10.1		102
10-10-10M	21175	10.8	10.7	9.9		106
10-10-10M	21272	10.2	11.0	9.2*		103
10-10-10M	21283	10.3	10.4	10.2		103
10-10-10M	21577	10.1	10.5	9.8		102
10-10-10M	21581	10.1	10.1	10.8		102
10-10-10M	21663	10.6	10.0	10.0		103
10-10-10M	21665	10.4	10.0	10.7		103
10-10-10M	21666	10.6	10.2	9.9		103
10-10-10M	21679	10.1	10.1	10.1		101
10-10-10M	22316	10.7	10.4	9.5*		104
10-10-10M	22582	10.6	10.3	9.5*		103
10-10-20S	20770	10.6	10.3	19.3*		103
10-10-20S	21285	9.7	10.7	20.1		101
10-10-20S	22318	9.6*	8.9*	21.2		97*
12- 4- 8M	19752	11.5*	5.6	8.9		105
12- 4-13S	21397	11.7*	5.7	13.4*		100
12-12-12M	19852	12.3	11.9	12.2		101
12-12-12M	19854	11.9	12.4	12.5		101
12-12-12M	20772	12.5	11.8	12.2		102
12-12-12M	20811	12.7	11.8	11.9		102
12-12-12M	21394	12.1	12.4	11.4*		101
12-12-12M	22341	12.5	12.1	11.9		102
20-10-10M	21282	19.6	10.9	11.6		102
20-10-10M	22863	19.5*	10.2	11.0		100
BURLEY BELT CHEMICAL COMPANY		LONDON		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-60M	20259	0.0	0.0	61.4		102
0- 0-60M	20562	0.0	0.0	57.4*		96*
0-10-30M	21125	0.0	11.6	28.7*		104
0-19-38M W/B	20252	0.0	16.6*	39.2		95*
0-20-20M	20616	0.0	21.1	19.2*		102
0-20-20M	22481	0.0	21.3	18.4*		102
0-25-25M	20260	0.0	23.1*	26.7		97*
0-25-25M W/B	20257	0.0	23.7*	25.2		97*
3- 9- 6M	20618	3.4	9.2	7.0		108

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

BURLEY BELT CHEMICAL COMPANY		LONDON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
3- 9- 6M	21041	4.0	9.3	6.5			112
3- 9- 6M	21382	3.4	7.8*	6.8			99
4-12- 8M	21378	4.3	11.6*	10.2			105
5-10- 5M	20190	5.6	10.1	5.3			105
5-10-10M	20191	4.7	10.3	10.1			100
5-10-10M	20561	4.9	10.2	10.0			100
5-10-10M	20623	5.5	10.1	9.7			103
5-10-10M	22353	5.5	10.2	10.1			104
5-10-15S	20392	5.3	9.6*	15.2			101
5-10-15S	21383	5.1	10.1	14.4*			99
5-10-15S	22054	5.5	10.8	15.4			107
5-15-15S	21822	5.7	14.6	15.7	*		103
5-20-20M	20123	4.7*	19.7	21.3			100
5-20-20M	20560	5.0	19.5*	19.3*			98
5-20-20M	20624	5.9	19.3*	18.1*			99
5-20-20M	21380	5.2	20.3	18.5*			100
5-20-20M	21524	4.9	20.7	20.1			102
5-20-20M	21634	5.6	20.4	20.7			104
5-20-20M	22480	5.3	18.8*	21.2			100
6-12-12M	20192	6.0	10.5*	12.5			95*
6-12-12M	20258	6.3	11.8	12.0			101
6-12-12M	20393	6.8	11.5*	13.3			104
6-12-12M	20619	5.1*	14.2	13.0			105
6-12-12M	20622	6.7	11.8	12.1			103
6-12-12M	21379	6.6	11.8	11.9			102
6-12-12M	21525	6.2	11.9	11.9			101
6-12-12M	21632	6.5	12.1	12.3			104
6-12-12M	22038	6.0	12.1	11.4*			100
6-12-12M	22055	7.0	11.8	12.5			106
6-12-12M	22354	6.7	12.3	11.1*			103
6-12-12M	22482	6.5	12.1	12.1			103
6-12-12M	22633	6.2	12.0	11.6*			101
6-12-12M	22836	5.9	12.1	11.3*			99
10-10-10M	20193	10.3	10.1	10.2			102
10-10-10M	20229	10.2	10.3	10.2			102
10-10-10M	20253	10.5	9.9	10.2			103
10-10-10M	20254	9.7*	10.3	10.1			99
10-10-10M	20255	10.6	9.9	10.4			103
10-10-10M	20256	10.8	9.9	10.3			104
10-10-10M	20261	9.7	10.8	10.0			101
10-10-10M	20559	10.5	10.3	9.6*			103
10-10-10M	20620	10.5	10.3	10.1			104
10-10-10M	21124	10.2	10.9	9.9			104
10-10-10M	21523	10.0	10.5	10.0			102
10-10-10M	22056	10.7	10.7	9.8			105
10-10-10M	22355	10.5	10.8	9.3*			104
10-10-10M	22634	10.6	10.1	9.7			103
10-10-20S	20615	9.9	10.9	18.3*			99
10-20-20M	20617	10.3	20.2	21.0			102
12-12-12M	20194	11.6*	12.1	11.1*			97*
12-12-12M	20621	11.9	11.9	11.7			99
12-12-12M	21381	11.7	13.1	12.1			102
CENTRAL FARMERS FERT. COMPANY		CHICAGO		ILL.		XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-60M	20605	0.0	0.0	60.2			100
0-46- 0	20189	0.0	46.0	0.0			100
0-46- 0	20346	0.0	46.1	0.0			100

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

CENTRAL FARMERS FERT. COMPANY		CHICAGO		ILL.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-46- 0	21735	0.0	46.7	0.0		102	
0-46- 0	22441	0.0	46.1	0.0		100	
0-46- 0	22879	0.0	46.2	0.0		100	
CHEVRON CHEMICAL CO-ORTHO DIV		RICHMOND		CAL.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-46- 0	20201	0.0	45.4	0.0		99	
10-20-20M	22849	10.2	20.4	20.2		102	
16-16-16M	22134	16.8	16.4	16.3		104	
16-16-16M	22850	15.9	15.7	15.9		99	
18-46- 0	20202	17.7	46.1	0.0		100	
22- 4- 4M W/ME	21726	23.6	4.6	4.3		108	
33- 0- 0	20115	34.1	0.0	0.0		102	
CHILFAN NITRATE SALES CORP.		NEW YORK		N.Y.			
GRADE	NUM	N	APA	POT	XS CL	RV	
15- 0-14M	22609	15.0	0.0	13.8		99	
15- 0-14M	22767	15.1	0.0	13.7		100	
15- 0-14M	21009	15.1	0.0	13.9		100	
16- 0- 0	20607	16.5	0.0	0.0		103	
CHRISTIAN COUNTY SUPPLY CO.		HOPKINSVILLE KY.			XS CL	RV	
GRADE	NUM	N	APA	POT			
0-25-20M	21859	0.0	25.9	17.8*		99	
0-25-25M	22098	0.0	23.3*	25.2		96*	
5-10-15S	22575	4.9	9.7	16.5		101	
12-12-18S	22099	14.0	16.5	20.0		122	
28- 0- 0	21858	29.1	0.0	0.0		104	
CLINE FERTILIZER COMPANY		EWING		VA.2			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-10- 5M	20830	6.7	13.7	7.1		136	
5-10-10M	20831	5.3	9.7	10.2		101	
CCMINCO AMERICAN INC		SPOKANE		WASH			
GRADE	NUM	N	APA	POT	XS CL	RV	
34- 0- 0	20083	34.4	0.0	0.0		101	
34- 0- 0	20116	35.5	0.0	0.0		104	
82- 0- 0	22568	81.9	0.0	0.0		100	
82- 0- 0	22569	81.9	0.0	0.0		100	
82- 0- 0	22780	82.1	0.0	0.0		100	
COMMERCIAL SOLVENTS CORP.		NEW YORK		N.Y.			
GRADE	NUM	N	APA	POT	XS CL	RV	
33- 0- 0	20901	34.6	0.0	0.0		103	
33- 0- 0	21220	34.8	0.0	0.0		104	
33- 0- 0	21434	35.2	0.0	0.0		105	
33- 0- 0	22256	34.3	0.0	0.0		102	
COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE KY.			XS CL	RV	
GRADE	NUM	N	APA	POT			
4-12- 8M	20506	4.7	12.3	9.6		110	
4-12- 8M	22621	4.7	13.4	11.8		119	
4-16- 4S	20416	3.9	16.7	3.9		102	
4-16- 4S	20424	3.9	17.4	3.1*		103	
5-10-15S	21243	5.6	11.2	14.9	*	109	
5-10-15S	21996	5.7	10.8	15.8		109	
5-10-15S	22397	6.0	11.0	16.6	*	113	
5-20-20M	19834	5.1	18.4*	18.3*		94*	
5-20-20M	20006	4.9	19.2*	23.1		102	
5-20-20M	20423	5.7	20.5	21.3		106	
5-20-20M	20425	5.5	19.4*	17.9*		97*	
5-20-20M	20507	5.1	19.9	21.4		102	
5-20-20M	21360	5.6	19.3*	17.0*		97*	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
5-20-20M	21967	5.6	20.7	20.8		106
5-20-20M	22013	5.5	20.6	20.0		103
5-20-20M	22122	6.0	18.6*	21.9		103
5-20-20M	22210	5.3	21.0	19.9		104
5-20-20M	22774	5.9	18.9*	20.5		101
6-12-12M	20005	5.8	14.4	12.2		109
6-12-12M	20332	5.5*	13.1	13.5		104
6-12-12M	20422	6.3	13.8	13.1		111
6-12-12M	21362	6.0	13.3	11.4*		104
6-12-12M	21965	6.5	13.3	13.0		109
6-12-12M	22015	6.4	13.2	13.4		109
6-12-12M	22120	6.1	12.3	13.5		104
6-12-12M	22429	6.3	13.5	13.7		110
6-12-12M W/ME	20419	6.0	12.4	13.5		104
6-12-12M W/ME	22118	6.6	12.7	13.5		109
6-12-18S W/ME	22018	6.4	15.0	15.3*	*	107
6-18-12M	19931	6.7	17.7	12.1		102
6-18-12M	20046	6.0	19.0	12.0		103
6-18-12M	20421	6.6	17.3*	13.4		103
6-18-12M	21242	5.5*	17.9	14.3		101
6-18-12M	21263	5.9	17.3*	15.2		102
6-18-12M	21363	5.8	19.1	13.6		105
6-18-12M	21966	6.6	17.0*	14.2		103
6-21-18M	19836	6.8	19.5*	19.4		101
6-21-18M	20430	6.8	20.6	18.0		102
6-21-18M W/ME	20045	6.8	20.6	17.2*		101
6-21-18M W/ME	20426	6.5	20.6	18.9		102
7-21-10M	20420	7.0	17.5*	12.6		94*
7-21-10M W/ME	21358	6.9	19.1*	13.1		99
7-21-10M W/ME	22014	6.9	20.4*	11.8		100
7-21-10M W/ME	22121	6.3*	20.4*	15.4		103
7-21-10M W/ME	22752	6.8	18.8*	12.1		96*
8-12-15S	21240	7.2*	12.4	16.9		100
8-12-15S	21359	6.9*	14.4	14.2*		101
8-12-15S	22398	7.6*	15.7	12.5*	*	106
8-12-15S W/ME	22016	7.9	11.9	16.4	*	101
8-12-15S W/ME	22119	7.5*	12.6	15.8	*	101
10-10-10M	19835	9.8	10.6	11.1		103
10-10-10M	20007	10.0	10.5	11.2		104
10-10-10M	20008	9.7*	10.9	11.6		104
10-10-10M	20417	9.5*	13.9	11.6		113
10-10-10M	20418	9.9	10.1	12.2		104
10-10-10M	21241	9.4*	11.0	11.9		103
10-10-10M	21361	7.4*	11.5	12.4		96*
10-10-10M	21997	9.4*	11.3	11.6		104
10-10-10M	22017	9.4*	10.2	15.0		106
10-10-10M	22516	9.3*	11.8	12.3		106
10-10-10M	22620	8.5*	11.9	13.9		105
10-10-10M	22751	9.7	9.9	11.0		100
10-10-10M	22775	9.2*	10.9	12.4		103
10-10-10M	22805	8.9*	11.4	13.1		104
14-14-14M	21364	14.4	14.3	15.4		104
18-46-0	20428	17.7	46.1	0.0		99
28-0-0	21357	29.5	0.0	0.0		105
82-0-0	22005	82.2	0.0	0.0		100
82-0-0	22010	82.0	0.0	0.0		100
82-0-0	22012	81.9	0.0	0.0		100

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

ELANCO PRODUCTS COMPANY		INDIANAPOLIS IND.			XS CL	RV
GRADE	NUM	N	APA	POT		
20-20-20M	21563	21.7	21.3	20.5		107
24- 6- 6M	21711	25.5	6.9	6.9		108
FARMERS CHEMICAL ASSN., INC.		TYNER		TENN		RV
GRADE	NUM	N	APA	POT	XS CL	
30- 0- 0	20578	32.0	0.0	0.0		107
30- 0- 0	20783	31.7	0.0	0.0		106
30- 0- 0	21292	34.0	0.0	0.0		113
30- 0- 0	21356	31.9	0.0	0.0		106
30- 0- 0	21992	31.4	0.0	0.0		105
30- 0- 0	22096	31.9	0.0	0.0		106
30- 0- 0	22250	31.3	0.0	0.0		104
30- 0- 0	22297	31.8	0.0	0.0		106
30- 0- 0	22305	32.8	0.0	0.0		109
30- 0- 0	22447	31.9	0.0	0.0		106
30- 0- 0	22460	32.1	0.0	0.0		107
33- 0- 0	20089	34.4	0.0	0.0		103
33- 0- 0	20134	33.8	0.0	0.0		101
33- 0- 0	20660	34.7	0.0	0.0		103
33- 0- 0	21008	35.2	0.0	0.0		105
33- 0- 0	22265	34.2	0.0	0.0		102
FARMERS FERTILIZER COMPANY		SMITH GROVE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
4-16- 4S	21411	3.9	15.4*	5.3		100
5-10-15S	21811	5.5	9.9	16.9		107
5-10-15S	21819	4.6*	9.5*	19.4		104
6-30- 0	21366	7.0	28.1*	0.0		99
7-28- 0	21367	7.9	22.9*	0.0		90*
10-10-10M	21368	9.8	11.6	11.3		106
10-10-10M	21818	10.8	10.5	10.5		106
14-14- 0	21810	14.7	14.2	0.0		100
30- 0- 0	21369	30.9	0.0	0.0		103
FARMLAND INDUSTRIES INC.		KANSAS CITY MO.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-46- 0	21133	0.0	47.7	0.0		104
FARMSCO OF KY.		FRANKLIN		KY.		RV
GRADE	NUM	N	APA	POT	XS CL	
7-10-15NIT	21801	7.9	10.6	14.5*		106
10-10-10M	20960	10.7	9.9	10.1		103
10-34- 0	20587	10.7	35.4	0.0		105
15-10-10M	21802	15.7	10.1	10.3		103
16-12-12M	21804	16.7	11.7	12.6		102
18- 6- 6M	21803	17.9	6.2	6.6		101
30- 0- 0	20586	30.7	0.0	0.0		102
FARMSCO OF KY		GRACEY		KY.		RV
GRADE	NUM	N	APA	POT	XS CL	
5-15-15M	22799	6.3	14.1*	15.5		104
10-34- 0	22800	10.9	35.4	0.0		106
10-34- 0	22801	10.4	35.1	0.0		103
10-34- 0	22802	10.6	35.2	0.0		104
30- 0- 0	22798	29.9	0.0	0.0		100
FEDERAL CHEMICAL COMPANY		HUMBOLDT			TENN	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	21424	0.0	21.3	20.5		105
4-12-16M W/ME	22277	4.9	12.8	17.0		110
4-12-16M W/ME	22812	4.5	12.0	16.3		103
5-10-15S	20688	4.9	9.5*	14.2*		96*
5-10-15S	22254	5.6	9.7	13.5*		100

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FEDERAL CHEMICAL COMPANY		HUMBOLDT		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
5-20-20M	21614	5.8	18.3*	21.7			101
5-25-15M W/ME	19784	5.8	22.0*	15.6			96*
5-25-15M W/ME	21969	6.2	25.4	15.2			106
6-12-12M	19783	6.2	12.1	12.1			101
6-12-12M	20689	6.1	11.8	11.1*			98
6-12-12M	22255	6.8	14.5	12.9			115
10-10-10M	22275	9.9	11.4	10.7			105
10-10-15S	22278	11.0	11.9	14.0*			109
10-10-15S W/ME	21613	10.5	11.7	14.3*		*	106
12-12-12M	20690	11.7	12.1	12.3			100
12-12-12M	22276	11.1*	15.6	11.3*			105
12-12-12M	22547	11.2*	13.1	13.6			102
15-15-15M	22279	16.0	22.7	12.0*			117
15-15-15M	22813	14.9	14.2*	15.8			99
FEDERAL CHEMICAL COMPANY		LOUISVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-50S	21313	0.0	0.0	51.2			102
0- 0-50S	21690	0.0	0.0	50.6			101
0- 0-50S	22311	0.0	0.0	36.4*			73*
0-10-30M W/B	22687	0.0	13.3	25.6*			104
0-20- 0	19813	0.0	20.0	0.0			100
0-20- 0	19892	0.0	19.8	0.0			99
0-20- 0	20927	0.0	19.8	0.0			99
0-20- 0	21538	0.0	19.0*	0.0			95*
0-20- 0	22308	0.0	18.6*	0.0			93*
0-20- 0	22567	0.0	20.4	0.0			102
0-20- 0	22692	0.0	18.8*	0.0			94*
0-20-20M	19891	0.0	19.3*	19.6			97*
0-20-20M	19997	0.0	19.1*	15.8*			90*
0-20-20M	20352	0.0	21.1	18.6*			101
0-20-20M	20599	0.0	18.0*	21.2			95*
0-20-20M	20845	0.0	19.8	20.5			100
0-20-20M	21042	0.0	18.4*	23.9			101
0-20-20M	21159	0.0	21.1	20.7			105
0-20-20M	21573	0.0	20.2	18.6*			98
0-20-20M	21640	0.0	19.1*	21.0			99
0-20-20M	21985	0.0	20.3	22.3			105
0-20-20M	22241	0.0	17.8*	18.3*			90*
0-20-20M	22360	0.0	20.0	20.6			101
0-20-20M	22489	0.0	20.2	18.5*			98
3-12-12M	20796	7.1	13.7	14.4			140
4-12- 8M	19795	4.3	12.3	11.4			111
4-12- 8M	19911	3.9	11.1*	7.9			95*
4-12- 8M	20056	4.4	11.8	9.6			106
4-12- 8M	20335	4.1	11.6*	12.8			110
4-12- 8M	20847	4.0	11.9	9.2			102
4-12- 8M	20926	4.7	12.6	10.7			114
4-12- 8M	21112	4.9	14.0	12.4			125
4-12- 8M	21433	4.9	12.4	9.9			112
4-12- 8M	22240	4.9	13.3	12.4			122
4-12- 8M	22881	4.9	15.5	9.2			125
4-16- 4S	20268	4.7	14.6*	13.1		*	118
4-16- 4S	20368	4.2	14.6*	9.4		*	106
4-16- 4S	21195	4.7	15.8	5.2		*	106
5-10-15S	19890	5.4	10.6	14.5*			104
5-10-15S	20142	5.7	9.9	15.1		*	104
5-10-15S	20197	5.3	9.8	15.1			101

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FEDERAL CHEMICAL COMPANY		LOUISVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
5-10-15S	20244	5.8	10.9	14.9	*	108	
5-10-15S	20269	5.7	9.7	15.4	*	104	
5-10-15S	20336	5.2	10.5	14.9		103	
5-10-15S	20351	5.4	10.5	15.2	*	105	
5-10-15S	20476	5.8	10.5	16.5		110	
5-10-15S	20509	5.8	10.8	15.4	*	109	
5-10-15S	20631	4.9	9.9	15.2	*	99	
5-10-15S	20760	5.9	10.5	15.1	*	108	
5-10-15S	20798	5.2	13.4	16.0	*	117	
5-10-15S	21070	5.3	10.0	14.8		101	
5-10-15S	21216	5.2	9.7*	16.6		103	
5-10-15S	21297	5.6	11.9	14.9	*	111	
5-10-15S	21407	5.4	10.8	14.5*		105	
5-10-15S	21537	4.9	10.8	14.3*		101	
5-10-15S	21628	5.9	10.9	15.3		109	
5-10-15S	22095	5.6	9.7	14.5*		101	
5-10-15S	22176	5.9	11.1	14.9	*	110	
5-10-15S	22239	5.9	10.3	15.3		107	
5-10-15S	22247	6.7	10.7	14.0*	*	111	
5-10-15S	22376	6.1	10.4	15.5		109	
5-10-15S	22392	6.1	10.5	15.2		109	
5-10-15S	22499	5.8	10.4	15.2	*	107	
5-10-15S	22602	5.7	9.6*	15.5		103	
5-10-15S	22614	6.6	11.0	15.1	*	114	
5-10-15S	22763	5.7	10.3	14.6	*	104	
5-20-20M	19794	5.5	18.7*	21.1		100	
5-20-20M	19894	5.7	20.3	19.1*		102	
5-20-20M	19909	5.2	19.3*	21.9		101	
5-20-20M	19974	6.0	18.7*	19.4*		100	
5-20-20M	19998	5.3	19.8	20.8		102	
5-20-20M	20065	5.7	19.9	20.2		103	
5-20-20M	20070	5.6	19.6*	18.9*		100	
5-20-20M	20495	5.5	19.3*	22.3		103	
5-20-20M	20510	3.9*	18.3*	23.6		96*	
5-20-20M	20792	6.0	18.1*	19.4*		98	
5-20-20M	20928	5.4	20.2	17.8*		99	
5-20-20M	20938	5.0	20.9	20.5		103	
5-20-20M	21068	5.4	19.4*	20.6		101	
5-20-20M	21071	5.6	18.6*	19.1*		97*	
5-20-20M	21160	5.9	20.9	17.5*		103	
5-20-20M	21168	5.5	18.8*	19.5*		98	
5-20-20M	21217	3.5*	21.0	20.5		97*	
5-20-20M	21252	6.0	19.3*	20.1		102	
5-20-20M	21295	5.2	18.9*	18.9*		97*	
5-20-20M	21304	5.3	18.6*	20.2		98	
5-20-20M	21546	5.7	18.6*	19.1*		98	
5-20-20M	21639	4.7	20.7	20.1		101	
5-20-20M	21836	4.4*	20.5	20.5		99	
5-20-20M	21986	6.8	21.1	18.1*		108	
5-20-20M	22094	4.9	19.0*	21.3		99	
5-20-20M	22139	5.2	19.3*	20.6		100	
5-20-20M	22193	5.4	18.5*	21.0		99	
5-20-20M	22242	4.7*	19.7	20.0		98	
5-20-20M	22309	5.3	18.5*	21.8		99	
5-20-20M	22394	5.7	19.5*	21.8		104	
5-20-20M	22498	5.4	20.4	21.7		105	
5-20-20M	22601	5.4	17.3*	17.3*		91*	

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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	POT	XS CL	RV	
5-20-20M	22641	5.0	20.5	20.2		101	
5-20-20M	22750	6.7	18.8*	18.3*		101	
5-20-20M	22847	5.3	18.0*	18.9*		94*	
5-25-15M W/ME	20337	5.0	22.9*	17.4		98	
5-25-15M W/ME	21065	6.7	22.8*	15.7		101	
6- 6-18S	20802	6.6	6.9	18.6		108	
6- 6-18S	21311	5.8	7.3	22.2		113	
6- 6-18S	21681	6.3	10.1	19.2	*	121	
6- 6-18S	21682	6.1	7.9	18.4	*	109	
6-12-12M	19761	6.0	11.8	13.4		102	
6-12-12M	19815	5.9	12.9	11.7		102	
6-12-12M	19878	7.7	12.3	12.3		111	
6-12-12M	19893	5.1*	12.9	13.6		101	
6-12-12M	19972	6.5	12.0	12.1		103	
6-12-12M	19996	5.4*	12.4	13.0		100	
6-12-12M	20035	6.6	12.4	11.3*		103	
6-12-12M	20099	6.5	12.1	12.4		104	
6-12-12M	20143	6.0	12.1	13.7		104	
6-12-12M	20153	7.2	12.0	13.7		110	
6-12-12M	20243	6.0	12.3	11.9		101	
6-12-12M	20287	6.3	13.0	11.4*		104	
6-12-12M	20475	5.9	11.9	14.4		103	
6-12-12M	20511	6.5	11.7	15.6		108	
6-12-12M	20585	6.6	12.3	13.1		106	
6-12-12M	20761	6.1	12.7	13.3		105	
6-12-12M	20793	6.4	12.4	12.9		105	
6-12-12M	20846	6.9	14.0	10.8*		110	
6-12-12M	20861	5.3*	13.2	10.7*		98	
6-12-12M	20929	6.5	13.3	13.4		110	
6-12-12M	20937	6.0	11.9	13.8		103	
6-12-12M	21069	6.1	12.6	11.5*		102	
6-12-12M	21218	5.9	13.1	12.8		105	
6-12-12M	21249	6.3	12.4	12.3		104	
6-12-12M	21303	7.0	12.0	12.1		106	
6-12-12M	21547	6.1	12.1	13.7		104	
6-12-12M	21627	6.6	12.8	12.7		107	
6-12-12M	22137	7.5	11.8	12.5		109	
6-12-12M	22174	7.7	11.9	13.3		111	
6-12-12M	22194	7.8	11.5*	13.3		111	
6-12-12M	22237	7.4	11.9	13.0		109	
6-12-12M	22310	6.9	12.8	11.4*		107	
6-12-12M	22361	7.2	11.6*	13.5		108	
6-12-12M	22490	7.0	13.8	13.4		114	
6-12-12M	22501	6.7	12.7	12.9		108	
6-12-12M	22600	6.9	11.5*	11.9		103	
6-12-12M	22841	6.0	12.1	12.1		101	
6-12-12M	22846	6.6	11.8	13.6		106	
6-18-12M	21066	5.9	17.9	11.0*		98	
6-18-12M	21169	6.0	16.7*	13.6		98	
6-24-24M	20514	6.9	21.9*	23.3*		98	
6-24-24M	20844	5.8	22.7*	27.5		100	
9-10-15S	20108	8.5*	10.1	16.6	*	101	
9-10-15S	20264	9.2	10.6	14.8	*	103	
9-10-15S	20474	8.4*	10.5	16.3	*	101	
9-10-15S	20513	8.6*	11.1	15.8		103	
9-10-15S	21250	9.1	10.9	15.7	*	104	
9-10-15S	21305	9.1	10.8	15.1	*	103	



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
 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	POT	XS CL	RV	
9-10-15S	21312	8.7*	10.5	15.7		101	
9-10-15S	21680	8.6*	10.4	16.7	*	102	
9-10-15S	22375	9.3	10.5	16.4		106	
9-10-15S	22642	9.2	10.3	15.9	*	103	
9-10-15S	22644	9.2	10.5	16.1		105	
9-10-15S	22840	8.6*	10.3	16.4		101	
10-10-10M	19804	10.1	10.5	11.0		104	
10-10-10M	19814	10.0	10.9	9.9		103	
10-10-10M	19877	10.8	10.0	9.8		104	
10-10-10M	19889	10.4	10.8	10.1		105	
10-10-10M	19910	10.3	10.3	10.8		104	
10-10-10M	20034	9.6*	9.9	11.7		100	
10-10-10M	20107	9.5*	10.8	11.4		102	
10-10-10M	20128	10.1	11.1	11.7		107	
10-10-10M	20146	9.9	10.3	10.6		102	
10-10-10M	20233	10.1	10.5	11.5		105	
10-10-10M	20245	10.0	10.9	9.9		103	
10-10-10M	20367	9.7	9.6*	12.1		101	
10-10-10M	20477	10.1	10.2	12.1		105	
10-10-10M	20494	9.7	11.3	11.4		105	
10-10-10M	20503	9.7	11.5	11.8		106	
10-10-10M	20512	10.3	10.1	12.2		105	
10-10-10M	20584	9.5*	10.7	10.6		101	
10-10-10M	20936	10.6	10.5	9.9		105	
10-10-10M	21161	10.8	11.5	10.6		110	
10-10-10M	21170	10.1	10.7	11.1		104	
10-10-10M	21251	10.8	10.2	10.1		105	
10-10-10M	21296	8.3*	12.4	9.0*		98	
10-10-10M	21683	8.9*	11.0	14.4		105	
10-10-10M	21835	10.9	10.0	10.7		106	
10-10-10M	22175	10.5	10.9	10.2		106	
10-10-10M	22374	10.6	10.7	10.8		107	
10-10-10M	22393	10.7	11.1	10.6		108	
10-10-10M	22502	10.1	10.9	10.1		104	
10-10-10M	22617	10.0	9.8	11.6		102	
10-10-10M	22640	10.1	10.3	11.5		104	
10-10-10M	22762	9.9	10.6	11.0		103	
10-10-10M	22839	9.6*	10.4	11.8		102	
10-10-15S	22603	9.9	10.2	15.6		101	
10-10-15S W/ME	20630	10.5	11.2	15.7		107	
10-10-15S W/ME	20794	10.4	11.0	15.4		105	
10-10-15S W/ME	21072	10.7	10.9	15.4		106	
10-10-15S W/ME	21574	11.5	15.6	15.3		124	
10-10-15S W/ME	21834	9.9	8.3*	17.4		98	
10-10-15S W/ME	22359	10.2	8.2*	17.0		98	
10-10-15S W/ME	22566	11.3	11.9	14.8		111	
10-10-15S W/ME	22570	10.4	10.7	15.7		105	
10-20-20M	21073	10.8	21.3	19.7		105	
12-12-12M	19973	12.5	11.8	12.0		101	
12-12-12M	20246	12.2	12.0	13.3		103	
12-12-12M	20508	11.4*	11.8	13.7		99	
12-12-12M	20797	11.6*	12.1	13.9		101	
12-12-12M	20848	12.0	12.5	13.3		103	
12-12-12M	20860	11.4*	12.5	13.1		100	
12-12-12M	21548	12.0	12.5	11.4*		101	
12-12-12M	22138	12.0	13.1	11.1*		102	
12-12-12M	22238	10.4*	12.5	14.3		98	

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968

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	POT	XS CL	RV
12-12-12M	22500	12.2	12.7	12.4		104
12-12-12M	22618	11.1*	11.9	12.3		97*
12-12-12M W/ME	20334	9.1*	14.0	12.5		94*
12-12-12M W/ME	21067	11.6*	12.0	12.1		98
12-12-12M W/ME	21253	12.1	11.1*	12.4		98
33- 0- 0	20198	34.9	0.0	0.0		104
33- 0- 0	20741	34.0	0.0	0.0		101
33- 0- 0	21940	33.9	0.0	0.0		101
FEDERAL CHEMICAL COMPANY		NASHVILLE			TENN.	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	21085	0.0	20.6	22.3		106
4-12- 8M	20893	4.1	11.8	13.7		113
5-10-15S	21850	5.8	9.7	15.1		104
5-10-15S	22272	5.7	10.4	15.3		106
5-20-20M	20097	5.4	18.8*	20.1		98
6-12-12M	19930	6.8	11.6*	13.1		105
10-10-10M	19772	9.6*	10.4	10.3		100
10-10-10M	20894	10.0	10.1	11.4		102
10-10-10M	21086	10.4	9.6*	10.6		102
10-10-10M	21851	10.8	9.8	10.5		104
10-10-10M	22553	10.7	11.0	10.2		107
12-12-12M	20096	12.3	11.9	12.1		101
18-46- 0	20286	16.2*	44.5*	0.0		94*
82- 0- 0	19706	82.0	0.0	0.0		100
82- 0- 0	21852	81.8	0.0	0.0		100
82- 0- 0	21853	82.1	0.0	0.0		100
FRANKLIN CROP SERVICE		FRANKLIN			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
8-12-15S W/ME	20582	7.1*	14.2	14.5*	*	102
10-10-13S	20583	9.4*	13.4	12.3*	*	100
14-13-13M	21799	15.8	12.4*	13.9		103
18-11-11M	21798	19.0	10.9*	13.7		102
82- 0- 0	21800	81.9	0.0	0.0		100
FRASIER SUPPLY CO.		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-50S	22075	0.0	0.0	51.6		103
0- 0-60M	22074	0.0	0.0	60.5		101
0-46- 0	22076	0.0	45.8	0.0		100
5-10-15S	21412	5.2	11.0	19.5		114
5-20-20M	19899	4.9	19.5*	20.7		99
5-20-20M	20786	4.9	19.9	21.4		101
5-20-20M	20787	4.9	19.9	22.0		102
5-20-20M	22070	5.1	20.6	20.7		103
5-20-20M W/B	21374	4.3*	20.4	20.3		99
6-12-12M	20779	6.1	11.9	14.3		104
6-12-12M	21372	6.1	12.5	13.6		106
6-12-12M	22071	4.9*	8.1*	15.3		86*
6-12-12M	22679	4.9*	9.6*	14.3		89*
6-12-12M	22871	5.1*	9.8*	11.4*		85*
6-12-18S W/ME	22417	6.9	12.8	18.1		107
10-10-10M	19900	10.4	10.2	11.1		104
10-10-10M	20068	10.0	10.8	9.8		102
10-10-10M	22416	9.0*	8.2*	13.6		95*
10-10-10M	22872	10.2	9.7	9.7		99
11-13-13M	21373	12.2	12.8	14.8		104
17-17-17M	22067	18.3	18.3	17.6		103
18-46- 0	22073	18.8	45.9	0.0		101

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968

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

FRASIER SUPPLY CO.		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
20- 5- 5M	20780	20.4	5.0	5.8		103
33- 0- 0	22072	33.7	0.0	0.0		101
FREE FLOW FERTILIZER CO		MAUMEE			OHIO	
GRADE	NUM	N	APA	POT	XS CL	RV
10- 6- 4M	21723	9.7	7.6	5.1		107
GLASGOW FERTILIZER COMPANY		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-60M W/B	21145	0.0	0.0	60.7		101
0-20-20M	22191	0.0	21.0	21.4		105
0-46- 0	22192	0.0	46.9	0.0		102
4-12- 8M	20502	4.5	11.6*	10.4		107
4-12- 8M	20935	4.7	12.0	8.6		106
5-10-15S	20055	5.7	10.5	15.2		106
5-10-15S	20501	5.4	10.2	16.7		107
5-10-15S	20934	5.3	10.1	16.7		106
5-10-15S W/ME	20940	5.4	9.9	17.0		106
5-10-15S W/ME	21370	5.5	10.7	16.1		108
5-10-15S W/ME	22078	5.7	10.0	15.9		106
5-10-15S W/ME	22696	5.9	10.5	15.5		108
5-20-20M	19895	5.6	19.4*	21.9		103
5-20-20M	20130	5.5	19.4*	20.3		101
5-20-20M	20942	5.5	18.9*	21.3		101
5-20-20M	21219	4.9	23.0	18.3*		105
5-20-20M	21521	5.1	22.8	18.2*		106
5-20-20M	22677	4.9	19.6*	20.7		99
6- 6-18S	21142	7.0	7.1	19.9		115
6-12-12M	20069	4.7*	13.8	12.1		99
6-12-12M	20378	6.8	12.3	14.5		110
6-12-12M	20736	6.6	12.3	14.9		109
6-12-12M	22079	9.4	13.8	14.7		131
6-12-12M	22080	13.2	9.8*	15.0		137
10-10-10M	19896	9.6*	10.4	12.4		103
10-10-10M	20058	10.6	10.7	10.2		106
10-10-10M	20377	9.6*	10.8	11.3		103
10-10-10M	20941	9.9	10.1	12.3		103
10-10-10M	21143	10.3	10.7	10.4		104
10-10-10M	21371	9.8	10.4	10.7		102
10-10-10M	21522	10.0	10.5	10.4		102
10-10-10M	22695	10.0	11.3	10.7		105
10-10-10M	22698	9.9	10.8	10.5		103
12-12-12M	19898	12.8	11.9	13.0		104
12-12-12M	22722	12.5	12.6	12.7		104
12-24-24M	20057	12.6	24.4	19.9*		99
12-24-24M	22697	12.0	23.7	23.4*		99
15-15-15M	22077	18.1	14.2*	16.5		110
20-10-10M	19897	19.9	10.6	11.4		103
20-10-10M	22678	20.0	10.1	10.5		101
30- 0- 0	22081	31.9	0.0	0.0		106
W.R. GRACE & CO.		NASHVILLE			TENN	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20- 0	20913	0.0	19.5*	0.0		97*
0-20- 0	21879	0.0	19.9	0.0		100
0-20-20M	20887	0.0	20.7	19.2*		101
0-20-20M	20911	0.0	19.5*	20.8		100
0-20-20M W/B	20173	0.0	19.0*	21.2		99
3-10-30M	20280	3.3	10.0	28.9*		100
3-10-30M	20885	3.6	10.0	29.0*		101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

W.R. GRACE & CO.		NASHVILLE		TENN		
GRADE	NUM	N	APA	POT	XS CL	RV
3-10-30M	22262	4.0	10.8	30.1		108
3-10-30M	22574	3.5	11.2	30.0		106
3-10-30M	22684	3.9	10.6	29.0*		105
3-10-30M	22749	2.9	9.7*	29.3*		97*
4-12- 8M	19770	5.2	11.2*	9.4		107
4-12- 8M	21256	4.8	10.7*	9.6		103
4-12- 8M	21880	4.9	10.8*	9.5		104
5-10-15S	20220	4.9	9.8	15.4		99
5-10-15S	20221	4.8	9.9	15.3		99
5-10-15S	20841	4.9	9.7	15.2		99
5-10-15S	20886	5.2	9.7	15.4		101
5-10-15S	21026	4.8	9.9	15.4		99
5-10-15S	21225	5.1	9.9	14.8		99
5-10-15S	21255	5.1	9.5*	15.4		100
5-10-15S	21354	5.3	10.1	14.8		101
5-10-15S	22083	5.0	9.7	14.9		99
5-10-15S	22657	4.8	9.6*	14.8		97*
5-10-15S	22707	5.1	9.7*	14.7		99
5-20-20M	19771	5.4	20.1	19.9		102
5-20-20M	19888	5.2	20.5	18.3*		100
5-20-20M	20101	5.5	19.4*	20.9		102
5-20-20M	20883	5.1	19.8	19.2*		99
5-20-20M	20910	5.3	19.5*	20.1		100
5-20-20M	21352	5.2	19.0*	20.1		98
5-20-20M	21963	5.9	19.9	19.7		103
5-20-20M	22086	5.5	19.7	19.6		101
5-20-20M	22261	5.8	19.9	21.9		106
5-20-20M	22659	4.6*	19.9	19.8		98
5-20-20M	22706	5.1	20.0	20.6		101
5-20-20M	22748	5.4	19.9	19.9		101
5-20-20M	22781	5.2	19.9	20.6		101
5-20-30M	22782	5.1	20.0	25.2*		95*
5-40- 5M	21878	6.0	39.4	5.3		102
6-12-12M	20282	5.2*	11.9	12.5		96*
6-12-12M	20888	6.2	12.4	12.8		104
6-12-12M	21089	6.5	15.1	15.0		120
6-12-12M	21254	5.6*	11.9	13.6		100
6-12-12M	21353	5.8	12.5	12.1		101
6-12-12M	21528	5.9	11.8	12.1		99
6-12-12M	22084	6.1	11.8	13.4		102
6-12-12M	22655	5.5*	12.4	12.7		100
6-24-24M	21531	6.3	24.2	22.3*		99
6-24-24M	21610	6.3	24.1	23.9		101
10-10-10M	19769	10.0	9.9	10.8		101
10-10-10M	19953	10.9	9.8	10.0		104
10-10-10M	20278	9.8	9.6*	11.2		100
10-10-10M	20371	9.6*	10.3	10.8		100
10-10-10M	20884	10.7	9.9	10.6		104
10-10-10M	21351	9.9	10.7	10.2		102
10-10-10M	21529	10.2	10.2	10.5		102
10-10-10M	22085	10.3	9.9	10.6		102
10-10-10M	22656	10.3	10.0	10.2		102
10-10-10M	22705	10.3	9.9	10.1		101
10-10-15S	20279	10.2	10.0	14.9	*	101
10-10-15S	21609	10.5	9.7	16.3		104
10-10-15S	22082	10.5	9.9	15.4		102
10-10-15S	22573	10.6	10.9	15.2		106

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
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
GRADE	NUM	N	APA	POT			
10-20-20M	20281	9.9	19.2*	22.0			100
15-15-15M	20219	15.1	14.6*	15.6			100
15-15-15M	21355	15.4	17.0	14.5*			105
15-15-15M	22658	15.2	16.0	14.2*			102
18-46-0	20912	18.0	45.8	0.0			100
W.R. GRACE & CO.		NEW ALBANY		IND.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-0-50S	20917	0.0	0.0	52.2			104
0-0-60M	22616	0.0	0.0	59.7			100
0-13-39M	22283	0.0	13.9	39.8			104
0-13-39M W/B	20597	0.0	13.9	43.0			109
0-20-0	20708	0.0	19.7	0.0			98
0-20-0	20726	0.0	17.9*	0.0			89*
0-20-0	20915	0.0	18.8*	0.0			94*
0-20-0	21091	0.0	12.7*	0.0			63*
0-20-0	21104	0.0	19.5*	0.0			97*
0-20-0	21535	0.0	18.6*	0.0			93*
0-20-0	21697	0.0	19.1*	0.0			95*
0-20-0	22037	0.0	19.1*	0.0			95*
0-20-0	22336	0.0	18.3*	0.0			92*
0-20-0	22453	0.0	18.2*	0.0			91*
0-20-0	22540	0.0	20.9	0.0			104
0-20-0	22627	0.0	17.7*	0.0			88*
0-25-25M	20527	0.0	28.9	21.5*			106
0-25-25M	22284	0.0	25.9	25.7			103
0-25-25M	22335	0.0	26.8	23.0*			102
0-25-25M	22626	0.0	26.5	23.8*			102
0-46-0	22544	0.0	46.1	0.0			100
3-10-30M	19941	3.9	9.8	28.9*			102
3-10-30M	22537	3.8	10.2	29.9			104
4-12-8M	19923	4.4	12.1	10.7			110
4-12-8M	19987	4.5	12.3	9.6			108
4-12-8M	20466	4.9	12.4	8.6			109
4-12-8M	20707	5.0	12.3	9.4			111
4-12-8M	21090	4.9	12.1	9.4			110
4-12-8M	21461	4.6	12.4	8.8			107
4-12-8M	21695	4.7	12.7	7.8			107
4-12-8M	22130	5.0	12.8	8.2			111
4-12-8M	22543	4.9	13.0	8.7			112
4-12-8M	22628	6.0	12.3	9.2			117
4-12-8M	22845	5.0	12.2	9.3			111
5-10-15S	20135	5.1	9.9	16.1			102
5-10-15S	20154	5.3	9.3*	16.9			103
5-10-15S	20163	5.0	9.4*	17.2			102
5-10-15S	20199	4.9	11.3	16.6	*		108
5-10-15S	20206	5.1	10.5	15.2			103
5-10-15S	20238	5.0	10.3	15.1			101
5-10-15S	20468	5.5	9.4*	17.0			105
5-10-15S	20638	5.6	11.7	15.1	*		110
5-10-15S	20701	5.6	10.5	15.4			107
5-10-15S	20839	5.7	10.4	15.3			107
5-10-15S	20879	5.2	10.3	15.1			102
5-10-15S	21103	5.1	11.1	16.1			108
5-10-15S	21301	5.1	10.0	15.7			102
5-10-15S	21460	5.3	10.5	14.4*			103
5-10-15S	21475	5.1	11.1	14.6*			104
5-10-15S	21516	5.4	10.3	15.2			104

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968

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

W.R. GRACE & CO. GRADE	NUM	NEW ALBANY		IND.	XS CL	RV
		N	APA	PNT		
5-10-15S	21533	5.3	11.1	14.2*		105
5-10-15S	21696	5.3	10.2	14.8		102
5-10-15S	21745	5.7	9.9	15.5		104
5-10-15S	22246	5.7	11.1	14.9		109
5-10-15S	22281	5.6	10.3	15.3		106
5-10-15S	22357	5.6	11.2	15.4		109
5-10-15S	22455	5.1	10.4	14.4*		101
5-10-15S	22625	5.2	10.1	14.7	*	101
5-20-20M	19830	5.0	20.0	20.7		101
5-20-20M	19908	5.2	19.6	20.1		100
5-20-20M	19934	5.3	20.3	19.6		102
5-20-20M	20150	5.6	20.9	20.6		105
5-20-20M	20409	5.4	20.1	20.2		102
5-20-20M	20522	4.4*	21.1	20.2		101
5-20-20M	20596	5.6	21.2	19.8		105
5-20-20M	20703	5.6	20.1	19.7		102
5-20-20M	20725	5.9	20.1	20.5		104
5-20-20M	20876	5.5	20.9	18.6*		102
5-20-20M	20891	5.4	19.7	20.5		102
5-20-20M	21459	5.5	19.6	19.9		101
5-20-20M	21518	5.1	21.1	19.9		103
5-20-20M	21532	5.2	20.6	19.4*		102
5-20-20M	21648	5.4	20.5	19.9		103
5-20-20M	21748	6.0	20.4	18.6*		103
5-20-20M	21866	5.4	21.1	20.4		105
5-20-20M	21994	5.9	19.4*	21.7		104
5-20-20M	22538	5.0	21.1	20.5		104
5-20-20M	22629	6.0	18.5*	18.6*		98
5-20-20M	22702	5.2	20.3	19.8		101
6- 6-18S	20706	6.6	6.9	18.9		109
6- 6-18S	21477	5.9	7.3	18.4		106
6- 6-18S	21747	7.0	7.5	18.4		113
6-12-12M	19832	6.7	13.8	13.3		113
6-12-12M	19869	6.0	12.8	13.1		105
6-12-12M	19940	6.2	12.3	12.2		102
6-12-12M	19986	6.2	12.7	10.7*		101
6-12-12M	20704	6.9	13.1	12.7		110
6-12-12M	20723	6.2	12.6	11.2*		102
6-12-12M	20878	6.7	12.4	13.0		107
6-12-12M	20914	7.9	12.0	11.4*		109
6-12-12M	21517	5.5*	12.6	11.7		99
6-12-12M	21536	6.5	12.8	12.1		106
6-12-12M	21649	6.5	12.3	12.5		105
6-12-12M	21694	6.6	13.1	12.4		108
6-12-12M	21868	6.5	12.4	12.9		106
6-12-12M	21995	6.4	12.6	11.9		104
6-12-12M	22129	6.1	12.5	11.0*		100
6-12-12M	22326	6.9	12.8	11.8		108
6-12-12M	22327	6.5	13.1	13.4		109
6-12-12M	22452	6.6	13.1	12.8		109
6-12-12M	22821	6.1	12.5	12.1		102
6-12-18S	20207	6.1	12.1	17.6		100
6-12-18S	20525	6.0	12.3	18.7		102
6-12-18S	20702	6.0	12.6	18.6		103
6-12-18S	21817	6.1	12.1	18.3		102
6-12-18S	22282	6.6	12.5	18.3		105
6-12-18S	22334	6.4	12.8	17.7	*	104

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968

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

W.R. GRACE & CO.		NEW ALBANY		IND.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-18-12M	19936	7.4	19.7	13.6			114
6-24-24M	20523	5.9	24.5	23.4*			100
6-24-24M	20524	6.3	24.3	23.8			101
6-24-24M	22539	5.5*	25.3	24.5			102
6-38- 6M	21446	6.4	36.7*	7.0			117
6-38- 6M W/ME	20283	6.4	35.3*	7.9			98
6-38- 6M W/ME	20581	6.3	37.6	7.2			101
6-38- 6M W/ME	21350	6.1	36.6*	7.5			99
6-38- 6M W/ME	21425	5.9	36.5*	7.6			98
7-28-14M	22333	7.9	27.5	14.6			103
10-10-10M	19831	10.0	10.3	11.0			103
10-10-10M	19935	10.2	11.6	12.0			109
10-10-10M	19988	9.9	10.8	11.6			105
10-10-10M	20136	8.3*	11.2	11.7			99
10-10-10M	20155	9.8	10.8	10.7			103
10-10-10M	20164	10.0	10.8	11.4			105
10-10-10M	20467	10.0	11.2	11.2			106
10-10-10M	20521	9.8	11.5	11.1			106
10-10-10M	20639	10.3	11.5	11.1			108
10-10-10M	20705	10.1	11.5	11.3			108
10-10-10M	20722	10.3	10.5	10.1			103
10-10-10M	20838	10.5	10.8	10.6			106
10-10-10M	20864	10.1	10.5	10.0			102
10-10-10M	20877	10.1	11.2	11.7			107
10-10-10M	20916	10.1	10.3	10.1			102
10-10-10M	21447	10.3	10.3	9.7			102
10-10-10M	21462	9.9	10.2	10.1			100
10-10-10M	21476	9.8	10.5	10.7			102
10-10-10M	21534	9.9	10.5	10.2			102
10-10-10M	21539	9.9	10.1	10.5			100
10-10-10M	21698	10.3	10.4	9.9			103
10-10-10M	22848	9.5*	11.9	11.5			106
12-12-12M	20526	12.2	12.0	12.4			102
12-12-12M	20700	11.5*	12.1	11.9			98
12-12-12M	20724	12.0	12.3	12.4			101
12-12-12M	21102	11.3*	14.0	13.1			104
12-12-12M	21749	11.5*	12.0	12.4			98
12-12-12M	22131	11.7	12.6	13.0			102
12-12-12M	22454	11.7	12.8	12.8			102
28- 0- 0	20528	29.3	0.0	0.0			104
W.R. GRACE & CO., NIT. DIV.		MEMPHIS		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
33- 0- 0	20840	35.0	0.0	0.0			104
33- 0- 0	20865	34.6	0.0	0.0			103
33- 0- 0	21608	34.3	0.0	0.0			102
82- 0- 0	19689	82.0	0.0	0.0			100
82- 0- 0	19696	82.0	0.0	0.0			100
82- 0- 0	19702	82.0	0.0	0.0			100
82- 0- 0	19703	82.0	0.0	0.0			100
82- 0- 0	19708	82.0	0.0	0.0			100
82- 0- 0	19712	82.0	0.0	0.0			100
82- 0- 0	19717	82.0	0.0	0.0			100
82- 0- 0	19719	82.0	0.0	0.0			100
82- 0- 0	19720	82.0	0.0	0.0			100
82- 0- 0	19728	82.0	0.0	0.0			100
82- 0- 0	19730	82.0	0.0	0.0			100
82- 0- 0	19732	81.8	0.0	0.0			100

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
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
GRADE	NUM	N	APA	POT			
82- 0- 0	19734	81.9	0.0	0.0			100
82- 0- 0	19735	81.7	0.0	0.0			100
82- 0- 0	19834	81.9	0.0	0.0			100
82- 0- 0	21420	81.8	0.0	0.0			100
82- 0- 0	21421	81.9	0.0	0.0			100
82- 0- 0	21426	81.9	0.0	0.0			100
82- 0- 0	21427	82.0	0.0	0.0			100
82- 0- 0	21606	82.0	0.0	0.0			100
82- 0- 0	21842	82.1	0.0	0.0			100
82- 0- 0	21856	82.1	0.0	0.0			100
82- 0- 0	21957	82.1	0.0	0.0			100
82- 0- 0	21984	82.1	0.0	0.0			100
82- 0- 0	22106	81.8	0.0	0.0			100
82- 0- 0	22111	81.9	0.0	0.0			100
82- 0- 0	22554	82.0	0.0	0.0			100
82- 0- 0	22572	82.0	0.0	0.0			100
82- 0- 0	22787	82.1	0.0	0.0			100
82- 0- 0	22885	82.0	0.0	0.0			100
82- 0- 0	22893	82.0	0.0	0.0			100
82- 0- 0	22899	82.0	0.0	0.0			100
W.R. GRACE & CO., AGRI PROD DI		BOWLING GREENKY.				XS CL	RV
GRADE	NUM	N	APA	POT			
5-15-15M	22437	6.5	15.4	18.3			114
6-18-12M	20183	6.1	18.5	11.7*			102
6-18-18M	22438	6.9	18.0	18.7			105
7-28-28M W/ME	22430	7.5	28.1	28.9			102
15-10-10M	20181	15.4	10.0	9.1*			100
15-10-10M	21365	15.0	10.3	12.4			104
16-12- 6M	19749	5.3*	12.6	6.3			61*
16-12- 6M	20182	16.1	12.8	7.1			104
18- 9- 9M	19750	18.1	9.1	9.6			101
82- 0- 0	21809	82.0	0.0	0.0			100
W.R. GRACE & CO., AGRI PROD DI		CADIZ		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-15-20M	22564	6.2	15.9	18.8*			107
5-15-20M	22592	5.0	13.8*	23.2			101
5-15-25M	21607	5.7	14.9	25.3			103
5-15-25M	22565	6.0	15.8	18.6*			97*
12-12-12M	20073	12.5	11.8	10.9*			100
12-12-12M	20074	13.0	13.1	11.9			107
W.R. GRACE & CO., AGRI PROD DI		GUTHRIE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
9-10-15S	22803	9.5	9.8	13.5*			100
W.R. GRACE & CO., AGRI PROD DI		HOPKINSVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
4-12-20M	22789	4.1	11.7	21.8			102
5-10-15S	19791	5.1	9.5*	15.2		*	99
5-15-25M	19790	5.3	13.7*	23.7*			96*
5-15-25M	19961	6.2	15.0	24.9			105
5-15-25M	22788	5.2	15.9	25.5			104
5-15-25M	22815	5.4	14.2*	25.6			100
5-20-20M	19793	5.5	20.1	20.1			102
6-12-12M	19792	6.2	11.2*	12.2			99
8-34-13M	19787	8.0	33.9	14.1			101
9-10-15S	22270	9.9	10.2	18.2		*	110
9-10-15S	22555	9.3	9.7	13.8*			99
9-10-15S	22593	9.4	9.8	15.7			102



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W.R. GRACE & CO., AGRI PROD DI		HOPKINSVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
9-10-15S	22814	8.9	10.7	13.7*			99
9-27- 0	19788	9.3	26.5	0.0			100
9-27- 0	19962	9.3	27.1	0.0			101
30- 0- 0	19789	26.9*	0.0	0.0			89*
30- 0- 0	19960	30.2	0.0	0.0			101
W. R. GRACE & CO AGRI PROD DIV		HICKORY KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
7-28-28M W/ME	22662	6.9	29.3	27.7			102
9-36-18M W/ME	22663	8.6*	35.5	19.4			99
GRAVES COUNTY SOIL IMP. ASSN.		MAYFIELD KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
16-11-15M	22266	18.9	10.4*	14.9			105
GREEN BELT CHEMICAL CO.		SPRINGFIELD OHIO			XS	CL	RV
GRADE	NUM	N	APA	POT			
10- 6- 4M	21732	8.1*	5.6*	5.7			90*
GREEN VALLEY FARM SUPPLY		ISLAND KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
5-20-20M	21869	3.0*	13.5*	25.6			82*
5-20-20M	21872	5.3	22.5	31.4			123
5-20-20M	22708	7.2	28.0	13.0*			121
5-40- 5M	21870	6.0	40.1	6.0			104
5-40- 5M	21871	6.0	41.5	6.8			108
6-26-26M	22710	7.6	30.0	21.0*			108
10-10-10M	22709	15.3	16.0	5.7*			139
82- 0- 0	21874	82.1	0.0	0.0			100
GRO-GREEN CHEMICAL CO., INC.		SHELBYVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0- 0-50S	21338	0.0	0.0	49.1*			98
0-17-35M W/B	21917	0.0	16.8*	37.7			101
0-20-20M	21914	0.0	8.2*	39.6			93*
0-46- 0	21335	0.0	47.2	0.0			103
4- 7- 8S	22589	6.5	10.4	7.1*			130
5- 8- 6S	22590	6.3	9.7	7.1			118
5-10-10M	20342	3.9*	9.3*	12.1			94*
5-10-15S	20694	6.0	11.0	12.6*	*		105
5-10-15S	21147	9.5	9.9	10.7*	*		118
5-10-15S	21334	6.0	11.6	14.0*			110
5-17-26M	21337	6.1	15.6*	28.9			99
5-20-20M	20695	6.2	17.4*	21.1			99
5-20-20M	21146	5.8	16.9*	20.8			96*
5-20-20M	21688	6.5	16.5*	16.0*			91*
5-20-20M	22304	8.3	21.8	19.5*			117
8-10-15S	20343	6.9*	12.1	11.4*			96*
8-10-15S	20693	8.6	9.5*	14.0*			99
8-10-15S	21264	8.7	10.3	13.1*			101
8-10-15S	21687	8.7	11.1	12.4*			103
8-10-15S	21772	8.9	9.4*	14.0*			101
8-10-15S	21885	8.5	10.2	14.3*			102
8-10-15S	21918	8.4	11.1	13.4*			103
8-10-15S	21928	8.8	10.0	14.0*			102
8-11-15S	21409	9.0	13.0	13.7*			105
8-12-15S	21265	10.3	21.2	9.2*			131
8-12-15S	21693	8.7	13.6	14.0*	*		107
8-12-15S	21884	8.2	11.0*	14.2*			97*
8-12-15S	22445	6.2*	7.5*	19.3			84*
8-12-15S W/ME	21336	9.0	15.3	12.0*			110
8-12-15S W/ME	21771	8.5	11.8	15.4			102

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

GRO-GREEN CHEMICAL CO., INC.		SHELBYVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
8-12-15S W/ME	22740	8.9	15.7	12.0*			111
8-14-14S W/ME	22413	8.6	17.6	11.4*			107
8-24-10M W/ME	22301	8.9	25.2	9.8			106
8-24-10S W/ME	21333	8.6	24.9	9.0*			103
9-13-12S	22027	9.9	14.7	11.0*			103
9-13-12S	22028	9.1*	12.6*	13.5			95*
9-13-12S	22031	11.0	17.9	9.0*			114
10-10-10M	20363	9.9	11.0	10.4			103
10-10-10M	21266	9.7*	10.9	12.1			105
10-10-10M	21915	9.4*	14.0	9.3*			109
10-10-10M	22300	9.8	8.7*	8.5*			92*
10-10-10M	22741	11.0	9.5*	8.9*			102
10-10-13S	21886	9.7*	8.1*	16.0			92*
11-11-11M	22032	13.3	13.1	11.3*			108
GRO-GREEN SALES CO., LEBANON		SHELBYVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
5- 4- 6S	22303	6.9	5.5	6.9			121
6-23-21M	21773	8.4	20.6*	24.0			105
7-13-16M	21816	7.0*	13.4	17.2			97*
8-12-15S	21776	8.2	11.3*	15.7			100
14-14-14M	21774	14.9	12.5*	18.4			100
16- 6-10S	22302	16.4	7.6	9.5*			101
18- 9-24M	21775	15.2*	13.8	22.8*			99
GRO GREEN PAYNES		MIDWAY KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	21405	0.0	16.6*	22.5			93*
11- 3-25S W/ME	21404	9.7*	2.9*	28.0			93*
25- 0-26M	21406	23.2*	0.0	31.5			99
GULF OIL CO AGRI CHEM DIV		BOWLING GREEN KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	22861	0.0	19.4*	22.7			103
3-11- 7M	19901	4.1	11.6	9.2			106
5-10-15S	22019	5.8	8.3*	17.6	*		103
5-10-15S	22020	5.1	9.9	15.8	*		101
5-20-20M	20050	5.2	20.7	21.6			105
7- 9-13S	22424	8.8	8.2*	15.2			107
7-10- 7M	21786	8.4	10.0*	10.2			108
10-10-10M	22021	8.4*	9.5*	14.8			98
12-15-15M	21793	12.3	14.8	17.2			103
82- 0- 0	21785	81.9	0.0	0.0			100
82- 0- 0	21794	81.8	0.0	0.0			100
GULF OIL CORP., AGRI CHEM DIV		CECILIA KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-20- 0	22159	0.0	20.6	0.0			103
0-20- 0	22864	0.0	18.2*	0.0			91*
4-12- 8M	19798	4.9	11.5*	8.1			104
4-12- 8M	19948	4.7	12.9	8.4			110
4-12- 8M	20594	5.1	12.1	8.9			110
4-12- 8M	21093	4.7	13.8	7.8			112
4-12- 8M	21767	5.6	11.8	10.3			115
5-10-15S	20369	5.6	9.6*	16.9			106
5-10-15S	21540	5.0	9.7	16.6			102
5-10-15S	21762	5.8	10.0	15.9			107
5-10-15S	21929	5.9	10.2	16.4			109
5-10-15S	22546	5.8	10.0	17.0			109
5-10-15S	22672	5.6	9.4*	16.9			105
5-20-20M	19945	6.1	19.5*	19.3*			102

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

GULF OIL CORP., AGRI CHEM DIV			CECILIA		KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	20591	5.1	21.7	19.5*		104
5-20-20M	21764	5.0	19.6	20.4		99
5-20-20M	22674	5.2	19.7	21.6		102
6-12-12M	19799	6.9	12.4	11.3*		105
6-12-12M	20595	6.9	12.4	11.8		106
6-12-12M	21092	6.3	12.8	13.5		107
6-24-12M	19949	6.6	24.2	12.2		103
6-24-12M	21761	6.6	24.5	11.9		103
6-24-12M	22154	6.6	24.4	11.5*		103
8-10-15S	21763	8.1	10.2	13.3*		98
8-10-15S	22155	8.2	10.3	14.0*		100
10-10-10M	19947	9.5*	10.4	11.6		101
10-10-10M	20592	10.1	11.7	10.6		107
10-10-10M	21765	10.8	10.3	10.2		105
10-10-10M	22418	10.6	10.9	11.4		108
10-10-10M	22545	10.0	11.0	11.0		105
12-12-12M	19946	12.6	11.7	12.2		102
12-12-12M	20593	12.0	13.1	11.0*		102
12-12-12M	21766	12.2	13.1	12.1		104
GULF OIL CORP., AGRI CHEM DIV			CLARKSON		KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	20382	0.0	20.2	19.7		100
5-20-20M	22161	5.5	19.5*	21.1		102
6-12-12M	22162	6.7	12.6	12.4		107
6-17-12M	20383	7.2	19.3	12.1		110
10-10-10M	22160	10.3	10.4	11.0		104
GULF OIL CORP., AGRI CHEM DIV			CLAY		KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	20398	4.9	20.6	18.9*		100
12-12-12M	20399	9.1*	17.8	16.2		110
GULF OIL CO AGRI CHEM DIV			FREDONIA		KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
17-17-17M	22753	18.3	17.9	17.9		102
24- 9- 9M	22112	29.0	10.4	9.9		114
GULF OIL CORP., AGRI CHEM DIV			HARTFORD		KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
6- 8-13S	22541	8.3	8.9	14.2		112
8- 8-13S	22542	8.4	8.8	13.9		102
82- 0- 0	21863	82.2	0.0	0.0		100
82- 0- 0	21883	82.0	0.0	0.0		100
GULF OIL CORP., AGRI CHEM DIV			HENDERSON		KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
4-10-15M W/ME	20872	5.0	11.7	17.0		118
4-10-15M W/ME	22711	4.5	9.7	16.0		104
5-10-15S	21877	5.7	11.6	16.9	*	114
5-20-20M	19942	6.1	20.1	20.7		106
5-20-20M	19952	6.0	18.9*	22.0		104
5-20-20M	20873	5.3	18.3*	21.4		99
5-20-20M	21843	5.9	20.4	19.9		105
5-20-20M	21865	5.4	19.7	20.6		102
5-20-20M	22097	5.4	19.4*	21.4		102
5-20-20M	22204	5.4	19.1*	21.3		101
5-20-20M	22712	5.5	18.8*	20.9		100
5-20-30M	21864	4.8	18.9*	30.6		98
5-20-30M	22205	5.4	21.1	30.1		104
5-20-30M	22206	5.3	19.9	30.8		102
5-20-30M	22209	5.4	20.6	30.1		103

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968

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

GULF OIL CORP., AGRI CHEM DIV		HENDERSON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-24-24M	20874	6.0	22.9*	25.1			99
6-24-24M	22208	6.1	24.1	24.7			101
7-28-14M	19950	7.7	25.3*	15.4			98
10-10-10M	20338	9.5*	10.1	11.1			99
10-10-10M	21876	9.9	9.0*	11.8			99
10-10-10M	22207	10.2	10.3	10.4			102
12-12-12M	19951	10.0*	18.2	14.3			112
12-12-12M	20339	8.9*	18.3	15.9			110
28- 0- 0	20427	29.3	0.0	0.0			105
30- 0- 0	19680	30.2	0.0	0.0			101
30- 0- 0	20580	31.5	0.0	0.0			105
33- 0- 0	20563	35.5	0.0	0.0			106
82- 0- 0	21875	81.9	0.0	0.0			100
GULF OIL CORP AGRI CHEM DIV		IRVINGTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	22152	5.3	11.2	14.0*			105
5-20-20M	21110	5.1	19.1*	21.2			99
5-20-20M	22153	5.1	18.2*	22.3			99
15-15-15M	21111	15.5	17.8	14.2*			107
15-15-15M	22151	14.0*	12.1*	19.5			95*
18-46- 0	21109	17.9	46.7	0.0			101
GULF OIL CORP., AGRI CHEM DIV		HENDERSON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
30- 0- 0	21989	31.1	0.0	0.0			103
30- 0- 0	22211	31.2	0.0	0.0			104
82- 0- 0	19686	82.0	0.0	0.0			100
82- 0- 0	19688	82.0	0.0	0.0			100
82- 0- 0	19690	82.0	0.0	0.0			100
82- 0- 0	19695	82.0	0.0	0.0			100
82- 0- 0	19698	82.0	0.0	0.0			100
82- 0- 0	19704	82.0	0.0	0.0			100
82- 0- 0	19705	82.0	0.0	0.0			100
82- 0- 0	19710	82.0	0.0	0.0			100
82- 0- 0	19713	82.0	0.0	0.0			100
82- 0- 0	19746	82.0	0.0	0.0			100
82- 0- 0	21605	82.0	0.0	0.0			100
82- 0- 0	21841	82.1	0.0	0.0			100
82- 0- 0	21845	82.1	0.0	0.0			100
82- 0- 0	21947	82.1	0.0	0.0			100
82- 0- 0	21974	82.1	0.0	0.0			100
82- 0- 0	21975	82.1	0.0	0.0			100
82- 0- 0	21979	82.1	0.0	0.0			100
82- 0- 0	21988	82.1	0.0	0.0			100
82- 0- 0	22113	82.1	0.0	0.0			100
82- 0- 0	22886	82.1	0.0	0.0			100
82- 0- 0	22887	82.0	0.0	0.0			100
82- 0- 0	22890	82.0	0.0	0.0			100
82- 0- 0	22891	82.1	0.0	0.0			100
82- 0- 0	22897	82.1	0.0	0.0			100
82- 0- 0	22898	82.0	0.0	0.0			100
GULF OIL CORP AGRI CHEM DIV		HORSE CAVE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20- 0	22865	0.0	20.1	0.0			100
5-20-20M	21376	5.1	20.1	22.6			104
5-20-20M	21377	5.3	18.6*	22.0			100
6-12-12M	21375	4.7*	8.9*	13.5			84*
6-16- 0	21813	9.1	15.4*	0.0			112

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GULF OIL CORP AGRI CHEM DIV		HORSE CAVE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
8- 7-13S	21783	5.1*	4.4*	15.0			73*
9- 8-11S	21781	8.2*	7.6*	12.4			93*
9-11-13S	20965	9.5	12.0	15.8			103
10- 6-12S	21782	9.5*	6.4	13.4			95*
11- 7-11S	21812	10.6*	6.9*	11.7			94*
12-17-15M	21814	14.3	15.3*	17.0			104
13- 7-10S	21784	13.9	7.9	13.3			110
GULF OIL CORP., AGRI CHEM DIV		KANSAS CITY		MO.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-20-20M	21123	4.9	19.7	21.8			101
5-20-30M	21126	4.9	19.7	30.8			100
6-24-24M	21237	5.9	23.4*	25.1			100
6-24-24M	21930	5.9	23.8	25.2			101
10-10-10M	20333	10.1	10.3	11.1			103
10-10-10M	22673	9.9	9.9	11.1			101
15-15-15M	21236	14.9	15.9	15.7			102
18-46- 0	22811	18.3	46.0	0.0			101
33- 0- 0	20081	33.9	0.0	0.0			101
33- 0- 0	20328	34.4	0.0	0.0			103
33- 0- 0	21034	34.9	0.0	0.0			104
33- 0- 0	21074	34.8	0.0	0.0			104
33- 0- 0	21144	35.7	0.0	0.0			107
GULF OIL CORP., AGRI CHEM DIV		MADISONVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-23-30M	21844	0.0	22.8	31.3			101
5-20-20M	22747	4.9	19.2*	19.3*			96*
16-11-15M	22746	15.9*	10.8*	18.3			99
GULF OIL CORP., AGRI CHEM DIV		MORGANFIELD		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-30-20M	21956	0.0	17.4*	38.1			90*
5- 5-10M	20406	4.6*	5.7	9.4*			98
6-18- 6M	22784	6.0	17.7	6.4			100
6-24-24M	20404	6.2	23.1*	25.1			100
6-24-24M	21953	6.4	23.4*	25.4			101
10- 7- 7M	19887	11.5	7.0	5.6*			106
12- 4- 6M	22785	12.6	4.3	6.1			102
12- 5- 5M	21954	13.0	5.3	4.9			104
15-15-15M	20405	14.6	15.9	15.7			102
30- 0- 0	21955	31.1	0.0	0.0			103
82- 0- 0	21960	82.1	0.0	0.0			100
GULF OIL CORP AGRI CHEM DIV		HODGENVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
16-15-10M	22773	16.8	14.5*	12.5			101
20- 9-12M	22768	17.8*	9.5	16.8			98
GULF OIL CORP., AGRI CHEM DIV		OWENSBORO		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
4-12- 8M	22769	4.8	12.6	10.2			113
5-10-15S	22524	5.7	10.5	14.8			106
5-20-20M	22525	5.8	18.9*	20.2			101
5-20-20M	22771	5.3	20.0	21.7			103
6-24-24M	22523	6.3	24.6	24.1			103
13- 7-10S	22526	13.7	7.7	11.2			105
82- 0- 0	21457	82.0	0.0	0.0			100
GULF OIL CORP., AGRI CHEM DIV		SIKESTON		MO.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	22772	5.1	9.9	14.9			100
10-10-10M	22770	9.9	9.9	10.0			99

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GULF OIL CORP AGRI CHEM DIV			RUSSELLVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT				
0-20-20M	22002	0.0	19.7	21.6			102	
0-20-20M	22003	0.0	19.8	23.3			105	
8-10-15S	21999	8.2	10.4	16.3			105	
8-10-15S	22427	8.0	8.7*	16.8			98	
11- 9- 9M	21998	12.5	9.4	9.5			104	
16-10-10M	22804	16.8	10.2	11.6			103	
30- 0- 0	22000	31.3	0.0	0.0			104	
82- 0- 0	22004	81.9	0.0	0.0			100	
GULF OIL CORP., AGRI CHEM DIV			STURGIS KY.			XS	CL	RV
GRADE	NUM	N	APA	POT				
0-23-30M	21971	0.0	25.0	28.0*			103	
0-27-24M	21970	0.0	23.5*	29.8			97*	
6-24-24M	21171	5.9	23.6	25.1			100	
30- 0- 0	21972	29.9	0.0	0.0			99	
30- 0- 0	21973	31.3	0.0	0.0			104	
GULF OIL CORP., AGRI CHEM DIV			UNION CITY TENN			XS	CL	RV
GRADE	NUM	N	APA	POT				
6-24-24M	21429	5.9	22.1*	26.5			98	
33- 0- 0	20558	34.7	0.0	0.0			104	
HERCULES POWDER COMPANY			WILMINGTON DEL.			XS	CL	RV
GRADE	NUM	N	APA	POT				
33- 0- 0	20429	34.2	0.0	0.0			102	
HERITAGE HOUSE PRODUCTS, INC.			CLEVELAND OHIO			XS	CL	RV
GRADE	NUM	N	APA	POT				
21- 6-11M W/ME	21708	21.1	6.5	10.5*			101	
HILLENMEYER NURSERIES			LEXINGTON KY.			XS	CL	RV
GRADE	NUM	N	APA	POT				
10- 6- 4M	21709	11.0	7.0	5.5			114	
HOPKINS COUNTY FARM SERVICE			MADISONVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT				
0-15-40M	21941	0.0	15.7	39.6			101	
HOWE-HILLIARD GRAIN CO.			MAYFIELD KY.			XS	CL	RV
GRADE	NUM	N	APA	POT				
0-23-30M	22267	0.0	21.9*	33.2			101	
HUTSON CHEMICAL COMPANY			MURRAY KY.			XS	CL	RV
GRADE	NUM	N	APA	POT				
0- 0-60M	19779	0.0	0.0	59.9			100	
4-24-18S	21135	4.4	24.3	18.9	*		103	
5-20-20M	21134	5.3	21.1	19.9			104	
6-24-24M	22115	6.6	24.0	25.4			103	
12-12-12M	19858	14.5	14.0	11.0*			115	
12-18-18S	21136	11.6*	20.9	16.3*	*		103	
12-18-18S	22258	9.7*	19.0	18.8			96*	
15-15-15M	19859	15.8	14.3*	16.9			103	
16-17-17M/S	22667	16.6	17.4	17.1	*		103	
HYDROPONIC CHEMICAL CO., INC.			COPLEY OHIO			XS	CL	RV
GRADE	NUM	N	APA	POT				
7- 6-19M	20478	7.3	7.2	20.7			110	
7- 6-19M	20651	8.0	7.3	20.5			114	
INTERNATIONAL MIN & CHEM CORP			TORONTO CAN.			XS	CL	RV
GRADE	NUM	N	APA	POT				
0- 0-60M	20345	0.0	0.0	60.1			100	
INTERNATIONAL MIN & CHEM CORP			CINCINNATI OHIO			XS	CL	RV
GRADE	NUM	N	APA	POT				
0-20-20M	19844	0.0	19.4*	19.3*			97*	
0-20-20M	22606	0.0	21.6	19.5*			104	
0- 0-25M W/B	20612	0.0	25.5	23.9			100	

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INTERNATIONAL MIN & CHEM CORP	CINCINNATI	OHIO				
GRADE	NUM	N	APA	POT	XS CL	RV
0-25-25M	20017	0.0	24.7	24.3*		98
0-46- 0	22324	0.0	42.8*	0.0		93*
3-12-12M	22607	3.8	10.8*	11.9		99
4-12- 8M	19841	4.7	12.8	7.6*		107
4-12- 8M	19871	4.6	12.6	12.4		116
4-12- 8M	21565	4.3	13.0	9.3		109
4-12- 8M	22227	5.2	13.0	7.6*		112
4-12- 8M	22325	4.3	11.9	9.2		104
4-16- 4M	20016	3.5*	13.6*	7.4		94*
4-16- 4S	20609	4.5	15.0*	6.0		103
5-10-15S	19872	4.9	10.1	14.9		99
5-10-15S	20186	5.0	10.0	16.1		102
5-10-15S	20547	4.9	11.3	16.9		108
5-10-15S	20613	4.9	9.9	15.7		100
5-10-15S	20629	5.4	10.1	14.9		103
5-10-15S	20675	5.2	10.1	15.2		102
5-10-15S	20679	4.9	10.1	15.1		100
5-10-15S	20691	5.3	10.4	15.2		104
5-10-15S	20692	5.2	10.2	14.6*		101
5-10-15S	20712	5.4	10.5	15.7		106
5-10-15S	20866	5.2	10.3	16.3		105
5-10-15S	20869	6.0	10.1	16.3		109
5-10-15S	20870	5.1	10.4	15.5		103
5-10-15S	21155	5.1	10.4	15.4		103
5-10-15S	21199	5.1	10.4	16.3		105
5-10-15S	21401	4.7	10.4	15.1		100
5-10-15S	21564	4.9	10.0	15.9		101
5-10-15S	21592	5.1	10.3	15.4		103
5-10-15S	21714	5.2	10.0	15.2		102
5-10-15S	21728	5.8	9.9	15.8		106
5-10-15S	22229	5.3	10.2	15.3		103
5-10-15S	22377	5.8	10.4	15.9		108
5-10-15S	22399	5.3	10.2	15.4		103
5-10-15S	22599	4.7	9.2*	14.5*		94*
5-10-15S	22651	5.7	10.2	15.1		105
5-10-15S	22728	5.2	9.9	15.8		102
5-20-20M	19845	5.3	20.1	20.7		102
5-20-20M	19926	5.2	19.5*	19.6		99
5-20-20M	19999	4.6*	18.5*	23.7		99
5-20-20M	20003	3.6*	19.3*	20.7		93*
5-20-20M	20550	5.8	19.3*	20.5		102
5-20-20M	20610	5.3	20.1	18.7*		100
5-20-20M	20713	5.2	18.9*	19.6		97*
5-20-20M	20842	5.5	19.0*	19.7		99
5-20-20M	21156	4.9	19.8	20.2		99
5-20-20M	21182	5.1	20.1	21.3		102
5-20-20M	21200	5.1	19.9	20.0		100
5-20-20M	21715	5.9	19.0*	19.3*		100
5-20-20M	22372	5.9	18.8*	20.7		101
5-20-20M	22403	5.7	19.3*	18.8*		99
6- 6-18S	21466	4.8*	6.2	15.5*	*	88*
6- 6-18S	22412	6.3	7.9	16.9*		107
6- 6-18S	22608	5.0*	5.9	18.4		94*
6-12-12M	19993	6.0	10.8*	12.2		96*
6-12-12M	20549	6.4	12.3	12.7		104
6-12-12M	21594	6.2	13.9	12.2		109
6-12-12M	22373	5.9	12.7	12.8		104

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968

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

INTERNATIONAL MIN & CHEM CORP		CINCINNATI		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-12M	22580	6.4	12.1	12.3			103
6-12-18S	20608	5.6*	12.0	20.0			102
6-12-18S	20867	6.1	13.2	19.4			107
6-12-18S	21158	5.6*	13.6	19.8	*		106
6-12-18S	21183	5.9	12.3	18.8			102
6-12-18S	21465	5.7	12.7	18.7			102
6-12-18S	22400	6.1	12.4	18.8			103
6-24-24M	20000	6.1	19.5*	24.3			91*
8-32-16M	19846	8.1	29.3*	16.6			95*
8-32-16M	19925	7.8	30.4*	15.0*			95*
8-32-16M	22232	7.8	29.5*	14.9*			94*
10- 6- 4M	21729	10.0	7.5	6.6			112
10-10-10M	19842	10.0	11.8	10.9			107
10-10-10M	20015	9.9	9.5*	12.2			101
10-10-10M	20548	10.5	10.7	11.7			107
10-10-10M	20611	10.0	10.2	11.8			104
10-10-10M	20674	10.3	10.5	10.1			103
10-10-10M	20676	10.0	11.1	11.2			106
10-10-10M	20868	10.7	11.1	10.4			108
10-10-10M	21157	10.9	11.5	10.2			110
10-10-10M	21566	10.3	10.7	9.9			103
10-10-10M	21593	10.0	10.7	10.2			103
10-10-10M	21716	10.2	10.4	11.0			104
10-10-10M	22230	10.6	10.7	9.6*			105
10-10-10M	22233	10.2	11.1	10.4			105
10-10-10M	22401	10.0	13.2	11.6			113
10-10-10M	22402	9.9	11.3	10.8			105
10-10-10M	22729	9.6*	9.9	10.8			99
12-12-12M	19843	11.5*	12.1	13.7			101
12-12-12M	21730	12.1	11.9	12.4			101
12-12-12M	22228	11.9	12.1	12.3			100
12-12-12M	22231	11.9	12.5	12.7			102
12-12-12M	22579	12.3	12.8	12.2			104
12-12-12M	22581	12.1	13.1	12.4			104
30- 0- 0	22299	31.4	0.0	0.0			105
INTERNATIONAL MIN & CHEM CORP		CLARKSVILLE		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	22792	0.0	20.3	22.3			105
3- 9-27M	20906	3.4	9.5	22.9*			96*
4-12- 8M	19963	5.2	11.8	9.7			111
4-12- 8M	21131	4.1	12.1	8.4			102
4-16- 4S	20908	2.9*	10.7*	7.5	*		78*
4-16- 4S	21025	2.4*	10.1*	9.8	*		77*
5-10-10M	20909	5.7	12.9	10.6			118
5-10-10M	22436	5.4	10.4	9.8			104
5-10-10M	22671	5.3	10.4	10.4			104
5-10-15S	21132	5.0	10.5	15.5			103
5-10-15S	22435	5.7	10.2	15.9			107
5-10-15S	22683	5.7	10.2	15.3			106
5-10-15S W/ME	21847	5.4	10.1	16.3			105
5-20-20M	20904	5.3	19.8	21.2			102
5-20-20M	20905	4.8	15.7*	19.4*			87*
5-20-20M	21084	4.8	20.2	20.2			100
5-20-20M	21848	5.5	19.0*	21.0			101
5-20-20M	22110	5.2	18.5*	21.3			99
5-20-20M	22260	5.5	21.0	17.8*			101
5-20-20M	22434	5.9	19.1*	18.9*			100



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

INTERNATIONAL MIN & CHEM CORP		CLARKSVILLE		TENN	XS CL	RV
GRADE	NUM	N	APA	POT		
5-20-20M	22791	4.7*	17.1*	20.8		92*
5-20-20M	22795	5.2	20.5	18.4*		100
5-20-20M W/ME	20907	5.1	17.3*	18.9*		92*
6-12-12M	20284	6.2	12.6	12.1		103
6-12-12M	20686	5.4*	10.5*	11.0*		89*
6-12-12M	21849	6.4	12.3	11.8		103
6-12-18S	22793	5.9	13.2	18.6	*	104
6-24-24M	22794	6.1	23.6	23.6		99
10-10-10M	19786	9.5*	9.9	10.6		98
10-10-10M	19964	9.5*	10.0	11.0		99
10-10-10M	20687	9.7*	11.1	11.1		104
10-10-10M	20903	9.6*	11.6	11.4		105
10-10-10M	21130	9.5*	10.5	11.1		101
10-10-10M	22433	9.3*	11.7	10.8		103
28- 0- 0	22107	30.7	0.0	0.0		110
82- 0- 0	21846	81.9	0.0	0.0		100
INTERNATIONAL MIN & CHEM CORP		FLORENCE		ALA.	XS CL	RV
GRADE	NUM	N	APA	POT		
82- 0- 0	22103	81.9	0.0	0.0		100
82- 0- 0	22109	81.9	0.0	0.0		100
INTERNATIONAL MIN & CHEM CORP		SKOKIE		ILL.	XS CL	RV
GRADE	NUM	N	APA	POT		
0- 0-50	21736	0.0	0.0	50.1		100
28- 0- 0	20285	29.0	0.0	0.0		104
33- 0- 0	21646	34.3	0.0	0.0		102
82- 0- 0	19699	82.0	0.0	0.0		100
82- 0- 0	19724	81.4	0.0	0.0		99
82- 0- 0	19725	81.4	0.0	0.0		99
82- 0- 0	19738	82.0	0.0	0.0		100
82- 0- 0	19739	82.0	0.0	0.0		100
82- 0- 0	19742	82.0	0.0	0.0		100
INTERNATIONAL MIN & CHEM CORP		SOMERSET		KY.	XS CL	RV
GRADE	NUM	N	APA	POT		
0- 0-50S	21207	0.0	0.0	50.5		101
0- 0-60M	21209	0.0	0.0	60.6		101
0-20- 0	19782	0.0	18.5*	0.0		92*
0-20-20M	21498	0.0	20.5	18.6*		99
0-20-20M	21825	0.0	17.7*	23.2		98
0-20-20M	22485	0.0	16.0*	23.6		92*
4-12- 8M	20837	6.1	14.0	10.7		130
4-12- 8M	21035	4.3	12.1	7.3*		101
4-16- 4S	20657	4.7	14.9*	5.5		103
5-10-15S	20836	5.6	10.2	14.9		104
5-10-15S	21039	5.6	10.0	16.4		106
5-10-15S	21493	4.9	10.3	15.1		100
5-10-15S	21494	5.8	10.3	14.6*	*	105
5-10-15S	21496	4.9	10.4	14.6		100
5-10-15S	21520	5.2	9.9	15.5		102
5-10-15S	21828	5.7	11.3	17.0		114
5-10-15S	22039	5.6	10.4	15.4		106
5-20-20M	19781	5.0	19.3*	20.7		99
5-20-20M	21038	6.0	20.4	19.3*		104
5-20-20M	21497	5.0	19.4*	20.0		98
5-20-20M	21824	5.6	19.7	19.9		101
5-20-20M	22484	5.2	19.5*	20.0		100
6-12-12M	20331	6.5	12.1	13.1		105
6-12-12M	20835	7.0	12.5	12.9		109

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968

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

INTERNATIONAL MIN & CHEM CORP		SOMERSET		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-12M	21491	5.6*	12.3	13.1			101
6-12-12M	21638	6.3	12.0	12.2			102
6-12-12M	22040	6.4	12.5	12.7			105
6-12-18S	20656	6.3	12.4	18.1			103
6-12-18S	22042	6.0	13.1	18.4			104
6-12-18S	22486	6.6	12.8	18.1			106
6-24-24M	22041	6.3	24.1	20.6*			97*
8-32-16M	21492	7.9	29.2*	16.8			95*
10-10-10M	20655	8.9*	13.0	13.1			110
10-10-10M	21519	9.9	10.3	10.7			101
10-10-10M	21645	10.7	10.4	10.8			106
10-10-10M	21826	10.2	10.2	11.0			103
10-10-10M	21827	10.6	10.7	10.4			106
10-10-10M	22049	10.1	10.7	11.0			104
10-10-10M	22487	10.4	10.3	10.8			105
12-12-12M	21490	11.9	12.5	12.1			101
12-12-12M	21495	11.5*	12.3	13.4			100
12-48- 0	21208	12.5	47.6	0.0			100
21- 0- 0	21206	21.4	0.0	0.0			102
KAISER AGRICULTURAL CHEMICALS		DECATUR		ILL.		XS CL	RV
GRADE	NUM	N	APA	POT			
82- 0- 0	21942	82.1	0.0	0.0			100
KENGAS DIV TENN LIQUEFIED GAS		OWENSBORO		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
4-11-11M	21458	4.1	11.0	10.9			100
4-11-11M	22220	6.0	10.2*	10.4*			108
4-11-11M	22251	5.2	12.0	10.4*			111
4-11-11M	22786	4.3	11.3	11.2			103
4-12-24M	22198	4.4	11.5*	24.3			101
4-12-24M	22199	4.5	11.8	25.6			104
4-12-24M	22504	4.5	11.6*	24.2			102
7-21-21M	22197	7.6	20.5*	20.8			101
7-21-21M	22200	7.6	20.4*	21.6			102
7-21-21M	22503	6.9	21.1	22.3			101
10-34- 0	22253	11.1	33.7	0.0			103
11-37- 0	20530	11.5	37.1	0.0			102
28- 0- 0	20529	29.6	0.0	0.0			106
28- 0- 0	22219	29.0	0.0	0.0			103
KENTUCKY FERTILIZER WORKS		WINCHESTER		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-60M	22317	0.0	0.0	60.0			100
4- 4-18S	20973	4.7	4.8	19.3			101
4-12- 8M	20855	4.2	12.3	8.8			105
4-16- 4S	20857	4.3	15.8	4.1			101
4-16- 4S	20858	4.5	16.0	3.9			103
5-10-10M	20852	5.4	10.9	10.4			108
5-10-15S	20856	5.2	10.8	15.4			105
5-10-15S	21391	4.9	10.5	15.4			103
5-10-15S	21393	5.1	10.4	15.8			104
5-10-15S	22344	5.5	11.1	14.3*			106
5-20-20M	20714	5.1	19.3*	21.6			101
5-20-20M	20766	4.9	19.7	21.3			101
5-20-20M	21388	5.1	18.8*	21.0			98
5-20-20M	21390	5.3	19.8	20.8			102
5-20-20M	22348	5.6	19.9	20.6			103
5-20-20M	22475	5.4	20.3	21.0			104
6- 6-18S	20313	6.1	6.1	18.0			101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
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KENTUCKY FERTILIZER WORKS		WINCHESTER		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
6- 6-18S	21392	5.9	7.0	18.1		104
6- 6-18S	22343	6.5	6.5	18.0		105
6- 6-18S	22345	6.7	6.3	18.1		106
6- 6-18S	22346	6.9	6.5	17.2*		106
6- 6-18S	22476	6.5	6.4	18.7		106
6- 8- 6S	20853	6.2	8.6	6.8		106
8-10-15S	21284	8.3	10.5	15.1		103
8-10-15S	21413	8.1	10.3	14.7		101
8-10-15S	22342	8.3	10.0	15.4		102
10-10-10M	20306	9.7*	10.4	11.0		101
10-10-10M	20314	9.7	10.7	10.7		102
10-10-10M	20715	9.5*	11.1	11.7		104
10-10-10M	20859	8.9*	11.9	11.4		103
10-10-10M	21387	9.4*	10.2	11.9		101
10-10-10M	21389	10.1	10.9	10.5		104
10-10-10M	22347	10.2	10.8	11.4		106
12-12-12M	20854	12.6	12.0	11.9		102
12-12-12M	20974	12.5	11.8	12.3		102
KERR-MCGEE FARM CENTER		OKLA. CITY		OKLA.		
GRADE	NUM	N	APA	POT	XS CL	RV
0-46- 0	20111	0.0	45.8	0.0		100
KERR-MCGEE FARM CENTER		GUTHRIE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
5-15-30M W/ME	22797	5.6	16.3	28.9*		105
17-17-17M	22796	13.0*	15.0*	27.5		94*
KERR-MCGEE FARM CENTER		CADIZ		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	22268	7.9	17.5	9.9*		127
6-24-24M	20895	6.6	25.9	24.9		107
6-24-24M	22269	6.3	22.6*	24.9		99
10-10-10M	20215	10.3	10.3	12.0		106
10-10-10M	20896	10.9	11.3	12.0		112
KERR-MCGEE FARM CENTER		PEMBROKE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0-15-10S	21083	0.0	13.8*	5.7*		83*
0-20-20M	21862	0.0	22.0	19.1*		105
4-20-20M	22790	3.9	18.4*	21.4		97*
4-24-12M W/MF	21075	3.5*	24.6	13.4		102
4-24-12M W/ME	22100	4.7	24.3	11.6*		103
5-15-30M W/ME	21076	4.9	14.8	31.1		100
5-15-30M W/ME	22101	6.0	16.4	30.2		108
5-17-20M	22102	5.5	17.2	20.0		103
5-20-20M	21081	5.4	20.4	20.0		102
6-24-24M	21079	6.6	25.0	24.3		104
8-12-20S W/ME	21080	8.1	10.9*	20.4		98
8-28-12S	21078	8.9	29.3	11.8		106
10-10-10M	21077	11.0	11.9	9.0*		109
18-46- 0	21082	18.6	46.3	0.0		102
82- 0- 0	21861	82.1	0.0	0.0		100
MARTIN BROS. IMPLEMENT CO.		ROANOKE		ILL.		
GRADE	NUM	N	APA	POT	XS CL	RV
82- 0- 0	22670	81.8	0.0	0.0		100
MAYFIELD MILLING COMPANY		MAYFIELD		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
5-19-19M	22259	6.9	19.8	19.3*		103
6-18-12M	19856	5.9	18.6	13.3		103
10-10-10M	21431	11.2	12.2	8.9*		111

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

MAYS OIL & ALLIED CHEMICAL CO., PRINCETON			KY.		XS	CL	RV
GRADE	NUM	N	APA	POT			
10-34-0	22116	11.0	35.0	0.0			105
30-0-0	22117	31.5	0.0	0.0			105
MILES FARMS			OWENSBORO		KY.		
GRADE	NUM	N	APA	POT	XS	CL	RV
3-10-30M	21442	3.1	9.9	31.2			102
3-10-30M	22521	6.3	19.5	18.2*			129
3-10-30M	22717	3.1	9.4*	30.8			100
6-26-26M	21959	5.6*	24.9*	28.5			99
6-26-26M	22517	7.0	27.4	25.3*			105
11-35-0	22718	10.0*	32.1*	0.0			92*
12-40-0	21443	11.1*	40.3	0.0			98
82-0-0	21445	82.0	0.0	0.0			100
MISSISSIPPI CHEMICAL CORP.			YAZOO CITY		MISS		
GRADE	NUM	N	APA	POT	XS	CL	RV
33-0-0	22668	34.3	0.0	0.0			102
MOBIL CHEM CO, AGRICHEM DIV			RICHMOND		VA.		
GRADE	NUM	N	APA	POT	XS	CL	RV
0-10-30M W/B	19757	0.0	10.9	32.4			108
0-19-19M W/B	19756	0.0	20.9	20.2			109
0-20-0	20021	0.0	20.7	0.0			103
0-20-20M	20640	0.0	19.9	20.2			100
0-20-20M	21227	0.0	20.6	19.4*			101
0-20-20M	21676	0.0	20.7	21.2			104
0-20-20M	22632	0.0	22.1	18.8*			105
0-25-25M	21057	0.0	24.6	26.5			101
0-46-0	20843	0.0	48.4	0.0			105
0-46-0	21342	0.0	47.2	0.0			103
3-10-30M W/ME	21054	3.3	11.9	29.6			107
3-10-30M W/ME	22756	3.3	11.0	29.3*			104
3-12-12M	20737	3.6	14.1	12.1			113
4-12-8M	19829	4.3	12.8	9.1			108
4-12-8M	19905	5.0	12.1	9.9			112
4-12-8M	20022	5.9	15.5	11.4			137
4-12-8M	20323	3.6*	13.4	12.1			112
4-12-8M	20451	5.0	13.8	10.2			120
4-12-8M	20532	5.0	12.1	10.0			112
4-12-8M	20641	5.0	12.0	9.3			110
4-12-8M	20898	4.5	11.5*	9.4			104
4-12-8M	20985	4.5	13.4	9.6			114
4-12-8M	21226	4.9	12.1	8.7			108
4-12-8M	21239	3.8	11.3*	9.4			98
4-12-8M	21456	4.1	12.4	9.4			105
4-12-8M	21578	4.9	13.1	9.3			114
4-12-8M	21643	5.3	13.0	9.3			116
4-12-8M	22183	4.9	12.7	8.6			111
4-12-8M	22408	5.0	13.5	11.3			121
4-12-8M	22425	5.0	13.3	10.8			119
4-12-8M	22653	4.2	11.6*	9.9			104
4-12-8S W/ME	22423	4.3	12.4	8.9		*	105
4-12-12M	19828	4.2	12.4	12.3			103
4-16-4S	20267	4.9	15.9	6.2		*	110
4-16-4S W/ME	20685	4.7	16.3	5.9			109
5-10-10M	20500	5.5	11.6	11.8			114
5-10-15S	20145	4.9	9.8	15.8			100
5-10-15S	20176	5.1	9.9	16.6			103
5-10-15S	20330	5.1	11.1	15.7			106
5-10-15S	20659	5.3	10.4	15.0			103

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

MOBIL CHEM CO, AGRI CHEM DIV	RICHMOND	VA.			
GRADE	NUM	N	APA	POT	
5-10-15S	21055	5.2	10.5	16.9	* 107
5-10-15S	21580	5.1	10.4	15.2	103
5-10-15S	21596	4.9	10.8	15.8	* 104
5-10-15S	21791	5.5	10.5	15.7	106
5-10-15S	22420	6.0	10.5	14.8	* 108
5-10-15S	22551	5.7	10.8	14.6*	106
5-10-15S	22558	5.5	11.8	16.6	* 114
5-10-15S	22719	5.2	10.1	14.5*	* 101
5-10-15S W/ME	20448	4.9	11.0	15.7	105
5-10-15S W/ME	22725	5.9	9.7	14.9	104
5-20-20M	19827	5.1	19.5*	20.1	99
5-20-20M	19902	4.9	20.0	19.9	99
5-20-20M	19932	5.9	18.5*	19.3*	99
5-20-20M	19938	5.8	18.9*	19.8	100
5-20-20M	19976	5.6	19.5*	19.5*	101
5-20-20M	20023	5.6	19.8	20.2	102
5-20-20M	20053	5.3	20.3	20.2	102
5-20-20M	20103	5.3	19.3*	20.1	99
5-20-20M	20174	5.2	22.0	19.3*	105
5-20-20M	20324	5.4	21.0	19.3*	103
5-20-20M	20452	5.6	20.6	20.1	104
5-20-20M	20590	5.2	18.9*	21.0	99
5-20-20M	20644	4.9	19.3*	20.0	98
5-20-20M	20658	5.1	22.0	18.0*	103
5-20-20M	20899	5.0	18.8*	22.5	100
5-20-20M	20947	5.2	20.6	19.4*	102
5-20-20M	20986	4.9	19.7	21.8	101
5-20-20M	21058	5.3	19.9	21.2	103
5-20-20M	21550	5.3	20.1	21.0	103
5-20-20M	21595	5.5	19.7	20.4	102
5-20-20M	21642	5.7	21.1	19.2*	104
5-20-20M	21674	5.7	20.3	19.5*	103
5-20-20M	21790	5.8	19.6	20.6	103
5-20-20M	21830	5.8	19.1*	21.9	103
5-20-20M	21882	5.3	20.2	20.4	102
5-20-20M	22132	5.5	20.0	19.8	102
5-20-20M	22196	4.8	19.9	21.0	101
5-20-20M	22407	5.2	20.9	20.0	103
5-20-20M	22477	5.6	20.6	20.6	105
5-20-20M	22496	5.1	18.2*	21.6	98
5-20-20M	22561	5.5	20.1	19.9	102
5-20-20M	22630	5.2	21.8	17.5*	102
5-20-20M W/ME	19977	5.9	19.5*	19.9	102
5-20-20M W/ME	20049	5.0	19.3*	19.7	98
5-20-20M W/ME	22422	5.8	19.7	19.4*	102
5-20-20M W/ME	22560	5.7	18.8*	20.5	100
6-12-12M	19826	5.8	12.1	12.5	100
6-12-12M	19904	5.7*	11.7	11.7	97*
6-12-12M	20589	6.5	11.9	13.6	106
6-12-12M	22556	6.3	12.4	12.5	104
6-12-18S	22409	6.5	12.7	19.0	107
6-12-18S	22479	6.7	13.3	19.9	111
6-12-18S	22682	6.2	12.2	18.6	102
6-12-18S W/ME	20048	6.2	12.1	18.4	* 102
6-12-18S W/ME	20126	6.4	12.3	18.3	103
6-12-18S W/ME	20642	6.2	11.9	17.6	* 100
6-12-18S W/ME	21056	7.0	12.5	18.0	* 106

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

MOBIL CHEM CO, AGRI CHEM DIV			RICHMOND		VA.			
GRADE		NUM	N	APA	POT	XS CL	RV	
6-12-18S	W/ME	21210	6.3	12.6	18.0	*	103	
6-12-18S	W/ME	21228	5.8	13.0	17.8	*	102	
6-12-18S	W/ME	21238	6.4	12.8	17.6		104	
6-12-18S	W/ME	22045	6.9	12.7	18.3	*	107	
6-12-18S	W/ME	22182	6.5	12.3	18.8		105	
6-12-18S	W/ME	22271	6.5	13.2	18.2		106	
6-12-18S	W/ME	22421	6.5	12.7	19.0		107	
6-12-18S	W/ME	22426	6.4	12.3	18.3		104	
6-12-18S	W/ME	22552	6.8	12.6	18.6		107	
6-12-18S	W/ME	22755	5.7*	12.1	19.4		101	
6-18-12M		19939	7.0	20.8	12.1		113	
6-18-12M		20148	6.7	20.9	13.0		113	
6-18-12M	W/ME	19978	6.3	17.5*	12.3		100	
6-18-12M	W/ME	20047	5.9	16.8*	12.6		97*	
6-24-12M		20124	5.8	24.3	11.3*		99	
6-24-24M		19754	5.9	22.8*	25.6		99	
6-24-24M		20025	6.4	23.6	24.5		101	
6-24-24M		21441	5.9	20.1*	27.7		95*	
6-24-24M		21549	6.1	23.0*	24.8		99	
6-24-24M		22133	6.3	23.8	24.1		101	
6-24-24M		22468	6.3	23.6	24.8		101	
6-24-24M		22518	7.1	25.9	23.9		108	
6-24-24M		22519	6.4	21.5*	25.3		97*	
6-24-24M		22557	7.0	22.6*	22.0*		98	
8-32-16M		21053	8.9	31.1*	15.0*		100	
8-32-16M		22467	8.4	32.8	17.1		104	
10-10-10M		19755	9.7	10.5	10.8		101	
10-10-10M		19773	9.9	10.7	10.6		102	
10-10-10M		19884	10.2	11.1	10.8		106	
10-10-10M		19903	9.8	10.3	11.4		103	
10-10-10M		19937	9.9	10.8	10.3		102	
10-10-10M		20024	9.8	10.6	11.3		103	
10-10-10M		20037	10.0	10.3	11.6		104	
10-10-10M		20052	10.0	10.8	11.0		104	
10-10-10M		20125	10.4	10.3	10.6		104	
10-10-10M		20147	10.0	10.4	10.8		103	
10-10-10M		20175	9.9	11.2	11.6		106	
10-10-10M		20322	9.8	10.5	10.4		101	
10-10-10M		20450	10.7	10.9	10.7		108	
10-10-10M		20643	9.8	10.5	10.8		102	
10-10-10M		20933	9.4*	11.0	10.5		101	
10-10-10M		20987	9.7	10.7	11.8		104	
10-10-10M		21551	10.1	10.7	10.8		104	
10-10-10M		21579	10.0	11.1	11.0		105	
10-10-10M		21597	9.8	10.7	10.7		102	
10-10-10M		21644	10.0	10.8	10.5		103	
10-10-10M		21673	10.0	10.2	11.6		103	
10-10-10M		21675	10.4	10.4	11.0		105	
10-10-10M		21789	10.4	11.0	10.8		107	
10-10-10M		21855	11.0	9.9	10.8		106	
10-10-10M		22195	10.6	10.4	10.0		104	
10-10-10M		22419	11.0	10.3	11.0		108	
10-10-10M		22478	8.2*	14.3	15.7		115	
10-10-10M		22720	8.1*	10.4	9.8		92*	
10-10-10M	W/ME	19975	10.1	10.2	11.1		103	
10-10-10M	W/ME	20449	9.9	10.1	11.6		102	
10-10-10M	W/ME	21164	9.5*	10.9	11.4		103	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
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
GRADE	NUM	N	APA	POT		
10-20-20M	21635	11.8	24.0	18.1*		112
10-20-20M	21961	10.2	18.0*	21.6		98
12-12-12M	22469	11.1*	13.9	13.9		104
14-14-14M	21641	14.1	15.8	14.7		106
14-14-14M	22410	14.5	14.7	15.4		105
14-14-14M	22495	14.0	12.9*	15.9		100
14-14-14M	22631	14.1	15.0	14.7		103
14-14-14M	22754	12.4*	15.7	15.7		100
15-15-15M	22559	15.1	16.9	14.7		104
15-15-15M	22721	13.7*	14.6	14.7		95*
20-10-5M	19767	17.3*	10.6	8.1		95*
28-0-0	22726	29.9	0.0	0.0		107
33-0-0	20897	34.2	0.0	0.0		102
82-0-0	21854	81.9	0.0	0.0		100
MONSANTO COMPANY		ST. LOUIS		MO.	XS CL	RV
GRADE	NUM	N	APA	POT		
82-0-0	19685	82.0	0.0	0.0		100
82-0-0	21944	82.1	0.0	0.0		100
MONSANTO AGRI. CENTERS, INC.		SLAUGHTERS		KY.	XS CL	RV
GRADE	NUM	N	APA	POT		
0-15-40M	21945	0.0	15.9	41.6		104
5-10-15S	22388	5.2	10.3	15.9	*	104
5-20-20M	21248	5.8	22.6	16.9*		106
5-20-20M	22384	4.7*	18.7*	19.2*		94*
5-20-30M	21247	5.1	20.2	28.0*		99
5-20-30M	21943	6.2	20.7	31.1		107
5-20-30M	22385	7.1	22.6	30.4		114
6-26-26M	21946	6.4	25.8	27.6		102
6-26-26M	22386	5.7*	24.7*	29.3		100
10-10-10M	22387	10.7	11.6	17.5		121
14-36-9M	22389	14.5	36.2	8.4*		101
NA-CHURS PLANT FOOD COMPANY		MARTON		OHIO	XS CL	RV
GRADE	NUM	N	APA	POT		
2-20-18KOH	20019	2.3	20.2	18.6		103
5-15-15KOH	20018	5.1	16.2	15.2		105
5-20-5KOH	20020	7.2	21.3	6.7		118
10-20-10M	22125	10.1	20.4	10.0		101
NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.	XS CL	RV
GRADE	NUM	N	APA	POT		
0-0-50S	20353	0.0	0.0	46.7*		94*
0-0-50S	21685	0.0	0.0	49.1*		98
0-0-50S	21936	0.0	0.0	50.7		101
0-0-60M	20360	0.0	0.0	54.8*		91*
0-20-0	19681	0.0	19.8	0.0		99
0-20-0	21935	0.0	20.3	0.0		102
0-20-0	22856	0.0	16.1*	0.0		80*
0-20-20M W/B	22142	0.0	18.7*	22.1		99
0-46-0	21323	0.0	46.7	0.0		102
4-12-8M	19759	6.3	13.2	12.5		131
4-12-8M	20499	4.0	11.5*	9.2		100
4-12-8M	21329	4.3	11.1*	9.8		102
4-12-8M	21332	6.1	11.7	17.7		135
4-12-8M	21557	4.8	12.1	10.0		111
4-12-8M	21890	4.5	12.1	8.7		106
4-12-8M	22150	4.3	12.1	8.6		104
4-12-8M	22622	4.3	11.9	8.6		103
4-12-8M	22855	9.4	10.4*	12.1		139

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
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
GRADE	NUM	N	APA	POT			
4-16- 4S	21327	4.1	14.5*	6.9	*	100	
5-10-15S	20160	5.1	10.1	14.5*		100	
5-10-15S	20354	4.9	9.9	15.2		99	
5-10-15S	20628	5.2	9.6*	15.4		100	
5-10-15S	21330	5.2	10.4	14.9		103	
5-10-15S	21331	5.0	10.2	15.2		101	
5-10-15S	21508	4.9	9.6*	16.1		100	
5-10-15S	21925	5.6	10.1	14.9		104	
5-10-15S	21938	5.5	10.1	15.9		105	
5-10-15S	22034	5.6	10.7	15.2	*	107	
5-10-15S	22143	5.7	9.7	15.8		105	
5-10-15S	22405	5.7	11.2	14.9	*	109	
5-10-15S	22464	5.1	9.9	16.1		103	
5-20-20M	19885	22.8	19.5*	20.3		170	
5-20-20M	20158	5.4	19.0*	17.9*		96*	
5-20-20M	20394	4.9	19.7	20.5		99	
5-20-20M	20505	5.4	18.5*	22.5		101	
5-20-20M	21120	5.9	21.5	16.0*		102	
5-20-20M	21324	5.6	19.3*	19.9		100	
5-20-20M	21982	6.0	19.9	20.4		104	
5-20-20M	22147	5.3	19.3*	21.9		102	
5-20-20M	22404	5.7	21.7	18.6*		105	
5-20-20M	22466	5.9	20.3	21.6		106	
5-20-20M	22777	5.5	16.4*	24.0		98	
5-20-20M	22779	5.3	19.6	21.7		102	
5-20-20M	22853	5.3	19.6*	21.4		102	
5-20-30M	20395	5.4	19.3*	29.1*		99	
6- 6-18S	21686	5.9	6.9	18.2		103	
6- 8- 6M	20925	6.0	8.5	8.6		109	
6-12-12M	20157	6.1	12.3	13.6		104	
6-12-12M	20625	6.7	12.6	13.5		109	
6-12-12M	21002	6.1	11.9	13.0		102	
6-12-12M	21328	6.9	11.9	12.4		106	
6-12-12M	21927	6.9	11.9	13.8		108	
6-12-12M	22148	6.5	12.1	13.0		105	
6-12-12M	22778	6.7	12.6	13.7		109	
6-12-12M	22827	5.9	14.4	13.5		111	
6-12-18S	21506	6.3	11.6*	19.3	*	102	
6-12-18S	21510	6.3	11.9	17.3*	*	100	
6-12-18S	22036	6.5	12.7	17.7		104	
6-24-12M	22145	6.6	23.2*	13.7		103	
6-24-24M	20396	6.5	22.5*	25.5		100	
6-24-24M	21121	6.2	24.8	24.1		103	
7-22-14M W/ME	22146	7.6	21.1*	16.3		103	
8-10-15S	20159	6.9*	10.5	15.2		97*	
8-10-15S	21325	8.0	10.1	15.5		101	
8-10-15S	21507	8.0	10.1	15.7		101	
8-10-15S	21926	8.5	9.7	16.0		103	
8-10-15S	22033	8.5	9.9	15.3		103	
8-10-15S	22463	8.1	11.1	15.4		105	
8-10-15S	22465	8.1	10.3	15.7		103	
8-10-15S W/ME	20361	8.0	9.9	15.2		100	
9- 9-17S	21326	8.7	9.4	17.3		100	
9- 9-17S W/ME	21983	9.5	8.0*	18.0	*	101	
9- 9-17S W/ME	22149	9.2	9.9	15.9*	*	102	
10-10-10M	19758	9.8	10.5	12.4		105	
10-10-10M	20156	9.7	10.0	11.2		100	



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
10-10-10M	20359	10.1	10.2	12.0		104
10-10-10M	20397	10.4	10.7	11.8		107
10-10-10M	20504	10.0	11.6	11.6		108
10-10-10M	20626	10.2	9.9	13.5		106
10-10-10M	20734	10.6	10.8	11.2		108
10-10-10M	20924	10.6	9.9	11.8		106
10-10-10M	21001	10.5	10.0	11.7		105
10-10-10M	21505	10.2	10.4	11.2		104
10-10-10M	21509	9.7*	10.0	12.2		102
10-10-10M	21556	9.5*	10.8	11.7		103
10-10-10M	21924	10.6	10.4	11.1		106
10-10-10M	21937	9.7	10.8	12.2		105
10-10-10M	22141	9.9	9.9	13.8		105
10-10-10M	22358	10.5	10.3	10.2		104
10-10-10M	22623	9.9	9.7	11.8		102
10-10-10M	22826	9.7	10.6	11.7		103
10-10-10M	22854	9.5*	10.8	11.6		103
10-50-17M	19682	10.9	52.3	15.9*		104
10-52-17M	22472	9.7	52.7	18.4		101
12-12-12M	22144	12.5	12.3	14.0		105
30- 0- 0	21122	31.2	0.0	0.0		104
30- 0- 0	22462	32.3	0.0	0.0		108
30- 0- 0	22776	30.9	0.0	0.0		103
82- 0- 0	21840	81.9	0.0	0.0		100
82- 0- 0	22896	82.1	0.0	0.0		100
OHIO VALLEY FERTILIZER, INC.		MAYSVILLE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0-10-30M	21906	0.0	9.9	27.7*		95*
0-20-20M	21903	0.0	25.8	9.7*		102
4-12- 8M	21902	4.9	11.9	9.6		110
5-10-10M	21277	5.3	9.9	10.6		102
5-10-10M	21900	6.0	10.1	10.2		107
5-10-15S	20538	5.4	11.0	14.0*		105
5-10-15S	21894	5.7	10.0	15.9		106
5-10-20S W/ME	21024	5.1	10.5	20.0		102
5-10-20S W/ME	21899	5.5	10.4	17.7*		100
5-20-20M	20489	5.1	20.4	18.3*		99
5-20-20M	21895	5.1	17.2*	21.9		96*
6- 6-18M	21904	6.2	6.9	20.5		110
6- 6-18S	20537	6.3	6.2	16.9*		100
6- 8- 6S	21901	6.5	8.7	7.6		111
6-12-18S	21905	6.7	11.8	18.4		103
6-12-18S W/ME	20490	6.2	11.4*	16.7*		97*
6-24-12M	21907	7.5	13.5*	18.0		86*
10-10-10M	21173	10.1	10.5	11.2		104
10-10-10M	21896	10.1	10.7	10.5		103
10-10-10M	21897	9.4*	10.8	11.6		102
10-10-20S	20768	15.1	15.7	9.4*		123
10-10-20S W/ME	20571	9.8	10.4	20.4		101
10-10-20S W/ME	21023	12.9	13.6	13.9*		114
10-10-20S W/ME	21598	10.4	11.1	19.2*		104
10-10-20S W/ME	21599	11.7	11.9	17.3*		109
10-10-20S W/ME	21600	15.1	15.4	10.5*		123
10-10-20S W/ME	21601	13.8	14.2	13.2*		119
10-10-20S W/ME	21898	9.2*	9.7*	21.3		97*
12-12-12M	21278	10.9*	11.8	12.2		95*
12-12-12M	21908	11.4*	12.5	11.9		99

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

OLIN MATHIESON CHEM. CORP.		LITTLE ROCK			ARK.	XS CL	RV
GRADE	NUM	N	APA	POT			
6-24-24M	19777	6.8	23.5*	26.2			104
6-24-24M	20094	7.0	24.5	24.0			104
6-24-24M	20902	6.9	24.2	23.1*			102
10-20-20M	21423	10.3	20.7	19.5*			102
10-40-10M	22520	10.4	41.5	11.3			105
13-13-13M	19778	13.7	13.1	13.2			103
13-13-13M	20092	13.4	14.4	13.9			106
45- 0- 0	20557	46.2	0.0	0.0			103
PENNSYLVANIA DUTCH FERT. CO.		LEBANON			PA.	XS CL	RV
GRADE	NUM	N	APA	POT			
5-10- 5M	22022	5.7	9.2*	5.7			103
5-10- 5M	22025	5.6	10.4	4.9			106
7- 7- 7M	22023	7.3	8.0	7.5			108
10- 6- 4M	22024	10.9	5.8	3.9			105
20-10- 5M	22026	20.7	11.0	5.7			106
PHILLIPS PETROLEUM CO.		BARTLESVILLE			OKLA	XS CL	RV
GRADE	NUM	N	APA	POT			
82- 0- 0	19700	82.0	0.0	0.0			100
82- 0- 0	19715	82.0	0.0	0.0			100
82- 0- 0	19723	82.0	0.0	0.0			100
82- 0- 0	21419	81.8	0.0	0.0			100
82- 0- 0	21428	82.1	0.0	0.0			100
82- 0- 0	21881	81.8	0.0	0.0			100
82- 0- 0	21981	82.2	0.0	0.0			100
RA-PID-GROW CORPORATION		DANSVILLE			N.Y.	XS CL	RV
GRADE	NUM	N	APA	POT			
23-19-17M	19879	23.6	19.4	17.0			102
ROYSTER COMPANY		NORFOLK			VA.	XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-50S	21544	0.0	0.0	50.9			102
0-20- 0	19922	0.0	19.7	0.0			99
0-20- 0	20789	0.0	20.5	0.0			102
0-20- 0	21341	0.0	19.9	0.0			100
0-20- 0	21541	0.0	19.6	0.0			98
0-20- 0	21543	0.0	19.9	0.0			100
0-20- 0	22165	0.0	19.2*	0.0			96*
0-20- 0	22531	0.0	20.2	0.0			101
0-20- 0	22681	0.0	19.5*	0.0			98
0-20- 0	22736	0.0	19.6	0.0			98
0-20-20M	21114	0.0	18.7*	21.1			98
0-20-20M	21340	0.0	18.7*	21.0			97*
0-20-20M W/ME	20982	0.0	19.3*	20.2			98
0-20-20M W/ME	21485	0.0	21.0	19.0*			102
0-20-20M W/ME	21692	0.0	19.7	20.6			100
0-20-20M W/ME	21829	0.0	20.4	21.2			103
0-20-20M W/ME	21919	0.0	19.8	22.5			104
0-20-20M W/ME	22053	0.0	20.7	22.2			106
0-20-20M W/ME	22444	0.0	20.1	21.0			102
3-12-12M W/ME	20305	3.6	11.8	12.0			104
4-12- 8M	20444	4.4	12.8	9.6			110
4-12- 8M	22458	4.9	13.5	12.1			122
4-12- 8M W/ME	20381	4.6	12.1	9.3			107
4-12- 8M W/ME	20439	4.3	12.2	9.6			107
4-12- 8M W/ME	20496	4.1	12.6	9.3			107
4-12- 8M W/ME	21221	4.9	12.5	8.9			110
4-12- 8M W/ME	21320	3.9	12.4	8.8			103
4-12- 8M W/ME	21920	4.2	12.7	9.9			109

**TABLE 1 — Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**

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

ROYSTER COMPANY GRADE	NUM	NORFOLK		VA.		XS CL	RV
		N	APA	POT			
4-12- 8M W/ME	22166	4.7	13.1	9.9			114
4-12- 8M W/ME	22820	4.4	12.5	10.0			109
4-16- 4S W/ME	20265	5.0	16.2	5.6			110
4-16- 4S W/ME	20818	5.0	15.7	5.5	*		108
5-10-15S	20983	5.9	10.5	15.9			109
5-10-15S	22530	5.9	10.1	15.4			107
5-10-15S	22723	5.7	10.5	16.2	*		109
5-10-15S W/ME	20152	5.6	9.9	14.7			102
5-10-15S W/ME	20171	5.9	10.9	14.7			108
5-10-15S W/ME	20211	6.3	11.8	15.7			116
5-10-15S W/ME	20224	5.8	10.1	15.3			106
5-10-15S W/ME	20225	5.1	10.8	13.0*	*		99
5-10-15S W/ME	20304	5.7	11.3	16.9	*		113
5-10-15S W/ME	20349	5.7	10.5	14.9			106
5-10-15S W/ME	20372	5.7	10.2	14.4*			104
5-10-15S W/ME	20379	5.4	10.7	14.2*			103
5-10-15S W/ME	20437	6.4	10.2	13.6*			106
5-10-15S W/ME	20438	5.9	10.2	15.7			108
5-10-15S W/ME	20788	5.4	10.4	15.2			105
5-10-15S W/ME	20804	6.0	10.5	15.7			109
5-10-15S W/ME	20821	5.6	10.5	15.2			106
5-10-15S W/ME	20998	6.0	10.8	15.3			110
5-10-15S W/ME	20999	5.8	10.3	15.4			107
5-10-15S W/ME	21118	5.2	10.2	14.1*			100
5-10-15S W/ME	21478	6.0	10.2	13.7*			104
5-10-15S W/ME	21479	5.5	10.7	15.4			106
5-10-15S W/ME	21504	5.3	11.1	16.4			109
5-10-15S W/ME	21542	5.7	10.5	15.3			107
5-10-15S W/ME	21590	5.8	10.8	15.7			109
5-10-15S W/ME	21626	5.9	10.4	16.0			109
5-10-15S W/ME	21657	5.4	10.4	15.7			106
5-10-15S W/ME	21922	5.9	10.5	15.2			108
5-10-15S W/ME	22050	5.9	10.8	15.8			110
5-10-15S W/ME	22087	6.0	10.5	15.1			108
5-10-15S W/ME	22090	5.5	10.0	15.3			103
5-10-15S W/ME	22158	5.9	11.0	15.4			110
5-10-15S W/ME	22291	5.9	10.7	15.2			108
5-10-15S W/ME	22292	5.8	10.2	15.4			107
5-10-15S W/ME	22406	6.5	11.0	14.5*	*		112
5-10-15S W/ME	22457	4.9	11.1	16.0			106
5-10-15S W/ME	22743	5.9	10.3	14.4*	*		106
5-20-20M	19920	5.0	19.7	21.0			100
5-20-20M	20032	4.9	19.4*	19.9			98
5-20-20M	20066	5.6	19.8	19.8			101
5-20-20M	20149	5.0	20.2	20.4			101
5-20-20M	20226	4.9	19.9	19.1*			98
5-20-20M	20373	5.9	18.7*	19.0*			99
5-20-20M	20407	5.3	19.0*	20.5			99
5-20-20M	20441	5.4	18.7*	21.4			100
5-20-20M	20445	5.9	18.9*	21.6			103
5-20-20M	20790	5.3	19.7	21.3			102
5-20-20M	20984	5.8	19.1*	21.7			103
5-20-20M	20989	5.5	20.2	21.0			104
5-20-20M	20993	4.9	19.1*	19.4*			96*
5-20-20M	21321	5.1	18.9*	18.6*			96*
5-20-20M	21339	5.1	19.4*	20.0			99
5-20-20M	21455	5.5	20.2	20.6			103

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

ROYSTER COMPANY		NORFOLK	VA.		
GRADE	NUM	N	APA	POT	XS CL RV
5-20-20M	21481	5.1	19.6	21.0	101
5-20-20M	21658	5.7	20.9	21.2	107
5-20-20M	21670	5.5	20.2	20.1	103
5-20-20M	21671	5.9	19.4*	20.7	103
5-20-20M	21892	5.9	20.4	21.0	106
5-20-20M	22089	5.8	19.8	20.2	103
5-20-20M	22350	5.4	20.5	20.7	104
5-20-20M	22411	5.2	20.1	20.0	101
5-20-20M	22492	5.6	20.4	21.0	105
5-20-20M	22680	5.2	19.7	20.8	101
5-20-20M	22742	5.3	20.1	20.1	102
5-20-20M W/ME	20177	5.3	20.6	21.8	105
6- 6-18S W/ME	20994	6.6	6.7	18.1	107
6- 6-18S W/ME	21028	6.2	7.0	17.3*	104
6-12-12M W/ME	20082	6.5	12.1	13.4	106
6-12-12M	19921	5.8	11.9	13.5	101
6-12-12M	20227	6.8	12.0	12.7	105
6-12-12M	20447	6.9	12.3	12.4	107
6-12-12M	22356	7.5	12.4	12.8	111
6-12-12M	22493	6.7	13.0	12.4	108
6-12-12M W/ME	20027	6.2	11.8	13.0	102
6-12-12M W/ME	20095	6.6	11.6*	13.3	104
6-12-12M W/ME	20200	6.9	12.6	12.2	107
6-12-12M W/ME	20329	6.6	12.1	13.0	106
6-12-12M W/ME	20350	6.6	11.8	12.4	103
6-12-12M W/ME	20380	7.0	11.9	12.3	106
6-12-12M W/ME	20440	6.4	11.7	12.4	102
6-12-12M W/ME	20531	6.1	12.4	12.8	104
6-12-12M W/ME	20598	5.9	12.8	12.3	103
6-12-12M W/ME	20791	6.3	12.4	13.3	105
6-12-12M W/ME	20819	6.8	12.0	12.9	106
6-12-12M W/ME	20981	6.2	13.1	13.5	108
6-12-12M W/ME	20988	6.7	12.6	12.4	107
6-12-12M W/ME	21293	6.7	12.6	12.8	108
6-12-12M W/ME	21322	6.5	12.1	12.9	105
6-12-12M W/ME	21484	6.5	12.1	11.9	103
6-12-12M W/ME	21672	7.7	12.0	11.7	109
6-12-12M W/ME	21788	7.0	12.5	12.4	108
6-12-12M W/ME	21923	6.7	13.0	12.1	107
6-12-12M W/ME	22052	6.9	12.8	13.4	111
6-12-12M W/ME	22088	6.8	12.6	13.0	109
6-12-12M W/ME	22442	6.6	13.5	12.3	110
6-12-18S W/ME	22043	6.2	12.5	18.1	103
6-12-18S W/ME	22414	6.5	12.6	18.2	105
6-19-26M	22221	5.9	16.7*	26.1	94*
6-24-24M	20212	6.2	25.1	24.1	103
6-24-24M	20408	5.9	23.7	24.5	99
7-24-14M	21787	8.0	28.5	15.2	116
7-28-14M	20029	7.5	28.0	14.3	102
8-24- 8NIT	20028	7.9	23.4*	9.6	100
10-10-10M	19816	9.7	10.5	11.3	102
10-10-10M	20031	10.4	10.5	10.3	104
10-10-10M	20059	9.4*	10.6	11.0	100
10-10-10M	20151	10.4	10.1	10.0	102
10-10-10M	20213	10.1	10.7	11.1	104
10-10-10M	20228	9.8	10.5	9.5*	100
10-10-10M	20302	10.0	10.7	9.9	102

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

ROYSTER COMPANY GRADE	NUM	NORFOLK		VA.	XS CL	RV
		N	APA	POT		
10-10-10M	20348	10.2	10.1	10.2		101
10-10-10M	20442	10.1	10.1	11.1		103
10-10-10M	20446	10.4	10.8	10.8		106
10-10-10M	20801	9.8	11.7	11.8		108
10-10-10M	20991	10.2	10.7	9.9		103
10-10-10M	21087	10.4	10.4	10.1		104
10-10-10M	21294	10.6	10.9	9.5*		105
10-10-10M	21319	10.2	10.9	10.1		104
10-10-10M	21486	9.6*	10.7	10.1		100
10-10-10M	21669	9.9	11.1	10.7		104
10-10-10M	21921	10.1	10.8	10.4		103
10-10-10M	22044	9.9	10.8	10.0		102
10-10-10M	22051	10.5	10.7	10.7		106
10-10-10M	22091	10.9	10.5	10.2		107
10-10-10M	22164	10.7	10.3	10.6		106
10-10-10M	22190	10.5	10.5	10.5		105
10-10-10M	22290	10.1	10.7	10.5		103
10-10-10M	22337	10.6	10.8	10.4		106
10-10-10M	22443	10.7	10.9	10.7		108
10-10-10M	22459	11.0	10.4	11.4		109
10-10-10M	22494	10.3	10.4	10.6		104
10-10-10M	22529	10.8	11.0	11.2		109
10-10-10M	22735	9.5*	10.4	11.6		102
10-10-10M	22875	10.4	10.0	10.7		103
10-10-10M W/ME	20033	9.7	10.5	11.6		103
10-10-10M W/ME	20178	10.1	11.0	9.9		104
10-10-10M W/ME	21113	10.0	10.5	10.2		102
10-10-10M W/ME	21119	9.8	10.5	10.4		102
10-10-10M W/ME	21757	10.5	10.3	10.8		105
10-10-10M W/ME	22456	10.4	10.5	10.8		105
10-10-15S	20990	9.9	10.0	15.9		101
10-10-15M W/ME	21480	9.6*	9.7	16.1		99
10-10-15S W/ME	20303	9.7	10.2	16.3		101
10-10-15S W/ME	20443	10.1	10.8	15.1		103
10-10-15S W/ME	20803	10.2	10.3	15.3		102
10-10-15S W/ME	20820	9.3*	8.7*	16.0		94*
10-10-15S W/ME	20995	9.9	10.3	15.2	*	101
10-10-15S W/ME	21502	9.8	10.2	15.5		101
10-10-15S W/ME	21503	10.0	9.9	16.0		101
10-10-15S W/ME	21659	10.1	10.0	15.5		101
10-10-15S W/ME	21893	9.9	10.1	17.0		103
10-10-15S W/ME	22157	9.7*	10.7	15.8	*	102
10-10-15S W/ME	22349	9.6*	10.7	15.7		101
10-10-15S W/ME	22351	9.4*	10.8	14.8		99
11-35- 0	22522	9.0*	27.4*	0.0		79*
12-12-12M	20030	11.5*	13.0	12.4		101
12-12-12M	21756	11.9	12.3	12.8		101
15-15-15M	20992	15.0	16.0	14.9		102
28- 0- 0	21444	29.1	0.0	0.0		104
28- 0- 0	22724	29.2	0.0	0.0		104
30- 0- 0	20795	30.5	0.0	0.0		102
30- 0- 0	21000	32.2	0.0	0.0		107
30- 0- 0	21487	30.6	0.0	0.0		102
30- 0- 0	21660	31.5	0.0	0.0		105
30- 0- 0	21839	30.8	0.0	0.0		103
30- 0- 0	21978	30.7	0.0	0.0		102
30- 0- 0	22092	31.1	0.0	0.0		104

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

ROYSER COMPANY		NORFOLK			VA.	
GRADE	NUM	N	APA	POT	XS CL	RV
30- 0- 0	22352	31.2	0.0	0.0		104
30- 0- 0	22842	30.5	0.0	0.0		102
33- 0- 0	20247	35.0	0.0	0.0		104
33- 0- 0	21591	35.0	0.0	0.0		105
82- 0- 0	19693	82.0	0.0	0.0		100
82- 0- 0	21976	82.1	0.0	0.0		100
82- 0- 0	21977	82.1	0.0	0.0		100
82- 0- 0	22222	81.7	0.0	0.0		100
82- 0- 0	22889	82.0	0.0	0.0		100
SCHOCH OH CROP SERVICE		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	22008	5.5	20.9	19.9		104
6-12-18S	22007	6.6	14.5	15.3*	*	107
8-12-15S	22006	7.7*	11.8	16.4	*	100
O. M. SCOTT & SONS		MARYSVILLE			OHIO	
GRADE	NUM	N	APA	POT	XS CL	RV
23- 7- 7M	20205	24.0	5.6*	7.6		101
23- 7- 7M	21710	25.0	6.9	6.5*		106
SEARS, ROEBUCK & COMPANY		CHICAGO			ILL.	
GRADE	NUM	N	APA	POT	XS CL	RV
5- 8- 7M W/ME	21051	5.9	6.9*	8.7		106
8- 8- 8M	19880	8.0	8.4	8.0		102
8- 8- 8M W/ME	21049	8.7	7.0*	8.7		102
10- 7- 5M	21050	11.5	8.2	4.2*		112
25- 5-10M	21048	26.3	5.7	10.6		106
SINCLAIR PETROCHEMICALS INC.		CHICAGO			ILL.	
GRADE	NUM	N	APA	POT	XS CL	RV
6-24-24M	21172	6.9	23.5*	24.3		102
82- 0- 0	22203	82.0	0.0	0.0		100
82- 0- 0	22888	82.0	0.0	0.0		100
SMITH-DOUGLASS COMPANY, INC.		NORFOLK			VA.	
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-60M	20288	0.0	0.0	60.5		101
0-26-26M	20400	0.0	28.3	23.4*		102
0-46- 0	20289	0.0	45.8	0.0		100
5-10-15S	22843	5.9	9.7*	14.6	*	103
5-20- 0	20291	5.0	20.2	0.0		101
5-20-20M	20292	5.2	19.7	20.0		100
5-20-20M	20401	5.6	19.4*	22.8		104
5-20-20M	22704	5.2	18.5*	20.9		98
6-12-18M	19912	6.6	19.0	17.2*		125
6-18-12M	20402	6.1	18.6	16.5		109
10-10-10M	20290	8.9*	11.9	12.0		104
10-10-10M	20403	9.5*	11.0	13.0		106
16- 8- 8M	21724	17.1	8.8	8.8		108
23-21-18M	22844	22.7	22.2	18.4		102
24- 6- 6S	19927	25.5	6.7	7.4	*	108
24- 6- 6S	19928	26.0	7.1	6.1	*	109
82- 0- 0	22114	81.9	0.0	0.0		100
SOUTHERN STATES SIMPSON COOP.		FRANKLIN			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	21806	6.7	11.5*	13.4		104
10-10-10M	21805	18.2	16.4	16.7		174
SOUTHERN STATES GLASGCW COOP.		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-21-21M	20784	5.6	28.3	14.5*		107
6-12-18S	22064	16.1	13.9	20.7		161

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

SOUTHERN STATES GLASGOW COOP.		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
8- 8-13S	22069	13.5	12.3	17.8		149
14-12-12M	22066	24.0	12.7	12.5		141
16-10-15S	20785	16.4	10.3	15.7		103
17-15-17S	22065	17.2	14.7*	18.6		101
SOUTHERN STATES HARDIN COOP.		ELIZABETHTOWNKY.				
GRADE	NUM	N	APA	POT	XS CL	RV
6-26-26M	21754	6.6	25.2*	27.8		101
11-13-22M	21755	11.5	13.0*	24.6		103
14-14-14M	21753	15.2	15.0	13.8*		102
16-16- 9M	21752	18.3	15.2*	9.3*		104
17-17-17M	21751	17.8	16.8*	19.6		101
25- 6- 6M	21750	26.9	6.2*	5.7*		105
SOUTHERN STATES COOP., INC.		BALTIMORE			MD.	
GRADE	NUM	N	APA	POT	XS CL	RV
10- 5- 5M	22322	10.0	6.0	5.8		106
30- 0- 0	22218	31.9	0.0	0.0		106
SOUTHERN STATES COOP., INC.		BRISTOL			VA.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-10M	20833	5.4	10.5	11.1		107
10-20-20M	20834	10.6	18.9*	21.8		101
SOUTHERN STATES COOP., INC.		LOUISVILLE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-50S	20062	0.0	0.0	49.8		100
0- 0-50S	21758	0.0	0.0	51.1		102
0- 0-50S	22156	0.0	0.0	51.1		102
0- 0-60M	20061	0.0	0.0	60.0		100
0-15-30M W/B	21007	0.0	15.3	30.9		103
0-20- 0	20633	0.0	19.7	0.0		98
0-20- 0	22878	0.0	20.0	0.0		100
0-20-20M	19817	0.0	19.9	21.7		102
0-20-20M	19820	0.0	20.1	20.5		101
0-20-20M	19838	0.0	19.7	21.2		101
0-20-20M	20196	0.0	20.9	20.5		104
0-20-20M	20355	0.0	19.5*	21.7		101
0-20-20M	22127	0.0	20.5	21.9		105
0-20-20M	22167	0.0	20.3	21.0		102
0-20-20M	22470	0.0	20.6	21.9		105
0-46- 0	20063	0.0	46.2	0.0		101
0-46- 0	22461	0.0	47.7	0.0		104
3-12-12M	20718	3.7	11.9	13.5		108
3-12-12M	22128	3.9	12.4	12.2		108
3-12-12M	22365	3.5	12.1	13.6		107
4-12- 8M	19864	4.3	11.4*	8.4		100
4-12- 8M	19991	4.2	11.4*	8.6		100
4-12- 8M	20699	4.3	11.3*	8.8		101
4-12- 8M	20778	4.2	11.9	9.2		104
4-12- 8M	22320	4.7	11.1*	8.8		103
4-12- 8M	22838	4.3	11.7	9.1		103
4-12- 8M	22877	4.2	11.7	8.6		102
4-16- 4S	20075	4.5	15.9	4.5		104
4-16- 4S	20237	4.4	15.8	4.4		102
4-16- 4S	20727	4.8	16.6	4.6		109
4-16- 4S	20732	4.1	16.5	4.6		104
5-10-15S	20117	5.2	9.7	15.4		101
5-10-15S	20239	5.1	10.2	15.2		101
5-10-15S	20315	5.1	9.9	14.9		100
5-10-15S	20347	5.1	10.1	15.9		103

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		LOUISVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-10-15S	20357	5.1	10.0	15.4		101	
5-10-15S	20632	5.5	10.9	15.4		108	
5-10-15S	20635	5.5	10.5	15.9		107	
5-10-15S	20777	5.4	10.2	15.7		105	
5-10-15S	21004	5.4	10.5	15.7		106	
5-10-15S	21006	5.3	10.5	15.9		106	
5-10-15S	21013	5.0	10.5	15.8		104	
5-10-15S	21561	5.3	10.5	15.5		105	
5-10-15S	22298	5.8	10.2	15.5		106	
5-10-15S	22315	5.6	10.8	15.3		107	
5-10-15S	22332	5.6	10.7	15.7		107	
5-10-15S	22364	5.8	10.4	14.9		106	
5-10-15S	22449	5.3	10.4	15.8		105	
5-10-15S	22615	5.1	10.0	16.0		103	
5-10-15S	22733	5.1	10.1	15.5		102	
5-10-15S	22766	5.3	10.3	15.7		104	
5-10-20S	20240	5.1	10.4	19.6		101	
5-10-20S	22367	5.7	10.5	20.4		107	
5-20-20M	19837	5.2	20.0	20.5		101	
5-20-20M	20039	5.0	20.1	20.2		101	
5-20-20M	20316	5.2	20.6	21.4		104	
5-20-20M	20356	5.1	19.6	20.5		100	
5-20-20M	20637	6.0	19.7	21.1		105	
5-20-20M	21014	5.2	20.5	19.9		102	
5-20-20M	21560	5.2	19.9	19.9		101	
5-20-20M	21625	5.0	20.7	20.2		102	
5-20-20M	22047	5.8	20.6	20.7		106	
5-20-20M	22140	5.6	20.5	20.6		105	
5-20-20M	22366	5.1	22.1	19.8		106	
5-20-20M	22837	5.1	20.4	19.8		101	
6- 6-18S	21310	6.2	6.2	18.3		102	
6- 6-18S	21562	6.1	6.5	18.1		103	
6-12-12M	19933	6.7	12.1	11.9		104	
6-12-12M	19990	5.9	12.1	11.9		100	
6-12-12M	20386	6.3	12.4	12.2		104	
6-12-12M	20721	6.5	12.7	12.7		106	
6-12-12M	20739	6.5	12.0	13.0		104	
6-12-12M	21005	6.3	12.1	12.7		104	
6-12-12M	21101	6.5	12.6	12.3		105	
6-12-12M	21290	6.3	12.7	12.8		106	
6-12-12M	21558	6.3	12.5	12.5		104	
6-12-12M	21647	6.9	12.8	12.5		109	
6-12-12M	22363	6.8	12.5	13.0		108	
8-10-15S	21100	8.3	10.4	15.9		104	
8-10-15S	21289	8.3	10.2	16.1		104	
8-10-15S	21559	8.0	10.2	15.9		102	
8-10-15S	21684	8.6	10.1	16.1		105	
8-10-15S	21704	8.8	10.3	15.4		106	
8-10-15S	21737	8.4	10.1	16.0		104	
8-10-15S	22440	8.3	10.4	15.8		104	
8-10-15S	22448	8.6	10.7	15.4		106	
8-10-15S	22471	8.5	10.9	15.4		106	
8-10-15S	19821	9.6*	10.8	10.6		102	
10-10-10M	19822	10.4	10.2	10.2		103	
10-10-10M	20118	10.6	10.0	10.2		103	
10-10-10M	20344	10.8	10.1	10.7		105	
10-10-10M	20358	10.4	10.1	10.4		103	



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SOUTHERN STATES COOP., INC.		LOUISVILLE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
10-10-10M	20634	11.0	10.4	10.0		106
10-10-10M	20698	9.9	11.5	10.5		105
10-10-10M	20740	10.8	10.4	10.1		106
10-10-10M	20776	10.3	10.1	11.1		104
10-10-10M	21015	10.6	10.4	10.7		106
10-10-10M	21703	10.9	10.0	9.3*		103
10-10-10M	22296	10.5	10.7	10.1		105
10-10-10M	22314	10.4	10.4	10.7		104
10-10-10M	22450	9.5*	10.8	11.0		101
10-10-10M	22825	10.0	10.1	10.2		100
18-46- 0	20064	18.5	46.1	0.0		101
30- 0- 0	21152	30.6	0.0	0.0		102
30- 0- 0	21482	30.5	0.0	0.0		102
30- 0- 0	21483	30.4	0.0	0.0		101
SOUTHERN STATES COOP., INC.		RICHMOND			VA.	
GRADE	NUM	N	APA	POT	XS CL	RV
8-10-15S	21027	8.1	11.3	14.6		104
15-15-15M	21620	15.1	16.0	15.9		104
15-15-15M	22248	15.2	13.1*	17.4		99
15-15-15M	22669	15.9	14.6*	15.5		103
SOUTHERN STATES COOP., INC.		RUSSELLVILLE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0-15-30M	20387	0.0	15.6	31.0		103
0-15-30M W/B	21348	0.0	12.5*	30.4		92*
0-20- 0	22059	0.0	20.4	0.0		102
0-20- 0	22431	0.0	21.1	0.0		105
0-20- 0	22739	0.0	19.6	0.0		98
0-20-20M	22188	0.0	20.5	21.1		103
4-12- 8M	19775	4.7	12.0	9.9		110
4-12- 8M	19800	4.4	11.3*	8.6		100
4-12- 8M	19805	4.2	12.0	9.0		104
4-12- 8M	19955	4.8	12.0	8.3		106
4-12- 8M	20076	4.4	12.8	8.1		106
4-12- 8M	20209	4.0	12.1	8.9		103
4-12- 8M	20720	4.6	12.6	9.2		110
4-12- 8M	20882	4.7	12.1	8.7		107
4-12- 8M	21105	4.2	12.5	8.9		106
4-12- 8M	21117	4.5	11.9	9.2		106
4-12- 8M	21244	4.2	12.1	9.4		105
4-12- 8M	21346	4.6	12.0	8.8		106
5-10-15S	20079	5.5	9.9	14.9		102
5-10-15S	20208	5.4	10.1	15.9		104
5-10-15S	20249	5.5	10.0	15.2		103
5-10-15S	20270	5.4	9.7*	15.0		101
5-10-15S	20277	5.0	9.9	14.2*		98
5-10-15S	20470	6.0	10.0	14.3*		104
5-10-15S	20545	5.3	9.8	15.1		101
5-10-15S	20710	5.7	10.4	14.1*	*	104
5-10-15S	20805	6.6	10.3	13.9*	*	108
5-10-15S	20889	4.9	10.1	14.9		100
5-10-15S	21107	5.1	10.3	15.4		103
5-10-15S	21187	5.5	10.7	14.9		105
5-10-15S	21197	5.2	11.0	14.1*		103
5-10-15S	21229	5.3	9.9	15.7		103
5-10-15S	21245	5.2	9.9	15.4		101
5-10-15S	21410	5.6	9.7	15.4		104
5-10-15S	21514	5.3	10.0	15.3		102

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15S	21933	5.9	10.0	14.6		104
5-10-15S	22249	5.5	10.4	13.9*		103
5-10-15S	22280	5.5	10.5	15.4		106
5-10-15S	22660	5.3	10.1	15.4		103
5-10-15S	22685	5.2	10.3	15.0		103
5-10-15S	22829	4.9	10.1	15.6		101
5-15- 5M	20719	5.6	15.1	5.4		105
5-15- 5M	21759	5.0	14.8	5.2		100
5-15- 5M	21832	6.1	14.9	5.7		108
5-15- 5M	22244	5.8	15.2	5.2		106
5-15- 5M	22245	5.9	14.6	4.9		104
5-15- 5M	22321	5.9	15.0	5.1		106
5-15- 5M	22368	5.7	15.4	5.2		106
5-20-20M	19801	5.7	20.9	20.5		106
5-20-20M	19867	5.3	17.7*	22.9		99
5-20-20M	20078	5.3	19.0*	20.9		100
5-20-20M	20114	5.3	19.3*	20.2		100
5-20-20M	20172	5.1	21.3	20.7		105
5-20-20M	20210	5.5	19.9	21.9		104
5-20-20M	20248	5.4	19.8	19.6		100
5-20-20M	20664	5.2	20.3	21.1		103
5-20-20M	20807	6.0	20.3	19.6		104
5-20-20M	20881	5.4	19.8	20.4		102
5-20-20M	20890	5.9	21.5	20.5		108
5-20-20M	21108	5.7	20.1	21.7		105
5-20-20M	21116	5.5	20.1	21.0		103
5-20-20M	21162	5.3	20.4	21.0		103
5-20-20M	21184	5.4	18.9*	21.7		101
5-20-20M	21224	5.2	20.1	20.8		102
5-20-20M	21344	5.2	19.6	20.2		100
5-20-20M	21636	5.7	20.2	20.8		104
5-20-20M	21934	5.7	21.8	19.4*		107
5-20-20M	22168	5.3	19.0*	21.1		100
5-20-20M	22181	5.8	19.7	19.9		102
5-20-20M	22187	5.0	19.9	19.3*		99
5-20-20M	22214	5.9	20.4	19.2*		103
5-20-20M	22216	5.9	19.1*	19.7		101
5-20-20M	22236	5.9	19.7	21.0		104
5-20-20M	22432	5.8	20.5	19.2*		103
5-20-20M	22528	5.7	21.9	18.3*		106
5-20-20M	22595	5.2	20.7	19.1*		102
5-20-20M	22661	5.3	19.7	20.4		101
5-20-20M	22783	5.5	20.0	19.6		101
5-20-20M	22828	5.4	20.3	21.2		104
6-12-12M	19796	5.9	12.1	10.4*		97*
6-12-12M	19833	6.5	12.3	12.4		105
6-12-12M	19868	6.5	12.4	12.4		105
6-12-12M	19958	6.7	11.6*	13.6		105
6-12-12M	20004	6.4	11.9	12.6		103
6-12-12M	20077	6.5	11.8	13.6		105
6-12-12M	20112	6.4	11.2*	12.9		101
6-12-12M	20195	6.4	11.0*	13.3		101
6-12-12M	20308	6.6	11.7	12.3		103
6-12-12M	20469	6.5	11.9	13.4		105
6-12-12M	20666	6.8	11.8	13.3		106
6-12-12M	21098	6.4	12.1	12.5		104
6-12-12M	21186	6.5	12.1	13.3		106

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

SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	21309	6.5	11.8	12.4		103
6-12-12M	21345	6.4	12.6	13.6		107
6-12-12M	21515	6.3	12.1	12.3		103
6-12-12M	21993	6.7	11.8	12.3		104
6-12-12M	22180	6.9	12.1	13.0		108
6-12-12M	22189	6.8	11.8	13.3		106
6-12-12M	22215	6.8	12.1	12.9		107
6-12-12M	22234	6.9	12.3	12.3		106
6-18-12M	21097	6.3	18.8	11.1*		102
6-18-12M	22824	6.0	18.0	12.0		100
10-10-10M	19774	9.9	10.3	10.7		101
10-10-10M	19797	10.3	10.2	9.8		102
10-10-10M	19807	10.0	10.0	10.6		101
10-10-10M	19913	10.5	10.1	10.5		104
10-10-10M	19954	11.0	10.1	10.4		106
10-10-10M	19957	10.5	10.1	10.2		103
10-10-10M	20009	9.8	10.4	10.5		101
10-10-10M	20051	10.1	9.9	10.6		101
10-10-10M	20133	9.7	10.3	10.7		101
10-10-10M	20250	10.1	9.3*	11.4		101
10-10-10M	20307	10.0	10.2	10.2		101
10-10-10M	20370	10.2	10.0	10.8		102
10-10-10M	20391	9.4*	11.1	9.1*		99
10-10-10M	20546	9.5*	10.1	10.2		98
10-10-10M	20665	10.4	9.5*	10.8		102
10-10-10M	20880	10.8	9.8	10.8		105
10-10-10M	21115	10.1	10.1	11.2		103
10-10-10M	21165	9.7*	10.9	10.1		101
10-10-10M	21185	10.8	10.4	10.1		105
10-10-10M	21246	9.9	10.1	11.1		101
10-10-10M	21257	10.4	9.6*	11.1		102
10-10-10M	21347	9.7	10.2	10.8		100
10-10-10M	21464	9.9	10.3	10.7		101
10-10-10M	21637	10.3	9.9	10.4		102
10-10-10M	21760	10.1	10.1	11.0		102
10-10-10M	21820	10.1	10.3	9.5*		101
10-10-10M	21873	10.2	10.2	10.2		102
10-10-10M	22217	10.2	9.9	10.0		101
10-10-10M	22382	10.5	10.2	10.8		105
10-10-10M	22474	10.2	11.1	10.1		105
10-10-10M	22527	10.9	9.9	9.4*		103
10-10-10M	22636	9.8	10.3	10.8		101
10-10-10M	22713	9.5*	10.5	10.0		99
10-10-10M	22835	9.6*	10.3	10.2		99
12-12-12M	19785	12.3	12.4	11.3*		102
12-12-12M	19866	11.6*	11.7	12.8		99
12-12-12M	19989	11.7	11.9	12.1		98
12-12-12M	20040	11.9	12.6	11.4*		101
12-12-12M	20113	12.2	11.8	11.6*		100
12-12-12M	20251	11.9	11.9	12.4		100
12-12-12M	20318	12.1	11.3*	12.8		100
12-12-12M	20390	12.0	12.0	13.4		102
12-12-12M	20636	12.6	11.9	13.0		104
12-12-12M	20661	12.6	11.9	11.9		102
12-12-12M	20709	11.7	12.6	12.3		101
12-12-12M	20806	12.2	12.1	12.8		102
12-12-12M	21106	12.3	12.4	11.5*		101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
12-12-12M	21163	12.1	12.4	12.4		102
12-12-12M	21291	12.2	11.8	12.1		100
12-12-12M	21343	11.7	12.0	12.2		99
12-12-12M	22126	12.3	12.5	11.6*		102
12-12-12M	22169	11.9	12.5	11.6*		100
12-12-12M	22235	11.9	12.8	11.5*		101
12-12-12M	22439	12.3	12.1	12.7		102
12-12-12M	22635	11.9	12.3	11.7		100
12-12-12M	22734	11.9	12.1	12.0		100
12-12-12M	22744	12.0	11.3*	12.7		99
30- 0- 0	21964	31.8	0.0	0.0		106
SOUTHERN STATES COOP., INC.		WINCHESTER KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-15-30M W/B	21178	0.0	15.0	31.0		102
0-20- 0	20606	0.0	20.4	0.0		102
0-20-20M	21567	0.0	19.8	21.9		102
0-20-20M	21821	0.0	20.6	21.0		104
0-46- 0	20604	0.0	45.1*	0.0		98
4-12- 8M	19818	4.3	11.9	8.6		103
4-12- 8M	21569	4.4	12.5	8.8		107
4-16- 4S	20266	4.3	15.9	4.8		103
4-16- 4S	20298	4.4	16.2	4.6		104
5-10-15S	20185	5.2	10.3	14.9		103
5-10-15S	20299	5.3	10.0	15.2		102
5-10-15S	20753	5.7	9.5*	15.3		103
5-10-15S	20755	5.5	10.5	14.6*		104
5-10-15S	20774	6.0	9.7	15.1		105
5-10-15S	20825	5.4	10.5	15.5		106
5-10-15S	20863	5.2	10.5	15.7		105
5-10-15S	20932	5.5	10.5	15.2		105
5-10-15S	20970	5.7	10.2	14.9		105
5-10-15S	22596	5.2	10.2	15.5		103
5-20-20M	19806	4.6*	19.0*	20.2		96*
5-20-20M	19881	4.9	19.8	20.6		100
5-20-20M	19994	5.0	20.1	21.0		102
5-20-20M	20234	5.2	19.7	20.2		100
5-20-20M	20300	5.0	19.3*	21.4		100
5-20-20M	20765	5.2	21.1	20.7		105
5-20-20M	20826	5.0	20.3	21.0		102
5-20-20M	20971	5.6	19.1*	20.4		100
5-20-20M	21177	5.3	20.1	21.3		103
5-20-20M	21386	5.1	19.7	19.9		99
5-20-20M	21568	5.4	20.2	19.9		102
5-20-20M	21575	5.3	20.1	19.5*		101
6- 6-18S	20931	6.5	6.3	18.6		105
6- 6-18S	21003	6.6	6.7	18.0		107
6- 6-18S	21463	6.3	6.5	18.9		106
6- 6-18S	21618	6.0	6.3	18.2		102
6- 6-18S	22652	6.3	6.1	18.4		103
6- 8- 6S	20301	5.9	8.4	6.0		101
6- 8- 6S	20756	6.6	8.6	8.1		112
6- 8- 6S	21385	6.4	8.5	5.9		105
6-12-12M	19995	6.0	11.8	11.6*		99
6-12-12M	20754	7.4	11.6*	12.5		107
6-12-12M	20757	6.5	12.1	12.4		104
6-12-12M	21570	6.2	12.6	12.1		104
6-12-12M	22647	6.1	12.2	11.9		101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967-June 1968**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		WINCHESTER			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
8-10-15S	21198	8.5	10.3	15.7		105
8-10-15S	22383	8.9	10.4	14.6		106
10-10-10M	20758	10.5	10.0	11.1		104
10-10-10M	20972	10.3	10.0	10.5		102
10-10-10M	21384	10.3	10.0	10.7		102
12-12-12M	20827	11.9	12.1	13.0		101
33- 0- 0	20603	34.8	0.0	0.0		104
STANLEY CROP SERVICE		STANLEY			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	22508	5.3	20.2	20.1		102
5-20-20M	22514	4.5*	16.0*	20.1		87*
6-12-18S	21440	6.3	16.2	14.4*	*	109
6-15-40M	21435	6.9	16.9	37.7*		105
6-15-40M	22509	6.5	16.3	39.5		104
6-24-24M	22505	5.6*	24.3	23.1*		98
6-24-24M	22507	6.0	22.0*	25.4		97*
6-26-26M	22506	8.2	31.4	20.8*		112
12-12-12M	21436	13.7	23.5	9.8*		136
STERNS NURSERIES INC.		GENEVA			N.Y.	
GRADE	NUM	N	APA	POT	XS CL	RV
15-30-15M	22765	15.2	30.7	16.6		103
30-10-10M	22764	30.2	10.6	11.2		102
STEWART FERTILIZER SERVICE		MT. VERNON			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15S	20493	3.5*	6.7*	14.4*		77*
5-10-15S	21211	5.1	10.2	14.4*		100
5-20-20M	20492	5.3	19.9	20.6		102
5-20-20M	22391	5.8	20.2	21.8		106
5-20-20M	22874	5.0	19.9	20.6		101
10-10-10M	20491	9.7*	9.1*	10.0		95*
10-10-10M	21212	10.8	10.9	9.9		107
10-10-15S	22390	11.7	11.0	15.5		112
SWIFT & COMPANY		GREENEVILLE			OHIO	
GRADE	NUM	N	APA	POT	XS CL	RV
6-10- 4M	21722	6.5	10.5	4.8		108
12- 5- 7M W/ME	21731	13.0	5.5	7.4		108
SWIFT & COMPANY		NAT STOCKYDS			ILL.	
GRADE	NUM	N	APA	POT	XS CL	RV
6-10- 4M	21318	6.0	10.4	5.5		105
10- 6- 4M	21064	10.0	6.1	7.8		108
10- 6- 4M	21707	10.8	6.8	4.7		110
10-10-10M	20731	10.2	10.3	10.7		103
20-10- 5M	21706	20.0	10.8	4.8		102
TENNESSEE CORPORATION		NEW ALBANY			IND.	
GRADE	NUM	N	APA	POT	XS CL	RV
4-12- 8M	21032	4.5	12.1	8.7		106
4-16- 4S	20922	4.1	15.8	5.3	*	103
5-10-15S	21033	5.7	10.3	16.1		108
5-10-15S	22323	5.6	10.9	15.5		108
TENNESSEE FARMERS COOP.		LAVERGNE			TENN	
GRADE	NUM	N	APA	POT	XS CL	RV
15-15-15M	19857	15.4	14.8	16.2		102
TOMPKINSVILLE FERTILIZER CO.		TOMPKINSVILLE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15S	22186	5.7	9.9	15.2		104
5-20-20M	22185	7.0	23.6	20.4		118
10- 8-12S	22184	10.2	8.6	13.9		103

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1967 - June 1968**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

TOBACCO STATES CHEMICAL CO.		LEXINGTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
7-14-7M	22619	7.5	14.5	7.1			105
UNION FERTILIZER CO.		MORGANFIELD		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
21-13-13M	21952	22.6	13.5	14.0			104
VALLEY COUNTIES OF KY. COOP.		BENTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-20-20M	22264	6.5	23.5	20.4			116
6-24-24M	20900	6.4	24.2	24.3			102
6-24-24M	21611	6.2	24.4	23.7			101
6-24-24M	22263	6.9	25.8	23.5*			106
10-20-20M	22817	10.0	21.2	20.1			103
12-12-12M	19851	12.5	12.4	12.4			104
16-16-16M	19929	16.7	17.8	15.6			106
16-16-16M	20038	16.4	17.4	16.0			104
16-16-16M	21612	16.3	16.4	16.0			102
16-16-16M	22816	16.7	15.6	15.9			101
WARNER FERTILIZER COMPANY		SOMERSET		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
4-12-8M	21513	5.6	16.2	9.9			134
5-10-15S	20121	5.0	10.6	14.9			102
5-10-15S	21512	4.9	11.1	12.6*			99
5-20-20M	19802	4.4*	18.9*	21.3			96*
5-20-20M	21511	5.3	19.8	18.4*			98
6-24-24M	20122	5.7*	22.0*	27.5			98
10-10-10M	19803	8.1*	8.6*	12.9			90*
10-10-10M	20120	8.5*	10.1	12.1			96*
10-10-10M	20144	12.9	14.2	8.6*			126
10-10-10M	21838	9.0*	10.9	11.0			99
12-24-24M	20654	10.7*	19.1*	30.8			94*
12-24-24M	21837	12.7	23.1*	24.8			101
15-15-15M	20653	13.3*	16.6	17.4			100

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

SAMPLE NUMBER	MANUFACTURER, BRAND NAME	PHOSPHORIC ACID				PERCENT OF RELATIVE VALUE FOUND
		AVAILABLE GUAR.	FOUND	TOTAL GUAR.	FOUND	
<u>Thompson Sales Company</u>						
20362	Calphos	2.0	3.0	18.0	22.3	123
20733	Calphos	2.0	4.0	18.0	24.6	137
21349	Calphos	2.0	2.9	18.0	18.8	104
22688	Calphos	2.0	3.7	18.0	22.1	122

TABLE 3 - Analyses of Inspection Samples of Organic Material.

SAMPLE NUMBER	MANUFACTURER, BRAND NAME	NITROGEN	PHOSPHORIC ACID		SOLUBLE POTASH	PERCENT OF RELATIVE VALUE FOUND
			AVAILABLE	TOTAL		
<u>Agrico Chemical Co.</u>						
20923	7-0-0 Agrinite	7.8	---	---	---	111
22883	7-0-0 Agrinite	7.7	---	---	---	111
<u>Armour Agri. Chem. Co.</u>						
20536	5-5-0 Armorganic	4.7	6.5	---	---	100
21619	5-5-0 Armorganic	5.4	5.8	---	---	109
21691	5-5-0 Armorganic	6.0	5.9	---	---	120
21939	5-5-0 Armorganic	6.0	6.2	---	---	120
22610	5-5-0 Armorganic	5.1	5.7	---	---	104
<u>Burley Belt Fertilizer Co.</u>						
21176	7-0-0 Burl-Organic	7.7	---	---	---	109
21705	7-0-0 Burl-Organic	7.0	---	---	---	100
<u>Sewerage Commission, City of Milwaukee</u>						
20129	6-3-0 Milorganite	5.9	4.7	---	---	104
<u>International Minerals &amp; Chemical Corp.</u>						
20540	5-5-0 Mello-Green	5.5	7.7	---	---	118

TABLE 4 - Results of Analyses of Boron in Fertilizer Samples Reported in Table 1.  
An Asterisk Indicates the Sample was Deficient and "M" Indicates Misbranded.

COMPANY AND PLANT	SAMPLE NUMBER	GRADE	GUARANTEE	FOUND
Armour Agri. Chem. Co. Atlanta, Ga.	21779	0-25-25	0.57	0.59
	22867	0-25-25	0.57	0.75
Burley Belt Fert. Co. Lexington, Ky.	19983	5- 1-21	0.27	0.24*
	20230	0- 0-57	0.56	0.63
Burley Belt Fert. Co. London, Ky.	20252	0-19-38	0.40	0.18*
	20257	0-25-25	0.85	0.76*
	21125	0-10-30	0.50	0.37*
Farmsco of Kentucky Gracey, Ky.	90748	2- 8-26	0.31	0.26*
Federal Chemical Co. Louisville, Ky.	22687	0-10-30	0.57	0.54
Frasier Supply Co. Glasgow, Ky.	21374	5-20-20	0.38	0.45
Glasgow Fertilizer Co. Glasgow, Ky.	21145	0- 0-60	0.57	0.57
W. R. Grace & Co. New Albany, Ind.	20597	0-13-39	0.50	0.90
Gro-Green Chemical Co., Inc. Shelbyville, Ky.	21336	8-12-15	0.10	0.10
	21771	8-12-15	0.10	0.43M
	21917	0-17-35	0.55	0.37*
	22740	8-12-15	0.10	0.11
Mobil Chemical Co. Richmond, Va.	19756	0-19-19	0.57	0.55
	19757	0-10-30	0.57	0.14*
North American Fert. Co. Louisville, Ky.	22142	0-20-20	0.56	0.45*
Southern States Coop., Inc. Louisville, Ky.	21007	0-15-30	0.45	0.51
Southern States Coop., Inc. Russellville, Ky.	21348	0-15-30	0.45	0.42
Southern States Coop., Inc. Winchester, Ky.	21178	0-15-30	0.45	0.37*



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

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
ARMOUR AGRICULTURAL CHEMICAL COMPANY, ATLANTA, GA.				
20203	10- 6- 4	MAGNESIUM	1.2000	1.5700
20652	25- 5-10	MAGNESIUM	1.2000	2.7000 M
21725	10- 6- 4	MAGNESIUM	1.2000	1.6000
22857	12- 4- 8	MAGNESIUM	1.2000	0.7800 *
22857	12- 4- 8	COPPER	.0500	0.0340 *
20203	10- 6- 4	IRON	.1000	1.0400
20652	25- 5-10	IRON	.1000	1.0000
21725	10- 6- 4	IRON	.1000	2.0300
22857	12- 4- 8	IRON	.1000	0.4100
22857	12- 4- 8	ZINC	.0500	0.0560
BLUEGRASS PLANT FOODS, INC., CYNTHIANA, KY.				
21402	8-10-15	MAGNESIUM	1.2000	0.8200 *
21589	6-12-18	MAGNESIUM	1.2000	1.2700
21588	13- 7-11	ZINC	.22	0.1900
BLUEGRASS PLANT FOODS, INC., DANVILLE, KY.				
21468	8- 6-18	MAGNESIUM	1.2000	1.2000
21602	7- 5-17	MAGNESIUM	1.1900	1.0700 *
BURLEY BELT FERTILIZER COMPANY, LEXINGTON, KY.				
21400	6-12-18	MAGNESIUM	2.0000	1.8500
21501	6-12-18	MAGNESIUM	2.0000	1.8000 *
22035	6-12-18	MAGNESIUM	2.0000	2.8000
COMMONWEALTH FERTILIZER COMPANY, RUSSELLVILLE, KY.				
20045	6-21-18	MAGNESIUM	0.5000	0.3200 *
20419	6-12-12	MAGNESIUM	0.5000	0.9200
20426	6-12-18	MAGNESIUM	0.5000	0.2700 *
21358	7-21-10	MAGNESIUM	0.5000	0.3700 *
22014	7-21-10	MAGNESIUM	0.5000	0.3200 *
22016	8-12-15	MAGNESIUM	0.5000	0.4800
22018	6-12-18	MAGNESIUM	0.5000	1.4000 M
22118	6-12-12	MAGNESIUM	0.5000	0.8700
22119	8-12-15	MAGNESIUM	0.5000	0.4300 *
22121	7-21-10	MAGNESIUM	0.5000	0.2700 *
22752	7-21-10	MAGNESIUM	0.5000	0.3200 *
20045	6-21-18	IRON	.1000	0.5800
20419	6-12-12	IRON	.1000	0.2900
20426	6-12-18	IRON	.1000	0.6000
21358	7-21-10	IRON	.1000	0.6000
22014	7-21-10	IRON	.1000	0.5400
22016	8-12-15	IRON	.1000	0.2700
22018	6-12-18	IRON	.1000	0.2800
22118	6-12-12	IRON	.1000	0.2700
22119	8-12-15	IRON	.1000	0.3000
22121	7-21-10	IRON	.1000	0.5700
22752	7-21-10	IRON	.1000	0.5000
20045	6-21-18	MANGANESE	0.0500	1.2200 M
20419	6-12-12	MANGANESE	0.0500	0.0160 *
20426	6-12-18	MANGANESE	0.0500	0.3600 M
21358	7-21-10	MANGANESE	0.0500	0.4000 M
22014	7-21-10	MANGANESE	0.0500	0.9100 M
22016	8-12-15	MANGANESE	0.0500	0.0960
22018	6-12-18	MANGANESE	0.0500	0.0430

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
COMMONWEALTH FERTILIZER COMPANY, RUSSELLVILLE, KY. (Cont'd)				
22118	6-12-12	MANGANESE	0.0500	0.0510
22119	8-12-15	MANGANESE	0.0500	0.0900
22121	7-21-10	MANGANESE	0.0500	0.6200 M
22752	7-21-10	MANGANESE	0.0500	1.0000 M
20045	6-21-18	ZINC	.0500	0.0590
20419	6-12-12	ZINC	.0500	0.0280 *
20426	6-12-18	ZINC	.0500	0.2200 M
21358	7-21-10	ZINC	.0500	0.6200 M
22014	7-21-10	ZINC	.0500	1.0000 M
22016	8-12-15	ZINC	.0500	0.7000 M
22018	6-12-18	ZINC	.0500	0.0580
22118	6-12-12	ZINC	.0500	0.0580
22119	8-12-15	ZINC	.0500	0.6800 M
22121	7-21-10	ZINC	.0500	0.2400 M
22752	7-21-10	ZINC	.0500	1.0000 M
FEDERAL CHEMICAL COMPANY, HUMBOLDT, TENN.				
19784	5-25-15	MAGNESIUM	2.0000	2.0400
21613	10-10-15	MAGNESIUM	1.5000	1.9500
21969	5-25-15	MAGNESIUM	2.0000	2.5000
22277	4-12-16	MAGNESIUM	3.0000	3.1000
22812	4-12-16	MAGNESIUM	3.0000	3.5000
19784	5-25-15	COPPER	.0500	0.0390 *
21613	10-10-15	COPPER	.0500	0.0420
21969	5-25-15	COPPER	.0500	0.0330 *
22277	4-12-16	COPPER	.0500	0.0470
22812	4-12-16	COPPER	.0500	0.0250 *
19784	5-25-15	IRON	.1000	0.6900
21969	5-25-15	IRON	.1000	0.8300
19784	5-25-15	ZINC	.5000	0.4000 *
21613	10-10-15	ZINC	.0500	0.0670
21969	5-25-15	ZINC	.5000	0.4100
22277	4-12-16	ZINC	.5000	0.5100
22812	4-12-16	ZINC	.5000	0.4800
FEDERAL CHEMICAL COMPANY, LOUISVILLE, KY.				
20334	12-12-12	MAGNESIUM	2.0000	1.6500 *
20337	5-25-15	MAGNESIUM	2.0000	2.5500
20630	10-10-15	MAGNESIUM	1.5000	1.9200
20794	10-10-15	MAGNESIUM	1.5000	1.8200
21253	12-12-12	MAGNESIUM	2.0000	0.9500 *
21574	10-10-15	MAGNESIUM	1.5000	1.2500 *
21834	10-10-15	MAGNESIUM	1.5000	2.4200
22359	10-10-15	MAGNESIUM	1.5000	2.9000
22566	10-10-15	MAGNESIUM	1.5000	1.8700
22570	10-10-15	MAGNESIUM	1.5000	2.1200
20337	5-25-15	COPPER	.0500	0.0360 *
20630	10-10-15	COPPER	.0500	0.3000 M
20794	10-10-15	COPPER	.0500	0.0360 *
21574	10-10-15	COPPER	.5000	0.0290 *
21834	10-10-15	COPPER	.0500	0.0330 *
22359	10-10-15	COPPER	.0500	0.0330 *
22566	10-10-15	COPPER	.0500	0.0300 *
22570	10-10-15	COPPER	.0500	0.0410
20337	5-25-15	IRON	.1000	0.8100
20334	12-12-12	ZINC	.0500	0.0550

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
FEDERAL CHEMICAL COMPANY, LOUISVILLE, KY. (Cont'd)				
20337	5-25-15	ZINC	.5000	0.4000 *
20630	10-10-15	ZINC	.0500	0.0380 *
20794	10-10-15	ZINC	.0500	0.0440
21253	12-12-12	ZINC	.0500	0.0510
21574	10-10-15	ZINC	.0500	0.0440
21834	10-10-15	ZINC	.0500	0.0420
22359	10-10-15	ZINC	.0500	0.0400
22566	10-10-15	ZINC	.0500	0.0450
22570	10-10-15	ZINC	.0500	0.0470
FRANKLIN CROP SERVICE, FRANKLIN, KY.				
20582	8-12-15	MAGNESIUM	0.5000	0.4000 *
20582	8-12-15	IRON	.1000	0.3000
20582	8-12-15	MANGANESE	0.0500	0.0660
20582	8-12-15	ZINC	.0500	0.8200 M
FRASIER SUPPLY COMPANY, GLASGOW, KY.				
22417	6-12-18	MAGNESIUM	2.0000	3.7000
22417	6-12-18	COPPER	.0500	0.0680
22417	6-12-18	IRON	.1000	0.2400
22417	6-12-18	ZINC	.0500	0.9400 M
GLASGOW FERTILIZER COMPANY, GLASGOW, KY.				
20940	5-10-15	MAGNESIUM	1.0000	1.4500
21370	5-10-15	MAGNESIUM	1.0000	1.4200
22078	5-10-15	MAGNESIUM	1.0000	1.4700
22696	5-10-15	MAGNESIUM	1.0000	1.7500
W. R. GRACE & COMPANY, NEW ALBANY, IND.				
20283	6-38- 6	MAGNESIUM	0.5000	0.8300
20581	6-38- 6	MAGNESIUM	0.5000	0.8700
21350	6-38- 6	MAGNESIUM	0.5000	0.8900
21425	6-38- 6	MAGNESIUM	0.5000	0.8400
21446	6-38- 6	MAGNESIUM	0.3000	0.8600
20283	6-38- 6	MANGANESE	0.5000	0.4700
20581	6-38- 6	MANGANESE	0.5000	0.5200
21350	6-38- 6	MANGANESE	0.0500	0.4400 M
21425	6-38- 6	MANGANESE	0.5000	0.4900
21446	6-38- 6	MANGANESE	0.5000	0.5700
20283	6-38- 6	ZINC	1.5000	1.5000
20581	6-38- 6	ZINC	1.5000	1.4900
21350	6-38- 6	ZINC	1.5000	1.4000
21425	6-38- 6	ZINC	1.5000	1.4500
21446	6-38- 6	ZINC	1.5000	1.5000
GRO-GREEN CHEMICAL COMPANY, SHELBYVILLE, KY.				
21333	8-24-10	MAGNESIUM	1.0000	1.4700
21336	8-12-15	MAGNESIUM	2.0000	2.5500
21771	8-12-15	MAGNESIUM	2.0000	3.0000
22301	8-24-10	MAGNESIUM	1.0000	1.5000
22413	8-14-14	MAGNESIUM	0.2200	2.2000 M
22740	8-12-15	MAGNESIUM	2.0000	2.7000

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
GULF OIL CORP., AGRI CHEM DIV., HENDERSON, KY.				
20872	4-10-15	MAGNESIUM	1.5000	1.7000
22711	4-10-15	MAGNESIUM	1.5000	1.7000
20872	4-10-15	COPPER	.1000	0.0510 *
22711	4-10-15	COPPER	.2000	0.0640 *
20872	4-10-15	IRON	.2000	0.4600
22711	4-10-15	IRON	.2000	0.4200
20872	4-10-15	MANGANESE	0.1500	0.0210 *
22711	4-10-15	MANGANESE	0.1500	0.2560
HERITAGE HOUSE PRODUCTS, INC., CLEVELAND, OHIO				
21708	21- 6-11	COPPER	.0500	0.0420
21708	21- 6-11	IRON	.1000	0.2100
21708	21- 6-11	MANGANESE	0.0500	0.0420
21708	21- 6-11	ZINC	.0500	0.0390 *
INTERNATIONAL MINERALS & CHEMICAL CORP., CLARKSVILLE, TENN.				
20907	5-20-20	MAGNESIUM	1.6910	0.9500 *
21847	5-10-15	MAGNESIUM	1.6910	2.8000
21847	5-10-15	COPPER	.0600	0.0320 *
20907	5-20-20	IRON	.4270	0.5000
21847	5-10-15	IRON	.4270	0.4600
20907	5-20-20	MANGANESE	0.1620	0.0210 *
21847	5-10-15	MANGANESE	0.1620	0.1940
20907	5-20-20	ZINC	.4800	0.0130 *
KERR-MCGEE FARM CENTER, GUTHRIE, KY.				
4910 22797	5-15-30	MAGNESIUM	2.0000	2.6000
4910 22797	5-15-30	ZINC	.0300	0.3000 M
KERR-MCGEE FARM CENTER, PEMBROKE, KY.				
21075	4-24-12	MAGNESIUM	4.0000	5.8600
21076	5-15-30	MAGNESIUM	2.0000	3.6700
21080	8-12-20	MAGNESIUM	4.2500	6.8800
22100	4-24-12	MAGNESIUM	4.0000	4.4000
22101	5-15-30	MAGNESIUM	2.0000	2.9000
21075	4-24-12	ZINC	.5000	0.7200
21076	5-15-30	ZINC	.3000	0.4400
22100	4-24-12	ZINC	.5000	0.5700
22101	5-15-30	ZINC	.3000	0.2700
MOBIL CHEMICAL CO., AGRI CHEM DIV., RICHMOND, VA.				
19975	10-10-10	MAGNESIUM	0.5000	0.3200 *
19977	5-20-20	MAGNESIUM	0.5000	0.4800
19978	6-18-12	MAGNESIUM	0.5000	0.3300 *
20047	6-18-12	MAGNESIUM	0.5000	0.4600
20048	6-12-18	MAGNESIUM	0.0500	0.4900 M
20049	5-20-20	MAGNESIUM	0.5000	0.6600
20448	5-10-15	MAGNESIUM	0.5000	0.2200 *
20449	10-10-10	MAGNESIUM	0.5000	0.3500 *
20642	6-12-18	MAGNESIUM	0.5000	0.1500 *
20685	4-16- 4	MAGNESIUM	0.5000	0.5800
21056	6-12-18	MAGNESIUM	0.5000	0.1600 *
21164	10-10-10	MAGNESIUM	0.5000	0.4600
21210	6-12-18	MAGNESIUM	0.5000	0.1700 *

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
MOBIL CHEMICAL CO., AGRI CHEM DIV., RICHMOND, VA. (Cont'd)				
21228	6-12-18	MAGNESIUM	0.5000	0.2400 *
21238	6-12-18	MAGNESIUM	0.0500	0.4900 M
22045	6-12-18	MAGNESIUM	0.5000	0.1400 *
22182	6-12-18	MAGNESIUM	0.5000	0.5300
22271	6-12-18	MAGNESIUM	0.5000	0.4600
22421	6-12-18	MAGNESIUM	0.5000	0.5100
22422	5-20-20	MAGNESIUM	0.5000	0.2800 *
22423	4-12- 8	MAGNESIUM	0.5000	0.7000
22426	6-12-18	MAGNESIUM	0.5000	0.5300
22552	6-12-18	MAGNESIUM	0.5000	0.4500 *
22560	5-20-20	MAGNESIUM	0.5000	0.3800 *
22725	5-10-15	MAGNESIUM	0.5000	0.4400 *
22755	6-12-18	MAGNESIUM	0.5000	0.1400 *
19975	10-10-10	COPPER	.0500	0.0300 *
19977	5-20-20	COPPER	.0500	0.0240 *
19978	6-18-12	COPPER	.0500	0.0100 *
20047	6-18-12	COPPER	.0500	0.0520
20048	6-12-18	COPPER	.0500	0.0350 *
20049	5-20-20	COPPER	.0500	0.0490
20448	5-10-15	COPPER	.0500	0.0530
20449	10-10-10	COPPER	.0500	0.0410
20642	6-12-18	COPPER	.0500	0.0 *
20685	4-16- 4	COPPER	.0500	0.0550
21056	6-12-18	COPPER	.0500	0.0170 *
21164	10-10-10	COPPER	.0500	0.0450
21210	6-12-18	COPPER	.0500	0.0240 *
21228	6-12-18	COPPER	.0500	0.0400
21238	6-12-18	COPPER	.0500	0.0380 *
22045	6-12-18	COPPER	.0500	0.0180 *
22182	6-12-18	COPPER	.0500	0.0480
22271	6-12-18	COPPER	.0500	0.0420
22421	6-12-18	COPPER	.0500	0.0450
22422	5-20-20	COPPER	.0500	0.0330 *
22423	4-12- 8	COPPER	.0500	0.0039 *
22426	6-12-18	COPPER	.0500	0.0410
22552	6-12-18	COPPER	.0500	0.0410
22560	5-20-20	COPPER	.0500	0.0320 *
22725	5-10-15	COPPER	.0500	0.0340 *
22755	6-12-18	COPPER	.0500	0.0210 *
19975	10-10-10	IRON	.1000	0.4400
19977	5-20-20	IRON	.1000	0.7400
19978	6-18-12	IRON	.1000	1.0400
20047	6-18-12	IRON	.1000	0.9000
20048	6-12-18	IRON	.1000	0.6200
20049	5-20-20	IRON	.1000	0.7200
20448	5-10-15	IRON	.1000	0.4000
20449	10-10-10	IRON	.1000	0.9100
20642	6-12-18	IRON	.1000	0.4000
20685	4-16- 4	IRON	.1000	0.5900
21056	6-12-18	IRON	.1000	0.4400
21164	10-10-10	IRON	.1000	0.4200
21210	6-12-18	IRON	.1000	0.4200
21228	6-12-18	IRON	.1000	0.4900
21238	6-12-18	IRON	.1000	0.5900
22045	6-12-18	IRON	.1000	0.4000
22182	6-12-18	IRON	.1000	0.4100

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
MOBIL CHEMICAL CO., AGRI CHEM DIV., RICHMOND, VA. (Cont'd)				
22271	6-12-18	IRON	.1000	0.4400
22421	6-12-18	IRON	.1000	0.4100
22422	5-20-20	IRON	.1000	0.7000
22423	4-12- 8	IRON	.1000	0.5700
22426	6-12-18	IRON	.1000	0.4200
22552	6-12-18	IRON	.1000	0.4300
22560	5-20-20	IRON	.1000	0.6700
22725	5-10-15	IRON	.1000	0.4000
22755	6-12-18	IRON	.1000	0.4200
19975	10-10-10	MANGANESE	0.0500	0.0490
19977	5-20-20	MANGANESE	0.0500	0.0550
19978	6-18-12	MANGANESE	0.0500	0.0660
20047	6-18-12	MANGANESE	0.0500	0.0950
20048	6-12-18	MANGANESE	0.0500	0.0640
20049	5-20-20	MANGANESE	0.0500	0.0680
20448	5-10-15	MANGANESE	0.0500	0.0560
20449	10-10-10	MANGANESE	0.0500	0.0990
20642	6-12-18	MANGANESE	0.0500	0.0110 *
20685	4-16- 4	MANGANESE	0.0500	0.0550
21054	3-10-30	MANGANESE	1.5400	0.2000 *
21056	6-12-18	MANGANESE	0.0500	0.0210 *
21164	10-10-10	MANGANESE	0.0500	0.0590
21210	6-12-18	MANGANESE	0.0500	0.0110 *
21228	6-12-18	MANGANESE	0.0500	0.0540
21238	6-12-18	MANGANESE	0.0500	0.0610
22045	6-12-18	MANGANESE	0.0500	0.0330 *
22182	6-12-18	MANGANESE	0.0500	0.0490
22271	6-12-18	MANGANESE	0.0500	0.0570
22421	6-12-18	MANGANESE	0.0500	0.5100 M
22422	5-20-20	MANGANESE	0.0500	0.5500 M
22423	4-12- 8	MANGANESE	0.0500	0.5200 M
22426	6-12-18	MANGANESE	0.0500	0.5400 M
22552	6-12-18	MANGANESE	0.0500	0.0500
22560	5-20-20	MANGANESE	0.0500	0.0410
22725	5-10-15	MANGANESE	0.0500	0.0460
22755	6-12-18	MANGANESE	0.0500	0.0270 *
22756	3-10-30	MANGANESE	1.5000	1.5000
19975	10-10-10	ZINC	.0500	0.0190 *
19977	5-20-20	ZINC	.0500	0.0170 *
19978	6-18-12	ZINC	.0500	0.0100 *
20047	6-18-12	ZINC	.0500	0.0380 *
20048	6-12-18	ZINC	.0500	0.0410
20049	5-20-20	ZINC	.0500	0.0560
20448	5-10-15	ZINC	.0500	0.0600
20449	10-10-10	ZINC	.0500	0.0410
20642	6-12-18	ZINC	.0500	0.0100 *
20685	4-16- 4	ZINC	.0500	0.0410
21056	6-12-18	ZINC	.0500	0.0200 *
21164	10-10-10	ZINC	.0500	0.0290 *
21210	6-12-18	ZINC	.0500	0.0050 *
21228	6-12-18	ZINC	.0500	0.0360 *
21238	6-12-18	ZINC	.0500	0.0360 *
22045	6-12-18	ZINC	.0500	0.0220 *
22182	6-12-18	ZINC	.0500	0.0410
22271	6-12-18	ZINC	.0500	0.0370 *

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
OBIL CHEMICAL CO., AGRI CHEM DIV., RICHMOND, VA. (Cont'd)				
22421	6-12-18	ZINC	.0500	0.0420
22422	5-20-20	ZINC	.0500	0.0210 *
22423	4-12- 8	ZINC	.0500	0.0060 *
22426	6-12-18	ZINC	.0500	0.0550
22552	6-12-18	ZINC	.0500	0.0410
22560	5-20-20	ZINC	.0500	0.0230 *
22725	5-10-15	ZINC	.0500	0.0370 *
22755	6-12-18	ZINC	.0500	0.0360 *
NORTH AMERICAN FERTILIZER COMPANY, LOUISVILLE, KY.				
21983	9- 9-17	MAGNESIUM	1.2000	1.5200
22146	7-22-14	MAGNESIUM	1.2000	1.7500
22149	9- 9-17	MAGNESIUM	1.2000	1.6500
20361	8-10-15	COPPER	.0500	0.0320 *
20361	8-10-15	IRON	.1000	0.3200
20361	8-10-15	MANGANESE	0.0500	0.1100 M
21983	9- 9-17	MANGANESE	0.2700	0.1520 *
22149	9- 9-17	MANGANESE	0.2700	0.1900 *
20361	8-10-15	ZINC	.0500	0.0390 *
21983	9- 9-17	ZINC	.2500	0.2000 *
22146	7-22-14	ZINC	.5400	0.6200
22149	9- 9-17	ZINC	.2500	0.2600
OHIO VALLEY FERTILIZER, INC., MAYSVILLE, KY.				
20490	6-12-18	MAGNESIUM	1.0000	0.1900 *
20571	10-10-20	MAGNESIUM	1.0000	0.2400 *
20768	10-10-20	MAGNESIUM	1.0000	0.1600 *
21023	10-10-20	MAGNESIUM	1.0000	0.3200 *
21024	5-10-20	MAGNESIUM	1.0000	0.3300 *
21598	10-10-20	MAGNESIUM	1.0000	0.5200 *
21599	10-10-20	MAGNESIUM	1.0000	0.3700 *
21600	10-10-20	MAGNESIUM	1.0000	0.2000 *
21601	10-10-20	MAGNESIUM	1.0000	0.2600 *
21898	10-10-20	MAGNESIUM	1.0000	0.4700 *
21899	5-10-20	MAGNESIUM	1.0000	0.3300 *
OYSTER COMPANY, NORFOLK, VA.				
20027	6-12-12	MAGNESIUM	0.6000	0.6500
20028	8-24- 8	MAGNESIUM	0.5000	0.6400
20033	10-10-10	MAGNESIUM	0.5000	0.9800
20082	6-12-12	MAGNESIUM	0.6000	0.9000
20095	6-12-12	MAGNESIUM	0.6000	0.9500
20152	5-10-15	MAGNESIUM	1.2000	1.2500
20171	5-10-15	MAGNESIUM	1.2000	1.0000 *
20178	10-10-10	MAGNESIUM	0.5000	0.5400
20200	6-12-12	MAGNESIUM	0.6000	0.8700
20211	5-10-15	MAGNESIUM	1.2000	1.0000 *
20265	4-16- 4	MAGNESIUM	1.2000	1.0200 *
20303	10-10-15	MAGNESIUM	1.2000	1.2300
20304	5-10-15	MAGNESIUM	1.2000	1.1000
20305	3-12-12	MAGNESIUM	0.6000	1.4500 M
20329	6-12-12	MAGNESIUM	0.6000	0.7200
20349	5-10-15	MAGNESIUM	1.2000	1.2200
20350	6-12-12	MAGNESIUM	0.6000	0.8700

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
ROYSTER COMPANY, NORFOLK, VA. (Cont'd)				
20372	5-10-15	MAGNESIUM	1.2000	1.6700
20379	5-10-15	MAGNESIUM	1.2000	1.8000
20380	6-12-12	MAGNESIUM	0.6000	1.0700
20381	4-12- 8	MAGNESIUM	0.6000	1.5500 M
20437	5-10-15	MAGNESIUM	1.2000	1.1000
20438	5-10-15	MAGNESIUM	1.2000	1.0700 *
20439	4-12- 8	MAGNESIUM	0.6000	1.4600 M
20440	6-12-12	MAGNESIUM	0.6000	1.2000 M
20443	10-10-15	MAGNESIUM	1.2000	1.3500
20496	4-12- 8	MAGNESIUM	0.6000	1.0600
20531	6-12-12	MAGNESIUM	0.6000	0.6600
20598	6-12-12	MAGNESIUM	0.6000	0.9100
20788	5-10-15	MAGNESIUM	1.2000	1.5000
20791	6-12-12	MAGNESIUM	0.6000	0.8900
20803	10-10-15	MAGNESIUM	1.2000	1.1500
20804	5-10-15	MAGNESIUM	1.2000	0.9500 *
20818	4-16- 4	MAGNESIUM	1.2000	1.3200
20819	6-12-12	MAGNESIUM	0.6000	0.8300
20820	10-10-15	MAGNESIUM	1.2000	1.4000
20821	5-10-15	MAGNESIUM	1.2000	1.1300
20981	6-12-12	MAGNESIUM	0.6000	0.5400 *
20982	0-20-20	MAGNESIUM	0.6000	0.7600
20988	6-12-12	MAGNESIUM	0.6000	0.7100
20994	6- 6-18	MAGNESIUM	1.2000	0.9000 *
20995	10-10-15	MAGNESIUM	1.2000	0.7800 *
20998	5-10-15	MAGNESIUM	1.2000	1.1500
20999	5-10-15	MAGNESIUM	1.2000	1.1000
21028	6- 6-18	MAGNESIUM	1.2000	1.1300
21113	10-10-10	MAGNESIUM	0.5000	0.7600
21118	5-10-15	MAGNESIUM	1.2000	1.6000
21119	10-10-10	MAGNESIUM	0.5000	0.8500
21221	4-12- 8	MAGNESIUM	0.6000	1.2000 M
21293	6-12-12	MAGNESIUM	0.6000	0.6300
21320	4-12- 8	MAGNESIUM	0.6000	1.1000
21322	6-12-12	MAGNESIUM	0.6000	0.8100
21478	5-10-15	MAGNESIUM	1.2000	1.3000
21479	5-10-15	MAGNESIUM	1.2000	1.2000
21480	10-10-15	MAGNESIUM	1.2000	1.2200
21484	6-12-12	MAGNESIUM	0.6000	1.1000
21485	0-20-20	MAGNESIUM	0.6000	0.8800
21502	10-10-15	MAGNESIUM	1.2000	1.2700
21503	10-10-15	MAGNESIUM	1.2000	1.1800
21504	5-10-15	MAGNESIUM	1.2000	0.9500 *
21542	5-10-15	MAGNESIUM	1.2000	1.1000
21590	5-10-15	MAGNESIUM	1.2000	0.6300 *
21626	5-10-15	MAGNESIUM	1.2000	1.2700
21657	5-10-15	MAGNESIUM	1.2000	1.1300
21659	10-10-15	MAGNESIUM	1.2000	1.3700
21672	6-12-12	MAGNESIUM	0.6000	0.9000
21692	0-20-20	MAGNESIUM	0.6000	0.8100
21757	10-10-10	MAGNESIUM	0.5000	0.5700
21829	0-20-20	MAGNESIUM	0.6000	0.6800
21893	10-10-15	MAGNESIUM	1.2000	0.9500 *
21919	0-20-20	MAGNESIUM	0.6000	0.6500
21920	4-12- 8	MAGNESIUM	0.6000	1.0600



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
HYSTER COMPANY, NORFOLK, VA. (Cont'd)				
21922	5-10-15	MAGNESIUM	1.2000	0.9800 *
21923	6-12-12	MAGNESIUM	0.6000	0.5800
22043	6-12-18	MAGNESIUM	1.2000	1.4000
22050	5-10-15	MAGNESIUM	1.2000	1.0800
22052	6-12-12	MAGNESIUM	0.6000	0.7600
22053	0-20-20	MAGNESIUM	0.6000	0.7600
22087	5-10-15	MAGNESIUM	1.2000	0.8800 *
22088	6-12-12	MAGNESIUM	0.6000	0.6900
22157	10-10-15	MAGNESIUM	1.2000	1.3000
22158	5-10-15	MAGNESIUM	1.2000	0.9300 *
22166	4-12- 8	MAGNESIUM	0.6000	0.9300
22291	5-10-15	MAGNESIUM	1.2000	1.0500 *
22292	5-10-15	MAGNESIUM	1.2000	1.3200
22349	10-10-15	MAGNESIUM	1.2000	1.1300
22351	10-10-15	MAGNESIUM	1.2000	1.4500
22406	5-10-15	MAGNESIUM	1.2000	0.9500 *
22414	6-12-18	MAGNESIUM	1.2000	1.3200
22442	6-12-12	MAGNESIUM	0.6000	0.7700
22444	0-20-20	MAGNESIUM	0.6000	0.5700
22457	5-10-15	MAGNESIUM	1.2000	1.0500 *
22530	5-10-15	MAGNESIUM	1.2000	1.1000
22743	5-10-15	MAGNESIUM	1.2000	1.5000
22820	4-12- 8	MAGNESIUM	0.6000	1.0500
20028	8-24- 8	COPPER	.0500	0.0540
20152	5-10-15	COPPER	.0500	0.0700
20178	10-10-10	COPPER	.0500	0.0570
20265	4-16- 4	COPPER	.0500	0.0780
20372	5-10-15	COPPER	.0500	0.0630
20437	5-10-15	COPPER	.0500	0.0580
20443	10-10-15	COPPER	.0500	0.0600
20788	5-10-15	COPPER	.0500	0.0460
20803	10-10-15	COPPER	.0500	0.0560
20818	4-16- 4	COPPER	.0500	0.0660
20820	10-10-15	COPPER	.0500	0.0660
20821	5-10-15	COPPER	.0500	0.0510
20999	5-10-15	COPPER	.0500	0.0650
21113	10-10-10	COPPER	.0500	0.0540
21118	5-10-15	COPPER	.0500	0.0450
21119	10-10-10	COPPER	.0500	0.0500
21478	5-10-15	COPPER	.0500	0.0560
21502	10-10-15	COPPER	.0500	0.0700
21659	10-10-15	COPPER	.0500	0.0710
21757	10-10-10	COPPER	.0500	0.0530
21922	5-10-15	COPPER	.0500	0.0500
22050	5-10-15	COPPER	.0500	0.0660
22087	5-10-15	COPPER	.0500	0.0500
22157	10-10-15	COPPER	.0500	0.0570
22292	5-10-15	COPPER	.0500	0.0640
22349	10-10-15	COPPER	.0500	0.0800
22351	10-10-15	COPPER	.0500	0.0600
22406	5-10-15	COPPER	.0500	0.0600
22456	10-10-10	COPPER	.0500	0.0430
20028	8-24- 8	IRON	.1000	0.0500
20152	5-10-15	IRON	.1000	0.8200
20178	10-10-10	IRON	.1000	0.2700
				0.5800

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
ROYSTER COMPANY, NORFOLK, VA. (Cont'd)				
20265	4-16- 4	IRON	.1000	0.3900
20372	5-10-15	IRON	.1000	0.2500
20437	5-10-15	IRON	.1000	0.2500
20443	10-10-15	IRON	.1000	0.2300
20788	5-10-15	IRON	.1000	0.2400
20803	10-10-15	IRON	.1000	0.2300
20818	4-16- 4	IRON	.1000	0.4400
20820	10-10-15	IRON	.1000	0.4100
20821	5-10-15	IRON	.1000	0.4900
20999	5-10-15	IRON	.1000	0.2400
21113	10-10-10	IRON	.1000	0.5100
21118	5-10-15	IRON	.1000	0.2400
21119	10-10-10	IRON	.1000	0.4900
21478	5-10-15	IRON	.1000	0.2400
21480	10-10-15	IRON	.1000	0.2100
21502	10-10-15	IRON	.1000	0.2400
21659	10-10-15	IRON	.1000	0.2500
21757	10-10-10	IRON	.1000	0.5300
21922	5-10-15	IRON	.1000	0.2300
22050	5-10-15	IRON	.1000	0.2200
22087	5-10-15	IRON	.1000	0.2200
22157	10-10-15	IRON	.1000	0.2800
22292	5-10-15	IRON	.1000	0.2400
22349	10-10-15	IRON	.1000	0.2800
22351	10-10-15	IRON	.1000	0.3000
22406	5-10-15	IRON	.1000	0.2200
22456	10-10-10	IRON	.1000	0.5300
20028	8-24- 8	MANGANESE	2.0000	2.0700
20152	5-10-15	MANGANESE	0.0500	0.0520
20178	10-10-10	MANGANESE	0.0500	1.6600 M
20265	4-16- 4	MANGANESE	0.0500	0.0570
20372	5-10-15	MANGANESE	0.0500	0.0480
20437	5-10-15	MANGANESE	0.0500	0.0460
20443	10-10-15	MANGANESE	0.0500	0.0480
20788	5-10-15	MANGANESE	0.0500	0.0490
20803	10-10-15	MANGANESE	0.0500	0.0500
20818	4-16- 4	MANGANESE	0.0500	0.0510
20820	10-10-15	MANGANESE	0.0500	0.0500
20821	5-10-15	MANGANESE	0.0500	0.0540
20999	5-10-15	MANGANESE	0.0500	0.0530
21113	10-10-10	MANGANESE	0.0500	0.1180 M
21118	5-10-15	MANGANESE	0.0500	0.0340 *
21119	10-10-10	MANGANESE	0.0500	0.1360 M
21478	5-10-15	MANGANESE	0.0500	0.0450
21480	10-10-15	MANGANESE	0.0500	0.0510
21502	10-10-15	MANGANESE	0.0500	0.0560
21659	10-10-15	MANGANESE	0.0500	0.0580
21757	10-10-10	MANGANESE	0.0500	0.1400 M
21922	5-10-15	MANGANESE	0.0500	0.0390 *
22050	5-10-15	MANGANESE	0.0500	0.0500
22087	5-10-15	MANGANESE	0.0500	0.0370 *
22157	10-10-15	MANGANESE	0.0500	0.0450
22292	5-10-15	MANGANESE	0.0500	0.0470
22349	10-10-15	MANGANESE	0.0500	0.0640
22351	10-10-15	MANGANESE	0.0500	0.0510

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
LYSTER COMPANY, NORFOLK, VA. (Cont'd)				
22406	5-10-15	MANGANESE	0.0500	0.0340 *
22456	10-10-10	MANGANESE	0.0500	0.1480 M
20028	8-24- 8	ZINC	1.0000	1.0000
20152	5-10-15	ZINC	.0500	0.0530
20178	10-10-10	ZINC	.0500	1.1200 M
20265	4-16- 4	ZINC	.0500	0.0530
20372	5-10-15	ZINC	.0500	0.0400
20437	5-10-15	ZINC	.0500	0.0410
20443	10-10-15	ZINC	.0500	0.0410
20788	5-10-15	ZINC	.0500	0.0410
20803	10-10-15	ZINC	.0500	0.0400
20818	4-16- 4	ZINC	.0500	0.0550
20820	10-10-15	ZINC	.0500	0.0460
20821	5-10-15	ZINC	.0500	0.0440
20999	5-10-15	ZINC	.0500	0.0490
21113	10-10-10	ZINC	.0500	0.1020 M
21118	5-10-15	ZINC	.0500	0.0320 *
21119	10-10-10	ZINC	.0500	0.1010 M
21478	5-10-15	ZINC	.0500	0.0420
21480	10-10-15	ZINC	.0500	0.0500
21502	10-10-15	ZINC	.0500	0.0460
21659	10-10-15	ZINC	.0500	0.0550
21757	10-10-10	ZINC	.0500	0.1000 M
21922	5-10-15	ZINC	.0500	0.0370 *
22050	5-10-15	ZINC	.0500	0.0480
22087	5-10-15	ZINC	.0500	0.0380 *
22157	10-10-15	ZINC	.0500	0.0360 *
22292	5-10-15	ZINC	.0500	0.0400
22349	10-10-15	ZINC	.0500	0.0550
22351	10-10-15	ZINC	.0500	0.0530
22406	5-10-15	ZINC	.0500	0.0310 *
22456	10-10-10	ZINC	.0500	0.0760
EARS, ROEBUCK & CO., CHICAGO, ILL.				
21049	8- 8- 8	COPPER	.0500	0.0160 *
21049	8- 8- 8	IRON	.2500	0.3200
21051	5- 8- 7	IRON	1.2000	2.7200
21049	8- 8- 8	MANGANESE	0.0500	0.0320 *
21049	8- 8- 8	ZINC	.0500	0.0360 *
THOMPSON SALES COMPANY, MONTGOMERY, ALA.				
20362	0-18- 0	IRON	1.5000	1.7500
20733	0-18- 0	IRON	1.5000	1.7800
21349	0- 2- 0	IRON	1.5000	1.8000
22688	0- 2- 0	IRON	1.5000	2.1300
22688	0- 2- 0	IRON	1.5000	2.1300

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

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND	
AGRICO CHEMICAL CO., MEMPHIS, TENN.					
20775	4-16- 4	ALDRIN	.30	0.15	*
21603	5-10-15	ALDRIN	.15	0.17	
01148	4-16- 4	ALDRIN	.30	0.22	
07108	4-16- 4	ALDRIN	.30	0.30	
ARMOUR AGRICULTURAL CHEMICAL CO., ATLANTA, GA.					
02070	4-16- 4	ALDRIN	.18	0.18	
20567	4-16- 4	ALDRIN	.18	0.07	*
01146	5-10- 5	ALDRIN	.13	0.26	
01153	5-10- 5	ALDRIN	.18	0.20	
01167	5-10- 5	ALDRIN	.18	0.06	*
01512	5-10- 5	ALDRIN	.18	0.18	
02532	5-10- 5	ALDRIN	.18	0.14	*
02536	5-10- 5	ALDRIN	.18	0.16	*
05105	5-10- 5	ALDRIN	.18	0.07	*
07112	5-10- 5	ALDRIN	.18	0.09	
22029	5-10- 5	ALDRIN	.18	0.06	*
20565	5-10-15	ALDRIN	.15	0.14	
20568	5-10-15	ALDRIN	.15	0.06	*
20680	5-10-15	ALDRIN	.15	0.14	
20862	5-10-15	ALDRIN	.15	0.13	
22030	5-10-15	ALDRIN	.15	0.02	*
20566	6-12-18	ALDRIN	.15	0.05	*
20569	6-12-18	ALDRIN	.15	0.08	*
20570	10-10-20	ALDRIN	.15	0.10	*
ARMOUR AGRICULTURAL CHEMICAL CO., CINCINNATI, OHIO					
20823	5-10- 5	ALDRIN	.18	0.08	*
20773	5-10-15	ALDRIN	.15	0.16	
05104	6-12-18	ALDRIN	.15	0.34	M
BLUEGRASS PLANT FOODS, INC., CYNTHIANA, KY.					
21403	4-19-19	ALDRIN	.12	0.18	
21402	8-10-15	ALDRIN	.15	0.15	
BLUEGRASS PLANT FOODS, INC., DANVILLE, KY.					
02546	4-16- 4	ALDRIN	.31	0.19	
07102	4-16- 4	ALDRIN	.31	0.26	
20564	5-10-15	ALDRIN	.15	0.14	
21196	5-10-15	ALDRIN	.15	0.15	
21602	7- 5-17	ALDRIN	.15	0.07	*
BURLEY BELT FERTILIZER CO., LEXINGTON, KY.					
05109	4-16- 4	ALDRIN	.15	0.15	
06020	4-16- 4	ALDRIN	.31	0.32	
20817	4-16- 4	ALDRIN	.31	0.26	
21414	5-10-15	ALDRIN	.15	0.06	*
21415	6- 6-18	ALDRIN	.15	0.09	*
20812	8-10-15	ALDRIN	.15	0.11	*

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

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

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

