

Regulatory Bulletin 203

**REPORT OF  
ANALYSES OF OFFICIAL  
FERTILIZER SAMPLPES**

JULY 1968 - JUNE 1969



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Lexington

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This bulletin contains the results of analyses of 2,340 official samples of commercial fertilizer made during the period July 1, 1968 through June 30, 1969.

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

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

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

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

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

(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.

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 indicated 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

Agricultural Supply Company  
Industrial Drive  
Hopkinsville, Kentucky 42240

Agrico Chemical Company  
5050 Poplar Ave.  
Memphis, Tennessee 38101

Allied Chemical Corporation  
40 Rector Street  
New York, N. Y. 10006

Arkla Chemical Corp.  
400 E. Capitol Street  
Little Rock, Arkansas 72203

Askew Farm Service  
R. 1  
Hopkinsville, Kentucky 42240

Ballard County Coop.  
LaCenter, Kentucky 42056

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

Borden, Inc. Chemical Div.  
P. O. Box 419  
Norfolk, Virginia 23501

Burkharts Feed Mill  
Auburn, Kentucky 42206

Burley Belt Fertilizer Company  
Box 5150  
Lexington, Kentucky 40505

Burley Belt Chemical Co.  
Box 7  
London, Kentucky 40741

Campbellsville Crop Service  
P. O. Box 7  
Campbellsville, Ky. 42718

Caudill & Guthrie Seed Co.  
P. O. Box 348  
Shelbyville, Ky. 40065

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

Chevron Chemical Company  
940 Hensley Street  
Richmond, California 94801

Chilean Nitrate Sales Corp.  
120 Broadway  
New York, New York 10005

Christian County Supply Co.  
Skyline Drive  
Hopkinsville, Ky. 42240

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

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

Commercial Solvents Corporation  
245 Park Avenue  
New York, New York 10017

Commonwealth Fertilizer Company  
Morgantown Road  
Russellville, Kentucky 42276

Crestline International  
Crestline, Ohio 44827

Crittenden County Farm &  
Home Supply  
Marion, Kentucky 42064

Jack Edge  
Fordville, Kentucky 42343

Elanco Products Co.  
740 South Alabama Street  
Indianapolis, Indiana 46206

Elkton Crop Service  
Route 2  
Guthrie, Kentucky 42234

Farmers Chemical Association  
P. O. Box 87  
Harrison, Tennessee 37341

Farmers Fertilizer Company  
Smith Grove,  
Kentucky 42171

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

Farmers Gin Company  
P. O. Box 95  
Clinton, Kentucky 42031

Farmsco of Kentucky  
Route 1  
Gracey, Kentucky 42232

Federal Chemical Company  
646 Starks Building  
Louisville, Kentucky 40202

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 Chemical Group  
100 N. Main Street  
Memphis, Tennessee 38103

Graves County Soil Improvement  
Association  
Mayfield, Kentucky 42066

Green Valley Farm Supply Co.  
Island,  
Kentucky 42350

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

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

Heritage House Products  
300 Union Commerce Building  
Cleveland, Ohio 44115

Highland Distributors Inc.  
Sadlersville, Tennessee 37154

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

International Minerals &  
Chemical Corporation  
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

Loretto Fertilizer Sales  
& Service  
Loretto, Kentucky 40037

Mayfield Milling Company  
Box 311  
Mayfield, Kentucky 42066

Mays Oil & Allied  
Chemical Company  
Box 347  
Princeton, Kentucky 42445

Miles Farms  
Route 3  
Owensboro, Kentucky 42301

(Continued)

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

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

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

Morrison Farm Service  
Hodgenville, Kentucky 42748

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

Phillips Petroleum Company  
841 Adams Building  
Bartlesville, Oklahoma 74004

Royster Company  
P. O. 1940  
Norfolk, Virginia 23501

Sandusky Mill Inc.  
Harrodsburg, Kentucky 40330

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

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

Smiths Grove Fertilizer Co.  
P. O. Box E  
Smiths Grove, Kentucky 42171

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

Spencer Farm Service  
Taylorsville, Kentucky 40071

Stanley Crop Service  
Stanley, Kentucky 42375

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

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

Tennessee Liquefied Gas Corp.  
94 Ragland Road  
Jackson, Tennessee 38301

Thompson Sales Company  
P. O. Box 246  
Montgomery, Alabama 36101

Tobacco States Chemical Company  
Box 479  
Lexington, Kentucky 40501

Tompkinsville Fertilizer Company  
Tompkinsville,  
Kentucky 42167

Union Fertilizer Company  
Morganfield,  
Kentucky 42437

USS Agri-Chemical, Inc.  
P. O. Box 1685  
Atlanta, Georgia 30301

Voluntary Purchasing Groups  
Box 640  
Bonham, Texas 75418

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



## COMPUTING COEFFICIENT OF VARIATION

The listing on pages 11 thru 18 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 19 thru 21 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 69 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 high or lower by 10% or more of the extreme values of the remaining normal samples.

Average Analysis and Coefficient of Variation of Samples Analyzed, July 1968 - June 1969

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 CO. Memphis, Tennessee	0-20-20	2	---	21.3	20.8	---	0.9	0.3	
	4-16- 4	7	4.4	16.5	4.9	6.6	1.9	9.5	
	5-10-15	16	5.0	10.3	15.4	6.9	4.5	4.8	
	5-10-15ME	2	5.1	10.1	16.4	9.8	1.4	4.7	
	5-20-20	11	4.8	19.9	20.4	4.0	4.6	5.5	
	6-12-12	8	6.1	12.6	12.2	6.2	2.4	6.2	
	6-24-24	3	6.1	24.2	24.4	5.2	2.1	2.9	
	8- 8-18	4	8.0	8.6	18.5	1.5	5.1	1.2	
	10-10-10	12	9.6	10.2	10.5	3.9	3.4	5.9	
	12-12-12	4	12.0	12.6	12.4	1.4	2.7	2.9	
	16- 8- 8	3	15.9	8.9	9.1	1.3	3.9	2.7	
	82- 0- 0	14	82.0	----	----	0.1	---	---	
	ALL GRADES	95	% OF GUAR.			CV			
			99.6	103.2	103.4	4.2	3.2	4.7	
	BLUEGRASS PLANT FOOD, INC Cynthiana, Ky.	5- 6-10	2	5.0	6.5	10.3	2.8	2.1	4.1
10-10-10		2	9.6	10.0	10.5	8.8	8.4	7.4	
ALL GRADES		20	% OF GUAR.			CV			
			96.8	102.6	108.4	5.8	5.3	5.7	
Danville, Ky.		5-10-15	5	5.2	9.2	16.1	3.6	3.7	6.6
	6-12-12	3	6.5	12.1	12.3	0.8	12.9	18.4	
	10-10-10	4	9.8	10.4	10.7	4.3	6.0	14.6	
	ALL GRADES	18	% OF GUAR.			CV			
		103.5	99.8	108.2	3.0	7.2	12.7		
BURLEY BELT FERTILIZER CO Lexington, Ky.	0- 0-50	2	---	----	51.9	---	---	0.1	
	4-16- 4	4	4.2	15.6	5.3	10.5	3.2	23.1	
	5-10-10	2	5.3	10.7	10.2	6.7	5.9	3.4	
	5-10-15	9	5.0	10.1	15.4	5.2	2.6	5.9	
	5-20-20	2	5.0	18.9	20.0	5.6	2.9	4.6	
	6- 6-18	4	6.4	6.9	17.8	2.7	6.0	1.0	
	8-10-15	8	7.8	10.5	15.1	4.4	4.3	4.2	
	10-10-10	7	10.0	10.4	10.5	1.8	3.5	3.4	
	10-10-20	7	9.5	10.6	20.6	4.7	5.6	3.4	
	16- 8- 8	2	15.9	8.6	8.0	0.1	2.4	1.7	
	ALL GRADES	64	% OF GUAR.			CV			
			98.9	103.3	104.1	4.6	4.1	5.3	
	BURLEY BELT CHEMICAL CO. London, Ky.	0-20-20	3	---	21.0	20.1	---	2.9	6.5
		4-16- 4	2	4.0	15.7	4.4	8.9	1.3	9.6
5-10-10		4	5.1	10.5	10.4	3.2	2.8	1.1	
5-10-15		5	4.9	10.1	15.0	0.9	3.2	2.6	
5-20-20		11	5.4	19.4	19.7	7.1	2.7	4.2	

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1968 - June 1969

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.)	6-12-12	3	5.8	12.0	12.0	1.7	3.6	0.9
	6-12-18	2	6.0	12.3	18.7	1.2	0.1	2.2
	10-10-10	8	10.0	10.6	10.2	2.8	3.2	5.1
	12-12-12	3	12.0	12.8	12.0	1.9	1.5	0.8
	ALL GRADES	54	% OF GUAR.			CV		
		101.0	101.1	101.0	3.6	2.5	3.6	
COMMONWEALTH FERT. CO. Russellville, Ky.	4-12- 8	2	5.5	15.8	12.4	3.8	3.5	5.1
	4-16- 4	4	4.5	14.6	5.7	4.3	3.2	13.0
	5-10-15	6	5.3	11.1	15.3	4.0	6.1	4.0
	5-20-20	5	5.5	18.5	20.7	4.9	5.4	1.9
	6-12-12	2	6.2	12.7	13.6	5.7	3.3	3.1
	6-18-12	2	6.3	18.1	13.4	4.4	0.7	3.7
	8-12-15	2	7.4	10.8	17.2	0.9	22.2	8.6
	8-12-15ME	2	7.4	14.1	14.1	0.9	0.5	2.0
	10-10-10	8	9.0	11.6	11.8	9.4	16.1	5.2
	82- 0- 0	7	81.9	----	----	0.0	----	----
	ALL GRADES	49	% OF GUAR.			CV		
			100.4	103.2	107.9	4.1	7.4	5.2
	FEDERAL CHEMICAL CO. Louisville, Ky.	4-12- 8	4	4.8	12.6	9.4	18.1	8.3
4-16- 4		5	4.9	15.4	5.7	15.2	3.5	19.6
5-10-15		17	5.5	10.5	15.1	6.1	7.0	7.4
5-20-20		15	5.3	19.9	20.2	6.2	5.1	7.6
5-25-15		2	5.8	24.3	15.1	2.4	5.2	1.4
6-12-12		16	6.5	12.4	13.4	4.9	7.9	13.4
9-10-15		6	8.4	11.2	14.9	10.3	3.4	3.6
10-10-10		29	9.9	10.8	10.6	5.3	7.6	8.2
10-10-15		6	10.2	10.6	15.5	3.5	5.2	3.5
12-12-12		4	11.5	12.1	13.0	9.3	10.1	5.8
33- 0- 0		2	34.4	----	----	0.6	----	----
ALL GRADES		109	% OF GUAR.			CV		
			103.2	103.1	104.6	7.1	6.5	8.2
Nashville, Tenn.	5-10-15	2	5.1	10.0	15.4	0.0	3.5	1.8
	6-12-12	3	6.0	12.0	12.2	1.6	2.6	11.6
	10-10-10	6	9.9	10.3	10.3	4.4	3.3	6.4
	ALL GRADES	15	% OF GUAR.			CV		
		98.8	103.1	102.2	2.4	3.2	6.8	

Average Analysis and Coefficient of Variation of Samples Analyzed, July 1968 - June 1969

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
FRAZIER SUPPLY CO. Glasgow, Ky.	4-12- 8	2	4.0	12.2	8.3	1.7	12.2	13.6
	5-20-20	4	5.2	21.0	20.6	1.5	2.6	2.1
	6-12-12	3	6.0	12.8	12.4	6.7	8.0	4.1
	10-10-10	3	9.9	10.4	10.4	6.3	3.3	11.0
	ALL GRADES	19	% OF GUAR			CV		
		99.0	106.1	107.2	4.1	6.1	7.2	
GLASGOW FERTILIZER CO. Glasgow, Ky.	4-16- 4	3	4.3	17.8	4.8	10.1	3.4	11.3
	5-10-15	4	5.1	10.7	15.6	6.1	7.2	5.5
	5-20-20	8	5.4	19.7	21.3	11.4	5.3	6.3
	6-12-12	2	6.6	12.5	13.1	4.2	3.9	8.6
	8-16-16	2	8.2	17.4	17.8	2.6	0.8	3.9
	10-10-10	6	10.3	10.7	10.8	6.6	6.7	7.1
	10-20-20	2	10.7	20.9	20.9	1.3	1.0	0.6
	12- 7-11	2	12.5	6.2	12.3	3.4	5.7	3.4
	15-15-15	4	15.7	15.9	15.3	4.3	14.0	8.0
	18-18-18	2	17.3	15.2	20.6	2.0	11.1	16.1
	20-10-10	2	22.0	10.5	11.9	1.6	6.0	2.3
	ALL GRADES	45	% OF GUAR.			CV		
			104.3	102.9	106.6	5.5	6.1	6.8
W. R. GRACE & CO. Hopkinsville, Ky.	5-15-25	10	5.4	15.6	23.3	15.4	17.2	28.4
	9-10-15	7	9.0	10.6	13.3	6.6	12.2	24.7
	9-27- 0	2	8.8	26.4	----	3.2	1.6	----
	ALL GRADES	21	% OF GUAR.			CV		
		102.1	103.0	93.1	9.8	12.3	26.7	
Nashville, Tenn.	0-20-20	2	---	19.7	20.7	---	0.7	5.1
	3-10-30	2	3.0	9.3	30.4	2.4	7.6	6.7
	5-10-15	4	4.9	11.1	15.3	3.0	11.4	0.9
	5-20-20	13	5.2	19.6	19.4	6.2	3.3	4.3
	6-12-12	6	6.2	11.9	12.4	8.1	2.8	3.1
	10-10-10	10	9.7	10.2	10.9	5.6	2.4	5.6
	ALL GRADES	48	% OF GUAR.			CV		
		100.2	99.6	101.0	5.5	4.3	4.2	
New Albany, Ind.	0-25-25	2	---	24.1	26.9	---	6.7	0.7
	4-12- 8	2	4.9	12.4	9.6	2.8	5.1	0.0
	4-16- 4	4	4.4	16.2	5.7	6.0	2.3	6.1
	5-10-15	15	5.0	11.1	15.1	4.0	6.9	6.3
	5-20-20	12	5.0	20.9	20.4	4.1	3.6	4.0
	6- 6-18	2	6.6	7.7	18.5	6.4	11.0	1.1
	6-12-12	6	6.2	12.9	13.0	7.6	7.0	3.2
	6-12-18	3	6.0	12.7	18.2	0.9	5.9	2.2

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1968 - June 1969

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
W. R. GRACE & CO. New Albany, Ind. (cont.)	6-24-24	4	5.7	24.0	23.7	2.9	1.5	3.9
	10-10-10	13	9.7	11.1	10.4	3.5	5.7	4.1
	10-10-20	2	9.1	10.8	19.4	0.7	1.3	3.6
	12-12-12	5	11.4	12.5	12.6	1.9	1.6	4.0
	ALL GRADES	74	% OF GUAR.			CV		
			99.7	105.6	103.1	3.9	4.9	3.7
GRO-GREEN CHEMICAL CO. Shelbyville, Ky.	8-10-15	8	7.8	11.2	14.9	9.2	17.0	15.7
	8-12-15	2	7.9	12.3	15.4	0.0	1.7	6.4
	8-16-16	2	7.6	14.8	15.8	2.8	11.0	2.2
	8-24-10	2	8.6	21.0	11.7	3.2	23.5	0.1
	10-10-10	5	8.2	11.2	10.6	2.6	18.1	9.0
	12-12-12	2	11.4	12.8	13.1	2.4	2.2	1.0
	ALL GRADES	38	% OF GUAR.			CV		
			94.9	111.6	104.4	4.1	13.3	7.3
GULF OIL CORP. Cecilia, Ky.	0-20- 0	2	---	19.9	----	---	0.0	---
	5-10-15	3	5.2	9.8	15.9	9.9	5.8	3.6
	5-20-20	5	5.0	19.5	21.3	1.7	3.6	0.4
	6-12-12	4	6.1	12.3	13.1	3.8	2.3	7.3
	8-10-15	2	8.5	10.6	13.8	4.1	11.3	4.1
	10-10-10	6	10.2	10.4	10.8	3.8	8.2	6.2
	ALL GRADES	29	% OF GUAR.			CV		
			101.8	101.8	105.2	4.5	5.2	4.3
Henderson, Ky.	5-20-30	2	4.6	20.1	30.0	3.0	1.0	0.1
	6-24-24	2	6.8	28.0	24.5	3.1	4.5	5.2
	12-12-12	3	11.5	12.7	13.0	3.5	14.6	8.6
	ALL GRADES	15	% OF GUAR.			CV		
			100.1	101.7	104.6	3.2	7.3	4.9
INTERNATIONAL MINERALS & CHEMICAL CORP. Cincinnati, Ohio	4-16- 4	3	4.0	14.7	5.3	4.3	10.9	19.9
	5-10-15	19	4.9	10.1	15.4	5.5	4.3	3.8
	5-20-20	3	5.0	19.8	19.7	9.5	4.0	1.5
	6-12-12	7	5.5	12.0	13.0	7.3	3.4	7.7
	6-12-18	7	6.4	12.3	18.5	3.5	3.0	8.7
	10-10-10	9	9.6	10.5	11.3	3.5	2.6	5.9
	12-12-12	2	11.4	12.5	12.5	1.8	2.8	1.1
	ALL GRADES	58	% OF GUAR.			CV		
				98.3	100.6	104.7	5.1	4.2

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1968 - June 1969

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.) Clarksville, Tenn.	0-20-20	2	---	19.4	20.7	---	5.8	16.0
	5-10-15	2	5.7	10.1	15.0	4.9	2.1	0.9
	5-20-20	3	5.4	18.9	19.9	2.8	8.7	3.7
	6-12-12	2	6.3	11.9	11.9	7.9	5.9	5.9
	10-10-10	5	9.6	10.6	10.6	2.2	2.8	9.3
	82- 0- 0	2	82.0	----	----	0.2	----	----
	ALL GRADES	20	% OF GUAR.			CV		
		100.6	99.4	102.1	3.4	5.0	7.3	
Somerset, Ky.	4-16- 4	2	4.2	15.2	5.7	11.9	0.4	7.4
	5-10-15	4	5.0	10.0	16.2	1.0	4.9	4.0
	5-20-20	14	5.0	18.8	19.3	4.6	7.8	4.1
	6-12-12	3	5.3	11.8	12.5	5.4	5.9	7.6
	6-12-18	3	6.4	12.4	17.1	6.2	1.8	5.2
	10-10-10	6	9.6	10.2	12.0	3.3	3.2	10.8
	ALL GRADES	34	% OF GUAR.			CV		
		98.3	96.8	102.0	4.9	4.7	6.3	
MOBIL CHEMICAL CO. Richmond, Va.	0-20- 0	2	---	21.2	----	---	5.0	---
	0-20-20	3	---	19.4	22.7	---	5.2	23.6
	0-25-25	2	---	24.9	25.1	---	9.9	0.0
	4-12- 8	4	5.0	14.4	12.3	12.2	19.7	15.0
	4-16- 4	9	4.3	16.1	5.3	9.6	6.9	19.7
	5-10-15	9	5.3	10.6	15.7	10.2	5.4	8.2
	5-20-20	13	5.3	20.3	20.1	5.6	5.6	5.0
	5-20-20ME	2	5.2	20.4	20.2	9.6	1.7	3.8
	6-12-12	4	6.1	12.1	12.5	2.8	3.3	2.5
	6-12-18	4	5.8	12.0	17.9	5.0	3.5	6.9
	6-12-18ME	5	5.9	12.7	19.1	1.9	5.1	3.1
	8-24-16	6	8.2	24.1	16.2	3.7	3.1	6.9
	10-10-10	12	9.2	10.6	12.1	13.5	6.9	25.1
	10-20-20	3	10.3	22.7	17.8	3.1	8.1	12.0
	28- 0- 0	2	29.1	----	----	0.2	----	----
	82- 0- 0	3	82.1	----	----	0.0	----	----
ALL GRADES	92	% OF GUAR.			CV			
		100.9	103.2	106.0	6.6	6.3	10.9	
NORTH AMERICAN FERTILIZER CO. Louisville, Ky.	4-16- 4	4	4.2	14.7	6.4	4.1	9.4	15.5
	5-10-15	7	4.9	10.3	16.0	3.0	3.8	6.5
	5-20-20	6	5.3	20.7	19.8	5.7	4.1	2.5
	6-12-12	3	6.0	13.3	13.7	15.9	13.1	11.2
	6-12-18	3	6.2	11.7	18.7	4.2	6.1	5.8
	8-10-15	3	7.9	9.9	15.8	3.8	4.6	2.6

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1968 - June 1969

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
NORTH AMERICAN FERTILIZER CO. Louisville, Ky. (cont.)	9- 9-17	3	8.4	10.0	17.6	4.7	2.5	4.1
	9- 9-17ME	3	8.8	9.7	18.2	5.2	2.9	6.1
	10-10-10	7	9.6	9.9	11.4	2.8	16.8	5.0
	15-15-15	2	14.5	15.4	15.3	2.9	7.8	1.8
	ALL GRADES	48	% OF GUAR.			CV		
			98.4	101.6	108.4	5.1	7.3	6.1
OHIO VALLEY FERTILIZER, INCORPORATED Maysville, Ky.	5-10-10	2	5.0	10.6	11.8	2.8	4.6	1.2
	5-10-15	2	5.1	10.6	15.9	1.4	2.0	1.3
	5-20-20	2	4.2	20.9	20.6	5.1	1.0	2.7
	10-10-10	2	8.9	10.4	11.0	10.3	4.0	10.2
	10-10-20	2	10.8	11.9	20.0	0.1	0.5	0.7
ALL GRADES	17	% OF GUAR.			CV			
			98.3	107.4	105.3	3.9	2.4	3.2
ROYSTER CO. Norfolk, Va.	0-10-30	2	---	10.6	31.7	---	4.6	3.1
	0-20-20	4	---	20.4	19.9	---	2.5	7.5
	0-20-20ME	2	---	20.2	19.6	---	0.3	2.1
	4-12- 8	2	4.5	12.2	9.0	1.5	0.6	1.5
	4-16- 4	2	5.0	16.1	5.0	0.0	2.6	1.4
	4-16- 4ME	2	4.4	16.2	4.5	1.6	2.1	6.2
	5-10-15	3	5.1	10.2	15.1	4.1	0.5	2.3
	5-10-15ME	20	5.2	10.5	15.1	7.1	3.7	3.2
	5-20-20	16	5.2	19.9	20.1	9.7	5.9	6.7
	6-12-12	11	6.0	12.7	12.3	4.2	9.4	8.2
	6-12-12ME	6	6.2	12.4	12.5	5.3	4.1	5.5
	6-19-26	2	5.7	18.0	27.4	6.2	4.3	2.8
	9-18-18	2	9.3	19.1	17.6	1.5	0.3	4.8
	10-10-10	26	10.2	10.6	10.6	2.4	3.4	4.0
	10-10-10ME	2	9.7	11.6	10.4	0.0	14.6	6.8
10-10-15	3	9.8	10.7	15.3	1.0	1.6	4.0	
10-10-15ME	5	10.3	10.7	15.3	3.5	1.8	2.6	
ALL GRADES	119	% OF GUAR.			CV			
			102.1	103.0	102.6	4.2	4.0	4.6
SOUTHERN STATES COOP. Louisville, Ky.	0-20-20	3	---	20.2	20.7	---	4.6	4.1
	0-46- 0	2	---	46.9	---	---	1.9	---
	4-16- 4	13	4.2	16.5	4.5	3.7	3.7	5.3
	5-10-15	9	5.1	10.2	16.0	4.0	2.2	2.2
	5-20-20	3	4.8	21.3	19.7	2.4	0.9	2.3
	6- 6-18	2	6.0	6.7	18.2	5.9	5.3	1.1
	6-12-12	4	6.0	12.2	12.0	0.8	2.4	1.9



Average Analysis and Coefficient of Variation of Samples Analyzed, July 1968 - June 1969

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 Louisville, Ky. (cont.)	8-10-15	4	8.1	10.5	15.8	2.2	4.3	2.4	
	10-10-10	8	10.1	10.5	10.4	2.1	2.6	3.8	
	ALL GRADES	55	% OF GUAR.			CV			
			102.0	103.0	103.9	3.0	3.0	3.2	
	Russellville, Ky	0-20-20	2	---	21.3	19.5	---	0.2	3.2
		4-12- 8	8	4.1	11.8	9.0	8.2	2.5	5.9
		5-10-15	40	5.2	10.4	15.3	3.6	5.3	3.1
		5-15- 5	2	5.2	16.0	5.6	1.3	0.4	2.5
		5-20-20	26	5.2	19.7	20.4	4.0	5.1	5.5
		6-12-12	20	6.1	12.1	12.5	4.1	4.2	5.9
6-24-24		2	6.1	23.9	23.3	1.1	0.9	4.2	
10-10-10		32	9.9	10.0	10.5	3.4	4.3	5.3	
12-12-12		15	11.9	12.0	12.4	1.7	2.8	6.2	
ALL GRADES	149	% OF GUAR.			CV				
		101.0	100.6	103.3	3.7	3.6	4.9		
Winchester, Ky.	4-12- 8	2	4.3	12.2	8.9	0.0	1.1	2.4	
	4-16- 4	6	4.1	16.2	4.4	3.2	3.4	3.9	
	5-10-15	12	5.2	10.2	15.3	2.9	2.8	4.3	
	5-20-20	6	5.1	19.9	20.3	5.4	3.8	3.7	
	6- 6-18	3	6.0	7.5	17.3	1.6	14.3	2.5	
	6-12-12	4	6.3	12.4	12.9	2.5	2.7	2.9	
	8-10-15	3	7.8	10.3	14.9	2.6	5.9	1.6	
	ALL GRADES	41	% OF GUAR.			CV			
			102.0	101.9	103.0	2.8	4.5	3.2	
USS AGRI-CHEMICALS, INC. Atlanta, Ga.	0-20-20	3	---	19.2	21.2	---	3.2	2.2	
	4-12- 8	4	3.9	11.8	9.5	11.2	1.7	14.2	
	5- 5- 0	3	5.8	7.0	---	4.9	5.9	---	
	5-10- 5	8	5.3	9.8	6.0	6.6	2.9	11.9	
	5-10-10	3	5.2	10.6	11.1	8.3	7.1	4.1	
	5-10-15	18	5.3	10.2	15.7	5.5	5.3	3.9	
	5-20-20	11	5.2	19.3	20.0	8.6	6.1	6.4	
	6-12-12	16	6.2	12.0	12.7	7.2	4.2	6.6	
	6-12-18	5	6.1	12.7	18.0	3.1	6.5	3.3	
	10-10-10	16	10.2	10.2	10.5	7.7	6.2	6.4	
	15-40- 5	2	15.1	40.9	6.3	0.0	1.7	3.4	
	33- 0- 0	2	35.5	---	---	3.3	---	---	
	82- 0- 0	5	82.0	---	---	0.1	---	---	
	ALL GRADES	104	% OF GUAR.			CV			
			102.1	100.9	104.6	6.0	4.8	6.4	
Cincinnati, Ohio	4-12- 8	4	5.0	12.3	11.2	12.8	7.3	4.9	
	4-16- 4	2	4.8	15.5	5.5	0.0	3.2	0.0	

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1968 - June 1969

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
USS AGRI-CHEMICALS, INC. Cincinnati, Ohio (cont.)	5-10-10	4	5.2	11.2	11.4	2.4	4.0	0.7
	5-10-15	17	5.3	10.4	15.4	7.4	3.5	3.4
	5-20-20	13	5.2	19.7	19.6	6.4	6.1	4.2
	6-12-12	9	6.4	11.9	12.7	5.8	3.1	4.9
	6-12-18	12	5.8	12.6	17.9	2.9	2.9	2.8
	10-10-10	12	10.7	10.2	10.7	3.7	2.2	5.4
	10-10-20	5	10.0	11.4	20.2	0.8	2.0	2.5
	12-12-12	3	11.9	12.9	12.9	1.6	5.4	3.1
	12-12-18	2	12.7	10.9	19.4	1.1	1.9	1.1
	ALL GRADES	90	% OF GUAR.			CV		
		104.6	102.2	104.0	4.6	3.8	3.4	
Jeffersonville, Ind.	0-25-25	2	---	24.7	24.1	---	0.5	2.9
	4-12- 8	2	4.1	12.1	9.1	1.7	1.7	2.3
	4-16- 4	2	5.2	15.7	4.9	9.6	0.4	0.0
	5-10- 5	2	5.3	9.7	5.7	2.6	3.6	3.7
	5-10-15	14	5.4	10.2	15.5	4.5	5.1	3.6
	5-20-20	6	5.1	20.3	20.0	3.6	1.8	2.9
	6-12-12	5	6.3	12.5	12.8	6.0	6.0	3.5
	6-12-18	8	6.1	12.6	18.2	5.3	3.6	4.2
	10-10-10	10	10.3	10.4	10.4	4.3	6.4	6.0
	12-12-12	3	11.6	12.7	12.3	4.9	5.5	5.4
	12-12-18	7	11.8	12.4	18.1	5.2	6.0	4.8
	ALL GRADES	67	% OF GUAR.			CV		
		102.4	102.4	102.3	4.8	4.2	3.8	
Nashville, Tenn.	0-20-20	2	---	19.0	18.2	---	5.9	8.5
	0-46- 0	2	---	46.0	---	---	0.4	---
	3-12-24	2	3.9	12.3	23.0	3.6	1.7	2.7
	4-12- 8	2	4.5	11.8	8.8	0.0	0.6	9.6
	5-10- 5M	2	7.0	10.1	7.5	8.0	0.1	8.5
	5-10- 5S	5	5.3	9.7	6.5	2.8	2.6	15.6
	5-10-10	2	5.3	9.7	9.9	8.0	6.6	2.8
	5-10-15	8	5.2	10.0	15.3	9.1	4.4	4.3
	5-20-20	8	5.3	19.1	20.5	5.4	6.4	4.4
	6-12-12	5	6.2	11.9	12.2	4.9	0.9	5.5
	6-12-18	8	6.0	11.9	18.6	3.2	2.2	4.0
	6-24-24	2	6.1	24.9	23.8	1.1	3.7	2.3
	10-10-10	9	9.5	10.7	10.7	5.4	9.7	5.7
	12-24-24	2	12.1	24.9	25.5	1.7	0.5	2.2
	15-15-15	3	15.4	15.6	15.8	1.7	2.9	3.4
ALL GRADES	72	% OF GUAR.			CV			
		102.6	99.6	103.4	4.5	3.7	5.7	

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

AGRICO CHEMICAL COMPANY						
RELATIVE VALUE FOR N	P2O5	K2O	CV. FOR	N	P2O5	K2O
MEMPHIS	99.63	103.22	103.35	4.22	3.29	4.78
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR						
AGRICO CHEMICAL COMPANY	99.63	103.22	103.35	4.22	3.29	4.78
BLUEGRASS PLANT FOODS, INC.						
RELATIVE VALUE FOR N	P2O5	K2O	CV. FOR	N	P2O5	K2O
CYNTHIANA	96.77	102.59	108.42	5.83	5.33	5.78
DANVILLE	103.54	99.75	108.23	3.09	7.20	12.75
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR						
BLUEGRASS PLANT FOODS, INC.	99.88	101.21	108.33	4.52	6.25	9.22
BURLEY BELT FERTILIZER CO.						
RELATIVE VALUE FOR N	P2O5	K2O	CV. FOR	N	P2O5	K2O
LEXINGTON	98.93	103.29	104.06	4.64	4.10	5.31
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR						
BURLEY BELT FERTILIZER CO.	98.93	103.29	104.06	4.64	4.10	5.31
BURLEY BELT CHEMICAL COMPANY						
RELATIVE VALUE FOR N	P2O5	K2O	CV. FOR	N	P2O5	K2O
LONDON	101.04	101.12	100.99	3.64	2.58	3.69
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR						
BURLEY BELT CHEMICAL COMPANY	101.04	101.12	100.99	3.64	2.58	3.69
COMMONWEALTH FERTILIZER CO.						
RELATIVE VALUE FOR N	P2O5	K2O	CV. FOR	N	P2O5	K2O
RUSSELLVILLE	100.44	103.24	107.86	4.12	7.40	5.26
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR						
COMMONWEALTH FERTILIZER CO.	100.44	103.24	107.86	4.12	7.40	5.26
FEDERAL CHEMICAL COMPANY						
RELATIVE VALUE FOR N	P2O5	K2O	CV. FOR	N	P2O5	K2O
HUMBOLDT	103.72	101.34	102.99	6.29	7.34	2.84
LOUISVILLE	103.16	103.06	104.63	7.19	6.53	8.20
NASHVILLE	98.78	103.09	102.18	2.48	3.21	6.86
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR						
FEDERAL CHEMICAL COMPANY	102.73	102.95	104.23	6.00	5.92	6.96
FRASIER SUPPLY COMPANY						
RELATIVE VALUE FOR N	P2O5	K2O	CV. FOR	N	P2O5	K2O
GLASGOW	99.02	106.13	107.18	4.12	6.17	7.26
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR						
FRASIER SUPPLY COMPANY	99.02	106.13	107.18	4.12	6.17	7.26

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

GLASGOW FERTILIZER COMPANY							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
GLASGOW	104.31	102.94	106.62	5.58	6.19	6.80	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR GLASGOW FERTILIZER COMPANY							
	104.31	102.94	106.62	5.58	6.19	6.80	
W.R. GRACE & CO.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
HOPKINSVILLE	102.09	102.96	93.07	9.84	12.37	26.74	
NASHVILLE	100.16	99.58	100.95	5.53	4.37	4.26	
NEW ALBANY	99.71	105.56	103.05	3.91	4.93	3.79	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR W.R. GRACE & CO.							
	100.22	103.23	101.03	5.84	6.43	8.93	
GRO-GREEN CHEMICAL CO., INC.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
SHELBYVILLE	94.86	111.60	104.40	4.12	13.37	7.34	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR GRO-GREEN CHEMICAL CO., INC.							
	94.86	111.60	104.40	4.12	13.37	7.34	
GRO-GREEN SALES CO.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
SHELBYVILLE	102.97	107.67	120.35	9.82	32.11	17.68	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR GRO-GREEN SALES CO.							
	102.97	107.67	120.35	9.82	32.11	17.68	
GULF OIL CORP., AGRI CHEM DIV							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
CECILIA	101.76	101.81	105.21	4.51	5.27	4.37	
CLARKSON	125.38	97.28	97.45	15.40	4.66	5.11	
HENDERSON	100.11	101.72	104.63	3.26	7.32	4.93	
HORSE CAVE	101.95	102.86	113.33	2.92	7.42	1.82	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR GULF OIL CORP., AGRI CHEM DIV							
	104.56	101.26	105.54	5.89	6.09	4.10	
INTERNATIONAL MIN & CHEM CORP							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
CINCINNATI	98.34	100.60	104.65	5.15	4.22	6.66	
CLARKSVILLE	100.61	99.44	102.14	3.48	5.01	7.30	
SOMERSET	98.28	96.78	102.01	4.96	4.71	6.35	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR INTERNATIONAL MIN & CHEM CORP							
	98.67	99.19	103.41	4.70	4.57	6.71	
MOBIL CHEM CO, AGRI CHEM DIV							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
RICHMOND	100.94	103.16	105.98	6.66	6.39	10.98	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR MOBIL CHEM CO, AGRI CHEM DIV							
	100.94	103.16	105.98	6.66	6.39	10.98	

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

NORTH AMERICAN FERTILIZER CO.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
LOUISVILLE	98.38	101.57	108.37		5.11	7.36	6.18
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
NORTH AMERICAN FERTILIZER CO.							
	98.38	101.57	108.37		5.11	7.36	6.18
OHIO VALLEY FERTILIZER, INC.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
MAYSVILLE	98.27	107.42	105.31		3.97	2.47	3.25
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
OHIO VALLEY FERTILIZER, INC.							
	98.27	107.42	105.31		3.97	2.47	3.25
ROYSTER COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
NORFOLK	102.09	103.00	102.63		4.27	4.04	4.60
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
ROYSTER COMPANY							
	102.09	103.00	102.63		4.27	4.04	4.60
SOUTHERN STATES COOPERATIVE							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
LOUISVILLE	101.99	102.97	103.90		3.04	3.09	3.20
RUSSELLVILLE	101.04	100.62	103.27		3.71	3.82	4.92
WINCHESTER	102.03	101.91	103.03		2.88	4.58	3.29
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
SOUTHERN STATES COOPERATIVE							
	101.40	101.34	103.36		3.32	3.81	4.04
USS AGRI-CHEMICALS, INC.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
ATLANTA	102.07	100.87	104.57		6.06	4.87	6.42
CINCINNATI	104.59	102.22	103.96		4.62	3.80	3.40
JEFFERSONVIL	102.37	102.39	102.30		4.80	4.21	3.88
NASHVILLE	102.60	99.60	103.42		4.57	3.70	5.78
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
USS AGRI-CHEMICALS, INC.							
	102.94	101.29	103.68		5.05	4.16	4.88

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

AG. SUPPLY CO.		HOPKINSVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
6-18- 6M	24889	6.1	18.2	6.0		101
6-18- 6M	24942	6.4	18.2	6.1		103
6-18- 6M	25176	6.1	18.3	7.0		103
AGRICO CHEMICAL COMPANY		MEMPHIS TENN				
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-62M	24339	0.0	0.0	62.2		100
0-20-20M	23405	0.0	21.4	20.7		106
0-20-20M	24851	0.0	21.1	20.8		105
0-25-25M	23406	0.0	19.8*	18.9*		78*
0-25-25M	24570	0.0	24.6	25.5		100
4-16- 4S	23407	4.4	16.7	4.6		107
4-16- 4S	23493	4.2	16.8	4.6		106
4-16- 4S	23568	4.2	16.6	4.5		105
4-16- 4S	23699	3.9	16.0	4.6		101
4-16- 4S	23906	4.5	16.8	4.9		109
4-16- 4S	23988	4.5	16.1	5.7		107
4-16- 4S	24868	4.8	16.6	5.4	*	111
5-10-15S	23256	5.3	9.9	15.6		103
5-10-15S	23402	5.5	10.3	14.9		104
5-10-15S	23489	4.9	11.2	15.8		106
5-10-15S	23540	4.9	9.7*	15.9	*	99
5-10-15S	23700	4.7*	9.6*	14.7		96*
5-10-15S	23730	4.9	10.1	13.7*	*	97*
5-10-15S	23878	5.3	10.2	16.4		106
5-10-15S	23879	4.8	10.8	15.7		103
5-10-15S	24128	5.1	10.5	15.5		104
5-10-15S	24320	5.0	10.0	15.3		100
5-10-15S	24455	4.1*	10.5	15.4	*	98
5-10-15S	24490	4.8	10.4	16.9	*	104
5-10-15S	24572	5.4	11.0	15.5		108
5-10-15S	24869	5.2	10.4	15.9		105
5-10-15S	24923	5.4	9.6*	14.7		100
5-10-15S	25053	5.0	10.4	14.9		101
5-10-15S W/ME	23403	5.4	10.2	15.8		105
5-10-15S W/ME	24217	4.7	10.0	16.9		102
5-20-20M	22991	4.8	20.5	18.7*		99
5-20-20M	23007	4.6*	20.3	20.5		100
5-20-20M	23254	4.9	20.3	19.5*		100
5-20-20M	23414	4.9	17.6*	22.2		96*
5-20-20M	23880	4.6*	20.3	21.3		101
5-20-20M	24016	5.2	20.2	19.4*		100
5-20-20M	24104	4.9	21.2	21.8		105
5-20-20M	24174	4.9	19.7	21.3		100
5-20-20M	24423	4.7	19.7	19.5*		97*
5-20-20M	24571	4.8	19.7	20.3		99
5-20-20M	24914	4.5*	19.3*	19.9		96*
6- 6-16S	23491	5.3*	6.7	17.7		102
6- 6-18S	23920	6.8	8.5	17.0*		113
6-12-12M	22967	7.0	13.6	14.2		115
6-12-12M	23253	5.9	12.2	11.9		100
6-12-12M	23490	5.9	12.4	12.4		102
6-12-12M	23542	5.8	12.5	11.9		100
6-12-12M	24173	6.2	12.4	11.9		102
6-12-12M	24175	6.0	13.2	12.1		104

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969

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

AGRICOL CHEMICAL COMPANY		MEMPHIS		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-12M	24321	7.0	12.8	12.5			109
6-12-12M	24344	6.0	12.4	11.0*			100
6-12-12M	24853	6.0	12.6	13.7			105
6-22-10M W/ME	24343	5.7*	22.5	10.1			100
6-24-24M	22968	5.9	22.4*	20.7*			92*
6-24-24M	24345	6.0	24.8	23.9			102
6-24-24M	24950	5.9	23.9	25.2			101
6-24-24M	25162	6.5	23.9	24.0			101
8- 8-18S	23919	8.0	8.1	18.5			101
8- 8-18S	23923	8.0	8.4	18.2			102
8- 8-18S	24392	8.1	9.1	18.7			105
8- 8-18S	24395	7.8	8.8	18.7			103
8-10-15S	23593	7.9	10.7	15.1			102
10-10-10M	22992	9.7*	10.2	10.1			99
10-10-10M	23006	9.1*	10.5	10.6			98
10-10-10M	23492	9.1*	10.2	10.2			96*
10-10-10M	23541	9.1*	9.7*	9.9			94*
10-10-10M	23857	9.9	10.4	10.4			101
10-10-10M	23881	10.1	11.0	12.3			108
10-10-10M	23918	9.9	10.0	10.1			100
10-10-10M	24105	10.1	10.2	10.3			102
10-10-10M	24319	9.4*	10.0	10.4			98
10-10-10M	24393	9.6*	10.5	10.4			101
10-10-10M	25041	9.8	9.8	10.4			99
10-10-10M	25052	9.9	10.0	10.9			101
10-10-20S W/ME	24852	9.4*	9.7	20.6			98
10-34- 0	25160	9.9	34.1	0.0			100
10-40-10M	25161	8.4*	46.7	10.0			107
12-12-12M	23255	12.0	12.5	12.3			102
12-12-12M	23257	7.5*	13.5	15.7			90*
12-12-12M	23404	11.9	12.5	12.4			102
12-12-12M	23701	11.8	12.3	11.9			100
12-12-12M	24569	12.2	13.1	12.8			105
16- 8- 8M	23856	15.7	9.1	8.8			103
16- 8- 8M	23921	16.1	8.5	9.1			103
16- 8- 8M	24394	15.8	9.1	9.3			104
82- 0- 0	24338	81.9	0.0	0.0			100
82- 0- 0	24347	81.8	0.0	0.0			100
82- 0- 0	24540	82.1	0.0	0.0			100
82- 0- 0	24541	82.0	0.0	0.0			100
82- 0- 0	24549	81.9	0.0	0.0			100
82- 0- 0	24582	81.8	0.0	0.0			100
82- 0- 0	24770	82.0	0.0	0.0			100
82- 0- 0	24779	82.2	0.0	0.0			100
82- 0- 0	25083	81.9	0.0	0.0			100
82- 0- 0	25219	81.9	0.0	0.0			100
82- 0- 0	25220	82.0	0.0	0.0			100
82- 0- 0	25222	81.9	0.0	0.0			100
82- 0- 0	25223	81.9	0.0	0.0			100
82- 0- 0	25227	82.1	0.0	0.0			100
ALLIED CHEMICAL CORPORATION		MEMPHIS		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
4-11-11M	24356	4.6	10.9	11.5			105
10-34- 0	24576	10.5	34.4	0.0			102
28- 0- 0	24355	28.8	0.0	0.0			103

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

ARKLA CHEMICAL CORP.		LITTLE ROCK			ARK.	XS	CL	RV
GRADE	NUM	N	APA	POT				
12-12-12M	22921	13.2	12.2	12.4				106
14-14-14M	22904	13.5*	15.8	14.5				103
33- 0- 0	23266	34.2	0.0	0.0				102
ASKEW FARM SERVICE		HOPKINSVILLE KY				XS	CL	RV
GRADE	NUM	N	APA	POT				
0-26-25M	24239	0.0	26.0	26.9				101
12-24-24M	24240	12.8	25.8	21.0*				103
BALLARD COUNTY COOP		LA CENTER			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
7-20-20M	24756	10.1	18.8*	19.2*				104
11-15-20M	24354	12.2	16.6	18.4*				104
BLUEGRASS PLANT FOODS, INC.		CYNTHIANA			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
5- 4-12S	24385	5.0	4.1	12.5				100
5- 6-10S	25012	5.1	6.6	10.0*				101
5- 6-10S	25014	4.9*	6.4	10.6				97*
5- 6-17S W/ME	25009	5.3	5.9*	17.2				97*
5- 8- 0	24198	5.5	8.5	0.0				99
6- 6-13S	25007	6.6	6.1*	13.4				97*
6- 6-17S	25015	5.9	6.0	17.1*				98
6- 6-18S	24199	6.0	6.0	19.2				102
6-12-18S	24213	6.0	11.0*	17.3*				96*
7- 8-12S	25010	7.7	7.8*	12.1*				95*
8- 4-17S	24384	8.0	5.4	17.9				102
8- 6-18S W/ME	24922	7.9	6.2	18.3				101
8-10-14S	25017	7.6*	9.2*	15.3				96*
10- 6-10M	24197	10.0	6.0	12.3				104
10- 8-11S	25016	10.7	8.0	13.6				103
10-10-10M	24916	10.2	9.4*	11.0				100
10-10-10M	25008	9.0*	10.6	9.9				97*
11- 7-11S	25013	12.3	6.9*	12.0				101
13- 6-16S	24214	9.6*	8.4	19.7				94*
14- 0-34M	24196	9.6*	0.0	42.0				92*
BLUEGRASS PLANT FOODS, INC.		DANVILLE			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
0-20-20M	23317	0.0	18.7	22.0				99
4-12- 8M	24204	5.3	12.0	11.9				117
5-10-15S	23153	5.4	9.4*	14.3*				98
5-10-15S	23832	5.3	9.7	15.8				102
5-10-15S	24202	5.3	8.9*	16.9				101
5-10-15S	24693	5.2	8.9*	16.7				101
5-10-15S	24846	4.9	9.1*	16.6				99
5-20-20M	23314	5.3	20.8	21.1				105
6-12-12M	23315	6.1	13.5	7.4*				98
6-12-12M	24200	6.5	11.8	13.0				104
6-12-12M	24203	6.5	10.7*	14.2				102
6-12-12M	24694	6.6	13.8	9.8*				106
6-12-18S W/ME	25040	5.9	11.9	19.6				102
7- 4-17S	24701	7.7	5.3	18.8		*		105
8-10-15S	24696	7.9	11.0	16.1				105
10-10-10M	23316	9.2*	11.0	8.4*				97*
10-10-10M	23719	9.9	10.0	11.4				102
10-10-10M	24692	9.9	9.7	11.9				102
10-10-10M	24695	10.2	10.8	11.0				105
BORDEN INC. CHEMICAL DIV.		NORFOLK			VA.	XS	CL	RV
GRADE	NUM	N	APA	POT				
5- 8- 7M W/ME	24937	5.2	9.6	8.9				115



TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969

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

BORDEN INC. CHEMICAL DIV.		NORFOLK			VA.	XS CL	RV
GRADE	NUM	N	APA	POT			
12- 3- 3M	25072	12.1	2.9	2.7*			100
12- 3- 3M	25078	15.4	3.9	3.8			128
12- 7- 5M	23654	12.0	7.3	6.3			104
14- 3- 3M	25080	16.0	3.4	7.6			122
20- 5- 5M	25074	21.3	4.8	5.5			105
20- 5- 5M W/ME	25079	26.4	6.3	6.3			131
23-21-18M	24971	22.5	19.2*	19.2			97*
BURKHARTS FEED MILL		AUBURN			KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
5-20-20M	24940	4.5*	20.2	20.1			99
10-10-10M	24941	10.4	10.2	10.8			104
BURLEY BELT FERTILIZER COMPANY		LEXINGTON			KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-50S	24194	0.0	0.0	51.9	*		104
0- 0-50S	24859	0.0	0.0	51.9	*		104
0- 0-60M	24857	0.0	0.0	61.6			103
0-10-30M	24865	0.0	9.9	35.5			111
0-20- 0	24858	0.0	19.8	0.0			99
0-20-20M	24856	0.0	21.2	18.7*			102
0-46- 0	24408	0.0	45.8	0.0			100
3- 3-11S	25060	3.8	4.6	12.1			104
4-16- 4S	23665	3.9	15.9	5.8			102
4-16- 4S	23788	4.0	15.7	4.0			99
4-16- 4S	24481	3.9	16.0	4.7			101
4-16- 4S	24870	4.8	14.9*	6.8			106
5-10- 5M	25091	5.2	10.1	6.7			106
5-10-10M	23761	5.0	10.2	10.4			102
5-10-10M	23961	5.5	11.1	9.9			108
5-10-15S	22982	4.8	9.9	14.6			98
5-10-15S	23666	5.1	10.4	15.7			104
5-10-15S	23668	5.1	10.3	16.0			103
5-10-15S	24191	5.7	9.7	16.6			106
5-10-15S	24195	5.0	10.1	15.7			102
5-10-15S	24488	5.0	10.5	14.9			102
5-10-15S	24489	4.9	10.2	14.2*			99
5-10-15S	24822	4.9	9.9	16.7			102
5-10-15S	24855	4.9	9.9	14.5*			98
5-20-20M	23962	5.2	19.3*	19.3*			98
5-20-20M	24409	4.8	18.5*	20.6			96*
6- 6-18S	24192	6.4	7.1	18.1			107
6- 6-18S	24398	6.1	7.3	17.7			105
6- 6-18S	24871	6.5	6.5	17.7			105
6- 6-18S	25095	6.4	6.5	17.8			104
6- 8- 6S	24864	5.9	8.6	7.6			106
6-12-18S	24862	5.9	11.9	18.6			100
6-12-18S W/ME	24823	5.9	12.3	19.2			102
8- 6-18S	24840	7.6*	6.7	19.0			102
8-10-15S	23667	7.2*	11.0	13.9*			97*
8-10-15S	23669	8.0	10.0	15.8			101
8-10-15S	24193	8.3	11.0	14.9	*		105
8-10-15S	24410	7.7	10.5	15.5			101
8-10-15S	24487	7.8	10.8	14.7			101
8-10-15S	24819	7.9	10.5	15.1			101
8-10-15S	24820	8.1	10.5	14.9			102
8-10-15S	24843	7.5*	9.7	15.8			98
9- 9- 9M	24841	9.4*	9.3*	11.2			99
9-10-15S	24328	8.6*	9.7	15.8			98

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
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	
10-10-10M	23670	9.8	10.7	10.2		101	
10-10-10M	23770	9.8	10.5	10.4		101	
10-10-10M	23925	10.3	9.9	10.2		102	
10-10-10M	24329	10.1	10.7	11.0		104	
10-10-10M	24397	9.9	10.5	10.7		102	
10-10-10M	25096	10.1	9.8	10.7		101	
10-10-10M	25104	10.0	10.5	10.0		102	
10-10-20S	23924	9.8	10.5	20.8		102	
10-10-20S	24382	9.6*	10.4	20.2		100	
10-10-20S	24399	10.0	10.2	20.6		102	
10-10-20S	24421	9.7	10.0	20.6		99	
10-10-20S	24821	9.4*	11.8	19.9		103	
10-10-20S	24872	9.6*	10.3	20.0		99	
10-10-20S	25062	8.6*	10.8	22.0		99	
11- 9-18M	24842	13.6	15.8	14.3*		121	
12- 4-14S	25061	11.1*	6.2	15.2		101	
12- 5-20S W/ME	24999	11.3*	6.4	21.1		103	
12-12-12M	24407	11.9	12.7	13.3		103	
16- 8- 8M	24383	15.9	8.7	8.1		102	
16- 8- 8M	24861	15.9	8.4	7.9		100	
28-28- 0	24422	26.6*	28.9	0.0		98	
BURLEY BELT CHEMICAL COMPANY		LONDON			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
0-15-30M W/B	23557	0.0	15.1	29.9		100	
0-19-38M	23827	0.0	18.5*	36.6*		97*	
0-20- 0	24929	0.0	20.2	0.0		101	
0-20-20M	23472	0.0	21.5	20.2		105	
0-20-20M	24249	0.0	20.3	21.3		103	
0-20-20M	24932	0.0	21.1	18.7*		101	
3- 9- 6M	24931	3.5	8.4*	7.2		105	
4-12- 8M	23473	4.2	12.4	9.2		105	
4-16- 4S	23567	3.7*	15.5*	4.1		96*	
4-16- 4S	23582	4.2	15.8	4.7		102	
5-10-10M	23562	4.9	10.2	10.3		100	
5-10-10M	23823	5.1	10.3	10.3		102	
5-10-10M	24172	5.1	10.7	10.5		104	
5-10-10M	24625	5.3	10.8	10.5		106	
5-10-10S	23822	5.2	10.3	9.6*		102	
5-10-15S	23558	4.9	9.9	14.9		99	
5-10-15S	24251	4.9	10.3	15.4		101	
5-10-15S	24624	4.9	10.5	15.3		102	
5-10-15S	24933	4.9	9.7	14.4*		97*	
5-10-15S	25030	5.0	9.9	15.0		100	
5-15-15S	23559	4.9	14.7	15.6	*	99	
5-20-20M	23474	5.5	18.9*	19.1*		98	
5-20-20M	23561	5.0	19.2*	19.2*		97*	
5-20-20M	23583	4.9	19.7	20.2		99	
5-20-20M	23728	5.4	19.1*	19.8		99	
5-20-20M	23824	5.5	19.9	19.2*		101	
5-20-20M	24021	5.2	20.1	19.9		101	
5-20-20M	24120	5.1	19.8	20.2		100	
5-20-20M	24170	6.0	18.9*	19.2*		100	
5-20-20M	24250	6.0	18.6*	19.2*		99	
5-20-20M	24631	5.0	19.4*	21.8		101	
5-20-20M	24930	5.2	20.2	18.9*		100	
6-12-12M	23563	5.7	11.8	11.9		97*	
6-12-12M	23729	5.8	11.7	12.1		98	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968 - June 1969**  
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			
6-12-12M	24626	5.9	12.5	12.1			101
6-12-18S	23963	6.0	12.3	18.4			101
6-12-18S	24234	5.9	12.3	19.0			102
6-12-18S W/ME	23560	5.8	11.9	18.7			99
10-10-10M	23249	10.0	10.5	9.9			102
10-10-10M	23564	9.6*	10.5	10.0			99
10-10-10M	23821	10.5	10.9	9.5*			104
10-10-10M	23825	10.0	10.9	9.9			102
10-10-10M	24022	10.2	10.4	10.3			103
10-10-10M	24252	9.7	11.2	11.3			105
10-10-10M	24256	9.9	10.5	10.1			101
10-10-10M	24928	10.1	10.1	10.2			101
12- 4- 8M	24167	12.4	4.6	9.0			106
12-12-12M	23565	11.7	12.6	11.9			100
12-12-12M	24257	12.1	13.0	12.0			103
12-12-12M	24261	12.1	12.8	12.1			103
16- 4- 8M	24168	16.7	4.6	9.0			107
16- 8- 8M	22983	14.9*	7.5*	9.1			96*
16-16-16M	24171	16.0	16.2	16.1			100
20-10-10M	24169	20.2	11.5	10.6			105
CAMPBELLSVILLE CROP SERVICE		CAMPBELLSVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
4-17-12S	24989	4.8	16.0*	13.2		*	102
6-12-12M	24988	7.0	13.6	12.8			113
8- 8-13S	24699	8.1	9.4	14.5		*	104
8-12-15S	24702	7.6*	10.7*	16.9		*	97*
10-10-10M	24436	9.2*	8.6*	10.1			91*
10-10-10M	24706	9.9	9.9	12.0			102
16-13-13M	24701	14.1*	13.3	14.9			95*
17-11-11M	24705	16.4*	10.4*	13.3			97*
19-10-10M	24703	18.1*	8.5*	12.0			95*
25- 5- 5M	24704	26.0	6.7	6.3			105
CAUDILL & GUTHRIE SEED CO.		SHELBYVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-20-20M	25237	6.3	18.5*	24.0			103
CENTRAL FARMERS FERT. COMPANY		CHICAGO		ILL.		XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-50S	24326	0.0	0.0	49.8			100
0- 0-50S	24463	0.0	0.0	51.9		*	104
0- 0-60M	23932	0.0	0.0	60.0			100
0- 0-60M	24310	0.0	0.0	62.0			103
0- 0-60M	24324	0.0	0.0	60.4			101
0- 0-60M	24464	0.0	0.0	61.4			102
0- 0-60M	24640	0.0	0.0	61.0			102
0-46- 0	24311	0.0	45.8	0.0			100
0-46- 0	24327	0.0	45.8	0.0			100
0-46- 0	24465	0.0	46.1	0.0			100
CHEVRON CHEMICAL CO-ORTHO DIV		RICHMOND		CAL.		XS CL	RV
GRADE	NUM	N	APA	POT			
8- 8- 8M W/ME	24938	8.6	8.3	8.1			105
10-20-20M	23286	10.5	19.9	20.4			102
12- 6- 6M W/ME	24974	11.9	6.4	6.3			101
16-16-16M	23285	16.1	15.9	15.9			100
20- 3- 3S	25076	21.4	3.1	4.6			109
20- 3- 3S	25094	21.2	4.7	4.4			112
20-10-10M	23284	20.9	9.7*	10.5			103
21- 4- 4M	25070	21.1	4.8	5.2			104

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

CHEVRON CHEMICAL CO-ORTHO DIV		RICHMOND		CAL.			
GRADE	NUM	N	APA	POT	XS CL	RV	
22- 4- 4M	24956	22.2	3.9	4.0		101	
22- 4- 4M	25003	22.0	5.4	4.3		104	
22- 4- 4S	25093	21.6	5.0	5.4	*	103	
CHILEAN NITRATE SALES CORP.		NEW YORK		N.Y.			
GRADE	NUM	N	APA	POT	XS CL	RV	
15- 0-14M	25180	15.2	0.0	13.7		101	
CHRISTIAN COUNTY SUPPLY CO.		HOPKINSVILLE KY.					
GRADE	NUM	N	APA	POT	XS CL	RV	
4-12- 8M	24724	2.2*	7.6*	7.2*		66*	
5-20-20M	25134	5.4	21.9	20.7		107	
5-25-15M	24559	4.3*	23.4*	14.5*		93*	
6-12-18S	24721	7.8	12.6	21.0		116	
6-12-18S	25131	6.5	14.0	22.8	*	117	
10- 8-12S	24722	10.3	8.8	17.7	*	112	
10-10-10M	25133	10.6	9.2*	9.3*		99	
10-12-18S	25135	10.0	11.8	18.0		99	
10-12-18S	25136	9.2*	10.8*	16.3*		91*	
12-12-18S	24561	9.9*	8.5*	16.4*		81*	
12-12-18S	24723	12.6	9.5*	18.9		97*	
15-11-16M	24560	16.9	13.7	13.0*		107	
17- 7- 7M	24725	14.8*	6.0*	7.2		88*	
CLINE FERTILIZER COMPANY		EWING		VA.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20-20M	24254	0.0	20.3	22.4		105	
5-20-20M	24627	4.8	21.9	20.0		104	
6-12-12M	24255	6.9	13.5	11.7		110	
COMINCO AMERICAN INC		SPOKANE		WASH			
GRADE	NUM	N	APA	POT	XS CL	RV	
82- 0- 0	25155	82.2	0.0	0.0		100	
COMMERCIAL SOLVENTS CORP.		NEW YORK		N.Y.			
GRADE	NUM	N	APA	POT	XS CL	RV	
33- 0- 0	23624	34.6	0.0	0.0		103	
34- 0- 0	23292	33.9	0.0	0.0		100	
COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE KY.					
GRADE	NUM	N	APA	POT	XS CL	RV	
0-26-26M	24074	0.0	28.8	27.7		109	
0-46- 0	22965	0.0	45.7	0.0		99	
4-12- 8M	23439	5.6	15.4	12.8		138	
4-12- 8M	23636	5.3	16.2	11.9		137	
4-16- 4S	23436	4.6	15.1*	5.5		104	
4-16- 4S	23635	4.9	17.2	5.6	*	114	
4-16- 4S	23655	4.2	14.0*	6.3	*	98	
4-16- 4S	23746	4.6	14.8*	6.2	*	104	
4-16- 4S	23787	4.4	14.4*	4.7		97*	
5-10-15S	23438	5.0	11.9	15.6	*	109	
5-10-15S	23638	5.3	11.7	14.9	*	108	
5-10-15S	23960	5.4	10.9	14.6*		105	
5-10-15S	24434	5.6	10.8	15.8	*	108	
5-10-15S	24581	5.3	11.2	16.2	*	109	
5-10-15S	25025	5.1	10.0	14.9		100	
5-20-20M	23650	5.3	17.8*	20.4		96*	
5-20-20M	23800	5.9	18.0*	20.7		99	
5-20-20M	23958	5.4	19.3*	20.9		101	
5-20-20M	24046	5.5	19.8	20.3		102	
5-20-20M	25024	5.2	17.5*	21.3		96*	
5-20-20M W/ME	23532	5.5	21.2	19.4*		104	
6- 9-14M	25021	6.8	9.4	14.2		101	

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

COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	23533	5.9	12.4	13.3		104
6-12-12M	24755	6.4	13.0	13.9		109
6-18-12M	23959	6.1	18.0	13.0		102
6-18-12M	24580	6.5	18.2	13.7		105
6-21-18M W/ME	25116	7.0	19.0*	13.2*		92*
6-24-24M	23534	6.6	24.7	25.2		105
8-12-15S	24435	7.3*	12.5	16.1	*	100
8-12-15S	24945	7.4*	9.1*	18.2		93*
8-12-15S W/ME	23634	7.4*	14.0	13.9*	*	102
8-12-15S W/ME	24045	7.3*	14.1	14.3*	*	102
8-32-16S W/ME	24662	8.4	31.5	16.4		100
10-10-10M	23531	7.8*	11.9	11.0		97*
10-10-10M	23637	7.8*	15.8	12.0		111
10-10-10M	23813	9.4*	11.2	12.5		105
10-10-10M	23957	9.4*	11.6	12.4		106
10-10-10M	24075	8.9*	11.8	11.8		103
10-10-10M	24579	9.9	10.7	10.8		103
10-10-10M	25022	10.0	10.4	12.0		104
10-10-10M	25023	8.8*	9.5*	11.5		95*
18-46- 0	22964	18.4	48.1	0.0		104
33- 0- 0	24238	34.8	0.0	0.0		104
82- 0- 0	22901	81.9	0.0	0.0		100
82- 0- 0	24437	81.8	0.0	0.0		100
82- 0- 0	24532	81.9	0.0	0.0		100
82- 0- 0	24535	81.9	0.0	0.0		100
82- 0- 0	24537	81.9	0.0	0.0		100
82- 0- 0	24968	82.0	0.0	0.0		100
82- 0- 0	25208	81.9	0.0	0.0		100
CRESTLINE INTERNATIONAL		CRESTLINE OHIO				
GRADE	NUM	N	APA	POT	XS CL	RV
10- 6- 4M	24450	10.3	7.6	4.3		109
JACK EDGE		FORDVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
14-17-20M	25123	13.7*	24.4	17.4*		107
CRITTENDEN CO FARM & HOME SUP.		MARION KY				
GRADE	NUM	N	APA	POT	XS CL	RV
17-17-17M	24736	17.4	17.5	19.1		100
25-11- 7M	24735	25.2	11.1*	8.3		99
ELANCO PRODUCTS COMPANY		INDIANAPOLIS IND.				
GRADE	NUM	N	APA	POT	XS CL	RV
10-18-10M	22917	10.9	19.3	10.8		108
16- 8- 4M	25081	17.2	10.4	6.4		116
16- 8- 4M	25141	17.0	8.3	6.4		109
24- 6- 6M	25069	25.0	6.2	6.0		104
ELKTON CROP SERVICE		GUTHRIE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	24969	5.5	18.5*	20.0		98
8-12-15S	24967	7.3*	11.9	16.4	*	99
28- 0- 0	22902	28.1	0.0	0.0		100
33- 0- 0	24970	33.7	0.0	0.0		100
FARMERS CHEMICAL ASSOC., INC.		HARRISON TENN				
GRADE	NUM	N	APA	POT	XS CL	RV
30- 0- 0	24106	31.0	0.0	0.0		103
30- 0- 0	24445	31.3	0.0	0.0		104
33- 0- 0	22971	35.4	0.0	0.0		106
33- 0- 0	22999	33.6	0.0	0.0		100
33- 0- 0	23057	34.4	0.0	0.0		103

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FARMERS CHEMICAL ASSOC., INC.		HARRISON		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
33- 0- 0	23296	34.3	0.0	0.0			102
33- 0- 0	23509	33.2	0.0	0.0			99
33- 0- 0	23826	34.2	0.0	0.0			102
33- 0- 0	23897	35.3	0.0	0.0			105
33- 0- 0	23950	35.8	0.0	0.0			107
33- 0- 0	24312	35.0	0.0	0.0			104
33- 0- 0	24325	36.3	0.0	0.0			108
33- 0- 0	24466	35.7	0.0	0.0			106
FARMERS FERTILIZER COMPANY		SMITH GROVE KY.		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
12-12-17S	24935	12.3	11.9	19.0			103
15-15-15M	24934	12.6*	12.5*	22.7			95*
FARMERS GIN COMPANY		CLINTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-23-30M	24951	0.0	22.7	30.1			99
15-15-18M	24589	15.8	17.2	17.1*			106
FARMSCO OF KY.		FRANKLIN		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-62M	23817	0.0	0.0	62.8			101
5-20-20M	23051	5.3	18.3*	21.6			99
7-21-21M	22987	7.4	22.8	19.0*			103
9-18-18M	22986	9.1	17.2*	19.0			100
9-18-18M	23050	8.6*	17.5*	18.6			98
10-34- 0	23815	9.9	34.3	0.0			100
14-14-14M	23814	15.7	12.7*	11.7*			101
30- 0- 0	23816	30.1	0.0	0.0			100
FARMSCO OF KY		GRACEY		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-62M	24727	0.0	0.0	62.0			100
6-20-20M	24726	5.8	18.1*	20.5			95*
FEDERAL CHEMICAL COMPANY		HUMBOLDT		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	23387	5.2	10.8	16.4			107
5-20-20M	23390	5.2	21.4	19.0*			103
5-20-20M	24096	5.9	19.7	19.4*			102
5-20-20M	24583	5.0	20.3	19.0*			99
6-12-12M	23388	6.6	11.0*	13.8			103
10-10-15S W/ME	24584	10.1	11.6	15.5			106
12-12-12M	23389	12.0	11.9	13.1			101
15-15-15M	24095	15.1	15.7	15.5			102
15-15-15M	24585	15.8	13.4*	16.6			101
FEDERAL CHEMICAL COMPANY		LOUISVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20- 0	23793	0.0	19.8	0.0			99
0-20-20M	23040	0.0	18.9*	20.5			97*
0-25-25M	23975	0.0	16.3*	29.1			82*
4-12- 8M	23806	3.9	11.1*	8.6			96*
4-12- 8M	24042	5.3	12.5	9.9			115
4-12- 8M	24049	4.3	13.1	9.4			110
4-12- 8M	24262	4.4	17.1	13.4			138
4-12- 8M	25186	5.8	13.5	9.5			122
4-16- 4S	23281	6.2	15.7	4.4			113
4-16- 4S	23678	4.2	14.6*	5.4			99
4-16- 4S	23694	4.9	15.0*	7.5	*		109
4-16- 4S	23794	4.8	15.9	5.9	*		109
4-16- 4S	23907	4.6	15.6*	5.5	*		105
5-10-15S	23135	4.9	10.1	12.4*			94*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

FEDERAL CHEMICAL COMPANY		LOUISVILLE			KY.		RV
GRADE	NUM	N	APA	POT	XS CL		
5-10-15S	23330	5.7	10.0	13.9*	*		102
5-10-15S	23696	4.9	10.6	14.9	*		102
5-10-15S	23759	6.1	10.2	14.8	*		107
5-10-15S	23807	5.2	10.4	15.5			104
5-10-15S	23860	5.9	9.2*	15.2			102
5-10-15S	23910	5.7	10.5	16.0			108
5-10-15S	23973	5.2	9.9	15.0	*		101
5-10-15S	24043	5.4	11.6	16.9			113
5-10-15S	24143	5.7	10.3	14.0*			103
5-10-15S	24151	5.5	11.6	15.8			111
5-10-15S	24246	5.1	10.8	15.3	*		104
5-10-15S	24286	5.5	11.2	14.6*			107
5-10-15S	24333	5.4	10.2	14.5*			102
5-10-15S	24414	5.3	11.9	16.5			113
5-10-15S	24753	5.7	9.5*	14.3*	*		101
5-10-15S	24918	5.6	10.5	16.6			109
5-20-20M	22930	5.8	19.2*	18.1*			99
5-20-20M	22935	5.0	18.5*	18.4*			94*
5-20-20M	22957	5.2	19.1*	19.6			98
5-20-20M	23020	4.9	19.2*	21.9			100
5-20-20M	23423	5.3	20.2	19.9			101
5-20-20M	23790	4.9	20.5	20.4			101
5-20-20M	23791	5.3	20.6	22.5			106
5-20-20M	23804	5.2	20.2	20.2			101
5-20-20M	23858	5.5	20.9	17.7*			101
5-20-20M	23882	5.2	21.0	19.0*			102
5-20-20M	24123	5.8	18.9*	21.4			102
5-20-20M	24152	5.9	21.7	19.9			108
5-20-20M	24386	5.5	20.9	19.2*			103
5-20-20M	24412	4.9	19.9	22.1			102
5-20-20M	24766	5.4	18.2*	22.0			99
5-25-15M W/ME	23802	5.7	25.2	15.2			103
5-25-15M W/ME	25114	5.9	23.4*	14.9			99
6-12-12M	22931	6.4	12.0	12.7			104
6-12-12M	22934	6.6	12.9	17.2			116
6-12-12M	22956	6.1	11.9	11.7			100
6-12-12M	23425	5.9	13.8	12.5			107
6-12-12M	23803	6.4	12.5	12.5			105
6-12-12M	23855	6.7	12.6	13.1			108
6-12-12M	23859	6.9	12.7	11.9			108
6-12-12M	23888	6.7	12.6	13.1			108
6-12-12M	23901	6.0	12.0	12.1			100
6-12-12M	23974	6.7	11.4*	13.4			104
6-12-12M	24050	6.9	12.5	11.6*			106
6-12-12M	24121	7.0	12.5	13.1			109
6-12-12M	24153	6.7	14.0	13.9			115
6-12-12M	24285	6.6	11.8	12.7			104
6-12-12M	24854	10.3	13.5	13.0			131
6-12-12M	24961	6.3	9.7*	17.9			104
6-12-12M	25185	6.5	13.0	14.2			110
6-18-12M	23952	6.5	17.1*	11.9			99
9-10-15S	23698	8.9	10.7	15.1			102
9-10-15S	23757	8.4*	11.4	14.7	*		101
9-10-15S	23758	7.2*	11.8	15.1	*		97*
9-10-15S	23760	8.1*	11.3	14.9			100
9-10-15S	24244	7.9*	11.9	15.5	*		87*
9-10-15S	24562	9.7	11.0	13.9*			105

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969

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	24752	7.9*	11.0	15.5	*	99	
10-10-10M	22914	10.3	9.4*	10.7		100	
10-10-10M	22932	10.0	10.2	11.5		103	
10-10-10M	22933	9.7*	10.6	11.3		102	
10-10-10M	22951	9.3*	11.7	11.1		104	
10-10-10M	23019	10.0	10.2	10.7		102	
10-10-10M	23134	10.3	9.8	8.5*		98	
10-10-10M	23139	9.7*	9.9	11.8		101	
10-10-10M	23185	10.0	9.8	10.0		100	
10-10-10M	23235	10.0	9.8	10.0		99	
10-10-10M	23347	10.3	10.5	11.3		105	
10-10-10M	23424	9.8	11.7	9.9		105	
10-10-10M	23440	9.6*	10.5	11.4		102	
10-10-10M	23511	9.4*	10.1	9.9		97*	
10-10-10M	23695	10.0	10.2	10.1		101	
10-10-10M	23697	10.2	10.5	11.3		105	
10-10-10M	23756	10.2	11.2	10.4		106	
10-10-10M	23854	9.9	11.9	10.1		106	
10-10-10M	23861	9.9	10.8	8.9*		100	
10-10-10M	23863	9.6*	12.0	9.5*		104	
10-10-10M	23883	10.4	10.7	10.6		105	
10-10-10M	24023	10.7	10.2	10.4		105	
10-10-10M	24061	10.3	10.7	11.3		106	
10-10-10M	24245	10.1	10.8	11.6		106	
10-10-10M	24263	8.7*	8.4*	10.2		88*	
10-10-10M	24334	10.3	10.0	10.5		102	
10-10-10M	24411	9.2*	12.5	10.5		105	
10-10-10M	24430	8.0*	11.1	12.3		97*	
10-10-10M	24767	10.3	11.9	11.8		111	
10-10-10M	24919	9.2*	11.6	10.2		101	
10-10-10M	25184	10.3	11.7	10.6		108	
10-10-15S W/ME	23186	9.6*	10.4	15.0	*	99	
10-10-15S W/ME	23346	10.2	11.1	16.3	*	106	
10-10-15S W/ME	23795	11.3	14.8	14.4*	*	120	
10-10-15S W/ME	23801	10.5	9.7	14.9		101	
10-10-15S W/ME	23951	10.5	10.2	15.2	*	103	
10-10-15S W/ME	24413	10.5	11.1	15.8		107	
10-10-15S W/ME	25000	10.0	10.8	15.7	*	103	
12-12-12M	23510	11.6*	11.5*	13.7		99	
12-12-12M	24051	10.0*	13.8	13.5		99	
12-12-12M	24901	11.6*	11.9	12.2		99	
12-12-12M	25002	12.6	11.0*	12.4		100	
33- 0- 0	23331	34.5	0.0	0.0		103	
33- 0- 0	23792	34.2	0.0	0.0		102	
FEDERAL CHEMICAL COMPANY		NASHVILLE			TENN		
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20-20M	24661	0.0	22.0	19.4*		106	
5-10-15S	23124	5.1	9.7	15.2		100	
5-10-15S	24400	5.1	10.2	15.6		103	
5-20-20M	24660	5.2	19.9	19.6		100	
6-12-12M	22962	6.0	11.9	10.7*		97*	
6-12-12M	23427	6.1	12.4	12.5		103	
6-12-12M	24402	5.9	11.8	13.5		101	
10-10-10M	23426	9.9	10.3	9.4*		100	
10-10-10M	23679	9.2*	10.8	11.2		100	
10-10-10M	24103	10.5	10.1	10.4		103	
10-10-10M	24348	10.1	9.9	10.4		101	



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**

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

FEDERAL CHEMICAL COMPANY		NASHVILLE		TENN			
GRADE	NUM	N	APA	POT	XS CL	RV	
10-10-10M	24401	9.6*	10.7	10.5		101	
10-10-10M	24659	9.8	10.2	9.6*		99	
10-10-15S W/ME	24850	9.8	11.0	15.9		103	
12-12-12M	24349	11.3*	12.6	13.3		100	
FRANKLIN CROP SERVICE		FRANKLIN		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-26-26M	23437	0.0	22.4*	33.2		100	
5-20-20M	22984	5.4	18.2*	21.7		99	
11-28-29M	24669	6.1*	15.6*	40.0		75*	
82- 0- 0	25207	81.9	0.0	0.0		100	
FRASIER SUPPLY CO.		GLASGOW		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
4-12- 8M	23587	3.9	13.2	7.5*		103	
4-12- 8M	25171	4.0	11.1*	9.1		99	
5-10-15S	23410	4.6*	8.9*	15.1		93*	
5-20-20M	23412	5.2	21.5	21.0		106	
5-20-20M	23585	5.3	21.2	20.0		104	
5-20-20M	24295	5.2	21.1	20.8		105	
5-20-20M	24907	5.1	20.2	20.7		102	
6-12-12M	23413	5.6*	11.9	12.1		97*	
6-12-12M	23586	6.4	13.9	12.1		109	
6-12-12M	24294	5.9	12.5	13.0		103	
6-12-18S	25172	7.0	14.0	19.6		114	
7- 5- 7S	25100	6.4*	8.0	8.5		106	
7- 6- 7S	25099	5.3*	8.4	7.8		95*	
9- 8-12S	24906	7.0*	7.2*	19.6		97*	
10-10-10M	23411	10.4	10.4	9.5*		103	
10-10-10M	23588	10.1	10.7	10.0		103	
10-10-10M	24292	9.2*	10.0	11.7		99	
21-14-14M	24293	20.1*	14.6	16.7		101	
22- 0-20M	25101	24.8	0.0	18.5*		107	
FREE FLOW FERTILIZER CO		MAUMEE		OHIO			
GRADE	NUM	N	APA	POT	XS CL	RV	
20-10- 5M	25039	22.0	9.8	5.1		107	
GLASGOW FERTILIZER COMPANY		GLASGOW		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20-20M	23850	0.0	20.2	21.0		102	
4-12- 8M	24100	3.4*	10.6*	8.4		91*	
4-16- 4S	23419	4.6	17.3	4.8		111	
4-16- 4S	23506	4.5	17.7	4.3		111	
4-16- 4S	23904	3.8	18.5	5.4		112	
5-10-15S	23507	5.4	11.1	15.2		107	
5-10-15S	23607	4.7	11.5	15.1		104	
5-10-15S	23609	4.9	15.0	12.8*		115	
5-10-15S	23848	4.9	10.0	16.9		103	
5-10-15S	25167	5.2	10.0	15.2		102	
5-10-15S W/ME	23843	4.2*	12.7	14.6*	*	105	
5-20-20M	23054	6.6	19.7	20.5		106	
5-20-20M	23606	5.0	19.9	20.8		101	
5-20-20M	23608	4.8	20.5	20.1		101	
5-20-20M	23844	5.1	18.0*	23.7		100	
5-20-20M	23849	5.9	19.6	21.4		105	
5-20-20M	24303	5.9	21.3	20.8		108	
5-20-20M	24517	5.1	18.5*	23.0		100	
5-20-20M	25166	5.1	20.1	20.0		100	
6-12-12M	23853	6.4	12.8	12.3		106	
6-12-12M	25169	6.8	12.1	13.9		109	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

GLASGOW FERTILIZER COMPANY		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
7-12- 9S	24913	7.9	12.1*	9.9		104
8-13-11S	24781	8.5	13.9	11.9		105
8-16-16M	22948	8.0	17.3	18.3		107
8-16-16M	22949	8.3	17.5	17.3		107
10-10-10M	23418	10.5	10.1	11.8		106
10-10-10M	23623	10.1	9.9	11.3		102
10-10-10M	23851	11.2	11.9	9.8		112
10-10-10M	24101	10.8	11.0	10.5		108
10-10-10M	24518	9.2*	10.5	11.2		99
10-10-10M	25165	10.2	10.9	10.1		104
10-20-20M	22946	10.8	21.0	20.8		106
10-20-20M	22947	10.6	20.7	21.0		105
12- 7-11S	24911	12.2	5.9*	12.6		98
12- 7-11S	24912	12.8	6.4*	12.0		101
12-24-24M	23417	12.1	25.3	23.9		103
13- 8- 8M	24302	15.2	10.8	9.5		115
14- 6-10S	24301	14.4	8.3	9.9		104
15-15-15M	23852	16.2	18.1	13.7*		109
15-15-15M	24519	14.7	13.0*	16.7		96*
15-15-15M	25164	16.0	17.0	15.3		108
15-15-15M	25168	15.9	15.3	15.4		104
17-11-11M	25102	17.2	11.9	10.5*		100
18-18-18M	23505	17.0*	14.0*	22.9		94*
18-18-18M	24130	17.5*	16.4*	18.2		96*
20-10-10M	22944	21.7	10.0	12.1		108
20-10-10M	22945	22.2	10.9	11.7		111
W.R. GRACE & CO., DAV. CHEM.		BARTOW			FLA.	
GRADE	NUM	N	APA	POT	XS CL	RV
0-46- 0	23811	0.0	43.1*	0.0		94*
W.R. GRACE & CO., AGRI PROD DI		BOWLING GREENKY.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-15-10M	23095	5.1	14.9	11.4		103
6-18-12M	23094	6.1	16.3*	12.6		96*
15-10-10M	23093	15.2	10.4	11.4		104
82- 0- 0	25206	82.1	0.0	0.0		100
W.R. GRACE & CO., AGRI PROD DI		CADIZ			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-15-15M	24226	6.8	16.3	19.7		121
5-15-20M	25077	7.0	11.9*	22.0		103
15-10-10M	23033	15.1	10.1	10.0		101
16-12- 6M	22958	16.3	12.9	7.1		105
W. R. GRACE & CO AGRI PROD DIV		HICKORY			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-15-20M	24947	4.8	14.4*	21.1		99
W.R. GRACE & CO., AGRI PROD DI		HOPKINSVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-15-20M	23956	4.7*	12.9*	14.7*		84*
5-15-25M	22960	6.4	13.9*	26.9		105
5-15-25M	22966	6.7	21.2	10.2*		104
5-15-25M	22993	4.8	14.0*	27.7		100
5-15-25M	22994	4.8	15.0	25.2		99
5-15-25M	23954	5.2	15.4	25.7		103
5-15-25M	24342	6.7	19.9	11.4*		102
5-15-25M	24728	4.7*	14.1*	26.4		98
5-15-25M	24874	5.0	14.1*	26.1		99
5-15-25M	25087	4.9	13.9*	26.4		98
5-15-25M	25156	4.9	14.2*	26.8		100

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969

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

W.R. GRACE & CO., AGRI PROD DI HOPKINSVILLE KY.						
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	24403	6.0	12.6	13.5		105
9-10-15S	23953	9.0	11.6	12.2*		100
9-10-15S	24341	8.9	13.1	8.0*	*	98
9-10-15S	24594	10.0	10.2	11.8*		100
9-10-15S	24670	10.8	10.1	7.1*	*	96*
9-10-15S	25082	8.6*	9.5*	16.7		99
9-10-15S	25086	8.2*	10.6	11.5*		93*
9-10-15S	25088	8.9	9.7*	16.1		100
9-10-15S	25157	9.3	9.5*	21.7		110
9-10-15S	25158	9.6	9.7	16.5		104
9-27- 0	22959	9.0	26.7	0.0		99
9-27- 0	23955	8.6*	26.1*	0.0		96*
30- 0- 0	22961	29.9	0.0	0.0		99
W.R. GRACE & CO., NIT. DIV. MEMPHIS TENN						
GRADE	NUM	N	APA	POT	XS CL	RV
82- 0- 0	24340	82.1	0.0	0.0		100
82- 0- 0	24346	81.9	0.0	0.0		100
82- 0- 0	24350	81.9	0.0	0.0		100
82- 0- 0	24949	81.9	0.0	0.0		100
82- 0- 0	25044	82.0	0.0	0.0		100
82- 0- 0	25121	82.1	0.0	0.0		100
82- 0- 0	25197	82.1	0.0	0.0		100
82- 0- 0	25221	81.9	0.0	0.0		100
82- 0- 0	25224	82.0	0.0	0.0		100
82- 0- 0	25225	82.0	0.0	0.0		100
82- 0- 0	25228	82.1	0.0	0.0		100
82- 0- 0	25229	82.1	0.0	0.0		100
W.R. GRACE & CO. NASHVILLE TENN						
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-50S	24102	0.0	0.0	47.0*		94*
0- 0-60M	24764	0.0	0.0	60.2		100
0-20- 0	23812	0.0	18.8*	0.0		94*
0-20-20M	23042	0.0	19.8	21.4		102
0-20-20M	23979	0.0	19.6	19.9		98
3-10-30M	23831	3.0	8.8*	31.8		99
3-10-30M	25129	2.9	9.8	28.9*		97*
4-12- 8M	23981	4.5	11.3*	9.0		103
4-16- 4S	23416	4.3	16.8	5.2	*	107
5-10-15S	23590	4.8	10.5	15.2		102
5-10-15S	23798	5.0	10.8	15.5		104
5-10-15S	24307	4.8	10.2	15.2	*	100
5-10-15S	24526	5.1	13.0	15.3		113
5-20-20M	22938	5.5	19.7	19.6		101
5-20-20M	23032	5.3	20.0	19.8		101
5-20-20M	23060	5.5	19.7	19.7		101
5-20-20M	23101	4.9	19.8	17.3*		95*
5-20-20M	23114	5.0	20.1	19.4*		99
5-20-20M	23302	5.5	19.0*	18.9*		98
5-20-20M	23485	4.8	20.7	18.9*		100
5-20-20M	23663	5.0	19.9	20.2		100
5-20-20M	24232	5.5	18.5*	20.6		99
5-20-20M	24762	5.2	20.5	19.6		102
5-20-20M	24888	4.9	19.3*	19.4*		97*
5-20-20M	24983	4.5*	18.8*	19.9		95*
5-20-20M	25159	5.3	19.1*	18.4*		97*
5-40- 5M	24982	4.8	39.6	6.0		100
6-12-12M	22937	6.1	11.8	12.5		101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
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			
6-12-12M	23102	7.1	11.3*	11.9			103
6-12-12M	23415	5.7*	12.1	12.3			99
6-12-12M	23982	6.4	11.8	12.4			102
6-12-12M	24306	5.8	11.8	12.4			99
6-12-12M	25111	6.2	12.3	13.1			104
6-24-24M	24761	6.0	24.4	23.9			101
10-10-10M	23041	8.5*	10.8	12.4			99
10-10-10M	23303	9.9	10.2	10.3			100
10-10-10M	23401	9.5*	10.1	11.2			100
10-10-10M	23799	9.8	10.0	10.5			100
10-10-10M	23980	9.9	10.3	10.9			102
10-10-10M	24040	10.2	10.2	10.5			102
10-10-10M	24305	9.7*	10.0	10.8			99
10-10-10M	24887	9.4*	10.1	10.9			99
10-10-10M	25110	10.6	9.9	10.3			103
10-10-10M	25126	9.6*	10.1	10.8			100
10-10-15S	25128	9.6*	10.1	15.2			99
10-52- 8S	24231	10.3	51.6	8.8			101
15-15-15M	25127	15.3	15.0	15.0			101
82- '0- 0	24538	81.9	0.0	0.0			100
W.R. GRACE & CO.		NEW ALBANY		IND.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	23265	0.0	19.1*	19.9			97*
0-25-25M	24206	0.0	25.2	26.7			103
0-25-25M	24957	0.0	22.9*	27.0			97*
4-12- 8M	23775	4.8	11.9	9.6			109
4-12- 8M	25148	5.0	12.8	9.6			114
4-16- 4S	23166	4.4	16.2	5.3	*		106
4-16- 4S	23261	4.7	15.9	6.1	*		108
4-16- 4S	23400	4.1	15.9	5.5	*		104
4-16- 4S	23589	4.2	16.7	5.8			108
5-10-15S	23084	5.0	10.8	14.7	*		103
5-10-15S	23131	5.2	11.5	14.9	*		107
5-10-15S	23152	5.3	10.9	14.8	*		105
5-10-15S	23375	4.9	10.5	14.7			101
5-10-15S	23475	4.7	11.2	14.7			103
5-10-15S	23601	4.9	11.8	13.4*	*		104
5-10-15S	23928	5.1	10.2	17.4	*		106
5-10-15S	24000	5.2	10.9	16.0	*		107
5-10-15S	24039	5.2	10.8	15.8			106
5-10-15S	24127	4.9	10.4	15.3			101
5-10-15S	24219	5.4	10.1	15.2			103
5-10-15S	24335	5.0	11.0	15.0			104
5-10-15S	24493	4.7*	13.2	13.5*	*		108
5-10-15S	24658	5.0	11.6	15.5	*		107
5-10-15S	24958	4.9	11.1	15.5			105
5-20-20M	22973	4.9	20.9	20.8			103
5-20-20M	23262	5.5	19.1*	20.0			99
5-20-20M	23374	5.3	20.4	20.8			103
5-20-20M	23477	4.9	21.1	21.4			104
5-20-20M	23488	4.9	21.0	21.1			104
5-20-20M	23591	4.9	21.5	19.1*			102
5-20-20M	23600	4.9	20.9	21.0			103
5-20-20M	23777	5.1	20.3	21.2			103
5-20-20M	23797	4.9	22.0	19.4*			104
5-20-20M	24041	5.0	21.8	19.7			104
5-20-20M	24207	4.9	21.3	19.5*			102

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969

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

W.R. GRACE & CO.		NEW ALBANY		IND.		
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	25038	5.3	20.9	21.1		105
6- 6-18S	23629	6.3	7.1	18.3		107
6- 6-18S	24205	6.9	8.3	18.6		117
6-12-12M	22913	6.9	11.5*	12.8		104
6-12-12M	23627	5.9	13.6	13.3		108
6-12-12M	23738	6.7	12.1	12.6		105
6-12-12M	24269	6.0	13.5	13.0		107
6-12-12M	24336	5.8	13.3	13.7		107
6-12-12M	24657	5.9	13.6	12.7		106
6-12-18S	23543	6.0	11.9	18.0	*	100
6-12-18S	24037	6.0	12.7	18.7		104
6-12-18S	24504	5.9	13.4	18.0		104
6-24-24M	23008	5.5*	24.5	23.7		99
6-24-24M	24081	5.8	23.7	24.2		99
6-24-24M	24977	5.9	23.9	24.5		100
6-24-24M	25054	5.7*	23.7	22.4*		97*
9-10-15S	23264	8.7	10.5	14.9		100
10- 6- 4M	23929	11.0	6.9	5.4		114
10-10-10M	22912	9.4*	10.2	10.6		99
10-10-10M	22974	8.9*	10.9	10.5		98
10-10-10M	22980	9.3*	10.5	10.2		98
10-10-10M	23083	9.9	11.1	9.7		102
10-10-10M	23132	9.7	11.7	11.2		106
10-10-10M	23151	9.9	11.4	9.9		104
10-10-10M	23167	9.8	11.3	10.1		103
10-10-10M	23376	9.9	10.7	9.9		101
10-10-10M	23628	9.7	11.6	10.5		105
10-10-10M	23739	10.0	11.1	10.7		105
10-10-10M	23778	10.0	9.7	10.5		100
10-10-10M	24038	10.1	11.6	10.8		107
10-10-10M	24126	9.9	11.8	10.0		105
10-10-20S	24697	9.0*	10.9	19.9	*	98
10-10-20S	25179	9.1*	10.7	18.9*	*	97*
12-12-12M	23133	11.8	12.6	12.2		101
12-12-12M	23476	11.3*	12.2	12.3		98
12-12-12M	23544	11.5*	12.6	12.3		100
12-12-12M	24062	11.3*	12.7	13.4		101
12-12-12M	24959	11.3*	12.4	12.8		99
15-15-15M	24698	14.9	15.8	15.3		102
33- 0- 0	23864	34.8	0.0	0.0		104
GRAVES COUNTY SOIL IMP. ASSN.		MAYFIELD		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
23-11-11M	24760	25.1	12.4	9.8*		105
GREEN VALLEY FARM SUPPLY		ISLAND		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0-15-40M	24774	0.0	15.4	41.9		104
5-10-15S	24073	5.2	10.5	14.9		103
5-20-20M	24072	4.9	20.1	20.5		101
5-20-20M	24573	5.7	23.1	17.7*		108
5-20-20M	25154	5.1	19.7	21.6		102
5-40- 5M	24877	5.0	39.6	5.4		100
6-26-26M	25153	5.2*	20.2*	34.3		94*
10-10-10M	24574	10.6	10.9	10.1		106
GRO-GREEN CHEMICAL CO., INC.		SHELBYVILLE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0- 9-28M	25182	0.0	9.8	27.6*		99
0-23-30M	24827	0.0	24.4	31.6		106

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
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		
2- 5- 6S	24483	6.9	10.2	8.5		184
5- 6- 9S	24484	5.1	11.5	8.6*		119
5- 7- 7M	24838	5.5*	6.9*	8.9		99
5-10-15S	25034	5.5	11.6	15.2		110
5-20-20M	25177	5.5	18.7*	20.4		99
5-21-21M	24825	4.7*	21.1	23.7		101
6- 6- 8S	24389	8.0	10.3	14.2		140
6-18-24M	24826	7.1	19.9	22.4*		103
8- 8-12M	25181	19.4	7.9*	7.6*		145
8- 9-18S	24388	10.6	10.7	14.1*		108
8-10-15S	23443	7.9	14.6	12.4*		111
8-10-15S	23527	8.4	12.0	12.2*		104
8-10-15S	23528	8.3	11.8	13.3*		105
8-10-15S	23529	7.1*	10.2	16.5		98
8-10-15S	24387	6.7*	10.0	16.7		96*
8-10-15S	24689	8.9	11.2	15.2		109
8-10-15S	24875	7.5*	8.0*	18.9		97*
8-10-15S	25178	7.7	11.6	14.2*		103
8-11-11M	24837	9.8	10.5*	16.1		112
8-12-15S	24709	7.9	12.4	16.1		102
8-12-15S	25006	7.9	12.1	14.7		99
8-12-15S W/ME	23444	7.1*	10.9*	16.3		94*
8-16-16M	22906	7.4*	13.6*	16.0		91*
8-16-16M	22919	7.7	15.9	15.5*		98
8-24-10S	25057	8.8	24.4	9.9	*	104
8-24-10S W/ME	23441	8.4	24.5	11.7	*	105
8-24-10S W/ME	24690	8.8	17.5*	11.7	*	89*
9-13- 7S	24486	6.6*	25.1	9.9		127
10-10-10M	23442	8.1*	9.7	11.2		92*
10-10-10M	23530	8.1*	12.1	10.8		99
10-10-10M	24390	8.1*	14.3	11.8		108
10-10-10M	24828	8.3*	9.4*	9.5*		89*
10-10-10M	25058	8.6*	10.4	9.8		94*
10-13-11M	24485	9.1*	20.3	9.6*		111
12-12-12M	24688	11.6*	13.0	13.0		102
12-12-12M	24830	8.0*	9.5*	10.2*		74*
12-12-12M	25056	11.2*	12.6	13.2		100
14- 7- 7M	24391	10.1*	14.0	8.1		105
29- 8- 8M	24829	19.9*	12.1	10.7		85*
GRO-GREEN SALES CO., LEBANON		SHELBYVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-46- 0	23986	0.0	46.2	0.0		100
3- 6- 8M	23987	4.2	7.6	8.6		116
4- 6- 7S	24710	6.5	5.0*	9.3		112
7- 6- 8S	25033	8.0	8.3	18.6		138
8- 6-13S	24845	9.9	5.8*	16.0		107
8- 8- 6S	24711	8.3*	11.8	6.0		108
8-10-15S	23985	9.0	11.3	14.9		109
8-11-15M	23983	11.0	14.9	21.8		134
8-12-15S	23984	6.9*	9.5*	15.1		87*
8-12-15S	24236	7.0*	9.4*	18.1		92*
8-12-15S	24237	8.2	15.9	12.7*		110
9-13-12S	24707	8.8*	12.3*	14.3		95*
11- 0-12M	24208	12.2	0.0	12.9		103
13- 7-11M	24990	11.5*	6.6*	15.6		93*
20-10-10M	24708	18.9*	10.2	13.1		99
22-15-10M	25032	18.9*	19.0	10.0		97*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**

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

GRO GREEN PAYNES		MIDWAY			KY.		XS CL	RV
GRADE	NUM	N	APA	POT				
6-10-10S	25063	6.0*	10.2	13.0		103		
7- 8- 8M	24224	5.5*	6.4*	10.6		83*		
8-10-15S	24222	7.9	7.3*	17.5		95*		
8-12-15S	24221	6.8*	7.3*	19.1		86*		
10- 0- 7S	24223	9.2*	0.0	18.3		123		
17- 6- 9S	25064	16.9*	6.7	10.6		102		
GULF OIL CO AGRI CHEM DIV		BOWLING GREENKY.			XS CL	RV		
GRADE	NUM	N	APA	POT				
5-20-19M	24786	5.4	19.6*	26.1		109		
20-16-12M	24787	24.0	15.9	7.4*		104		
20-17-10M	24936	20.6	17.4	13.0		105		
82- 0- 0	25210	81.9	0.0	0.0		100		
GULF OIL CORP., AGRI CHEM DIV		CECILIA			XS CL	RV		
GRADE	NUM	N	APA	POT				
0-20- 0	22908	0.0	19.9	0.0		99		
0-20- 0	23312	0.0	19.9	0.0		99		
3-23-23M	24279	3.0	23.8	25.1		102		
5-10-15S	23311	5.6	9.3*	16.6		104		
5-10-15S	23702	4.6*	9.6*	15.7		97*		
5-10-15S	23994	5.3	10.4	15.5		105		
5-14-28M	24277	4.7*	15.2	28.6		98		
5-20-20M	22988	5.0	19.2*	21.2		99		
5-20-20M	23703	5.1	20.5	21.4		104		
5-20-20M	23779	5.1	20.1	21.4		103		
5-20-20M	24894	4.9	18.9*	21.3		98		
5-20-20M	24896	5.1	19.0*	21.3		99		
5-23-19M	24283	6.3	21.3*	19.3		97*		
6-12-12M	22989	5.9	12.5	13.1		103		
6-12-12M	23310	6.4	12.5	11.7*		103		
6-12-12M	23706	6.1	11.9	13.5		103		
6-12-12M	24278	5.9	12.3	13.9		104		
8-10-15S	23707	8.7	11.4	13.4*		106		
8-10-15S	23780	8.2	9.7	14.2*		99		
10-10-10M	22990	10.2	10.1	11.3		103		
10-10-10M	23309	9.9	10.2	11.0		102		
10-10-10M	23704	10.1	10.0	11.7		103		
10-10-10M	23998	10.0	10.0	10.8		101		
10-10-10M	24281	9.8	12.1	10.4		107		
10-10-10M	25239	10.9	9.8	9.8		103		
11-22-11M	24282	11.0	22.5	12.9		102		
15-15-15M	23705	15.8	17.0	14.5*		106		
16-21-18M	24280	15.8	23.1	18.1		103		
32-21- 0	24895	31.6	22.7	0.0		100		
GULF OIL CORP., AGRI CHEM DIV		CLARKSON			XS CL	RV		
GRADE	NUM	N	APA	POT				
0-20- 0	22926	0.0	20.7	0.0		104		
0-46- 0	22927	0.0	46.9	0.0		102		
4-12- 8M	24715	3.9	12.0	8.7		101		
5-20-20M	22925	4.5*	19.1*	21.5		98		
5-20-20M	24716	5.6	20.4	20.0		103		
6-12-12M	22924	5.5*	12.7	12.4		101		
6-37- 0	24714	6.2	37.9	0.0		101		
7-18-23M	24718	21.0	10.7*	16.4*		121		
15-15-15M	24717	15.5	14.7	14.3*		100		
17-17- 4M	22923	19.3	16.0*	6.1		103		

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

GULF OIL CORP., AGRI CHEM DIV			CLAY		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV		
0-20-33M	24750	0.0	20.3	35.2		102		
0-21-32M	24751	0.0	21.2	33.0		101		
0-23-30M	25047	0.0	23.2	30.1		101		
2-21-28M	22953	2.3	18.4*	34.5		100		
5-10-15S	24496	5.1	10.4	16.0		104		
5-20-20M	24498	5.0	19.9	21.1		101		
6-24-24M	24495	6.6	25.9	25.2		108		
12-12-12M	24497	10.3*	16.9	14.9		111		
82- 0- 0	24836	82.1	0.0	0.0		100		
GULF OIL CO AGRI CHEM DIV			FREDONIA		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV		
6-24-24M	24737	5.9	24.2	24.8		101		
10-27-24M	25045	11.0	27.3	22.8*		99		
12-33-16M	25046	12.1	33.0*	17.0		99		
16-17-11M	24740	19.4	20.5	13.7		116		
17-18-18M	24739	16.2*	18.1	20.0		99		
18-16-16M	23028	18.6	16.7	17.4		100		
21-11-13M	24738	21.8	13.1	14.3		103		
82- 0- 0	25235	82.2	0.0	0.0		100		
GULF OIL CORP., AGRI CHEM DIV			HARTFORD		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV		
5-20-20M	24745	5.5	23.6	21.5		113		
12-12-16S W/ME	24746	12.3	12.8	16.7		104		
19-11-18M	24972	19.3	10.9*	17.9*		99		
GULF OIL CORP., AGRI CHEM DIV			HENDERSON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV		
0-19-34M	24771	0.0	17.0*	38.4		98		
4-10-15M W/ME	25048	4.3	10.0	17.3		107		
5-10-15S	24109	5.8	10.2	16.5		109		
5-20-20M	24772	5.2	21.8	20.4		106		
5-20-30M	23004	4.5*	19.9	30.0		98		
5-20-30M	23024	4.7	20.2	30.0		100		
6-24-24M	23658	6.6	27.1	25.4		110		
6-24-24M	23774	6.9	28.9	23.6		113		
7-28-14M	25144	7.7	24.2*	13.2*		93*		
7-37- 7M	25145	7.0	33.3*	7.4		93*		
12-12-12M	22915	11.1*	14.4	13.3		105		
12-12-12M	23003	11.6*	10.7*	14.0		98		
12-12-12M	25151	11.9	12.9	11.8		102		
19-19-19M	25146	17.9*	21.0	19.1		101		
82- 0- 0	25201	82.0	0.0	0.0		100		
GULF OIL CORP., AGRI CHEM DIV			HENDERSON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV		
30- 0- 0	24776	30.2	0.0	0.0		101		
33- 0- 0	23999	34.6	0.0	0.0		103		
82- 0- 0	24534	81.9	0.0	0.0		100		
82- 0- 0	24539	81.9	0.0	0.0		100		
82- 0- 0	24833	82.0	0.0	0.0		100		
82- 0- 0	25214	82.0	0.0	0.0		100		
82- 0- 0	25236	82.2	0.0	0.0		100		
GULF OIL CORP AGRI CHEM DIV			HODGENVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV		
0-26-26M	24443	0.0	26.7	26.4		102		
4-16-16M	24441	4.9	17.0	17.7		102		
10-26-26M	24440	10.8	22.5*	31.6		100		
18-45- 0	24439	18.3	45.8	0.0		101		
21-11-14M	24444	20.5*	12.4	16.4		101		



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

GULF OIL CORP AGRI CHEM DIV		HODGENVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
21-13-13M	24438	21.7	14.0	13.6		102
GULF OIL CORP AGRI CHEM DIV		HORSE CAVE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
3-23-20M	24291	3.8	24.0	22.6		103
5-20-20M	23997	5.2	18.7*	22.4		101
5-20-20M	24288	5.1	21.7	21.6		107
5-20-20M	24290	5.4	20.4	22.0		105
8-10-13S	24531	9.8	14.3	15.0		124
10- 9-13S	24289	10.6	10.3	13.4		104
10-22-11M	24287	11.0	22.5	13.8		104
12-24- 8M	23421	11.1*	22.3*	10.5		96*
17-20-16M	24528	16.4*	19.8	19.4		99
18-11-11M	24530	18.6	13.0	11.4		103
19-11-11M	24529	18.3*	12.3	12.9		102
19-19- 0	23422	19.9	19.7	0.0		102
GULF OIL CORP AGRI CHEM DIV		IRVINGTON KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
4-12- 8M	24649	3.0*	13.9	7.4*		100
5-10-14S	24651	6.0	10.0	14.5		105
5-26-17M	24650	4.6*	24.8*	19.9		96*
6-12-12M	24647	5.9	13.3	12.4		105
6-26-26M	24652	6.2	25.6	27.5		100
9-18-18M	24648	6.1*	12.0*	11.6*		64*
11-11-15S W/ME	24646	11.8	13.4	16.7	*	105
GULF OIL CORP., AGRI CHEM DIV		KANSAS CITY MO.			XS CL	RV
GRADE	NUM	N	APA	POT		
6-24-24M	23025	5.7*	23.7	25.0		99
10-10-10M	23649	9.5*	10.9	10.8		102
12-12-16S	23995	12.0	12.4	15.9		101
15-15-15M	23648	14.2*	17.4	16.5		104
15-15-15M	23996	14.5*	17.4	16.2		105
33- 0- 0	23150	34.1	0.0	0.0		102
33- 0- 0	23333	34.2	0.0	0.0		102
33- 0- 0	24183	34.4	0.0	0.0		103
GULF OIL CORP., AGRI CHEM DIV		MORGANFIELD KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-26-26M	24364	0.0	28.2	24.3*		103
5-10-10M	24778	4.5*	10.7	9.6*		99
9- 9- 9M	22952	8.6*	9.7	8.4*		99
12- 5- 8M	24361	11.9	5.8	7.7*		102
82- 0- 0	25199	81.9	0.0	0.0		100
GULF OIL CORP., AGRI CHEM DIV		MADISONVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-26-26M	24769	0.0	25.6	27.7		101
82- 0- 0	25193	82.1	0.0	0.0		100
GULF OIL CORP., AGRI CHEM DIV		OWENSBORO KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-15-40M	24071	0.0	18.5	36.8*		105
5-10-15S	24565	5.1	10.3	15.9		104
5-20-20M	24563	5.3	20.2	19.9		102
5-20-30M	24564	5.2	20.1	30.0		101
6-24-24M	24568	6.6	25.9	26.9		109
7-14- 7M	24973	5.3*	12.4*	7.7		86*
12-12-16S	24567	12.2	13.3	16.7		105
15-15-15M	24566	14.9	18.1	15.4		107
82- 0- 0	25195	82.2	0.0	0.0		100

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

GULF OIL CORP AGRI CHEM DIV		RUSSELLVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
5-20-20M	25140	5.9	19.1*	21.9		104
7- 9-14S	24944	9.0	20.4	14.8		152
8- 8-13M	25139	9.1	8.6	13.4		102
12-12-12M	24943	10.8*	11.9	14.0		98
82- 0- 0	24533	82.1	0.0	0.0		100
82- 0- 0	25205	81.9	0.0	0.0		100
GULF OIL CORP., AGRI CHEM DIV		SIKESTON MO.			XS CL	RV
GRADE	NUM	N	APA	POT		
6-18-30M W/ME	24494	6.2	17.8	30.6		101
6-24-24M	25152	6.9	23.9	27.7		107
15-15-15M	25149	15.0	16.0	16.1		103
GULF OIL CORP., AGRI CHEM DIV		STURGIS KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-15-40M	24358	0.0	14.9*	40.7		100
0-26-26M	23038	0.0	23.8*	30.5		100
5-22-22M	24848	5.7	24.5	25.0		107
6-18- 6M	24775	6.9	16.2*	6.0		99
7-19-34M	23805	6.2*	18.1*	36.9		95*
82- 0- 0	25196	81.9	0.0	0.0		100
GULF OIL CORP AGRI. CHEM DIV		WALNUT RIDGE ARK			XS CL	RV
GRADE	NUM	N	APA	POT		
6-24-24M	23005	6.0	24.2	23.5*		100
6-24-24M	23228	5.9	23.7	24.6		100
6-24-24M	23313	6.2	23.9	24.2		101
6-24-24M	24108	6.6	26.0	26.2		109
6-24-24M	24359	5.9	24.2	24.2		100
12-12-16S W/ME	24110	12.5	12.3	16.4		103
12-12-16S W/ME	24147	12.5	12.5	16.7		104
15-15-15M	23044	14.6	15.9	14.6		100
15-15-15M	23229	15.0	15.0	15.1		100
HERITAGE HOUSE PRODUCTS, INC.		CLEVELAND OHIO			XS CL	RV
GRADE	NUM	N	APA	POT		
11- 4- 7M	25073	12.7	4.3	7.7		113
HIGHLAND DISTRIBUTORS INC		SADLERSVILLE TENN			XS CL	RV
GRADE	NUM	N	APA	POT		
9-18-28M/S	24602	8.6*	14.2*	32.8		93*
HOPKINS COUNTY FARM SERVICE		MADISONVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-15-40M	24768	0.0	11.2*	39.8		89*
0-20-29M	23043	0.0	16.0*	33.2		94*
5-20-20M	25118	5.2	20.1	20.0		101
6-24-24M	25115	6.0	23.7	24.5		100
9-27- 5M	24975	5.7*	16.9*	3.2*		63*
9-27- 5M	25117	8.9	26.7	5.1		99
82- 0- 0	24112	82.1	0.0	0.0		100
82- 0- 0	24113	82.0	0.0	0.0		100
HOWE-HILLIARD GRAIN CO.		MAYFIELD KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
9-23-30M	24757	9.5	23.7	30.7		103
HUTSON CHEMICAL COMPANY		MURRAY KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
5-20-20M	24227	7.9	18.2*	19.6		106
5-20-20M	24588	5.2	21.3	21.6		107
6-12-12M	24593	6.4	15.7	14.2		120
6-24-24M	23231	6.3	25.2	24.8		104
6-24-24M	23683	5.7	21.6*	27.0		97*
8-30-16M	24229	8.3	29.6	16.7		101

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

HUTSON CHEMICAL COMPANY		MURRAY		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
12-18-18S	24228	12.7	19.9	18.0		106	
15-15-15M	22936	15.3	15.3	16.0		103	
15-15-15M	24230	16.5	16.7	13.0*		106	
15-15-15M	24976	13.7*	14.3*	17.4		97*	
INTERNATIONAL MIN & CHEM CORP		CHICAGO HGHTSILL.					
GRADE	NUM	N	APA	POT	XS CL	RV	
82- 0- 0	25202	82.0	0.0	0.0		100	
INTERNATIONAL MIN & CHEM CORP		CINCINNATI		OHIO			
GRADE	NUM	N	APA	POT	XS CL	RV	
0- 0-50S	24179	0.0	0.0	49.9		100	
0- 0-60M	24188	0.0	0.0	61.2		102	
0-46- 0	24187	0.0	45.7	0.0		99	
4-12- 8M	24622	4.0	11.9	10.0		104	
4-16- 4S	23221	3.9	12.9*	6.5		91*	
4-16- 4S	23367	4.2	15.4*	4.5		100	
4-16- 4S	23616	3.9	15.9	4.9		101	
5-10-10M	24258	5.2	10.2	11.1		105	
5-10-15S	23196	4.5*	9.8	15.5		97*	
5-10-15S	23219	4.8	10.1	15.3		100	
5-10-15S	23267	5.0	9.7	15.9		101	
5-10-15S	23268	4.9	10.1	15.1		100	
5-10-15S	23318	4.6*	10.3	15.5		100	
5-10-15S	23323	4.9	9.5*	15.5		98	
5-10-15S	23327	5.1	10.4	15.3		103	
5-10-15S	23334	5.2	10.5	14.2*		102	
5-10-15S	23356	5.6	10.1	14.8		103	
5-10-15S	23357	5.1	10.3	16.4		105	
5-10-15S	23368	5.2	9.9	16.0		103	
5-10-15S	23369	4.8	10.1	14.9		99	
5-10-15S	23615	4.9	11.0	15.4		104	
5-10-15S	23617	5.1	10.2	16.0		103	
5-10-15S	23721	4.8	9.2*	15.8		97*	
5-10-15S	24433	4.9	10.4	14.9		101	
5-10-15S	24446	4.6*	10.3	16.0		101	
5-10-15S	24456	5.2	11.9	19.3		118	
5-10-15S	24610	5.1	10.5	16.1		105	
5-10-15S	24997	4.5*	9.4*	14.5*		94*	
5-20-20M	23222	5.5	18.9*	19.6		98	
5-20-20M	23359	4.8	20.4	19.4*		99	
5-20-20M	24448	4.6*	20.1	20.0		99	
6- 6-18S	24612	5.9	6.3	18.9		102	
6-12-12M	23220	6.0	11.6*	11.2*		97*	
6-12-12M	23329	5.4*	11.4*	13.3		96*	
6-12-12M	23335	5.5*	14.5	16.9		116	
6-12-12M	24058	5.9	12.5	13.6		104	
6-12-12M	24447	5.5*	12.0	13.7		101	
6-12-12M	24458	5.1*	12.1	13.1		98	
6-12-12M	24623	4.9*	12.5	13.9		99	
6-12-12M	24998	5.7	12.0	12.0		98	
6-12-18S	23269	6.5	12.2	17.0*		101	
6-12-18S	23320	6.7	12.8	16.3*		103	
6-12-18S	23358	6.4	12.3	17.5*		102	
6-12-18S	23370	6.4	11.8	19.6	*	104	
6-12-18S	23722	6.3	12.7	19.1		105	
6-12-18S	24431	6.0	11.9	19.4	*	102	
6-12-18S	24457	6.2	12.1	20.8		106	
6-24-24M	24886	5.8	23.7	23.9		99	

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INTERNATIONAL MIN & CHEM CORP		CINCINNATI		OHIO			
GRADE	NUM	N	APA	POT	XS CL	RV	
10-10-10M	23270	9.4*	10.2	10.8		99	
10-10-10M	23322	9.4*	10.3	10.8		99	
10-10-10M	23328	9.3*	10.6	10.6		99	
10-10-10M	23371	9.6*	10.3	12.1		103	
10-10-10M	24432	9.6*	10.5	11.0		101	
10-10-10M	24459	9.5*	10.4	11.3		101	
10-10-10M	24609	9.9	10.7	12.2		105	
10-10-10M	24611	9.2*	11.0	11.0		101	
10-10-10M	25031	10.3	10.1	12.3		105	
12-12-12M	23321	11.2*	12.7	12.6		100	
12-12-12M	23372	11.5*	12.2	12.4		99	
30- 0- 0	24428	30.2	0.0	0.0		101	
INTERNATIONAL MIN & CHEM CORP		CLARKSVILLE		TENN			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20- 0	24003	0.0	18.6*	0.0		93*	
0-20-20M	24552	0.0	20.2	18.3*		98	
0-20-20M	24557	0.0	18.6*	23.0		100	
0-30-20M	24550	0.0	30.1	20.8		101	
5-10-10M	25090	5.9	10.2	10.6		109	
5-10-15S	23383	5.5	9.9	14.9		102	
5-10-15S	24553	5.9	10.2	15.1		107	
5-20-20M	24094	5.4	20.5	19.1*		102	
5-20-20M	24551	5.2	19.1*	19.9		98	
5-20-20M	24554	5.5	17.2*	20.6		95*	
6-12-12M	22943	5.9	11.4*	11.4*		96*	
6-12-12M	24558	6.6	12.4	12.4		106	
6-12-18S	24555	5.9	13.1	18.4	*	104	
10-10-10M	22942	9.4*	10.9	9.5*		99	
10-10-10M	23384	9.7	10.5	9.5*		99	
10-10-10M	24556	9.9	10.2	11.3		102	
10-10-10M	24633	9.5*	10.9	11.2		102	
10-10-10M	24635	9.4*	10.5	11.4		101	
82- 0- 0	25215	82.1	0.0	0.0		100	
82- 0- 0	25216	81.8	0.0	0.0		100	
INTERNATIONAL MIN & CHEM CORP		SKOKIE		ILL.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0- 0-50S	23922	0.0	0.0	51.3		103	
0- 0-50S	24639	0.0	0.0	48.3*		97*	
0-20- 0	24449	0.0	18.9*	0.0		94*	
0-46- 0	22997	0.0	47.0	0.0		102	
INTERNATIONAL MIN & CHEM CORP		SOMERSET		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20-20M	24429	0.0	19.9	19.9		100	
4-12- 8M	23148	3.2*	12.7	10.2		103	
4-16- 4S	23639	4.5	15.1*	6.0		103	
4-16- 4S	23785	3.8	15.2*	5.4		98	
5-10-15S	23603	5.0	10.0	16.6	*	103	
5-10-15S	23640	5.0	10.4	15.5		102	
5-10-15S	24117	5.0	9.3*	16.8		101	
5-10-15S	24511	5.1	10.3	15.7		103	
5-20-20M	23105	4.5*	18.7*	19.0*		93*	
5-20-20M	23336	5.2	18.8*	19.7		97*	
5-20-20M	23350	4.9	19.9	19.7		99	
5-20-20M	23481	5.1	21.4	18.5*		102	
5-20-20M	23525	4.8	17.7*	19.9		93*	
5-20-20M	23602	4.7*	19.0*	19.1*		95*	
5-20-20M	23836	4.1*	13.3*	22.9		82*	

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INTERNATIONAL MIN & CHEM CORP		SOMERSET		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	23939	5.2	18.1*	19.6		95*
5-20-20M	24017	5.2	19.7	20.9		101
5-20-20M	24018	5.1	16.2*	19.5*		90*
5-20-20M	24116	5.2	17.6*	19.9		94*
5-20-20M	24243	5.2	16.5*	18.8*		90*
5-20-20M	24510	4.9	18.9*	18.9*		95*
5-20-20M	24520	5.3	20.5	18.9*		101
5-20-20M	24964	4.9	20.1	17.5*		96*
6-12-12M	23149	5.1*	11.1*	12.7		93*
6-12-12M	23604	5.6*	12.5	13.4		102
6-12-12M	24966	5.1*	11.8	11.5*		93*
6-12-18S	23319	6.8	12.5	16.2*		103
6-12-18S	23720	6.5	12.5	17.0*		102
6-12-18S	24985	6.0	12.1	18.0		100
10-10-10M	23337	10.4	11.7	14.8		115
10-10-10M	23605	9.7	10.4	11.6		102
10-10-10M	23736	9.6*	9.9	10.4		98
10-10-10M	23835	9.9	10.4	13.9		107
10-10-10M	23940	9.3*	10.0	10.8		98
10-10-10M	24118	10.0	10.5	12.7		106
10-10-10M	24965	9.2*	9.7	12.4		99
KAISER AGRICULTURAL CHEMICALS		NORTH BEND		OHIO		
GRADE	NUM	N	APA	POT	XS CL	RV
30- 0- 0	25059	30.0	0.0	0.0		100
KENGAS DIV TENN LIQUEFIED GAS		OWENSBORO		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
5-15-30M	24879	5.0	14.7	31.1		101
7-21-21M	24878	6.9	20.7	22.7		101
KENTUCKY FERTILIZER WORKS		WINCHESTER		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
4- 4-18M	24158	4.7	5.7	18.0*		101
5-10-15S	24159	4.9	10.2	15.3		101
5-10-15S	24632	4.8	10.5	15.4		102
5-10-15S	25106	5.1	10.2	14.6*		101
6- 2-12S	24157	7.0	3.4	12.5		105
6- 6-18S	23508	5.8	6.7	16.6*		99
6- 6-18S	23926	6.4	6.6	16.3*		101
6- 6-18S	25105	4.9*	10.3	14.7*		104
8-10-15M	24396	8.1	10.8	14.0*		102
12-12-12M	24160	12.5	12.8	12.4		105
16- 0-25S	24634	8.3*	0.0	35.2		80*
KERR-MCGEE FARM CENTER		CADIZ		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	24763	4.9	20.5	20.2		101
6-24-24M	24091	6.0	25.4	23.1*		102
8-12-20S	24093	8.5	12.4	20.7		104
8-28-12S W/ME	24092	7.9	27.5	13.5		100
14-14-14M	25085	14.6	14.3	14.4		103
KERR-MCGEE FARM CENTER		GUTHRIE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0-26-26M	24600	0.0	24.1*	30.1		101
0-30-20M	24601	0.0	28.8*	22.6		100
KERR-MCGEE FARM CENTER		PEMBROKE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	24548	0.0	20.4	18.3*		98
4-24-12M	24546	5.0	25.4	11.9		108
5-10-15S	24547	5.5	11.9	14.7		110

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KERR-MCGEE FARM CENTER		PEMBROKE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
6-24-24M	24545	5.8	23.8	24.2		99
8-12-20S W/ME	24543	8.9	15.4	18.6*		112
14-14-14M	24544	14.9	15.5	13.7		106
16-16-16S	24542	16.0	17.2	15.4*	*	102
LORETTO FERTILIZER SALES & SER		LORETTO		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
11- 9-14S	24992	12.5	9.9	13.5*	*	104
MAYFIELD MILLING COMPANY		MAYFIELD		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
5-19-19M	24758	5.2*	16.9*	20.2		90*
MAYS OIL & ALLIED CHEMICAL CO.		PRINCETON		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
30- 0- 0	24503	30.8	0.0	0.0		103
MILES FARMS		OWENSBORO		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-62M	24744	0.0	0.0	61.9		100
0-23-30M	24741	0.0	22.7	31.9		102
3-10-30M	24743	2.9	9.7	31.5		101
16-11-12S	24069	16.3	11.9	14.0		101
17-17-17M	24370	17.0*	17.9	19.8		101
19-13-13M	24070	19.8	14.4	13.9		104
20-15-14M	24742	19.9*	15.4	16.4		101
82- 0- 0	24832	81.9	0.0	0.0		100
MOBIL CHEM CO, AGRI CHEM DIV		RICHMOND		VA.		
GRADE	NUM	N	APA	POT	XS CL	RV
0-20- 0	23204	0.0	20.4	0.0		102
0-20- 0	23681	0.0	21.9	0.0		110
0-20- 0	24799	0.0	25.9	0.0		129
0-20-20M	23182	0.0	20.0	19.6		99
0-20-20M	23820	0.0	19.9	19.6		99
0-20-20M	24797	0.0	18.2*	28.9		109
0-25-25M	23737	0.0	23.1*	25.1		95*
0-25-25M	24516	0.0	26.6	25.1		104
4-12- 0M	23037	4.8	13.6	0.0		115
4-12- 8M	22911	5.0	14.4	15.1		133
4-12- 8M	23181	5.8	11.6*	11.4		118
4-12- 8M	23203	4.3	13.3	11.2		115
4-12- 8M	24795	5.0	18.3	11.6		144
4-16- 4S	23158	4.6	15.8	5.0		105
4-16- 4S	23159	4.1	16.5	5.1	*	105
4-16- 4S	23180	3.5*	15.7	4.1		96*
4-16- 4S	23300	5.0	15.9	5.9	*	109
4-16- 4S	23349	4.3	14.5*	7.7	*	103
4-16- 4S	23566	4.3	15.8	5.1		103
4-16- 4S	23574	4.6	18.7	4.5		116
4-16- 4S	23786	4.1	16.0	5.0	*	103
4-16- 4S	23905	4.4	15.9	4.9	*	104
4-16- 4S W/ME	23680	3.9	15.0*	5.3		98
5-10-10M	23205	5.2	11.7	11.0		111
5-10-15S	23089	5.4	9.9	15.0	*	102
5-10-15S	23206	5.4	11.1	14.7	*	106
5-10-15S	23207	5.7	10.2	16.6	*	108
5-10-15S	23299	5.6	10.5	16.8	*	109
5-10-15S	23348	6.0	10.5	17.6	*	113
5-10-15S	23555	4.9	10.5	14.5*		100
5-10-15S	24047	4.2*	10.4	14.1*		95*
5-10-15S	24597	5.5	11.9	17.2	*	115

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969

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

MOBIL CHEM CO, AGRI CHEM DIV	RICHMOND	VA.	XS CL	RV	
GRADE	NUM	N	APA	POT	RV
5-10-15S	24962	4.9	10.8	15.2	103
5-20-20M	22909	5.2	19.1*	20.6	99
5-20-20M	22969	5.6	19.8	19.5*	101
5-20-20M	23576	5.1	20.7	20.1	103
5-20-20M	23613	4.9	20.5	19.9	101
5-20-20M	23735	4.6*	20.1	18.8*	97*
5-20-20M	24248	5.4	19.8	20.8	102
5-20-20M	24515	5.7	20.1	18.0*	100
5-20-20M	24523	5.1	19.7	20.0	100
5-20-20M	24599	5.2	21.9	20.5	106
5-20-20M	24788	5.5	23.4	21.9	113
5-20-20M	24803	5.2	19.7	21.0	101
5-20-20M	24963	5.4	19.7	19.1*	99
5-20-20M	25170	5.4	19.7	20.4	101
5-20-20M W/ME	23063	5.5	20.6	20.7	104
5-20-20M W/ME	24953	4.8	20.1	19.6	99
6-12-12M	23090	6.1	11.8	12.3	100
6-12-12M	23684	5.9	12.6	12.2	102
6-12-12M	23819	6.0	12.1	12.8	102
6-12-12M	24004	6.3	11.7	12.8	102
6-12-12M	24796	5.1*	10.3*	12.4	89*
6-12-18S	23183	6.0	12.1	18.5	101
6-12-18S	24525	6.0	12.3	18.0	101
6-12-18S	24798	5.5*	11.4*	18.9	97*
6-12-18S	25097	5.5*	12.3	16.1*	95*
6-12-18S W/ME	23145	6.0	12.5	18.9	103
6-12-18S W/ME	23625	5.9	13.4	19.0	106
6-12-18S W/ME	23818	5.9	11.8	18.3	99
6-12-18S W/ME	24598	5.8	12.6	19.9	104
6-12-18S W/ME	24952	6.1	13.3	19.4	107
6-24-24M	24954	5.6*	21.8*	25.0	95*
8-24-16M	24119	8.1	24.6	15.1*	101
8-24-16M	24124	7.9	24.6	16.6	102
8-24-16M	24125	7.9	22.7*	17.8	99
8-24-16M	24512	8.2	23.7	16.9	101
8-24-16M	24513	8.7	24.6	14.9*	103
8-24-16M	24521	8.4	24.4	15.7	102
10-10-10M	22910	10.2	10.2	9.9	101
10-10-10M	23071	9.3*	10.1	10.6	98
10-10-10M	23298	9.6*	9.7	11.9	100
10-10-10M	23556	9.1*	10.4	10.4	97*
10-10-10M	23575	9.9	10.8	11.1	104
10-10-10M	23614	5.2*	11.3	11.6	83*
10-10-10M	23671	5.5*	11.0	11.7	84*
10-10-10M	23914	5.4*	11.0	11.3	82*
10-10-10M	23933	7.2*	10.6	19.0	103
10-10-10M	24005	9.8	10.8	10.1	102
10-10-10M	24048	5.3*	11.9	11.9	86*
10-10-10M	24247	6.5*	11.3	17.6	100
10-10-10M	24522	8.2*	11.6	10.7	98
10-10-10M	24595	10.7	11.8	12.3	113
10-10-10M	24613	9.8	10.1	11.1	101
10-10-10M	24794	9.5*	9.4*	9.9	95*
10-10-10M W/ME	24596	10.9	11.0	9.9	108
10-20-20M	23146	10.5	22.7	18.0*	105
10-20-20M	24802	10.4	20.9	19.9	103
10-20-20M	25203	9.9	24.6	15.6*	105

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
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			
12-12-12M	25107	12.1	12.2	12.8			102
12-24-24M	24614	11.8	23.2*	24.0			98
13- 0-44S	23184	13.7	0.0	43.5			102
14-14-14M	24514	14.5	15.4	14.6			106
14-14-14M W/ME	23672	13.9	15.2	14.3			103
28- 0- 0	24524	29.1	0.0	0.0			104
28- 0- 0	24801	29.0	0.0	0.0			104
82- 0- 0	25226	82.1	0.0	0.0			100
82- 0- 0	25230	82.0	0.0	0.0			100
82- 0- 0	25231	82.1	0.0	0.0			100
MONSANTO AGRI. CENTERS, INC.		SLAUGHTERS		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-19-34M	24748	0.0	24.1	36.4			115
0-26-26M	24749	0.0	21.9*	32.0			97*
0-34-15M	24747	0.0	23.3*	30.6			92*
5-10-15S	24502	5.0	11.3	15.2		*	105
5-20-20M	24501	5.0	20.1	20.7			101
5-20-30M	24499	5.0	20.6	30.4			102
6-16-35M W/ME	25119	6.1	14.4*	37.0			99
6-26-26M	23664	6.0	26.6	26.6			102
6-26-26M	25120	6.3	23.4*	28.1			98
10-10-10M	24500	10.1	10.3	13.6			107
MONSANTO COMPANY		ST. LOUIS		MO.		XS CL	RV
GRADE	NUM	N	APA	POT			
82- 0- 0	24834	82.1	0.0	0.0			100
MORRISON FARM SERVICE		HODGENVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
13-17-13M	24442	14.2	17.8	13.9			105
18-11-11M	24905	19.0	12.2	10.0*			102
NA-CHURS PLANT FOOD COMPANY		MARION		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
2-20-18M	24903	2.2	20.7	17.9			102
5-20- 5M	24904	5.5	20.7	7.0			108
10-20-10M	24902	9.9	20.7	10.2			101
NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20- 0	22900	0.0	21.6	0.0			108
0-25-25M	23645	0.0	22.1*	29.3			98
4-12- 8M	23550	3.7	13.3	7.7*			103
4-16- 4S	23214	4.0	12.7*	7.6		*	94*
4-16- 4S	23409	4.3	15.4*	5.4			102
4-16- 4S	23584	4.0	15.8	5.8		*	103
4-16- 4S	23784	4.3	15.0*	6.8		*	104
5-10-15S	23211	4.8	9.9	16.2			101
5-10-15S	23644	4.9	10.2	16.9			104
5-10-15S	23714	5.0	10.2	15.3			101
5-10-15S	24064	4.9	11.1	15.4			105
5-10-15S	24186	5.1	10.2	14.9			101
5-10-15S	24315	4.7*	10.5	15.4			101
5-10-15S	24317	4.7*	10.0	17.8		*	104
5-20-20M	23642	5.6	20.3	20.2			103
5-20-20M	23709	4.9	19.3*	20.1			98
5-20-20M	24145	5.6	21.2	19.5*			105
5-20-20M	24190	5.3	21.8	18.9*			105
5-20-20M	24987	5.0	21.0	19.9			102
5-20-20M	25027	5.1	20.6	20.2			102
6-12-12M	23213	6.1	13.2	15.4			112



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**

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

NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
6-12-12M	23643	6.9	11.6*	12.5		104	
6-12-12M	23711	5.0*	15.1	13.1		108	
6-12-18S	24180	6.1	11.1*	18.7		99	
6-12-18S	24331	6.0	11.5*	19.8		101	
6-12-18S	25026	6.5	12.5	17.6	*	103	
7-22-14M	W/ME 24318	6.8	23.7	14.7		104	
8- 8-15S	24682	7.4*	8.3	22.6		109	
8-10-15S	23710	7.6*	9.4*	16.3		98	
8-10-15S	24182	8.0	10.0	15.7		101	
8-10-15S	24185	8.2	10.3	15.5		103	
8-10-15S	W/ME 24189	7.7	10.0	15.9		100	
9- 9-17S	23715	8.0*	10.0	17.4	*	99	
9- 9-17S	24146	8.5*	9.7	18.4		102	
9- 9-17S	24986	8.8	10.2	17.0		103	
9- 9-17S	W/ME 24178	8.7*	10.0	16.9		101	
9- 9-17S	W/ME 24181	8.4*	9.5	19.0	*	102	
9- 9-17S	W/ME 24215	9.3	9.5	18.6		105	
10-10-10M	23212	9.3*	9.9	11.3		98	
10-10-10M	23551	10.5	14.1	10.8		117	
10-10-10M	23641	9.7	7.8*	12.0		94*	
10-10-10M	23713	9.6*	11.6	10.4		104	
10-10-10M	23993	9.6*	11.1	11.6		104	
10-10-10M	24063	9.5*	7.4*	11.9		92*	
10-10-10M	24184	10.2	11.1	10.9		106	
10-10-10M	24314	9.6*	10.2	11.7		101	
11- 9-19S	24876	11.2	8.1*	21.6		99	
15-15-15M	23712	14.8	14.5*	15.1		98	
15-15-15M	24316	14.2*	16.2	15.5		100	
NORTH AMERICAN FERTILIZER CO		GEORGETOWN		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
10-10-10M	25029	9.8	11.0	9.9		102	
OHIO VALLEY FERTILIZER, INC.		MAYSVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-10-10M	24375	4.9	10.9	11.7		107	
5-10-10M	24060	5.1	10.2	11.9		106	
5-10-15S	24059	5.1	10.7	16.0		105	
5-10-15S	24373	5.0	10.4	15.7		103	
5-10-20S	24372	4.9	10.8	19.0*		100	
5-20-20M	24380	4.3*	20.7	20.2		99	
5-20-20M	24863	4.0*	21.0	21.0		100	
6- 6-18S	24374	5.6*	7.9	19.9		110	
6- 8- 6M	24866	6.4	8.7	10.2		117	
6-12-18S	24379	6.8	13.2	15.7*		104	
6-12-18S	W/ME 24867	6.2	10.8*	19.3		99	
8-10-15S	24378	7.5*	11.1	17.0		104	
10-10-10M	24376	9.5*	10.7	10.2		100	
10-10-10M	24860	8.2*	10.1	11.8		94*	
10-10-20S	24371	10.8	11.9	20.1		109	
10-10-20S	24381	10.8	11.8	19.9		108	
10-10-20S	W/ME 24873	9.9	10.8	20.1		102	
12-12-12M	24377	12.6	17.4	11.2*		117	
OLIN MATHIESON CHEM. CORP.		LITTLE ROCK		ARK.			
GRADE	NUM	N	APA	POT	XS CL	RV	
6-24-24M	23291	6.3	23.4*	25.6		101	
6-24-24M	23652	6.3	25.3	25.4		105	
6-24-24M	24586	6.5	23.6	25.8		103	
6-24-24M	24592	6.5	24.2	25.6		104	

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OLIN MATHIESON CHEM. CORP.		LITTLE ROCK ARK.			XS CL	RV
GRADE	NUM	N	APA	POT		
6-24-24M	25124	8.5	31.4	17.9*		118
6-24-24M	25234	6.6	23.7	24.4		102
10-20-20M	23034	10.1	20.7	19.8		102
10-20-20M	23113	9.7	20.0	20.5		100
10-20-20M	24591	10.6	20.6	21.0		104
12-12-12M	23287	12.9	14.6	11.9		111
PHILLIPS PETROLEUM CO.		BARTLESVILLE OKLA			XS CL	RV
GRADE	NUM	N	APA	POT		
82- 0- 0	24351	81.9	0.0	0.0		100
82- 0- 0	24587	81.9	0.0	0.0		100
82- 0- 0	24835	82.1	0.0	0.0		100
82- 0- 0	25150	82.0	0.0	0.0		100
ROYSTER COMPANY		NORFOLK VA.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-10-30M	24636	0.0	10.2	32.4		106
0-10-30M	25191	0.0	10.9	31.0		106
0-20- 0	24472	0.0	19.7	0.0		98
0-20-20M	24418	0.0	20.9	21.3		105
0-20-20M	24615	0.0	20.7	21.0		104
0-20-20M	25055	0.0	19.7	18.1*		.96*
0-20-20M	25188	0.0	20.4	19.3*		100
0-20-20M W/ME	23001	0.0	20.1	19.3*		99
0-20-20M W/ME	23087	0.0	17.4*	18.6*		89*
0-20-20M W/ME	23483	0.0	20.2	19.9		100
0-46- 0	24470	0.0	46.1	0.0		100
4-12- 8M W/ME	23013	4.5	12.1	8.9		106
4-12- 8M W/ME	23021	4.4	12.2	9.1		106
4-16- 4S	23224	5.0	15.8	5.0	*	107
4-16- 4S	23902	5.0	16.4	4.9	*	110
4-16- 4S W/ME	23088	4.4	15.9	4.3		103
4-16- 4S W/ME	23484	4.3	16.4	4.7		105
5-10-15S	23208	5.0	10.2	15.0		101
5-10-15S	23210	4.9	10.3	14.8		100
5-10-15S	24773	6.7	14.6	33.4		165
5-10-15S	24793	5.3	10.2	15.5		103
5-10-15S W/ME	23142	5.4	10.2	15.2		103
5-10-15S W/ME	23156	5.5	9.8	14.9		102
5-10-15S W/ME	23396	5.2	10.7	15.7		105
5-10-15S W/ME	23446	4.7	11.1	15.6		104
5-10-15S W/ME	23486	4.8	10.9	15.2		103
5-10-15S W/ME	23764	5.3	10.1	14.6		101
5-10-15S W/ME	23771	5.2	10.2	14.5*		101
5-10-15S W/ME	23837	4.8	10.7	15.6		103
5-10-15S W/ME	23935	5.1	10.1	14.9		100
5-10-15S W/ME	23936	5.4	10.3	14.9		103
5-10-15S W/ME	24163	5.8	10.3	15.5		107
5-10-15S W/ME	24166	5.6	10.5	15.5		107
5-10-15S W/ME	24210	5.9	10.7	14.0*		106
5-10-15S W/ME	24404	5.1	10.2	15.2		102
5-10-15S W/ME	24405	5.1	10.4	15.8		104
5-10-15S W/ME	24506	5.3	11.5	15.3		108
5-10-15S W/ME	24527	5.0	10.5	14.9		102
5-10-15S W/ME	24616	5.4	10.4	15.4		105
5-10-15S W/ME	24994	4.5*	10.3	15.1		98
5-10-15S W/ME	25189	5.8	10.2	14.2*		104
5-20-20M	22954	5.6	20.3	19.6		103
5-20-20M	23002	5.0	19.6	18.3*		97*

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cent or less indicated by asterisk.

ROYSER COMPANY		NORFOLK	VA.		
GRADE	NUM	N	APA	POT	XS CL RV
5-20-20M	23012	5.1	20.0	19.2*	99
5-20-20M	23085	5.3	20.0	18.1*	99
5-20-20M	23209	5.3	20.7	19.3*	102
5-20-20M	23397	6.0	20.9	19.0*	105
5-20-20M	23611	5.2	19.8	18.7*	99
5-20-20M	23839	5.3	19.9	20.5	102
5-20-20M	23934	4.6*	18.9*	14.7*	88*
5-20-20M	24008	5.3	20.9	21.3	105
5-20-20M	24015	5.4	20.9	20.0	104
5-20-20M	24164	5.7	20.9	20.8	106
5-20-20M	24618	4.0*	16.8*	22.8	91*
5-20-20M	24789	4.3*	18.0*	22.3	95*
5-20-20M	24800	4.6*	19.7	21.2	99
5-20-20M	24806	5.3	21.4	19.9	105
5-20-20M	25190	5.0	19.0*	20.0	97*
6- 6-18S	24415	6.2	7.2	16.8*	104
6-12-12M	23482	5.5*	10.8*	11.5*	92*
6-12-12M	23512	6.2	15.3	12.5	114
6-12-12M	23513	6.5	15.3	13.0	117
6-12-12M	23763	5.9	12.1	11.7	99
6-12-12M	23772	6.1	12.1	13.3	103
6-12-12M	23840	6.2	12.8	11.3*	103
6-12-12M	24006	6.3	13.3	11.9	106
6-12-12M	24024	5.9	11.8	11.9	98
6-12-12M	24044	6.1	12.6	11.7	102
6-12-12M	24416	5.9	13.6	12.4	106
6-12-12M	24619	5.6*	11.9	14.8	103
6-12-12M	24791	6.1	13.6	11.9	106
6-12-12M W/ME	22955	6.4	13.0	12.7	107
6-12-12M W/ME	23015	6.1	12.1	11.8	101
6-12-12M W/ME	23023	6.1	12.2	12.7	103
6-12-12M W/ME	23144	6.5	11.9	11.9	102
6-12-12M W/ME	23398	5.7*	13.1	13.6	105
6-12-12M W/ME	25187	6.6	12.1	12.0	104
6-19-26M	25122	5.9	18.5*	26.8	99
6-19-26M	25125	5.4*	17.4*	27.9	96*
9-18-18M	24165	9.4	19.1	17.0*	103
9-18-18M	24637	9.2	19.0	18.2	103
10-10-10M	23014	9.9	10.1	10.9	101
10-10-10M	23086	10.2	10.0	11.1	102
10-10-10M	23136	10.3	10.0	11.6	104
10-10-10M	23143	10.3	11.0	10.0	105
10-10-10M	23225	10.3	9.9	10.8	102
10-10-10M	23399	10.6	10.2	10.7	105
10-10-10M	23447	10.1	10.7	10.5	103
10-10-10M	23454	10.3	10.4	10.8	104
10-10-10M	23612	10.1	10.2	10.0	101
10-10-10M	23838	10.3	10.2	10.5	103
10-10-10M	23937	10.3	10.4	10.4	103
10-10-10M	24007	10.4	10.5	11.0	105
10-10-10M	24025	10.4	10.8	10.6	106
10-10-10M	24148	9.9	10.4	10.5	102
10-10-10M	24161	9.5*	11.4	10.2	102
10-10-10M	24209	10.5	10.9	11.1	107
10-10-10M	24406	9.9	10.7	10.6	103
10-10-10M	24507	10.2	10.7	11.0	105
10-10-10M	24617	10.0	10.7	10.1	102

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

ROYSER COMPANY		NORFOLK			VA.	XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10M	24620	10.5	11.0	11.0			107
10-10-10M	24790	9.9	10.8	11.0			104
10-10-10M	24792	9.9	10.4	10.8			102
10-10-10M	24804	10.2	10.8	10.2			104
10-10-10M	24805	10.2	10.7	10.5			104
10-10-10M	25113	10.0	10.7	9.7			102
10-10-10M	25192	10.0	10.6	11.0			103
10-10-10M W/ME	23022	9.7	10.4	10.9			101
10-10-10M W/ME	24150	9.7*	12.8	9.9			107
10-10-15S	24417	9.8	10.8	15.8			103
10-10-15S	24638	9.7	10.8	15.5			102
10-10-15S	24993	9.9	10.5	14.6*			100
10-10-15S W/ME	24149	9.9	10.8	15.5			103
10-10-15S W/ME	24162	10.9	10.9	15.5			107
10-10-15S W/ME	24475	10.2	10.8	15.8			104
10-10-15S W/ME	24915	10.3	10.4	14.9			102
10-10-15S W/ME	25112	10.2	10.6	14.9			102
12-12-12M	24419	11.9	13.3	12.1			103
14-14-14M	24759	15.5	11.0*	19.9			101
15-15-15M	24420	14.3*	15.8	15.1			99
28- 0- 0	24578	27.5	0.0	0.0			98
33- 0- 0	24476	34.8	0.0	0.0			104
82- 0- 0	24831	81.9	0.0	0.0			100
SANDUSKY MILLS INC		HARRODSBURG			KY	XS CL	RV
GRADE	NUM	N	APA	POT			
4-23-21M	24235	4.6	20.8*	25.5			99
15- 0-26S	24685	18.2	0.0	20.7*			102
16- 0-30M	24683	15.8*	0.0	32.4			100
O. M. SCOTT & SONS		MARYSVILLE			OHIO	XS CL	RV
GRADE	NUM	N	APA	POT			
22- 5- 5M	25068	21.6	5.7	5.7			101
22- 5- 5M	25071	22.0	7.0	5.7			106
22- 5- 5M	25142	22.3	5.4	6.3			104
23- 7- 7M	25042	23.7	7.0	7.4			103
23- 7- 7M	25103	23.3	7.0	6.9			101
SINCLAIR PETROCHEMICALS INC.		CHICAGO			ILL.	XS CL	RV
GRADE	NUM	N	APA	POT			
6-16-35M W/ME	24948	6.1	18.2	50.1			123
6-24-24M	23651	7.0	26.2	25.1			109
6-24-24M	23682	6.0	26.7	25.3			107
6-24-24M	24575	6.9	26.9	24.0			110
SMITHS GROVE FERTILIZER CO		SMITHS GROVE			KY	XS CL	RV
GRADE	NUM	N	APA	POT			
4-12- 8M	24784	4.9	14.0	8.2			115
5-20-20M	24785	6.0	22.0	21.1			111
6-12-12M	24783	4.9*	8.8*	14.0			86*
22- 5- 8M	24782	22.9	18.6	9.2			132
SOUTHERN STATES COOP., INC.		LOUISVILLE			KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-50S	23898	0.0	0.0	52.2		*	104
0- 0-60M	24012	0.0	0.0	59.9			100
0-20- 0	24076	0.0	20.6	0.0			103
0-20-20M	22941	0.0	20.6	20.7			103
0-20-20M	23487	0.0	19.1*	21.6			100
0-20-20M	23552	0.0	20.8	19.9			102
0-46- 0	22970	0.0	47.5	0.0			103
0-46- 0	24011	0.0	46.2	0.0			101

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969

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

SOUTHERN STATES COOP., INC.		LOUISVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
4-12- 8M	22978	4.0	11.0*	8.9		97*
4-16- 4S	23116	4.2	16.3	4.5		104
4-16- 4S	23223	4.3	16.1	4.7		104
4-16- 4S	23227	4.3	16.2	4.3		103
4-16- 4S	23304	4.1	16.2	4.4		102
4-16- 4S	23345	4.1	16.1	4.4		102
4-16- 4S	23363	4.1	16.6	4.6		104
4-16- 4S	23408	4.1	16.8	4.6		105
4-16- 4S	23432	4.2	16.5	4.0		103
4-16- 4S	23463	4.1	15.7	4.7		101
4-16- 4S	23569	4.0	15.5*	4.2		98
4-16- 4S	23810	3.9	17.1	4.6		105
4-16- 4S	23903	4.5	17.5	4.2		110
4-16- 4S	24065	4.3	17.4	4.8		110
5-10-15S	23138	5.4	10.0	15.6		104
5-10-15S	23170	5.3	10.4	16.2		105
5-10-15S	23172	5.2	10.2	16.4		104
5-10-15S	23178	5.1	9.9	15.7		102
5-10-15S	23460	5.2	10.2	15.7		103
5-10-15S	23462	5.0	10.1	16.5		104
5-10-15S	23546	4.8	10.6	15.9		103
5-10-15S	24067	5.2	10.3	15.5		103
5-10-15S	24276	4.8	10.5	16.1		103
5-20-20M	23173	4.9	21.1	20.1		103
5-20-20M	23547	4.7	21.5	19.2*		102
5-20-20M	23553	4.7	21.4	19.8		102
6- 6-18S	23174	5.7	6.4	18.3		101
6- 6-18S	24847	6.2	6.9	18.0		105
6-12-12M	22977	6.0	12.0	12.1		100
6-12-12M	23147	6.1	12.4	12.0		102
6-12-12M	23548	6.0	11.9	12.1		100
6-12-12M	23554	6.0	12.5	11.6*		101
8-10-15S	23137	8.0	10.4	15.2		102
8-10-15S	23177	7.9	9.9	15.9		101
8-10-15S	23456	8.3	10.5	15.8		105
8-10-15S	24026	8.2	11.0	16.1		106
10-10-10M	22940	10.3	10.2	10.0		102
10-10-10M	23176	10.2	10.0	10.8		102
10-10-10M	23445	10.0	10.7	10.4		103
10-10-10M	23781	9.8	10.8	10.0		102
10-10-10M	23900	10.2	10.7	10.4		103
10-10-10M	23927	10.0	10.6	10.1		102
10-10-10M	24066	10.2	10.7	10.7		104
10-10-10M	24684	9.7*	10.6	11.1		102
15-15-15M	23244	15.3	14.7	15.4		101
30- 0- 0	24960	30.5	0.0	0.0		102
33- 0- 0	24010	35.7	0.0	0.0		107
SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0- 0-50S	23455	0.0	0.0	52.4		105
0-15-30M	23514	0.0	14.6*	31.9		102
0-20-20M	23494	0.0	21.2	19.0*		102
0-20-20M	23521	0.0	21.3	19.9		104
4-12- 8M	23009	3.5*	12.2	8.0		98
4-12- 8M	23064	4.4	12.0	9.5		106
4-12- 8M	23216	3.9	12.1	8.8		102
4-12- 8M	23248	3.9	11.7	8.7		100

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
4-12- 8M	23272	4.2	11.7	9.1		102
4-12- 8M	23364	4.6	11.5*	9.3		105
4-12- 8M	23461	4.2	11.3*	9.6		101
4-12- 8M	23495	4.1	11.8	8.6		101
5-10-15S	22998	5.0	10.2	15.3		100
5-10-15S	23000	4.9	10.0	15.2		100
5-10-15S	23046	4.9	9.8	14.9		98
5-10-15S	23061	5.5	10.1	15.2	*	103
5-10-15S	23069	4.9	10.0	14.8		99
5-10-15S	23074	5.2	9.7	15.2		101
5-10-15S	23077	5.7	9.2*	14.9		101
5-10-15S	23187	5.1	9.7	15.6		101
5-10-15S	23200	5.0	10.0	15.1		100
5-10-15S	23215	5.0	9.8	15.1		99
5-10-15S	23246	5.0	9.9	15.0		100
5-10-15S	23289	5.0	10.2	14.5*		100
5-10-15S	23294	5.0	11.4	14.9		106
5-10-15S	23308	5.2	10.3	15.3		103
5-10-15S	23324	5.1	10.5	15.0		103
5-10-15S	23340	5.2	10.0	16.1		103
5-10-15S	23343	5.5	9.8	15.1		102
5-10-15S	23365	5.2	10.4	15.2		103
5-10-15S	23377	5.3	10.3	14.8		102
5-10-15S	23378	5.2	9.6*	15.5		101
5-10-15S	23433	5.0	11.0	15.3		104
5-10-15S	23435	5.1	10.8	16.4		106
5-10-15S	23451	5.1	11.0	15.7		106
5-10-15S	23516	4.9	10.1	15.0		100
5-10-15S	23517	5.0	10.0	15.7		102
5-10-15S	23662	5.2	10.9	15.8		106
5-10-15S	23809	5.1	11.2	15.8		107
5-10-15S	23828	5.4	10.4	16.1		107
5-10-15S	23834	5.2	10.5	16.7		107
5-10-15S	23841	5.3	10.2	15.4		103
5-10-15S	23884	5.1	11.1	15.3		105
5-10-15S	23891	5.2	11.0	15.2		106
5-10-15S	23909	5.2	11.1	14.9		105
5-10-15S	23911	5.2	10.7	15.5		105
5-10-15S	23931	5.2	10.2	15.4		103
5-10-15S	24009	5.1	11.8	14.7		107
5-10-15S	24035	5.3	10.3	16.0		105
5-10-15S	24216	5.4	10.5	14.9		104
5-10-15S	24357	5.0	10.3	15.6		102
5-10-15S	24509	5.5	10.2	15.7		105
5-15- 5M	23899	5.2	16.0	5.7		107
5-15- 5M	25001	5.1	15.9	5.5		105
5-20-20M	23011	4.9	19.3*	21.4		100
5-20-20M	23055	5.6	20.4	19.1*		102
5-20-20M	23059	5.4	20.4	20.5		103
5-20-20M	23062	5.8	19.6*	20.2		102
5-20-20M	23067	5.2	19.9	20.7		101
5-20-20M	23072	5.2	19.7	19.4*		99
5-20-20M	23076	5.1	19.9	20.9		102
5-20-20M	23080	5.2	20.0	20.2		101
5-20-20M	23118	5.1	19.5*	19.9		99
5-20-20M	23123	5.2	18.7*	20.5		98
5-20-20M	23188	4.8	19.7	20.8		100

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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
5-20-20M	23201	5.1	19.6	19.9		99
5-20-20M	23217	5.2	20.5	19.7		101
5-20-20M	23282	5.3	19.3*	19.9		99
5-20-20M	23342	5.1	19.6	20.6		100
5-20-20M	23453	5.1	20.5	20.0		102
5-20-20M	23496	5.1	19.7	20.2		100
5-20-20M	23520	5.2	20.2	19.1*		100
5-20-20M	23657	5.2	19.9	21.1		102
5-20-20M	23659	5.2	20.4	19.9		102
5-20-20M	23833	4.9	20.9	22.3		105
5-20-20M	23842	5.1	21.1	20.4		104
5-20-20M	23885	5.3	20.9	19.0*		102
5-20-20M	23892	5.4	19.2*	20.7		100
5-20-20M	24480	4.9	16.9*	24.6		97*
5-20-20M	24606	5.3	16.8*	19.9		93*
6-12-12M	23068	6.1	12.1	12.5		102
6-12-12M	23075	5.6*	10.9*	13.6		97*
6-12-12M	23092	5.8	12.7	11.1*		100
6-12-12M	23103	6.2	11.6*	13.4		102
6-12-12M	23141	6.3	11.7	12.4		101
6-12-12M	23245	5.9	11.8	12.3		99
6-12-12M	23273	6.5	11.5*	13.3		103
6-12-12M	23275	6.1	11.7	11.7		99
6-12-12M	23283	6.1	11.9	11.8		100
6-12-12M	23288	6.3	12.1	12.0		102
6-12-12M	23344	5.9	12.2	12.2		101
6-12-12M	23381	6.1	12.1	12.3		101
6-12-12M	23497	6.0	12.4	12.7		102
6-12-12M	23518	6.1	12.1	12.5		102
6-12-12M	23886	5.9	12.3	12.9		102
6-12-12M	23930	6.7	12.5	11.7*		105
6-12-12M	24036	6.4	13.2	12.7		108
6-12-12M	24259	6.1	12.8	11.9		103
6-12-12M	24478	6.1	12.3	12.5		102
6-12-12M	24754	6.4	12.0	14.2		106
6-24-24M	23539	6.0	24.0	22.6*		99
6-24-24M	23656	6.1	23.7	24.0		100
10-10-10M	23010	9.3*	10.4	10.3		98
10-10-10M	23045	9.3*	10.1	10.4		97*
10-10-10M	23048	9.1*	10.2	10.2		97*
10-10-10M	23065	10.6	9.7*	10.6		103
10-10-10M	23070	9.9	9.7	10.8		100
10-10-10M	23073	9.6*	10.5	8.9*		98
10-10-10M	23079	9.6*	10.1	9.9		98
10-10-10M	23091	9.9	10.4	10.1		101
10-10-10M	23104	10.0	9.7	10.8		100
10-10-10M	23112	9.9	9.8	9.7		98
10-10-10M	23117	10.0	9.8	10.2		99
10-10-10M	23140	10.0	9.7*	10.9		100
10-10-10M	23189	9.4*	10.3	9.9		98
10-10-10M	23199	9.4*	10.2	9.9		97*
10-10-10M	23218	10.1	9.4*	11.3		100
10-10-10M	23247	9.9	10.0	10.1		100
10-10-10M	23274	10.3	9.5*	10.8		101
10-10-10M	23295	10.2	9.6*	10.6		100
10-10-10M	23307	9.9	10.1	10.5		101
10-10-10M	23341	9.9	9.2*	11.4		99

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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.			XS CL	RV
GRADE	NUM	N	APA	POT		
10-10-10M	23379	9.9	9.8	11.1		100
10-10-10M	23434	9.9	10.3	11.1		102
10-10-10M	23452	10.0	10.8	11.7		105
10-10-10M	23515	9.9	10.1	10.5		100
10-10-10M	23549	9.8	9.6*	11.0		99
10-10-10M	23661	10.2	10.4	10.5		103
10-10-10M	23769	10.0	9.5*	11.1		100
10-10-10M	23893	10.0	9.7	10.6		100
10-10-10M	23915	10.5	10.2	10.2		103
10-10-10M	24027	9.9	10.1	11.1		102
10-10-10M	24225	10.3	10.8	10.5		105
10-10-10M	24621	10.0	11.1	10.5		104
12-12-12M	22979	11.4*	12.2	12.8		99
12-12-12M	23056	12.3	11.5*	12.1		100
12-12-12M	23078	12.0	11.8	11.8		99
12-12-12M	23082	12.0	11.8	12.4		100
12-12-12M	23175	11.9	12.1	11.9		100
12-12-12M	23366	12.0	11.4*	12.7		100
12-12-12M	23380	12.0	11.9	12.1		100
12-12-12M	23450	12.0	12.1	14.0		103
12-12-12M	23498	11.9	12.0	13.0		101
12-12-12M	23519	11.6*	12.3	12.1		99
12-12-12M	23660	11.7	12.8	13.1		102
12-12-12M	23708	12.0	12.1	11.6*		100
12-12-12M	24265	12.0	12.4	13.0		102
12-12-12M	24607	12.0	11.9	13.1		101
12-12-12M	25233	11.9	12.0	10.8*		98
SOUTHERN STATES COOP., INC.		WINCHESTER KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-20-20M	23768	0.0	20.0	21.8		103
0-46-0	24479	0.0	46.1	0.0		100
4-12-8M	22972	4.3	12.1	9.0		105
4-12-8M	23917	4.3	12.3	8.7		105
4-16-4S	23154	4.0	16.0	4.4		100
4-16-4S	23271	4.2	16.3	4.2		102
4-16-4S	23360	4.0	15.8	4.5		100
4-16-4S	23595	4.0	15.6*	4.3		99
4-16-4S	23597	4.2	16.2	4.7		103
4-16-4S	23989	4.3	17.2	4.5		108
5-10-15S	23106	5.2	9.8	14.9		100
5-10-15S	23155	5.3	10.5	14.9		103
5-10-15S	23258	5.3	10.4	15.0		103
5-10-15S	23276	5.2	9.8	16.5		104
5-10-15S	23278	5.1	9.9	15.8		101
5-10-15S	23499	5.1	10.5	15.2		103
5-10-15S	23762	5.3	9.9	14.9		102
5-10-15S	23766	5.2	10.0	14.8		100
5-10-15S	23789	5.1	10.2	16.7		105
5-10-15S	24424	4.8	10.5	14.9		101
5-10-15S	24461	5.0	10.4	14.9		102
5-10-15S	24491	5.3	10.4	15.5		104
5-20-20M	22975	5.3	20.1	20.7		102
5-20-20M	23107	4.9	20.0	19.9		99
5-20-20M	23362	5.0	19.7	19.5*		98
5-20-20M	23500	4.9	20.2	19.6		100
5-20-20M	23767	5.5	18.6*	21.4		100
5-20-20M	24264	4.8	20.9	20.7		102



**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 per-  
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SOUTHERN STATES COOP., INC.		WINCHESTER KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
6- 6-18S	23259	6.1	6.8	17.8		104
6- 6-18S	24212	6.0	8.7	17.0*		109
6- 6-18S	25018	5.9	6.9	17.1*		101
6- 8- 6S	23361	5.8	7.8	7.9		102
6-12-12M	22976	6.1	12.1	13.3		103
6-12-12M	23765	6.3	12.9	12.4		106
6-12-12M	24211	6.3	12.4	13.0		105
6-12-12M	24462	6.5	12.3	12.9		105
8-10-15S	23053	7.6*	10.2	14.6		98
8-10-15S	23277	8.0	9.8	15.1		100
8-10-15S	23592	7.9	11.0	14.9		103
8-10-15M W/ME	24460	8.1	10.9	15.3		104
10-10-10M	23260	10.1	9.3*	11.1		100
S. S. BARDSTOWN COOP.		BARDSTOWN KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
6-26-26M	24140	6.8	27.3	25.9		104
12-15-13S	24266	13.0	15.6	15.9		104
13-14-22S	24141	14.1	14.1	23.7		102
13-34-15M	24267	13.7	34.4	16.0		102
14-36-11M	24142	14.8	38.0	11.0*		102
20- 9-11M	24268	22.1	10.0	10.4*		106
S. S. CAMPBELLSVILLE COOP.		CAMPBELLSVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
5-10-15S	24984	5.3	9.8	16.0		103
19-10-10M	24700	19.6	11.7	12.1		103
S. S. FRANKFORT COOP.		FRANKFORT KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
9-18-18M	24322	8.5*	18.3	21.8		100
11-12-18S	24729	14.7	12.5	22.3		116
14- 0-28S	24323	16.5	0.0	26.9*		106
14- 0-28S	24734	14.5	0.0	28.9		101
16- 0-25S	24733	16.9	0.0	26.5		103
S. S. GLASGOW COOP.		GLASGOW KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
10-17-15S	24304	8.4*	14.0*	22.5	*	93*
S. S. HARDIN COOP.		ELIZABETHTOWN KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-22-30M	24891	0.0	26.6	31.6		112
0-29-21M	24274	0.0	29.6	22.0		101
4-26-17M	24271	4.5	27.7	19.0		106
13-13-13M	24270	13.4	15.0	13.7		105
14-14-14M	24272	14.9	15.4	15.7		104
14-14-14M	24273	14.8	14.6	16.3		103
14-14-14M	24890	15.1	10.3*	20.2		98
14-15-14M	24275	14.4	17.1	14.3		104
15-13-13M	24893	15.5	15.7	13.8		104
17-14-10M	24892	16.5*	17.0	10.6		104
S. S. HENDERSON COOP.		HENDERSON KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
6-27-27M	25143	7.3	28.7	26.5*		101
S. S. HOPKINSVILLE COOP.		HOPKINSVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
12-12-18S	24603	12.3	11.0*	21.8		102
12-12-18S	24604	11.7*	11.8*	21.0		101
18-11-11M	24605	19.8	9.7*	12.2		101

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S. S. IRVINGTON SERVICE		IRVINGTON			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
7-23-15M	24654	7.6	23.3	16.9				101
7-23-15M	24899	7.1*	25.2	15.6				103
14-14-14M	24653	14.6	15.1	15.7				102
14-14-14M	24897	14.3	15.1	15.5				101
14-14-14M	24900	15.5	14.0*	15.4				102
23- 9- 6M	24898	23.2	8.1*	7.5				99
S. S. LAGRANGE COOP.		LA GRANGE			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
10-13-19S	25098	8.6*	15.6	20.8				100
14-14-14M	24313	14.6	15.6	14.9				103
S. S. LEBANON COOP.		LEBANON			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
5-21-21M	25035	5.6	21.5	22.7				101
7-14-14M	25036	10.1	17.1	19.4				128
7-18-18M	23990	10.4	18.6	19.2				112
10- 8-12M	24991	10.7	8.3	12.2				103
10-19-18S	24713	10.4	19.7	20.5				103
15-10-15S	25065	15.3	9.9	15.7				99
16-12-18S	24712	17.0	12.3	20.2				102
17- 4-23M	24691	18.2	4.7	23.4				104
17-15- 6S	25037	17.8	16.0	7.7				102
17-18-18M	24687	17.9	18.8	18.6				101
S. S. LEITCHFIELD COOP.		LEITCHFIELD			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
6-20-20M	24720	7.3	20.9	22.0				104
13- 9-19S	24719	13.7	10.3	21.7				106
S. S. LEXINGTON COOP.		LEXINGTON			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
2- 7-23S	24220	2.5	8.4	27.0				115
S. S. LONDON COOP.		LONDON			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
8-19-19M	24920	8.8	18.3*	21.5				101
S. S. MORGANFIELD COOP.		MORGANFIELD			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
0-18-36M	24366	0.0	17.5*	38.2				101
0-26-26M	24360	0.0	26.7	26.4				102
6-26-26M	24849	7.0	26.8	26.5				103
6-27-27M	24777	6.8	28.3	29.5				102
19-19- 0	24365	20.8	17.6*	0.0				101
S. S. OWENSBORO COOP.		OWENSBORO			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
7-27-27M	24367	6.9	28.4	28.6				102
9- 8-12M	24978	9.2	8.7	12.9				102
S. S. RUSSELLVILLE COOP.		RUSSELLVILLE			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
0- 0-60M	23751	0.0	0.0	60.2				100
0-46- 0	23750	0.0	45.8	0.0				99
4-16- 4S	23749	4.3	16.6	4.5				105
5-10-15S	23297	5.3	9.1*	16.1				100
5-10-15S	23941	5.3	10.1	15.4				103
6-12-12M	23748	6.3	12.4	11.4*				102
10- 8-11S	25020	14.6	12.4	21.2				150
10-10-10M	23747	9.7	10.8	8.7*				99
10-10-10M	23942	10.1	10.2	10.7				102
S. S. SHELBYVILLE COOP.		SHELBYVILLE			KY.	XS	CL	RV
GRADE	NUM	N	APA	POT				
5-18-23M	24642	6.0	18.0	25.1				102

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S. S. SHELBYVILLE COOP.		SHELBYVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
9- 0-39M	24641	8.9*	0.0	39.3		96*
17-17-17M	24645	18.2	18.0	17.2*		102
22- 0-20M	24824	22.0	0.0	21.1		100
22- 8-13M	24839	22.7	9.4	15.5		104
S. S. SIMPSON COOP.		FRANKLIN KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-33M	24664	0.0	22.0	33.2		104
6-12-12M	22985	6.1	12.2	12.5		102
7-20-19M	24663	11.5	19.7*	21.9		115
8-34-20M	24666	9.0	35.1	19.7*		102
13-12-16S	24668	15.6	13.3	15.5*		109
16-11-13S	24667	17.5	11.5	12.9*		105
17-12-12M	24665	20.1	13.2	13.0		111
24- 9- 9M	23431	23.0*	8.8*	13.3		99
SPENCER FARM SERVICE		TAYLORSVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-21-21M	24284	5.3	23.0	22.8		104
13-11-17S	24656	13.7	11.0*	19.4		102
15-13-19S	25174	12.9*	10.6*	25.8		92*
16-12-18S	25173	13.5*	9.2*	26.1		91*
17-17-17M	24655	18.0	15.7*	19.3		99
STANLEY CROP SERVICE		STANLEY KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-27-24M	24881	0.0	27.5	25.2		101
6-15-40M	24368	5.9	16.3	40.3		103
6-24-24M	24882	6.9	33.0	11.7*		109
6-26-26M	24577	6.3	25.9	26.9		102
8-10-16M	24924	9.2	11.6	16.5		106
15-13-20S	24369	14.4*	14.4	21.7		100
STEWART FERTILIZER SERVICE		MT. VERNON KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15S	24132	6.3	12.2	14.3*		115
5-10-15S	24808	4.9	9.2*	15.6		97*
5-20-20M	23598	5.0	20.4	20.4		101
5-20-20M	24131	4.0*	12.7*	26.6		85*
10-10-10M	23599	10.1	13.4	11.4		114
10-10-10M	24177	9.9	8.5*	11.2		96*
10-10-10M	24253	9.7	8.1*	11.9		95*
10-10-15S	24809	9.8	7.9*	16.6		95*
16-10-15S	24807	18.3	11.6	14.9		112
SWIFT AGRICULTURAL CHEM CORP.		GREENEVILLE OHIO				
GRADE	NUM	N	APA	POT	XS CL	RV
6-10- 4M	24451	5.3*	11.5	5.7		106
12- 5- 7M W/ME	24452	13.8	6.1	6.0*		112
82- 0- 0	25218	82.0	0.0	0.0		100
82- 0- 0	25231	82.1	0.0	0.0		100
SWIFT AGRI CHEMICAL CORP		NAT STOCKYDS ILL.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-46- 0	24765	0.0	45.8	0.0		100
10- 6- 4M	24732	9.9	7.7	5.7		110
10-10-10M	24731	10.2	10.7	10.1		103
20-10- 5M	24730	16.5*	11.8	8.4		96*
TENNESSEE LIQUIFIED GAS CORP.		JACKSON TENN.				
GRADE	NUM	N	APA	POT	XS CL	RV
3-10-30M	25147	3.3	9.5*	29.9		100
4-11-11M	24884	4.1	10.4*	11.0		98
4-11-11M	24979	4.1	11.0	10.9		101

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TENNESSEE LIQUIFIED GAS CORP.		JACKSON		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
5-15-30M	24885	5.0	13.5*	31.4			98
7-21-21M	24883	6.9	19.7*	21.0			97*
10-34- 0	24981	10.3	34.9	0.0			103
32- 0- 0	24980	32.0	0.0	0.0			100
TOMPKINSVILLE FERTILIZER CO.		TOMPKINSVILLE KY.		ALA.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	24297	0.0	21.8	22.2			109
0-20-20M	24300	0.0	21.3	20.2			105
5-20-20M	24910	5.1	19.9	20.5			101
6-12-12M	24296	6.2	12.7	12.7			105
6-16- 9S	24299	6.6	17.8	10.6			103
8-12-11S	24908	8.0	11.2*	12.7			99
12-24-24M	23420	10.7*	17.1*	31.1			90*
13-12-12M	24909	22.3	11.3*	13.5			134
17-17-17M	24298	17.6	19.6	18.1			104
THOMPSON SALES COMPANY		MONTGOMERY		ALA.		XS CL	RV
GRADE	NUM	N	APA	POT			
18-46- 0	22963	18.1	46.5	0.0			101
TOBACCO STATES CHEMICAL CO.		LEXINGTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
7-14- 7M	25175	8.2	15.6	7.5			113
10-20-10M	25194	9.9	19.0*	10.9			98
USS AGRI-CHEMICALS, INC.		ATLANTA		GA.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	23197	0.0	18.5*	21.4			97*
0-20-20M	23725	0.0	16.8*	19.9			89*
0-20-20M	23733	0.0	19.4*	21.6			101
0-20-20M	24122	0.0	19.7	20.7			100
0-25-25M	24308	0.0	22.9*	23.7*			93*
4-12- 8M	23017	3.4*	11.8	10.7			101
4-12- 8M	23234	4.4	11.8	7.9			102
4-12- 8M	23535	4.1	11.6*	8.8			100
4-12- 8M	24241	3.7*	12.1	10.5			104
5- 5- 0	23916	6.0	6.7	0.0			126
5- 5- 0	24176	5.5	6.9	0.0			121
5- 5- 0	24508	6.0	7.5	0.0			132
5-10- 5S	23226	5.4	9.5*	5.7		*	102
5-10- 5S	23338	4.9	9.7*	7.3		*	103
5-10- 5S	23457	5.3	9.5*	5.4		*	100
5-10- 5S	23545	5.5	9.5*	6.0			104
5-10- 5S	23622	5.1	9.9	6.4		*	103
5-10- 5S	23908	5.9	10.2	6.1			110
5-10- 5S	23912	4.9	10.1	5.8			101
5-10- 5S	23913	5.0	10.0	4.9			99
5-10-10M	23039	5.7	11.1	10.8			111
5-10-10M	23523	4.9	10.9	11.6			107
5-10-10M	23866	5.0	9.7	10.8			100
5-10-15S	23035	5.5	9.7	15.2		*	102
5-10-15S	23168	5.1	9.7	14.9		*	99
5-10-15S	23232	4.8	9.7*	15.8			99
5-10-15S	23392	5.2	10.0	15.2			101
5-10-15S	23393	4.9	9.9	16.1			101
5-10-15S	23459	5.7	9.7*	16.0		*	105
5-10-15S	23470	5.3	11.1	15.9		*	108
5-10-15S	23536	5.1	10.0	14.3*			99
5-10-15S	23610	5.1	10.2	15.1			101
5-10-15S	23618	5.5	11.2	15.8			110

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USS AGRI-CHEMICALS, INC.	ATLANTA	GA.			
GRADE	NUM	N	APA	POT	
5-10-15S	23741	5.4	9.5*	16.3	* 103
5-10-15S	23845	5.5	10.2	16.7	* 107
5-10-15S	23895	5.0	10.8	15.8	* 105
5-10-15S	24078	5.3	10.3	15.4	* 104
5-10-15S	24332	5.0	10.3	16.3	* 104
5-10-15S	24337	11.8	12.9	12.9*	* 148
5-10-15S	24454	5.5	11.3	15.4	* 109
5-10-15S	24492	5.5	10.0	16.5	106
5-10-15S	24844	5.9	10.2	15.2	106
5-20-20M	23096	5.5	18.7*	21.1	100
5-20-20M	23251	5.1	18.0*	19.2*	94*
5-20-20M	23395	4.9	20.3	22.2	103
5-20-20M	23724	5.6	19.3*	19.2*	99
5-20-20M	23734	5.9	17.4*	17.3*	93*
5-20-20M	23740	5.5	18.0*	19.9	97*
5-20-20M	23847	5.2	18.9*	21.3	100
5-20-20M	24077	4.8	19.8	19.6	98
5-20-20M	24115	4.9	20.4	20.1	101
5-20-20M	24453	5.0	19.7	20.3	100
5-20-20M	25109	4.3*	21.3	19.9	100
6- 6-18S	23469	6.4	8.4	17.3*	* 111
6-12-12M	22928	5.6*	12.2	12.0	99
6-12-12M	23029	6.5	12.0	11.4*	101
6-12-12M	23030	6.9	11.7	12.1	104
6-12-12M	23100	5.7*	11.6*	13.5	99
6-12-12M	23325	6.0	12.0	13.0	102
6-12-12M	23394	5.8	13.6	14.6	110
6-12-12M	23524	6.7	11.7	11.6*	102
6-12-12M	23621	5.9	12.1	12.9	102
6-12-12M	23726	5.8	11.3*	12.8	98
6-12-12M	23731	5.8	11.9	12.1	99
6-12-12M	23776	6.7	11.6*	13.7	106
6-12-12M	23846	6.5	11.9	12.8	104
6-12-12M	23867	5.9	11.9	12.5	100
6-12-12M	23896	6.0	12.3	13.5	* 104
6-12-12M	24079	6.9	12.0	12.8	106
6-12-12M	25108	6.4	12.3	11.9	103
6-12-18S	23391	5.8	11.6*	18.6	99
6-12-18S	23458	6.1	13.9	17.0*	* 105
6-12-18S	23620	6.0	12.6	18.3	* 102
6-12-18S	23894	6.2	12.8	18.1	* 104
6-12-18S	24330	6.3	12.4	18.2	103
6-18-12M	23031	5.9	17.4*	12.5	98
10- 6- 4M W/ME	23626	9.7	7.9	5.3	109
10-10-10M	23036	9.9	10.8	10.0	102
10-10-10M	23081	10.3	10.1	9.5*	101
10-10-10M	23169	10.6	9.7*	9.9	102
10-10-10M	23198	10.5	10.0	10.2	103
10-10-10M	23233	10.1	9.7	11.1	102
10-10-10M	23250	9.7*	10.8	10.5	102
10-10-10M	23326	10.7	10.2	10.1	104
10-10-10M	23339	10.8	9.4*	10.1	102
10-10-10M	23538	8.6*	12.0	10.6	100
10-10-10M	23619	10.2	10.2	10.7	103
10-10-10M	23727	10.6	9.6*	9.9	102
10-10-10M	23732	9.5*	9.9	11.1	99
10-10-10M	23773	8.9*	10.5	12.0	99

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

USS AGRI-CHEMICALS, INC.		ATLANTA		GA.		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10M	23868	6.3*	11.7	12.7			92*
10-10-10M	23938	10.9	10.3	9.7			105
10-10-10M	24080	9.8	10.7	11.4			104
10-10-10M	24114	11.8	9.7	10.4			108
10-10-20S	23471	9.6*	11.7	20.1	*		103
10-55-10M	25089	10.1	54.7	10.8			100
15-15-15M	23537	14.9	15.6	16.2			102
15-40- 5M	24686	15.1	40.4	6.4			102
15-40- 5M	24917	15.1	41.4	6.1			103
20-10- 5M	25067	20.2	9.9	5.0			100
33- 0- 0	23202	34.6	0.0	0.0			103
33- 0- 0	24477	36.3	0.0	0.0			108
82- 0- 0	24353	81.9	0.0	0.0			100
82- 0- 0	24536	82.1	0.0	0.0			100
82- 0- 0	25198	81.9	0.0	0.0			100
82- 0- 0	25200	82.0	0.0	0.0			100
82- 0- 0	25209	81.9	0.0	0.0			100
USS AGRI-CHEMICALS, INC.		CHEROKEE		ALA.		XS CL	RV
GRADE	NUM	N	APA	POT			
8-24-24M	23948	7.9	24.0	21.9*			97*
13-52- 0	24107	13.0	52.1	0.0			100
33- 0- 0	23949	35.6	0.0	0.0			106
82- 0- 0	24955	81.9	0.0	0.0			100
82- 0- 0	25212	82.0	0.0	0.0			100
82- 0- 0	25213	81.9	0.0	0.0			100
82- 0- 0	25217	81.8	0.0	0.0			100
82- 0- 0	25218	82.0	0.0	0.0			100
82- 0- 0	25232	82.1	0.0	0.0			100
USS AGRI-CHEMICALS, INC.		CINCINNATI		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25M	23971	0.0	24.6	22.1*			95*
4-12- 8M	23157	4.0	11.0*	12.0			105
4-12- 8M	23976	5.2	12.2	10.9			116
4-12- 8M	24055	5.3	13.0	10.8			120
4-12- 8M	24680	5.3	12.8	11.0			120
4-16- 4S	23355	4.8	15.1*	5.5	*		104
4-16- 4S	23501	4.8	15.8	5.5	*		108
5- 5- 0	24812	5.6	6.0	0.0			114
5-10- 5S	24057	5.1	10.4	5.8			105
5-10-10M	23352	5.2	11.4	11.3			110
5-10-10M	23967	5.5	16.8	14.3			143
5-10-10M	23977	5.2	10.9	11.4			108
5-10-10M	24473	5.4	11.7	11.5			114
5-10-10M	24629	5.1	10.7	11.4			107
5-10-10M	24681	5.5	19.8	15.2			158
5-10-15S	23108	5.2	9.9	16.2	*		103
5-10-15S	23160	5.7	10.2	15.9			107
5-10-15S	23351	5.8	10.2	15.4	*		107
5-10-15S	23673	5.4	9.9	14.5*	*		101
5-10-15S	23718	5.5	10.2	15.8	*		105
5-10-15S	23873	4.4*	10.4	15.4			99
5-10-15S	23875	5.4	10.2	15.4	*		104
5-10-15S	23887	4.9	10.7	15.7	*		103
5-10-15S	23964	5.2	10.2	15.3	*		103
5-10-15S	24013	5.9	10.5	14.9	*		107
5-10-15S	24053	5.4	10.7	15.3	*		106
5-10-15S	24056	5.3	11.1	14.9	*		106

TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968 - June 1969

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

USS AGRI-CHEMICALS, INC.	CINCINNATI	OHIO				
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15S	24425	4.9	10.7	15.4		103
5-10-15S	24474	5.6	10.9	16.4	*	110
5-10-15S	24672	5.5	10.4	15.2		105
5-10-15S	24676	5.8	10.4	14.6*	*	106
5-10-15S	24813	4.9	9.7	14.9		98
5-20-20M	23353	5.2	19.6	20.4		100
5-20-20M	23373	5.3	18.5*	19.1*		96*
5-20-20M	23502	5.0	19.8	20.5		100
5-20-20M	23674	5.0	19.7	19.9		99
5-20-20M	23716	5.0	19.8	20.3		100
5-20-20M	23870	5.5	21.3	18.8*		104
5-20-20M	23972	5.0	19.5*	19.9		99
5-20-20M	24014	5.4	21.2	19.0*		103
5-20-20M	24469	4.8	17.1*	19.0*		90*
5-20-20M	24628	6.0	18.3*	20.4		100
5-20-20M	24679	5.1	19.7	20.4		100
5-20-20M	24810	4.9	20.6	18.1*		99
5-20-20M	24816	4.8	21.1	18.6*		100
6- 6-18S	24815	7.8	6.3	20.4		117
6-12-12M	23110	6.8	11.7	11.5*		103
6-12-12M	23162	6.5	11.7	12.8		103
6-12-12M	23503	5.9	11.6*	13.7		101
6-12-12M	23675	5.9	12.3	13.0		102
6-12-12M	23889	6.3	12.1	12.7		104
6-12-12M	23969	6.7	11.6*	12.1		102
6-12-12M	23978	6.9	11.8	12.3		104
6-12-12M	24052	6.4	12.7	12.9		107
6-12-12M	24260	6.1	11.9	13.0		102
6-12-18S	23111	5.8	12.3	18.3	*	100
6-12-18S	23354	5.7	12.1	17.9	*	99
6-12-18S	23876	5.9	12.8	17.9		102
6-12-18S	23890	6.0	12.1	18.6	*	101
6-12-18S	23965	5.8	12.8	16.8*	*	100
6-12-18S	24054	6.1	13.0	18.4	*	104
6-12-18S	24426	6.0	12.8	17.9		103
6-12-18S	24468	5.9	12.3	18.3		101
6-12-18S	24675	5.9	12.7	17.9	*	102
6-12-18S	24677	5.6*	12.8	17.7	*	100
6-12-18S	24817	5.8	13.3	17.3*		102
6-12-18S	24995	5.5*	12.6	18.3		100
6-24-12M	23970	5.9	23.2*	20.2		108
8-10-15S	24471	8.2	10.0	14.9		101
10-10-10M	23109	10.3	10.4	10.0		103
10-10-10M	23161	10.6	10.3	10.6		105
10-10-10M	23676	22.8	9.7	10.2		163
10-10-10M	23677	10.1	10.4	10.7		103
10-10-10M	23717	10.7	9.9	10.5		104
10-10-10M	23871	11.0	9.9	10.5		105
10-10-10M	23874	11.4	10.3	11.4		110
10-10-10M	23966	10.8	10.1	10.2		105
10-10-10M	24467	10.4	10.5	10.2		104
10-10-10M	24630	10.0	10.4	12.1		105
10-10-10M	24674	10.7	10.3	11.0		106
10-10-10M	24814	10.8	10.0	10.7		105
10-10-10M	24996	11.0	9.9	10.4		105
10-10-20S	23869	9.9	11.7	20.7	*	105
10-10-20S	23872	10.1	11.6	20.7	*	106

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

USS AGRI-CHEMICALS, INC.		CINCINNATI		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-20S	24671	10.0	11.5	19.9	*	104	
10-10-20S	24673	10.0	11.2	19.6		103	
10-10-20S	24811	9.9	11.2	19.9		103	
12-12-12M	23968	12.1	12.1	12.4		101	
12-12-12M	24427	11.7	13.4	13.1		104	
12-12-12M	24678	11.9	13.2	13.1		104	
12-12-18S	23877	12.8	10.7*	19.2	*	101	
12-12-18S	24818	12.6	11.0*	19.5	*	102	
15-40-5M	23594	15.3	41.0	6.1		103	
USS AGRI-CHEMICALS, INC.		FORT MEADE		FLA.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-46-0	23947	0.0	46.6	0.0		101	
USS AGRI-CHEMICALS, INC.		JEFFERSONVILLIND.		POT		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25M	23571	0.0	24.6	23.6*		97*	
0-25-25M	25050	0.0	24.8	24.6		99	
3-12-24M	24136	3.6	11.9	21.6*		99	
4-12-8M	22981	4.1	12.2	9.2		105	
4-12-8M	23464	4.0	11.9	8.9		102	
4-16-4S	23782	5.5	15.6	4.9	*	110	
4-16-4S	23783	4.8	15.7	4.9	*	105	
5-10-5S	23171	5.4	9.4*	5.8		102	
5-10-5S	23570	5.2	9.9	5.5		102	
5-10-15S	23129	5.2	9.7*	15.5	*	101	
5-10-15S	23164	5.4	9.6*	15.9	*	102	
5-10-15S	23192	5.1	9.9	15.0	*	100	
5-10-15S	23193	5.5	9.8	15.2	*	102	
5-10-15S	23572	5.5	9.6*	14.6	*	101	
5-10-15S	23630	5.2	10.8	15.5	*	105	
5-10-15S	23633	5.4	10.0	15.9	*	104	
5-10-15S	23647	5.2	10.3	15.5	*	104	
5-10-15S	24001	5.2	10.9	16.0		107	
5-10-15S	24030	5.2	11.2	16.3	*	109	
5-10-15S	24134	5.6	9.7	14.9	*	102	
5-10-15S	24135	5.2	10.7	15.9	*	106	
5-10-15S	24156	6.0	10.1	14.9		106	
5-10-15S	24218	5.6	10.1	16.5		107	
5-20-20M	23449	5.0	20.1	20.0		100	
5-20-20M	23465	4.9	20.1	19.6		99	
5-20-20M	23573	5.0	20.0	19.5*		99	
5-20-20M	23865	5.3	20.4	19.8		102	
5-20-20M	24029	4.9	20.3	20.2		101	
5-20-20M	24144	5.3	21.0	21.1		105	
6-12-12M	23306	6.3	11.5*	13.5		102	
6-12-12M	23448	5.9	12.5	13.1		104	
6-12-12M	23646	5.9	12.6	12.7		103	
6-12-12M	24139	6.8	13.6	12.4		111	
6-12-12M	24154	6.4	12.3	12.5		104	
6-12-18S	23128	6.0	11.8	18.3	*	99	
6-12-18S	23190	6.2	12.4	17.8		102	
6-12-18S	23194	6.1	13.0	17.1*	*	102	
6-12-18S	23466	6.2	13.2	17.3*	*	104	
6-12-18S	23632	6.0	13.0	18.4	*	104	
6-12-18S	23796	6.7	12.3	18.2		105	
6-12-18S	24031	5.6*	12.4	19.2	*	101	
6-12-18S	24138	5.8	12.6	19.2		103	
8-10-15S	24033	8.1	10.3	14.6*		101	



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USS AGRI-CHEMICALS, INC.		JEFFERSONVILLIND.			XS CL	RV
GRADE	NUM	N	APA	POT		
10-10-10M	22918	9.9	10.9	9.5*		102
10-10-10M	23130	9.7*	11.8	9.8		104
10-10-10M	23165	10.5	9.8	10.4		103
10-10-10M	23191	10.4	10.0	10.3		103
10-10-10M	23468	10.0	10.5	11.2		104
10-10-10M	23631	11.0	9.7	10.4		105
10-10-10M	24002	10.0	10.2	10.2		101
10-10-10M	24028	10.1	10.0	11.0		102
10-10-10M	24133	11.0	10.0	10.0		105
10-10-10M	24155	10.2	11.1	11.5		107
10-10-20S	23467	10.2	10.7	20.7	*	104
12-12-12M	23126	11.4*	12.6	12.6		100
12-12-12M	23195	11.1*	12.0	11.5*		95*
12-12-12M	24034	12.2	13.4	12.7		105
12-12-18S	23127	11.8	12.9	18.1	*	101
12-12-18S	24032	12.0	12.7	18.5	*	102
12-12-18S	24137	12.2	12.5	19.0	*	103
12-12-18S	24309	11.8	11.9	18.3	*	99
12-12-18S	24644	10.7*	13.2	18.1		98
12-12-18S	25005	11.3*	12.9	16.3*		97*
12-12-18S	25049	12.6	11.0*	18.7	*	101
12-24-24M	25051	12.3	24.0	24.1		101
15-40- 5M	25004	15.0	41.6	6.3		103
18- 9- 9M	25066	17.9	9.0	9.2		100
USS AGRI-CHEMICALS, INC.		MEMPHIS		TENN	XS CL	RV
GRADE	NUM	N	APA	POT		
10-10-10M	22929	9.7	9.5*	10.9		98
10-10-10M	23016	9.4*	9.7*	11.1		97*
USS AGRI-CHEMICALS, INC.		NASHVILLE		TENN	XS CL	RV
GRADE	NUM	N	APA	POT		
0- 0-60M	24098	0.0	0.0	61.8		103
0-20- 0	23578	0.0	19.7	0.0		98
0-20-20M	23745	0.0	18.2*	19.3*		93*
0-20-20M	24925	0.0	19.8	17.1*		95*
0-46- 0	24099	0.0	45.8	0.0		100
0-46- 0	25138	0.0	46.1	0.0		100
3-12- 6M	23120	3.5	11.5*	7.5		105
3-12-24M	23242	4.0	12.1	23.4*		104
3-12-24M	25163	3.8	12.4	22.5*		103
4-12- 8M	23121	4.5	11.7	8.2		102
4-12- 8M	23279	4.5	11.8	9.4		106
5-10- 5M	25092	6.6	10.1	7.0		117
5-10- 5M	25130	7.4	10.1	7.9		125
5-10- 5S	23122	5.3	9.7*	6.1		103
5-10- 5S	23280	5.2	9.8	5.8		102
5-10- 5S	23293	5.1	9.8	7.2	*	105
5-10- 5S	23430	5.2	9.3*	8.0	*	106
5-10- 5S	23742	5.5	10.0	5.6	*	105
5-10-10M	23119	5.6	9.2*	9.7*		100
5-10-10M	23830	5.0	10.1	10.1		100
5-10-10M	24082	7.1	10.8	11.6		121
5-10-15S	23236	4.9	13.2	17.8	*	118
5-10-15S	23240	4.7*	9.2*	16.7		98
5-10-15S	23579	5.2	10.7	14.8		103
5-10-15S	23581	5.4	10.2	15.5		104
5-10-15S	23754	4.9	9.7*	15.9		100
5-10-15S	23944	6.0	9.7*	14.8		104

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USS AGRI-CHEMICALS, INC.		NASHVILLE		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	24233	5.6	10.1	15.0	*	104	
5-10-15S	24352	5.0	10.0	15.1		100	
5-10-15S	24946	4.6*	10.0	14.9		97*	
5-20-20M	23125	5.3	17.9*	20.8		97*	
5-20-20M	23237	5.0	16.8*	20.0		91*	
5-20-20M	23577	5.6	20.1	19.8		102	
5-20-20M	23752	5.8	19.9	18.8*		101	
5-20-20M	23946	5.4	19.8	21.0		102	
5-20-20M	24087	4.9	18.6*	20.6		97*	
5-20-20M	24089	5.3	20.1	21.7		104	
5-20-20M	24780	5.4	19.8	21.1		103	
6-12-12M	22905	6.0	12.0	11.5*		99	
6-12-12M	23428	6.0	12.1	12.1		101	
6-12-12M	23753	6.0	11.9	12.6		101	
6-12-12M	24083	6.3	11.9	11.6*		101	
6-12-12M	24097	6.7	11.8	13.1		105	
6-12-18S	23230	5.9	11.7	19.5		101	
6-12-18S	23239	5.8	11.8	17.2*		97*	
6-12-18S	23241	5.8	11.6*	19.1		99	
6-12-18S	23382	5.7*	11.8	19.1		100	
6-12-18S	23580	6.2	12.1	18.0		101	
6-12-18S	23744	6.1	12.4	18.1	*	102	
6-12-18S	23943	6.2	11.7	18.5	*	101	
6-12-18S	24482	5.9	11.8	19.0		100	
6-18-12M	22920	6.1	17.2*	12.4		99	
6-24-24M	23829	6.0	25.5	24.2		104	
6-24-24M	25084	6.1	24.2	23.4*		100	
8-32-16M	24927	8.1	31.4*	17.5		101	
10-10-10M	23238	9.5*	10.0	10.7		99	
10-10-10M	23290	8.8*	11.1	12.0		101	
10-10-10M	23385	9.9	10.7	10.3		102	
10-10-10M	23429	9.4*	10.7	11.1		101	
10-10-10M	23743	9.3*	10.2	10.2		98	
10-10-10M	23945	10.3	9.6*	10.6		101	
10-10-10M	24926	9.9	10.6	11.1		103	
10-10-10M	25132	8.7*	13.2	10.0		104	
10-10-10M	25238	9.6*	10.1	10.4		99	
10-20-20M	23243	10.7	18.4*	20.0		99	
12-24-24M	24086	12.2	25.0	25.1		103	
12-24-24M	24088	11.9	24.8	25.9		103	
15-15-15M	23755	15.1	16.0	15.8		102	
15-15-15M	24084	15.6	15.1	15.2		102	
15-15-15M	24090	15.5	15.6	16.3		104	
18-46-0	25137	17.8	45.7	0.0		99	
25-5-10M W/ME	24085	28.1	6.3	7.4*		110	
33-0-0	23115	33.8	0.0	0.0		101	
82-0-0	24590	81.6	0.0	0.0		100	
UNION FERTILIZER CO.		MORGANFIELD KY.		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
0-15-39M	24363	0.0	17.0	40.5		105	
0-23-29M	24362	0.0	24.1	31.0		104	
0-26-26M	23026	0.0	26.9	27.1		104	
0-26-26M	23027	0.0	26.5	28.2		104	
0-26-26M	23808	0.0	28.0	26.6		106	
VOLUNTARY PURCHASING GROUPS		BONHAM TEX.		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
11-5-6M	25075	10.1*	6.1	6.9		101	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers, July 1968-June 1969**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

WARNER FERTILIZER COMPANY		SOMERSET		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	23479	0.0	21.5	21.6			108
0-25-25M	23098	0.0	21.5*	28.4			95*
5-10-15S	23099	5.3	11.9	15.6			110
5-10-15S	25019	4.5*	7.8*	15.8	*		90*
5-20-20M	23097	6.8	25.4	12.7*			112
5-20-20M	24019	4.9	19.1*	22.2			100
10-10-10M	23723	9.7	11.7	9.9			104
10-10-10M	24020	11.7	11.3	10.0			113
10-10-20S	23478	10.1	11.8	20.4			106
12-12-12M	23480	11.9	11.8	13.3			101
12-24-12M	23522	11.3*	23.0*	13.1			97*
12-24-12M	24242	13.9	26.2	12.3			111

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

SAMPLE NUMBER	MANUFACTURER, BRAND NAME	PHOSPHORIC ACID		PERCENT OF		
		AVAILABLE	TOTAL	RELATIVE VALUE	FOUND	
		GUAR. FOUND	GUAR. FOUND			
<u>Thompson Sales Company</u>						
23653	Calphos	2.0	3.8	18.0	18.9	105
24068	Calphos	2.0	4.3	18.0	18.4	102
24608	Calphos	2.0	4.0	18.0	22.3	124

TABLE 3 - Analyses of Inspection Samples of Organic Material.

SAMPLE NUMBER	MANUFACTURER, BRAND NAME	NITROGEN	AVAILABLE	SOLUBLE	PERCENT
			PHOSPHORIC ACID		
					FOUND
<u>Agrico Chemical Co.</u>					
24880	7-0-0 Agrinite	6.9	---	---	98
<u>Blue Grass Plant Food Inc.</u>					
25211	9-0-0 Bluenite	10.1	---	---	112
<u>International Mineral &amp; Chemical Corp.</u>					
25028	10-0-0 Mello Green	10.3	---	---	103
<u>USS Agri-Chemicals Inc.</u>					
23596	5-5-0 Armorganic	5.4	7.9	---	108

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
Blue Grass Plant Foods, Inc. Cynthiana, Ky.	24198	5- 8- 0	0.20	0.22
	25009	5- 6-17	0.07	0.06*
Burley Belt Fert. Co. Lexington, Ky.	24865	0-10-30	0.57	0.44*
Burley Belt Chem. Co. London, Ky.	23557	0-15-30	0.91	1.00
	23827	0-19-38	0.40	0.48
Glasgow Fert. Co. Glasgow, Ky.	23850	0-20-20	0.57	0.37*
Gro-Green Chemical Co., Inc. Shelbyville, Ky.	23444	8-12-15	0.10	0.10
	24690	8-24-10	0.05	0.09
	24825	5-21-21	0.46	0.23*
	25182	0- 9-28	0.77	1.00
Gulf Oil Corp., Agri.Chem.Div. Cecilia, Ky.	24277	5-14-28	0.72	0.84
Gulf Oil Corp., Agri.Chem.Div. Horse Cave, Ky.	24291	3-23-20	0.43	0.52
North American Fert. Co. Louisville, Ky.	24190	5-20-20	0.56	0.32*
	25027	5-20-20	0.56	0.42*
Royster Company Norfolk, Va.	25188	0-20-20	0.57	0.59
	25191	0-10-30	0.57	0.58
Southern States Coop., Inc. Russellville, Ky.	23514	0-15-30	0.45	0.39*
S.S. Shelbyville Coop. Shelbyville, Ky.	24641	9- 0-39	0.70	1.04
	24642	5-18-23	0.47	0.48
USS Agri-Chemicals, Inc. Atlanta, Ga.	24308	0-25-25	0.57	0.25*

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
AGRICO CHEMICAL COMPANY, MEMPHIS, TENN.				
23403	5-10-15	MAGNESIUM	3.0000	2.1000 *
24217	5-10-15	MAGNESIUM	1.8000	1.8400
24343	6-22-10	MAGNESIUM	1.0000	1.8000
24852	10-10-20	MAGNESIUM	3.0000	3.5000
24343	6-22-10	IRON	0.5000	0.9800
24852	10-10-20	IRON	0.5000	0.4500 *
24343	6-22-10	ZINC	1.0000	1.0400
BLUEGRASS PLANT FOODS, INC., CYNTHIANA, KY.				
24922	8- 6-18	MAGNESIUM	1.2000	1.0200 *
24198	5- 8- 0	COPPER	0.4000	0.4900
24198	5- 8- 0	IRON	1.0900	1.6500
24384	8- 4-17	ZINC	0.0110	0.0900 M
25009	5- 6-17	ZINC	0.3600	0.2600 *
BORDEN INC. CHEMICAL DIV., NORFOLK, VA.				
24937	5- 8- 7	COPPER	0.0500	0.0600
24662	8-32-16	IRON	0.1000	0.5600
24937	5- 8- 7	IRON	1.5000	2.3300
25079	20- 5- 5	IRON	0.2000	0.4300
24662	8-32-16	MANGANESE	0.0500	0.0800
24937	5- 8- 7	MANGANESE	0.0500	0.0200 *
24662	8-32-16	ZINC	0.0500	0.0700
24937	5- 8- 7	ZINC	0.1000	0.1400
BURLEY BELT FERTILIZER COMPANY, LEXINGTON, KY.				
24999	12- 5-20	CALCIUM	0.0	0.8500 M
24823	6-12-18	MAGNESIUM	2.0000	2.3000
24862	6-12-18	MAGNESIUM	2.0000	2.3000
24999	12- 5-20	MAGNESIUM	0.0	2.2000 M
24999	12- 5-20	COPPER	0.0	0.1110 M
24999	12- 5-20	IRON	0.0	0.1750
24999	12- 5-20	MANGANESE	0.0	0.0050 M
24999	12- 5-20	ZINC	0.0	0.1950 M
BURLEY BELT CHEMICAL COMPANY, LONDON, KY.				
23560	6-12-18	MAGNESIUM	2.0000	2.3000
23963	6-12-18	MAGNESIUM	2.0000	2.8000
24234	6-12-18	MAGNESIUM	2.0000	2.1000
CHEVRON CHEMICAL CO., RICHMOND, CAL.				
24938	8- 8- 8	MAGNESIUM	0.6000	0.9000
24938	8- 8- 8	IRON	0.3200	0.7350
24974	12- 6- 6	IRON	0.5000	0.5200
25003	22- 4- 4	IRON	2.0000	0.3100 *
25076	20- 3- 3	IRON	1.9000	1.7000 *
24938	8- 8- 8	MANGANESE	0.0700	0.0700
24974	12- 6- 6	ZINC	0.1000	0.0960

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 CO., RUSSELLVILLE, KY.				
23532	5-20-20	MAGNESIUM	0.5000	0.6800
23634	8-12-15	MAGNESIUM	0.5000	0.4500 *
24045	8-12-15	MAGNESIUM	0.5000	0.5200
25116	6-21-18	MAGNESIUM	0.5000	0.2750 *
23532	5-20-20	IRON	0.1000	0.5300
23634	8-12-15	IRON	0.1000	0.2800
24045	8-12-15	IRON	0.1000	0.3100
25116	6-21-18	IRON	0.1000	0.5450
23532	5-20-20	MANGANESE	0.0500	0.0420
23634	8-12-15	MANGANESE	0.0500	0.0650
24045	8-12-15	MANGANESE	0.0500	0.0550
25116	6-21-18	MANGANESE	0.0500	0.5900 M
23532	5-20-20	ZINC	0.0500	0.0370 *
23634	8-12-15	ZINC	0.0500	0.0760
24045	8-12-15	ZINC	0.0500	0.8100 M
25116	6-21-18	ZINC	0.0500	0.8200 M
FEDERAL CHEMICAL COMPANY, HUMBOLDT, TENN.				
24584	10-10-15	MAGNESIUM	1.5000	1.7500
24584	10-10-15	COPPER	0.0500	0.0400
24584	10-10-15	ZINC	0.0500	0.0400
23186	10-10-15	CALCIUM	4.0000	5.7500
23186	10-10-15	MAGNESIUM	1.5000	1.5500
23346	10-10-15	MAGNESIUM	1.5000	1.8500
FEDERAL CHEMICAL COMPANY, LOUISVILLE, KY.				
23795	10-10-15	MAGNESIUM	15.0000	1.2000 *
23801	10-10-15	MAGNESIUM	1.5000	1.9700
23802	5-25-15	MAGNESIUM	2.0000	3.3000
23951	10-10-15	MAGNESIUM	1.5000	2.7000
24413	10-10-15	MAGNESIUM	1.5000	2.4500
25000	10-10-15	MAGNESIUM	1.5000	1.7200
25114	5-25-15	MAGNESIUM	2.0000	2.8800
23186	10-10-15	COPPER	0.0500	0.0430
23346	10-10-15	COPPER	0.0500	0.0390 *
23795	10-10-15	COPPER	0.0500	0.0370 *
23801	10-10-15	COPPER	0.0500	0.0470
23802	5-25-15	COPPER	0.0500	0.0380 *
23951	10-10-15	COPPER	0.0500	0.4600 M
24413	10-10-15	COPPER	0.0500	0.0170 *
25000	10-10-15	COPPER	0.0500	0.0150 *
25114	5-25-15	COPPER	0.0500	0.0350 *
23802	5-25-15	IRON	0.1000	0.8000
25114	5-25-15	IRON	0.1000	0.7300
23186	10-10-15	ZINC	0.0500	0.0420
23346	10-10-15	ZINC	0.0500	0.0410
23795	10-10-15	ZINC	0.0500	0.0440
23801	10-10-15	ZINC	0.0500	0.0700
23802	5-25-15	ZINC	0.5000	0.1000 *
23951	10-10-15	ZINC	0.0500	0.0510
24413	10-10-15	ZINC	0.0500	0.0240 *
25000	10-10-15	ZINC	0.0500	0.0250 *
25114	5-25-15	ZINC	0.5000	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
FEDERAL CHEMICAL COMPANY, NASHVILLE, TENN.				
24850	10-10-15	MAGNESIUM	1.5000	1.9000
24850	10-10-15	COPPER	0.0500	0.0700
24850	10-10-15	ZINC	0.0500	0.0700
GRO-GREEN CHEMICAL CO., INC., SHELBYVILLE, KY.				
23441	8-24-10	MAGNESIUM	1.0000	1.8500
23444	8-12-15	MAGNESIUM	2.0000	2.8000
24387	8-10-15	MAGNESIUM	1.0000	2.7000 M
24388	8- 9-18	MAGNESIUM	1.5000	3.3000 M
24690	8-24-10	MAGNESIUM	1.0000	1.6700
25057	8-24-10	MAGNESIUM	1.0000	1.4500
GULF OIL CORP., HARTFORD, KY.				
24746	12-12-16	MAGNESIUM	2.0000	2.5500
24746	12-12-16	COPPER	0.0500	0.0470
24746	12-12-16	IRON	0.1000	0.5500
24746	12-12-16	ZINC	0.0500	0.0600
GULF OIL CORP., HENDERSON, KY.				
25048	4-10-15	MAGNESIUM	1.5000	3.1500 M
25048	4-10-15	COPPER	0.1000	0.1200
25048	4-10-15	IRON	0.2000	0.4600
25048	4-10-15	MANGANESE	0.1500	0.2500
GULF OIL CORP., IRVINGTON, KY.				
24646	11-11-15	MAGNESIUM	2.0000	2.1400
24646	11-11-15	COPPER	0.0500	0.0400
24646	11-11-15	IRON	0.1000	0.5700
24646	11-11-15	ZINC	0.0500	0.0490
GULF OIL CORP., KANSAS CITY, MO.				
23995	12-12-16	MAGNESIUM	2.0000	3.7500
23995	12-12-16	COPPER	0.0500	0.4600 M
23995	12-12-16	IRON	0.1000	0.4100
23995	12-12-16	ZINC	0.0500	0.0600
GULF OIL CORP., WALNUT RIDGE, ARK.				
24110	12-12-16	MAGNESIUM	2.0000	3.3400
24147	12-12-16	MAGNESIUM	2.0000	3.1900
24110	12-12-16	COPPER	0.0500	0.0390 *
24147	12-12-16	COPPER	0.0500	0.0440
24110	12-12-16	IRON	0.1000	0.6080
24147	12-12-16	IRON	0.1000	0.4680
24110	12-12-16	ZINC	0.0500	0.0530
24147	12-12-16	ZINC	0.0500	0.0520
KERR-MCGEE FARM CENTER, CADIZ, KY.				
24092	8-28-12	MAGNESIUM	2.0000	3.8500
24092	8-28-12	ZINC	0.5000	0.6900
KERR-MCGEE FARM CENTER, PEMBROKE, KY.				
24543	8-12-20	MAGNESIUM	4.2500	5.8000
24547	5-10-15	MAGNESIUM	4.2000	5.3200

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., RICHMOND, VA. (Cont'd.)				
24596	10-10-10	ZINC	0.0500	0.0310 *
24598	6-12-18	ZINC	0.0500	0.0440
24952	6-12-18	ZINC	0.0500	0.0270 *
24953	5-20-20	ZINC	0.0500	0.0090 *
MONSANTO, AGRI. CENTER, SLAUGHTERS, KY.				
25119	6-16-35	MAGNESIUM	0.6000	0.5200 *
25119	6-16-35	COPPER	0.1000	0.1420
25119	6-16-35	ZINC	0.3000	0.3500
NORTH AMERICAN FERTILIZER CO., LOUISVILLE, KY.				
24146	9- 9-17	MAGNESIUM	1.2000	2.1900
24178	9- 9-17	MAGNESIUM	1.2000	1.9500
24181	9- 9-17	MAGNESIUM	1.2000	1.8700
24215	9- 9-17	MAGNESIUM	1.2000	1.8000
24318	7-22-14	MAGNESIUM	1.2000	1.5000
24189	8-10-15	COPPER	0.0500	0.0530
24189	8-10-15	IRON	0.1000	0.2000
24146	9- 9-17	MANGANESE	0.2700	0.2000 *
24178	9- 9-17	MANGANESE	0.2700	0.2540
24181	9- 9-17	MANGANESE	0.2700	0.1700 *
24189	8-10-15	MANGANESE	0.0500	0.0430
24215	9- 9-17	MANGANESE	0.2700	0.1730 *
24146	9- 9-17	ZINC	0.2500	0.1500 *
24178	9- 9-17	ZINC	0.2500	0.2100
24181	9- 9-17	ZINC	0.2500	0.1470 *
24189	8-10-15	ZINC	0.0500	0.0460
24215	9- 9-17	ZINC	0.2500	0.1510 *
24318	7-22-14	ZINC	0.5400	0.3200 *
OHIO VALLEY FERTILIZER, INC., MAYSVILLE, KY.				
24371	10-10-20	MAGNESIUM	1.0000	0.4400 *
24372	5-10-20	MAGNESIUM	1.0000	0.3700 *
24378	8-10-15	MAGNESIUM	1.0000	0.3900 *
24381	10-10-20	MAGNESIUM	1.0000	0.4000 *
24867	6-12-18	MAGNESIUM	1.0000	0.4300 *
24873	10-10-20	MAGNESIUM	1.0000	0.4700 *
ROYSTER COMPANY, NORFOLK, VA.				
23021	4-12- 8	MAGNESIUM	0.6000	0.7400
23023	6-12-12	MAGNESIUM	0.6000	1.5000 M
23087	0-20-20	MAGNESIUM	0.6000	1.3500 M
23088	4-16- 4	MAGNESIUM	1.2000	1.0700 *
23142	5-10-15	MAGNESIUM	1.2000	0.8300 *
23144	6-12-12	MAGNESIUM	0.6000	0.9200
23156	5-10-15	MAGNESIUM	1.2000	0.9800 *
23396	5-10-15	MAGNESIUM	1.2000	0.9300 *
23398	6-12-12	MAGNESIUM	0.6000	0.8600
23446	5-10-15	MAGNESIUM	1.2000	1.1300
23483	0-20-20	MAGNESIUM	0.6000	0.9200
23484	4-16- 4	MAGNESIUM	1.2000	1.1300
23486	5-10-15	MAGNESIUM	1.2000	1.2300
23837	5-10-15	MAGNESIUM	1.2000	0.7800 *



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., RICHMOND, VA.				
23183	6-12-18	CALCIUM	8.0000	8.8800
23207	5-10-15	CALCIUM	9.0000	9.8500
23063	5-20-20	MAGNESIUM	0.5000	1.0200 M
23183	6-12-18	MAGNESIUM	0.5000	0.5400
23207	5-10-15	MAGNESIUM	0.5000	0.3400 *
23625	6-12-18	MAGNESIUM	0.0500	0.3700 M
23680	4-16- 4	MAGNESIUM	0.5000	1.0000 M
23818	6-12-18	MAGNESIUM	0.5000	0.7800
24596	10-10-10	MAGNESIUM	0.5000	0.3800 *
24598	6-12-18	MAGNESIUM	0.5000	0.6000
24952	6-12-18	MAGNESIUM	0.5000	0.4400 *
24953	5-20-20	MAGNESIUM	0.5000	0.5600
23145	6-12-18	COPPER	0.0500	0.0210 *
23183	6-12-18	COPPER	0.0500	0.0430
23207	5-10-15	COPPER	0.0500	0.0280 *
23574	4-16- 4	COPPER	0.0500	0.0480
23625	6-12-18	COPPER	0.0500	0.0170 *
23672	14-14-14	COPPER	0.0500	0.0260 *
23680	4-16- 4	COPPER	0.0500	0.0540
23818	6-12-18	COPPER	0.0500	0.0340 *
24596	10-10-10	COPPER	0.0500	0.0260 *
24598	6-12-18	COPPER	0.0500	0.0500
24952	6-12-18	COPPER	0.0500	0.0280 *
24953	5-20-20	COPPER	0.0500	0.0011 *
23145	6-12-18	IRON	0.1000	0.4500
23183	6-12-18	IRON	0.1000	0.4300
23207	5-10-15	IRON	0.1000	0.4100
23574	4-16- 4	IRON	0.1000	0.6200
23625	6-12-18	IRON	0.1000	0.4300
23672	14-14-14	IRON	0.1000	0.4300
23680	4-16- 4	IRON	0.1000	0.4100
23818	6-12-18	IRON	0.1000	0.5500
24596	10-10-10	IRON	0.1000	0.4000
24598	6-12-18	IRON	0.1000	0.4000
24952	6-12-18	IRON	0.1000	0.4300
24953	5-20-20	IRON	0.1000	0.7500
23145	6-12-18	MANGANESE	0.0500	0.0310 *
23183	6-12-18	MANGANESE	0.0500	0.0510
23207	5-10-15	MANGANESE	0.0500	0.0440
23574	4-16- 4	MANGANESE	0.0500	0.0560
23672	14-14-14	MANGANESE	0.0500	0.0350 *
23680	4-16- 4	MANGANESE	0.0500	0.0600
23818	6-12-18	MANGANESE	0.0500	0.0460
24596	10-10-10	MANGANESE	0.0500	0.0400
24598	6-12-18	MANGANESE	0.0500	0.0560
24952	6-12-18	MANGANESE	0.0500	0.0340 *
24953	5-20-20	MANGANESE	0.0500	0.0140 *
23145	6-12-18	ZINC	0.0500	0.0250 *
23183	6-12-18	ZINC	0.0500	0.0450
23207	5-10-15	ZINC	0.0500	0.0220 *
23574	4-16- 4	ZINC	0.0500	0.0330 *
23625	6-12-18	ZINC	0.0500	0.0210 *
23672	14-14-14	ZINC	0.0500	0.0250 *
23680	4-16- 4	ZINC	0.0500	0.0420
23818	6-12-18	ZINC	0.0500	0.0400

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.)				
23935	5-10-15	MAGNESIUM	1.2000	1.3000
23936	5-10-15	MAGNESIUM	1.2000	1.2000
24149	10-10-15	MAGNESIUM	1.2000	1.0000 *
24150	10-10-10	MAGNESIUM	0.5000	0.6030
24162	10-10-15	MAGNESIUM	1.2000	1.1900
24163	5-10-15	MAGNESIUM	1.2000	1.2200
24166	5-10-15	MAGNESIUM	1.2000	1.0100 *
24210	5-10-15	MAGNESIUM	1.2000	1.4000
24404	5-10-15	MAGNESIUM	1.2000	1.3500
24405	5-10-15	MAGNESIUM	1.2000	0.9600 *
24417	10-10-15	MAGNESIUM	1.2000	1.3200
24475	10-10-15	MAGNESIUM	1.2000	1.1900
24506	5-10-15	MAGNESIUM	1.2000	0.8500 *
24527	5-10-15	MAGNESIUM	1.2000	1.4400
24616	5-10-15	MAGNESIUM	1.2000	1.0000 *
24915	10-10-15	MAGNESIUM	1.2000	1.1800
24994	5-10-15	MAGNESIUM	1.2000	0.7880 *
25055	0-20-20	MAGNESIUM	0.6000	2.1000 M
25112	10-10-15	MAGNESIUM	1.2000	1.2100
25187	6-12-12	MAGNESIUM	0.6000	0.8580
25189	5-10-15	MAGNESIUM	1.2000	1.0700 *
23022	10-10-10	COPPER	0.0500	0.0510
23088	4-16- 4	COPPER	0.0500	0.0450
23142	5-10-15	COPPER	0.0500	0.0640
23156	5-10-15	COPPER	0.0500	0.0630
23484	4-16- 4	COPPER	0.0500	0.0510
23486	5-10-15	COPPER	0.0500	0.0630
23837	5-10-15	COPPER	0.0500	0.0680
24149	10-10-15	COPPER	0.0500	0.0470
24150	10-10-10	COPPER	0.0500	0.0570
24166	5-10-15	COPPER	0.0500	0.0620
24405	5-10-15	COPPER	0.0500	0.0600
24417	10-10-15	COPPER	0.0500	0.0410
24527	5-10-15	COPPER	0.0500	0.0600
24616	5-10-15	COPPER	0.0500	0.0600
25112	10-10-15	COPPER	0.0500	0.0170 *
25189	5-10-15	COPPER	0.0500	0.0680
23022	10-10-10	IRON	0.0100	0.5400
23088	4-16- 4	IRON	0.1000	0.4300
23142	5-10-15	IRON	0.1000	0.2800
23156	5-10-15	IRON	0.1000	0.2900
23484	4-16- 4	IRON	0.1000	0.4100
23486	5-10-15	IRON	0.1000	0.3000
23837	5-10-15	IRON	0.1000	0.2500
24149	10-10-15	IRON	0.1000	0.3500
24150	10-10-10	IRON	0.1000	0.5000
24166	5-10-15	IRON	0.1000	0.2500
24405	5-10-15	IRON	0.1000	0.2700
24417	10-10-15	IRON	0.1000	0.2200
24527	5-10-15	IRON	0.1000	0.2900
24616	5-10-15	IRON	0.1000	0.2400
25112	10-10-15	IRON	0.1000	0.2300
25189	5-10-15	IRON	0.1000	0.2700
23022	10-10-10	MANGANESE	0.0500	0.1400
23088	4-16- 4	MANGANESE	0.0500	0.0420

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.)				
23142	5-10-15	MANGANESE	0.0500	0.0490
23156	5-10-15	MANGANESE	0.0500	0.0480
23484	4-16- 4	MANGANESE	0.0500	0.0460
23486	5-10-15	MANGANESE	0.0500	0.0500
23837	5-10-15	MANGANESE	0.0500	0.0500
24149	10-10-15	MANGANESE	0.0500	0.0570
24150	10-10-10	MANGANESE	0.0500	0.1380 M
24166	5-10-15	MANGANESE	0.0500	0.0750
24405	5-10-15	MANGANESE	0.0500	0.0600
24417	10-10-15	MANGANESE	0.0500	0.0350 *
24527	5-10-15	MANGANESE	0.0500	0.0500
24616	5-10-15	MANGANESE	0.0500	0.0600
25112	10-10-15	MANGANESE	0.0500	0.0200 *
25189	5-10-15	MANGANESE	0.0500	0.0600
23022	10-10-10	ZINC	0.0500	0.0900
23088	4-16- 4	ZINC	0.0500	0.0400
23142	5-10-15	ZINC	0.0500	0.0490
23156	5-10-15	ZINC	0.0500	0.0470
23484	4-16- 4	ZINC	0.0500	0.0350 *
23486	5-10-15	ZINC	0.0500	0.0450
23837	5-10-15	ZINC	0.0500	0.0500
24149	10-10-15	ZINC	0.0500	0.0560
24150	10-10-10	ZINC	0.0500	0.1000 M
24166	5-10-15	ZINC	0.0500	0.0480
24405	5-10-15	ZINC	0.0500	0.0500
24417	10-10-15	ZINC	0.0500	0.0340 *
24527	5-10-15	ZINC	0.0500	0.0400
24616	5-10-15	ZINC	0.0500	0.0500
25112	10-10-15	ZINC	0.0500	0.0220 *
SINCLAIR PETROCHEMICALS INC., CHICAGO, ILL.				
24948	6-16-35	COPPER	0.0500	0.0890
24948	6-16-35	IRON	0.1000	0.9600
24948	6-16-35	MANGANESE	1.0000	1.4500
24948	6-16-35	ZINC	0.0500	0.1950 M
THOMPSON SALES COMPANY, MONTGOMERY, ALA.				
23653	0-18- 0	IRON	1.5000	1.5700
24068	0-18- 0	IRON	1.5000	1.9000
USS AGRI-CHEMICALS, INC., ATLANTA, GA.				
23626	10- 6- 4	MAGNESIUM	1.2000	1.6000
23862	10- 6- 4	MAGNESIUM	1.2000	1.8000
23626	10- 6- 4	IRON	0.1000	0.9100
23862	10- 6- 4	IRON	0.1000	0.8100

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
AGRICOL CHEMICAL COMPANY, MEMPHIS, TENN.				
23407	4-16- 4	ALDRIN	0.1500	0.0500 *
23568	4-16- 4	ALDRIN	0.1000	0.2800 M
23699	4-16- 4	ALDRIN	0.3000	0.0700 *
23700	5-10-15	ALDRIN	0.1500	0.1400
23906	4-16- 4	ALDRIN	0.3000	0.1600 *
23988	4-16- 4	ALDRIN	0.3000	0.0400 *
24217	5-10-15	ALDRIN	0.1500	0.0800 *
24490	5-10-15	ALDRIN	0.1400	0.1000 *
24868	4-16- 4	ALDRIN	0.3000	0.4300
24869	5-10-15	ALDRIN	0.1500	0.1600
24923	5-10-15	ALDRIN	0.1500	0.1400
BLUEGRASS PLANT FOODS, INC., CYNTHIANA, KY.				
24213	6-12-18	ALDRIN	0.1490	0.1400
24214	13- 6-16	ALDRIN	0.1400	0.1500
24385	5- 4-12	ALDRIN	0.1000	0.0600 *
24922	8- 6-18	ALDRIN	0.1500	0.1300
25012	5- 6-10	ALDRIN	0.1500	0.1100 *
25013	11- 7-11	ALDRIN	0.1400	0.1200
25014	5- 6-10	ALDRIN	0.0900	0.0600 *
25015	6- 6-17	ALDRIN	0.1400	0.1600
25016	10- 8-11	ALDRIN	0.1100	0.2100 M
25017	8-10-14	ALDRIN	0.1400	0.0500 *
BURLEY BELT FERTILIZER COMPANY, LEXINGTON, KY.				
22982	5-10-15	ALDRIN	0.1500	0.0800 *
23665	4-16- 4	ALDRIN	0.3100	0.2800
23788	4-16- 4	ALDRIN	0.3100	0.3000
24481	4-16- 4	ALDRIN	0.3100	0.2600
24487	8-10-15	ALDRIN	0.1500	0.1600
24488	5-10-15	ALDRIN	0.1500	0.1200 *
24489	5-10-15	ALDRIN	0.1500	0.2200
24840	8- 6-18	ALDRIN	0.1500	0.2200
24841	9- 9- 9	ALDRIN	0.4000	0.6700 M
24842	11- 9-18	ALDRIN	0.0900	0.0800
24843	8-10-15	ALDRIN	0.1500	0.1400
24870	4-16- 4	ALDRIN	0.3100	0.2800
24871	6- 6-18	ALDRIN	0.1500	0.1600
24872	10-10-20	ALDRIN	0.1500	0.1700
25060	3- 3-11	ALDRIN	0.0995	0.1200
25061	12- 4-14	ALDRIN	0.3280	0.0600 *
25062	10-10-20	ALDRIN	0.1500	0.0600 *
COMMONWEALTH FERTILIZER CO., RUSSELLVILLE, KY.				
23635	4-16- 4	ALDRIN	0.3100	0.2400 *
23655	4-16- 4	ALDRIN	0.3100	0.2300 *
25025	5-10-15	ALDRIN	0.1500	0.1300

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
FEDERAL CHEMICAL COMPANY, LOUISVILLE, KY.				
23281	4-16- 4	ALDRIN	0.1875	0.3400 M
23332	4-16- 4	ALDRIN	0.1875	0.0 *
23678	4-16- 4	ALDRIN	0.1875	0.0 *
23693	4-16- 4	ALDRIN	0.1875	0.0700 *
23694	4-16- 4	ALDRIN	0.1875	0.0200 *
23698	9-10-15	ALDRIN	0.1500	0.0500 *
23794	4-16- 4	ALDRIN	0.1875	0.0800 *
23901	6-12-12	ALDRIN	0.5000	0.4200
23907	4-16- 4	ALDRIN	0.1875	0.1000 *
23910	5-10-15	ALDRIN	0.1500	0.0800 *
GLASGOW FERTILIZER COMPANY, GLASGOW, KY.				
23419	4-16- 4	ALDRIN	0.3100	0.2000 *
23904	4-16- 4	ALDRIN	0.3100	0.2700
W. R. GRACE & CO., NASHVILLE, TENN.				
23416	4-16- 4	ALDRIN	0.3100	0.1600 *
23590	5-10-15	ALDRIN	0.2500	0.2400
W. R. GRACE & CO., NEW ALBANY, IND.				
23166	4-16- 4	ALDRIN	0.3100	0.0700 *
23261	4-16- 4	ALDRIN	0.1875	0.0500 *
23264	9-10-15	ALDRIN	0.1500	0.0700 *
23400	4-16- 4	ALDRIN	0.3100	0.4800 M
23589	4-16- 4	ALDRIN	0.3100	0.1300 *
24219	5-10-15	ALDRIN	0.1500	0.1300
24493	5-10-15	ALDRIN	0.1500	0.1100 *
GRO-GREEN CHEMICAL CO., INC., SHELBYVILLE, KY.				
23528	8-10-15	ALDRIN	0.1500	0.1300
24483	2- 5- 6	ALDRIN	0.0500	0.0500
24484	5- 6- 9	ALDRIN	0.0670	0.0800
24485	10-13-11	ALDRIN	0.0960	0.0800
24486	9-13- 7	ALDRIN	0.0960	0.0200 *
24837	8-11-11	ALDRIN	0.1140	0.0900 *
24838	5- 7- 7	ALDRIN	0.0580	0.0900 M
GRO-GREEN PAYNES, MIDWAY, KY.				
24223	6 17 10- 0- 7	ALDRIN	0.1400	0.1600
25063	6 17 6-10-10	ALDRIN	0.0790	0.0900
25064	6 17 17- 6- 9	ALDRIN	0.2430	0.3100
GULF OIL CORP., IRVINGTON, KY.				
24646	11-11-15	ALDRIN	0.1100	0.1700 M
24651	5-10-14	ALDRIN	0.0700	0.0600
INTERNATIONAL MINERALS & CHEMICAL CORP., CINCINNATI, OHIO				
23334	5-10-15	ALDRIN	0.1500	0.1900
23367	4-16- 4	ALDRIN	0.3100	0.1100 *
23616	4-16- 4	ALDRIN	0.3100	0.1300 *
23617	5-10-15	ALDRIN	0.1500	0.1000 *
24610	5-10-15	ALDRIN	0.1500	0.1500

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., SOMERSET, KY.				
23319	6-12-18	ALDRIN	0.1500	0.0300 *
23639	4-16- 4	ALDRIN	0.3100	0.2300 *
23785	4-16- 4	ALDRIN	0.3100	0.2500
MOBIL CHEMICAL CO., RICHMOND, VA.				
23158	4-16- 4	ALDRIN	0.3100	0.0800 *
23300	4-16- 4	ALDRIN	0.3100	0.0900 *
23349	4-16- 4	ALDRIN	0.3100	0.0700 *
23566	4-16- 4	ALDRIN	0.3100	0.0500 *
23574	4-16- 4	ALDRIN	0.1500	0.0800 *
23786	4-16- 4	ALDRIN	0.1500	0.0400 *
23905	4-16- 4	ALDRIN	0.3100	0.0300 *
NORTH AMERICAN FERTILIZER CO., LOUISVILLE, KY.				
23409	4-16- 4	ALDRIN	0.3100	0.1600 *
23784	4-16- 4	ALDRIN	0.3100	0.0500 *
24215	9- 9-17	ALDRIN	0.1500	0.1000 *
24682	8- 8-15	ALDRIN	0.1300	0.0 *
24876	11- 9-19	ALDRIN	0.1480	0.1600
OHIO VALLEY FERTILIZER, INC., MAYSVILLE, KY.				
24371	10-10-20	ALDRIN	0.1500	0.1900
24373	5-10-15	ALDRIN	0.1500	0.0600 *
24378	8-10-15	ALDRIN	0.1500	0.0700 *
24873	10-10-20	ALDRIN	0.1500	0.0800 *
ROYSTER COMPANY, NORFOLK, VA.				
23088	4-16- 4	ALDRIN	0.3100	0.2500
23484	4-16- 4	ALDRIN	0.3100	0.0500 *
23902	4-16- 4	ALDRIN	0.3100	0.3000
25189	5-10-15	ALDRIN	0.1500	0.1300
SOUTHERN STATES COOP., INC., LOUISVILLE, KY.				
23172	5-10-15	ALDRIN	0.1500	0.1800
23223	4-16- 4	ALDRIN	0.3100	0.3500
23227	4-16- 4	ALDRIN	0.3100	0.2900
23304	4-16- 4	ALDRIN	0.3100	0.3200
23345	4-16- 4	ALDRIN	0.3100	0.3100
23363	4-16- 4	ALDRIN	0.3100	0.2900
23408	4-16- 4	ALDRIN	0.3100	0.2900
23432	4-16- 4	ALDRIN	0.3100	0.2600
23462	5-10-15	ALDRIN	0.1500	0.1300
23463	4-16- 4	ALDRIN	0.3100	0.3400
23569	4-16- 4	ALDRIN	0.3100	0.3000
23781	10-10-10	ALDRIN	0.5000	0.4900
23903	4-16- 4	ALDRIN	0.3100	0.3400
24276	5-10-15	ALDRIN	0.1500	0.1500
24847	6- 6-18	ALDRIN	0.1500	0.1600

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 COOP., INC., RUSSELLVILLE, KY.				
23435	5-10-15	ALDRIN	0.1500	0.1000 *
23516	5-10-15	ALDRIN	0.1500	0.1300
23909	5-10-15	ALDRIN	0.1500	0.1600
23911	5-10-15	ALDRIN	0.1500	0.1500
24216	5-10-15	ALDRIN	0.1500	0.1700
24357	5-10-15	ALDRIN	0.1500	0.1400
SOUTHERN STATES COOP., INC., WINCHESTER, KY.				
23154	4-16-4	ALDRIN	0.3100	0.3300
23271	4-16-4	ALDRIN	0.3100	0.2800
23278	5-10-15	ALDRIN	0.1500	0.1600
23301	0-16-4	ALDRIN	0.3100	0.9100 M
23360	4-16-4	ALDRIN	0.3100	0.3300
23592	8-10-15	ALDRIN	0.1500	0.1300
23597	4-16-4	ALDRIN	0.3100	0.3200
23789	5-10-15	ALDRIN	0.1500	0.1600
23989	4-16-4	ALDRIN	0.3100	0.3100
24212	6-6-18	ALDRIN	0.1500	0.1100 *
24491	5-10-15	ALDRIN	0.1500	0.1200 *
25018	6-6-18	ALDRIN	0.1500	0.1200 *
SOUTHERN STATES HOPKINSVILLE COOP., HOPKINSVILLE, KY.				
24603	12-12-18	ALDRIN	0.1800	0.2600
24604	12-12-18	ALDRIN	0.1800	0.3200 M
USS AGRI-CHEMICALS, INC., ATLANTA, GA.				
23226	5-10-5	ALDRIN	0.1875	0.2300
23338	5-10-5	ALDRIN	0.1875	0.1700
23457	5-10-5	ALDRIN	0.1875	0.1600
23622	5-10-5	ALDRIN	0.1875	0.0700 *
23908	5-10-5	ALDRIN	0.1875	0.1900
23912	5-10-5	ALDRIN	0.1875	0.1700
23913	5-10-5	ALDRIN	0.1875	0.2300
24492	5-10-15	ALDRIN	0.1500	0.0700 *
24844	5-10-15	ALDRIN	0.1500	0.0700 *
USS AGRI-CHEMICALS, INC., CINCINNATI, OHIO				
23355	4-16-4	ALDRIN	0.1875	0.0900 *
23501	4-16-4	ALDRIN	0.1875	0.0900 *
24672	5-10-15	ALDRIN	0.1500	0.0600 *
24673	10-10-20	ALDRIN	0.1500	0.1000 *
24677	6-12-18	ALDRIN	0.1500	0.0400 *
USS AGRI-CHEMICALS, INC., JEFFERSONVILLE, IND.				
23171	5-10-5	ALDRIN	0.1875	0.1700
23570	5-10-5	ALDRIN	0.1875	0.1600
23633	5-10-15	ALDRIN	0.1500	0.4500 M
23782	4-16-4	ALDRIN	0.1875	0.0700 *
23783	4-16-4	ALDRIN	0.1875	0.1500 *
24218	5-10-15	ALDRIN	0.1500	0.1500
USS AGRI-CHEMICALS, INC., NASHVILLE, TENN.				
23122	5-10-5	ALDRIN	0.1875	0.0400 *
23280	5-10-5	ALDRIN	0.1875	0.0 *
23293	5-10-5	ALDRIN	0.1875	0.1300 *
24482	6-12-18	ALDRIN	0.1500	0.2000

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