

Regulatory Bulletin 207

**REPORT OF  
ANALYSES OF OFFICIAL  
FERTILIZER SAMPLES**

JULY 1970-JUNE 1971



University of Kentucky  
College of Agriculture  
Agricultural Experiment Station  
Lexington

DIVISION OF REGULATORY SERVICES  
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This bulletin contains the results of analyses of 2,082 official samples of commercial fertilizer made during the period July 1, 1970 through June 30, 1971.

Separate tables are provided for the results of the analyses for nitrogen, available phosphoric acid and soluble potash, organics, boron, and secondary and micro nutrients.

#### EXPLANATION OF TABLES

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

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

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

5.0 Units of Nitrogen	x 3 =	15.0
10.0 Units of Available Phosphoric Acid	x 2 =	20.0
15.0 Units of Potash	x 1 =	15.0
Total computed guaranteed value		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 =	15.1
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% guarantee.

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 Co.  
Industrial Drive  
Hopkinsville, Kentucky 42240

Agrico Chemical Co.  
5050 Poplar Ave.  
Memphis, Tennessee 38101

T. R. Akridge & Son  
Fredonia, Kentucky 42411

A & L Farm Service Inc.  
Lawrenceburg, Kentucky 40342

Allensville Crop Service  
Allensville, Kentucky 42204

Allied Chemical Corp.  
Box 2061R  
Morristown, N. J. 07960

American Cyanamid Co.  
P. O. Box 400  
Princeton, N. J. 08504

Anderson Fertilizer Div.  
Free Flow Fertilizer Co.  
Box 119  
Maumee, Ohio 43537

Arco Chemical Co.  
Box 328  
Ft. Madison, Iowa 52627

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

Askew Farm Service  
Route #1  
Hopkinsville, Kentucky 42240

E. M. Bailey Distributing  
1000 So. 8th Street  
Paducah, Kentucky 42001

Ballard County Coop.  
LaCenter, Kentucky 42056

Big Four Feed & Implement Co.  
Scottsville, Kentucky 42164

Bluegrass Plant Foods, Inc.  
Cynthiana, Kentucky 41031

Burkharts Feed Mill  
Auburn, Kentucky 42206

Burley Belt Fertilizer Co.  
Box 5150  
Lexington, Kentucky 40505

Burley Belt Chemical Co.  
Box 7  
London, Kentucky 40741

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

Cayce Lime & Fertilizer  
Route 4  
Fulton, Kentucky 42041

CF Industries  
100 South Wacker Drive  
Chicago, Illinois 60606

Chevron Chemical Company  
940 Hensley Street  
Richmond, California 94801

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

Christian Supply Co.  
Skyline Drive  
Hopkinsville, Kentucky 42240

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

Commonwealth Fertilizer Co.  
Morgantown Road  
Russellville, Kentucky 42276

Crafton & Duncan Inc.  
1228 2nd Street  
Henderson, Kentucky 42420

Elkton Crop Service  
Route 2  
Guthrie, Kentucky 42234

Farmers Chemical Ass'n.  
P. O. Box 87  
Harrison, Tennessee 37341

## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Farmers Fertilizer Co.  
Smith Grove, Kentucky 42171

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

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

Federal Chemical Co.  
646 Starks Building  
Louisville, Kentucky 40202

Franklin Crop Service  
Route 3  
Franklin, Kentucky 42134

Frasier Supply Co.  
505 West Main Street  
Glasgow, Kentucky 42141

Gamaliel Bulk Fertilizer Inc.  
Gamaliel, Kentucky 42140

Gene's "Ag" Supply  
Box 187  
Sturgis, Kentucky 42459

Glasgow Fertilizer Co.  
Industrial Avenue  
Glasgow, Kentucky 42141

Glasgow Trading Center  
Glasgow, Kentucky 42141

W. R. Grace & Co.  
Agricultural Chemical Group  
100 N. Main Street  
Memphis, Tennessee 38103

Graves County Soil Imp. Ass'n.  
Mayfield, Kentucky 42066

Green Valley Farm Supply Co.  
Island, Kentucky 42350

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

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

Hancock County Farm Supply  
Hawesville, Kentucky 42348

Howe-Hilliard Grain Co.  
Mayfield, Kentucky 42066

Hutson Chemical Co.  
103 Maple Street  
Murray, Kentucky 42071

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

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

Kerr-McGee Farm Center  
Kerr-McGee Building  
Oklahoma City, Oklahoma 73102

Livingston County Coop.  
Smithland, Kentucky 42081

Louisville Chemical Co.  
601-605 Jefferson Street  
Louisville, Kentucky 40202

McCauley Brothers Seed Co.  
111 Broadway  
Versailles, Kentucky 40383

Marshall County Soil Imp. Ass'n.  
Box 121  
Benton, Kentucky 42025

Miles Farms  
Route 3  
Owensboro, Kentucky 42301

Mississippi Chemical Corp.  
Box 388  
Yazoo City, Mississippi 29194

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

## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Nall Brothers  
Vine Grove, Kentucky 40175

North American Fertilizer Company  
Preston & Bergman  
Louisville, Kentucky 40217

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

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

J. Petty Co.  
Route 1  
Gracey, Kentucky 41143

Phelps Farm Service  
424 So. Third Street  
Paducah, Kentucky 42001

Phillips Petroleum Company  
841 Adams Building  
Bartlesville, Oklahoma 74004

Rich Pond Crop Service  
Route #4  
Bowling Green, Kentucky 42101

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

W. M. Rudy & Son  
Bandana, Kentucky 42022

Sandusky Mill, Inc.  
Harrodsburg, Kentucky 40330

Scottsville Fertilizer Co.  
Scottsville, Kentucky 42164

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

Southeast Chemical Co.  
Box 130  
London, Kentucky 40741

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

Spencer Farm Service  
Taylorsville, Kentucky 40071

Springfield Farmers Service  
Springfield, Kentucky 40069

Stanley Crop Service  
Stanley, Kentucky 42375

Stewart Fertilizer Service  
Mt. Vernon, Kentucky 40456

Swift Agricultural Chemical Corp.  
111 W. Jackson Blvd.  
Chicago, Illinois 60604

Tennessee Farmers Coop.  
Lavergne, Tennessee 37086

Todd County Grain Co.  
Elkton, Kentucky 42220

Tompkinsville Fertilizer Co.  
Tompkinsville, Kentucky 42167

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

Union Fertilizer Company  
Morganfield, Kentucky 42437

Voluntary Purchasing Groups  
Box 640  
Bonham, Texas 75418

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

Wegro Incorporated  
Third Street  
Grand Rapids, Ohio 43522

## 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 18 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 120% or less than 80% in relative value except:
  - a. The sample is within  $\pm 20\%$  of the average sample value.
  - b. The variation of all the sample values is such that the samples more than  $\pm 20\%$  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 20% or more of the extreme values of the remaining normal samples.

Average Analysis and Coefficient of Variation of Samples Analyzed, July 1970 - June 1971

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	0-25-25	2	---	24.6	24.7	---	3.2	3.4	
	5-10-15	5	5.3	10.8	14.9	3.5	7.9	3.0	
	5-20-20	5	5.2	20.4	19.6	4.0	2.5	1.4	
	6- 6-18	2	6.6	6.0	18.0	3.2	2.4	0.8	
	6-12-12	2	5.8	11.9	12.3	1.2	1.8	2.3	
	6-24-24	4	6.0	23.6	23.6	2.2	1.4	1.3	
	8- 8-18	2	8.0	8.3	18.1	8.0	1.7	0.4	
	10-10-10	2	9.6	10.5	10.2	2.9	2.0	1.4	
	ALL GRADES	35	% OF GUAR.			CV			
			101.1	101.8	99.7	3.2	3.1	2.1	
BLUEGRASS PLANT FOOD INC. Cynthiana, Ky.	0-20- 0	2	---	14.8	---	---	12.0	---	
	0-46- 0	2	---	46.1	---	---	0.6	---	
	5-10-15	4	6.6	10.4	15.5	51.7	46.1	33.3	
	5-20-20	2	5.2	13.4	19.8	5.4	55.6	4.7	
	6- 6-18	2	6.1	7.3	18.5	0.0	1.9	2.7	
	6-12-18	2	5.8	11.4	17.3	18.5	19.3	1.6	
	8-10-15	3	7.6	9.5	17.9	14.1	13.4	20.5	
	10-10-10	7	9.6	9.7	11.7	29.8	16.8	28.6	
	30- 0- 0	2	30.4	---	---	3.3	---	---	
	ALL GRADES	35	% OF GUAR.			CV			
			101.2	97.1	103.1	20.4	21.3	18.0	
	Danville, Ky.	0-20-20	4	---	18.5	19.3	---	9.6	12.6
		0-46- 0	3	---	46.6	---	---	2.1	---
		5-10-15	8	5.4	10.6	14.4	17.2	14.8	10.4
		5-20-20	21	5.5	16.3	18.0	17.3	28.9	18.4
6-12-12		6	6.1	11.4	12.4	6.0	11.1	8.2	
6-12-18		3	6.8	11.3	18.1	13.5	28.1	23.8	
10-10-10		12	9.0	9.2	11.8	19.6	10.5	36.6	
12-12-12		2	9.2	11.7	16.0	48.7	9.1	31.8	
ALL GRADES		61	% OF GUAR.			CV			
			100.0	90.5	98.1	18.4	16.0	20.1	
All Plants	ALL GRADES	96	100.4	92.8	99.8	19.2	18.2	19.2	
BURLEY BELT FERTILIZER CO. Lexington, Ky.	5-10-15	12	5.2	9.7	15.1	7.7	3.9	3.5	
	5-20-20	5	4.8	18.6	19.2	4.5	5.1	5.3	
	6-12-18	2	6.0	11.5	17.4	0.0	8.0	4.1	
	6-12-18MF	2	5.9	11.8	17.6	1.2	3.0	2.4	
	8-10-15	3	7.6	10.1	14.6	6.0	5.7	2.5	
	10-10-10	9	9.7	10.0	10.1	4.6	4.7	3.4	

Average Analysis and Coefficient of Variation of Samples Analyzed, July 1970 - June 1971

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 FERTILIZER CO. (Cont'd.) Lexington, Ky.	10-10-20	4	9.3	9.7	18.7	3.3	3.0	4.4	
	10-20-20	2	10.4	22.1	18.9	13.6	17.6	7.9	
	16- 8- 8	3	15.1	7.9	7.8	9.2	0.7	3.0	
	28-28- 0	4	26.4	27.3	---	2.8	3.2	---	
	ALL GRADES	62	% OF GUAR.			CV			
			99.1	99.2	99.5	5.4	5.0	4.0	
BURLEY BELT CHEMICAL CO. London, Ky.	0-20- 0	5	---	18.5	---	---	2.7	---	
	0-20-20	4	---	19.8	19.7	---	2.6	5.9	
	3- 9- 6	2	3.2	7.9	6.0	8.8	7.2	13.1	
	4-12- 8	2	3.9	11.8	7.7	5.5	6.0	12.0	
	5-10-10	4	5.0	9.4	9.1	6.2	1.9	3.6	
	5-10-15	13	5.0	9.6	14.9	4.0	2.6	2.5	
	5-20-20	8	4.9	18.6	19.1	3.8	5.4	6.6	
	6-12-12	6	5.8	11.3	11.3	6.8	3.4	6.6	
	6-12-18	4	5.7	11.6	17.4	1.4	2.3	3.8	
	8-10-15	2	7.6	10.1	14.8	8.4	3.5	4.8	
	10-10-10	12	9.4	10.1	10.0	4.5	4.9	4.3	
	12-12-12	5	11.4	12.4	11.7	2.9	1.1	3.9	
	15-15-15	4	14.7	15.7	14.6	3.4	6.8	4.0	
	ALL GRADES	75	% OF GUAR.			CV			
				96.4	96.7	97.5	4.8	3.8	5.4
	Ferguson, Ky.	5-20-20	3	5.0	18.6	19.1	4.1	1.1	4.5
		6-12-12	3	5.9	11.7	12.2	1.0	2.6	6.6
10-10-10		4	9.6	10.5	10.3	4.9	5.2	4.5	
ALL GRADES	17	% OF GUAR.			CV				
			97.8	97.9	98.3	3.4	3.1	5.2	
All Plants	ALL GRADES	92	% OF GUAR.			CV			
			96.4	96.9	97.6	4.3	3.5	5.3	
COMMONWEALTH FERT. CO. Russellville, Ky.	4-16- 4	3	4.0	16.6	5.5	8.9	4.2	4.8	
	5-10-15	3	5.0	10.8	15.0	2.0	3.0	1.2	
	5-20-20	9	5.5	20.7	18.9	5.7	7.1	9.7	
	5-20-20ME	2	5.3	21.5	17.3	4.0	0.7	0.8	
	6-12-12	4	6.3	12.4	13.4	22.0	6.4	22.2	
	6-24-24	2	7.6	26.6	21.2	23.4	13.1	18.7	
	10-10-10	7	9.0	10.9	11.8	4.1	6.8	13.4	
	18-46- 0	2	18.5	46.1	---	1.9	0.4	---	
	ALL GRADES	42	% OF GUAR.			CV			
			101.5	103.4	99.3	8.6	5.5	10.5	

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1970 - June 1971

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
FARMERS CHEM, ASS'N. Harrison, Tenn.	16-16-16	54	15.9	16.3	15.9	2.5	3.7	5.2
	30- 0- 0	2	31.6	---	---	5.4	---	---
	ALL GRADES	58	% OF GUAR.			CV		
			100.0	101.6	99.3	3.0	3.7	5.2
FEDERAL CHEMICAL CO. Humbolt, Tenn.	6-24-24	3	6.4	24.2	22.1	9.0	15.0	11.6
	ALL GRADES	8	% OF GUAR.			CV		
			109.0	106.4	94.6	9.0	15.0	11.6
Louisville, Ky.	0-20- 0	2	---	19.9	---	---	3.9	---
	0-25-25	9	---	20.1	21.9	---	15.1	20.7
	4-12- 8	2	6.0	15.0	14.2	7.1	1.9	8.5
	4-16- 4	3	4.5	15.5	6.0	10.9	3.9	21.1
	5-10-15	15	5.3	10.3	14.4	8.4	5.6	6.1
	5-20-20	21	5.2	19.2	18.7	5.6	8.0	7.0
	6-12-12	14	5.9	12.1	12.5	8.0	6.7	8.5
	6-24-24	5	6.0	24.1	22.7	9.6	4.3	8.0
	9-10-15	6	8.0	10.7	15.4	5.8	12.9	4.0
	10-10-10	23	9.6	11.0	10.9	7.4	14.2	11.3
	10-10-15	2	9.8	10.9	15.3	2.9	2.0	2.3
	10-10-15ME	7	9.7	10.6	15.8	6.0	3.9	4.0
	12-12-12	4	11.5	12.1	11.4	5.0	3.8	0.7
	15-15-15	2	14.2	14.6	14.8	0.1	1.5	5.3
	ALL GRADES	120	% OF GUAR.			CV		
			98.9	99.0	98.6	6.7	7.5	8.6
Nashville, Tenn.	5-10-15	6	5.5	10.1	14.6	6.0	4.3	3.4
	5-20-20	5	5.3	20.0	18.5	9.9	5.9	7.8
	6-12-12	7	5.9	12.1	11.8	4.3	3.0	4.7
	6-24-24	2	6.3	23.2	22.5	0.0	4.0	1.6
	10-10-10	4	10.2	10.6	10.6	3.2	4.3	8.5
	10-10-15	2	10.5	10.6	15.6	5.4	0.7	3.6
	15-15-15	2	14.6	15.0	15.1	3.4	5.2	6.1
		ALL GRADES	33	% OF GUAR.			CV	
			103.8	100.3	98.8	4.9	4.0	5.2
All Plants	ALL GRADES	161	100.5	99.6	98.5	6.5	7.6	8.0
FRASIER SUPPLY CO. Glasgow, Ky.	5-10-15	2	5.8	10.3	14.8	6.2	0.7	4.3
	5-20-20	2	5.3	20.3	20.2	2.7	0.3	2.1
	6-12-12	3	6.7	13.4	11.9	1.5	5.4	10.7
	10-10-10	5	9.9	10.0	10.1	6.4	14.2	11.3

Average Analysis and Coefficient of Variation of Samples Analyzed, July 1970 - June 1971

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
FRASIER SUPPLY CO. (Cont'd.) Glasgow, Ky.	ALL GRADES	16	% OF GUAR.			CV		
			106.9	106.7	97.0	4.3	6.3	7.8
GLASGOW FERTILIZER CO. Glasgow, Ky.	0-20-20	2	---	20.5	19.0	---	13.1	0.1
	5-10-15	3	5.7	10.5	15.7	18.5	4.7	4.6
	5-10-15ME	2	5.6	10.6	15.6	1.3	4.0	4.1
	5-20-20	7	6.3	19.9	20.0	17.9	15.9	19.2
	6-12-12	3	6.7	13.9	12.5	9.6	7.3	11.6
	8-26-26	3	8.4	25.8	25.5	7.5	10.0	10.4
	8-32-16	2	9.1	33.2	15.6	6.2	0.9	14.5
	10-10-10	4	11.2	12.3	11.2	6.1	10.9	16.5
	12-24-24	4	11.3	23.6	24.3	12.4	15.4	21.5
	15-15-15	2	14.9	15.1	14.6	6.2	7.1	4.8
	ALL GRADES	43	% OF GUAR.			CV		
		107.8	103.8	102.3	10.3	9.6	11.8	
R. GRACE & CO., GRI. CHEMICALS GROUP Hopkinsville, Ky.	5-15-25	9	4.8	14.4	25.3	9.3	3.2	4.5
	9-10-15	2	9.9	10.0	15.5	2.2	7.1	18.8
	9-27- 0	4	9.5	25.3	---	12.4	8.4	---
	ALL GRADES	16	% OF GUAR.			CV		
		103.1	97.1	97.0	8.7	5.7	9.1	
Memphis, Tenn.	0-20- 0	3	---	17.3	---	---	7.7	---
	0-20-20	2	---	19.9	20.1	---	3.9	1.8
	0-46- 0	2	---	45.7	---	---	2.0	---
	4-16- 4	2	4.2	16.2	4.9	1.7	1.3	2.9
	5-10-15	10	5.2	10.3	15.3	6.7	5.1	6.5
	5-20-20	10	5.0	19.9	20.1	7.5	4.0	4.9
	6-12-12	8	6.1	12.1	12.6	9.4	4.8	7.4
	6-12-18	4	6.3	12.5	18.5	6.6	5.5	2.3
	6-24-24	13	5.7	23.5	23.6	4.9	3.4	4.2
	10-10-10	4	10.0	10.7	11.1	2.7	3.3	8.8
	12-12-12	2	11.8	12.7	12.6	1.8	2.2	5.1
	15-15-15	7	14.7	15.2	15.2	3.7	2.1	3.4
	30- 0- 0	2	29.5	---	---	2.1	---	---
	82- 0- 0	2	82.1	---	---	0.0	---	---
	ALL GRADES	75	% OF GUAR.			CV		
		99.6	99.4	101.6	5.0	3.9	4.9	
Nashville, Tenn.	0-20-30	3	---	21.3	28.9	---	13.0	14.0
	3-10-30	2	3.4	9.8	28.6	10.6	3.6	0.7
	5-10-15	2	5.4	9.7	14.2	0.0	2.9	1.0

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1970 - June 1971

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., AGRI. CHEMICALS GROUP (Cont'd.) Nashville, Tenn.	5-20-20	3	5.0	19.4	19.3	4.0	3.2	3.1
	10-10-10	7	9.9	10.3	10.6	2.5	5.3	2.8
	ALL GRADES	22	% OF GUAR.			CV		
New Albany, Ind.	5-10-15	7	5.1	10.4	15.4	4.0	3.2	2.1
	5-20-20	7	5.3	20.2	20.2	6.7	5.5	6.6
	6-12-12	7	6.1	12.6	12.9	4.0	1.6	5.1
	6-24-24	2	6.1	23.9	24.0	7.0	0.9	0.6
	6-38-6	2	6.0	38.0	6.8	1.2	0.7	2.1
	10-10-10	8	10.3	11.1	11.3	3.0	6.3	7.7
	ALL GRADES	37	% OF GUAR.			CV		
All Plants	ALL GRADES	150	101.6	100.4	101.3	5.4	4.2	5.8
GRO-GREEN CHEM. CO. Shelbyville, Ky.	5-10-15	2	6.0	9.1	15.3	13.1	19.5	25.9
	5-20-20	3	5.3	16.8	21.1	20.4	11.4	18.0
	8-10-15	4	8.6	11.7	14.5	17.2	13.7	19.1
	8-12-15	3	7.9	10.5	14.5	16.0	46.4	31.9
	12-12-12	4	12.2	13.3	13.0	12.3	26.3	26.5
	ALL GRADES	25	% OF GUAR.			CV		
All Plants	ALL GRADES	40	100.9	98.5	110.1	7.7	11.6	11.5
GULF OIL CORP. AGRI. CHEMICAL DIVISION Cecilia, Ky.	5-10-15	2	5.3	10.6	15.4	1.4	4.0	2.8
	5-20-20	2	5.7	20.8	21.0	19.9	17.4	23.6
	15-15-15	2	15.1	15.9	14.9	0.9	0.9	3.8
	ALL GRADES	19	% OF GUAR.			CV		
	Henderson, Ky.	5-20-20	2	5.5	20.1	18.8	1.3	8.1
6-24-24		3	6.3	24.2	24.0	4.9	3.4	3.2
7-18-36		2	8.0	19.8	33.8	6.2	1.4	2.5
ALL GRADES		14	% OF GUAR.			CV		

Average Analysis and Coefficient of Variation of Samples Analyzed, July 1970- June 1971

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
GULF OIL CORP. AGRI. CHEMICAL DIVISION (Cont'd.) All Plants	ALL GRADES	58	% OF GUAR.			CV		
			106.5	107.1	97.9	6.9	7.7	9.3
KENTUCKY FERTILIZER WORKS Winchester, Ky.	5-10-15	4	4.8	10.2	15.3	6.1	4.9	3.1
	5-20-20	4	4.9	19.7	20.0	5.1	4.5	5.1
	6- 6-18	4	5.9	6.3	18.4	4.1	4.9	2.6
	8-10-15	2	7.6	10.0	15.5	1.0	0.7	3.2
	10-10-10	4	8.9	9.9	11.4	5.5	5.1	8.3
	12-12-12	3	11.2	12.0	11.7	2.1	3.6	7.0
	ALL GRADES	23	% OF GUAR.			CV		
			96.8	100.3	101.0	4.2	4.2	4.9
KERR-MCGEE FARM CENTER Pembroke, Ky.	6-24-24	2	6.6	24.2	24.6	15.0	21.6	18.2
	15-15-15	2	15.1	17.6	14.6	0.5	2.4	2.9
	ALL GRADES	12	% OF GUAR.			CV		
			106.0	109.8	100.0	7.7	12.0	10.5
MONSANTO AGRI- CULTURAL CENTER Slaughters, Ky.	5-20-30	2	4.6	19.0	31.0	15.4	12.7	11.4
	6-26-26	5	7.2	28.3	22.9	19.4	12.5	17.3
	ALL GRADES	12	% OF GUAR.			CV		
			101.1	105.3	95.5	17.8	12.6	15.0
NORTH AMERICAN FERTILIZER CO. Louisville, Ky.	4-16- 4	2	7.1	13.8	7.4	47.1	17.0	22.9
	5-10-15	5	6.2	10.5	14.1	20.9	8.7	13.4
	5-20-20	8	5.5	21.1	20.6	11.1	9.3	13.1
	6-12-12	2	5.9	14.4	13.8	7.2	6.4	11.8
	6-24-24	3	5.7	21.6	27.0	11.9	11.2	9.3
	10-10-10	7	10.3	11.4	9.7	8.1	33.6	15.7
	20-10-10	3	19.1	10.3	10.6	3.9	2.4	6.3
	ALL GRADES	35	% OF GUAR.			CV		
		104.7	102.4	104.1	14.5	13.7	13.2	
OHIO VALLEY FERTILIZER INC. Maysville, Ky.	5-10-10	3	7.3	9.0	12.7	21.3	21.5	13.5
	5-10-15	2	5.6	9.6	15.8	3.8	6.7	3.2

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1970 - June 1971

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
OHIO VALLEY FERTILIZER INC. (Cont'd.) Maysville, Ky.	6-6-18	3	8.9	9.6	16.7	31.5	37.1	10.9
	10-10-10	3	10.6	10.0	12.2	8.1	24.1	12.0
	10-10-20	2	11.7	12.0	17.2	18.1	23.1	26.0
	ALL GRADES	17	% OF GUAR.			CV		
			121.5	104.8	101.9	17.0	23.1	13.0
ROYSTER COMPANY Norfolk, Va.	0-46-0	2	---	46.1	---	---	0.0	---
	5-10-15	2	4.9	9.7	15.0	0.0	4.4	3.8
	5-10-15ME	28	5.1	9.9	14.9	7.7	4.4	5.0
	5-20-20	12	5.3	20.6	17.9	16.8	16.9	22.9
	6-12-12	4	6.2	12.5	12.0	13.6	13.2	3.6
	9-18-18	9	9.0	17.9	17.5	10.8	11.4	10.6
	10-10-10	18	9.9	10.4	10.7	9.9	15.5	23.6
	10-10-15	5	9.2	10.2	14.5	5.8	0.8	5.4
	12-12-12	3	11.0	11.4	13.6	10.5	21.0	15.9
	12-24-24	4	10.8	21.2	27.2	10.7	19.0	15.6
	ALL GRADES	105	% OF GUAR.			CV		
			98.9	100.0	99.8	10.0	10.9	12.6
	Utica, Ky.	3-10-30	3	3.1	10.1	31.6	1.9	4.9
6-18-18		2	5.8	18.6	18.4	2.4	0.0	1.5
ALL GRADES		8	% OF GUAR.			CV		
		98.7	101.2	104.8	2.1	2.7	2.3	
All Plants	ALL GRADES	113	98.9	100.1	100.0	8.2	9.2	10.6
SOUTHERN STATES COOPERATIVE INC. Louisville, Ky.	4-16-4	5	4.4	15.7	4.8	7.4	2.4	6.4
	5-10-15	4	5.3	10.5	15.8	7.3	3.7	3.6
	5-20-20	3	5.3	20.6	20.4	2.9	1.3	2.2
	8-10-15	5	8.4	10.3	15.1	1.2	2.9	2.7
	10-10-10	7	10.3	10.2	10.6	1.8	3.8	2.6
	14-14-14	2	14.8	14.6	14.6	0.5	9.2	4.4
	ALL GRADES	35	% OF GUAR.			CV		
			103.4	101.5	105.4	3.4	5.6	3.6
Russellville, Ky.	0-20-20	3	---	20.5	18.8	---	5.8	5.4
	4-12-8	2	4.6	11.7	9.4	9.2	3.6	17.4
	5-10-15	20	5.3	10.2	15.0	6.1	4.0	2.3
	5-15-5	2	5.2	15.7	5.6	2.7	0.4	3.8



Average Analysis and Coefficient of Variation of Samples Analyzed, July 1970 - June 1971

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 COOPERATIVE INC. Russellville, Ky. (Cont'd.)	5-20-20	26	5.3	20.3	19.7	4.2	5.4	6.7	
	6-12-12	15	6.3	12.1	11.7	5.3	3.3	7.2	
	6-12-18	7	6.4	12.2	17.7	5.6	3.4	3.9	
	6-24-24	5	6.4	24.5	23.7	1.9	6.1	6.6	
	10-10-10	18	10.0	10.1	10.3	4.4	4.8	5.0	
	ALL GRADES	100	% OF GUAR.			CV			
			104.3	101.3	99.3	4.9	4.3	5.8	
Winchester, Ky.	5-20-20	5	5.4	20.5	19.4	5.0	3.0	2.7	
	6-6-18	2	6.3	6.1	18.1	0.0	1.2	0.4	
	8-10-15	2	8.1	10.5	15.0	3.5	1.4	0.0	
	ALL GRADES	15	% OF GUAR.			CV			
			105.3	102.5	98.9	3.2	2.0	1.3	
All Plants	ALL GRADES	150	104.2	101.5	100.6	4.1	3.7	4.3	
STEWART FERTILIZER SERVICE Mt. Vernon, Ky.	5-10-15	3	5.4	9.3	15.0	14.7	15.6	19.1	
	5-20-20	2	6.8	22.5	15.9	22.9	16.7	15.6	
	10-10-10	2	10.4	11.1	10.7	1.4	8.3	7.9	
	ALL GRADES	9	% OF GUAR.			CV			
				110.0	103.0	95.4	13.1	13.7	14.6
SWIFT AGRICULTURAL CHEMICAL CORP. Chicago, Ill.	4-12-8	2	3.9	13.6	8.6	0.0	4.2	7.4	
	5-10-15	3	5.0	12.3	15.5	2.0	15.9	3.3	
	5-20-20	5	4.8	19.8	19.1	9.0	1.4	3.4	
	6-12-18	3	6.2	13.7	18.7	4.6	2.2	7.7	
	10-10-10	5	10.1	13.3	11.6	6.3	29.5	10.7	
	ALL GRADES	23	% OF GUAR.			CV			
				98.3	111.5	103.6	4.9	11.4	6.5
	Cincinnati, Ohio	0-25-25	5	---	21.9	23.8	---	8.3	8.5
		5-20-20	7	5.8	20.1	20.1	10.6	2.6	4.6
		6-24-24	2	6.3	23.2	22.5	2.3	3.4	7.9
10-10-10		2	9.4	10.5	10.5	6.0	8.8	2.7	
ALL GRADES		21	% OF GUAR.			CV			
			96.2	96.2	98.1	7.3	5.5	6.0	
Hopkinsville, Ky.	5-10-15	5	5.2	11.6	15.0	7.3	3.7	6.1	

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1970 - June 1971

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	
SWIFT AGRICULTURAL CHEMICAL CORP. Hopkinsville, Ky. (Cont'd.)	5-20-20	5	4.9	20.4	20.0	13.1	7.4	8.6	
	6-12-12	2	7.0	15.7	14.0	7.1	16.2	1.5	
	6-12-18	4	5.9	14.7	17.3	25.0	20.6	25.7	
	6-24-24	2	6.1	24.5	23.3	7.0	0.3	8.2	
	10-10-10	7	10.2	11.9	11.3	12.4	6.8	5.6	
	ALL GRADES	34	% OF GUAR.			CV			
			101.0	109.0	99.0	12.4	9.0	9.4	
All Plants	ALL GRADES	78	99.1	106.2	100.1	8.5	8.7	7.5	
USS AGRI-CHEMICALS INC. Atlanta, Ga.	0-20- 0	2	---	20.0	---	---	0.4	---	
	0-25-25	5	---	22.6	24.5	---	7.3	5.6	
	5-10- 5	3	5.6	10.6	7.4	7.5	6.3	16.6	
	5-10-15	12	5.2	10.1	15.0	7.7	3.6	3.7	
	5-20-20	2	5.3	12.2	19.2	4.0	0.4	4.1	
	6-12-12	4	6.2	12.0	12.5	7.1	2.9	2.5	
	6-12-18	11	6.1	12.5	17.4	8.8	5.6	5.3	
	6-24-24	3	5.8	23.9	23.1	2.7	2.9	4.4	
	7-28-28	10	7.3	28.1	27.5	5.4	2.3	2.8	
	8-16-16	3	7.8	16.7	16.1	4.6	6.8	11.3	
	8-24-24	2	7.3	21.9	22.1	5.8	3.2	21.1	
	10-10-10	14	9.9	10.6	10.7	4.7	5.0	15.5	
	10-10-20	4	9.4	10.4	20.1	4.9	9.7	8.5	
	12-12-12	3	10.9	12.2	13.4	11.0	5.0	6.0	
	14-14-14	2	14.0	14.9	14.4	1.0	1.4	4.9	
	15-40- 5	2	15.6	40.6	5.6	3.2	1.1	11.5	
	33- 0- 0	2	33.7	---	---	1.2	---	---	
		ALL GRADES	94	% OF GUAR.			CV		
				100.1	100.9	100.2	5.7	4.2	7.9
	Cherokee, Ala.	5-20-20	2	5.3	20.0	18.8	1.4	7.1	4.2
7-28-28		17	7.2	28.1	27.5	2.7	2.4	3.1	
ALL GRADES		25	% OF GUAR.			CV			
			101.3	100.6	98.4	2.4	3.6	3.4	
Cincinnati, Ohio	5-10-15	9	5.2	10.5	15.1	5.0	3.1	5.7	
	5-20-20	5	5.3	19.9	19.5	10.2	4.3	7.3	
	6-12-18	8	6.4	12.1	17.5	10.9	4.5	2.5	
	7-28-28	3	7.4	27.1	28.3	5.9	3.4	2.8	
	10-10-10	3	9.6	9.7	12.1	1.6	12.5	17.5	
	12-12-18	2	11.8	13.3	17.7	0.6	0.1	3.6	
	ALL GRADES	38	% OF GUAR.			CV			
			103.1	100.4	99.9	6.4	4.6	6.2	

Average Analysis and Coefficient of Variation of Samples Analyzed, July 1970 - June 1971

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. (Cont'd.) Jeffersonville, Ind.	5-10-15	12	5.3	10.5	15.1	8.9	4.1	5.0
	5-20-20	12	5.2	19.2	19.1	11.6	3.9	6.6
	6-12-18	10	5.9	11.8	18.2	9.7	6.6	5.0
	10-10-10	7	9.2	10.8	11.8	16.7	8.5	15.6
	12-12-12	5	10.9	12.5	12.8	2.9	3.6	5.3
	12-12-18	6	11.6	12.8	18.3	4.9	7.0	3.6
	ALL GRADES	56	% OF GUAR.			CV		
			97.9	101.5	101.9	9.4	5.5	6.8
Nashville, Tenn.	0- 0-60	2	---	---	59.9	---	---	0.2
	0-46- 0	2	---	46.0	---	---	0.1	---
	5-10- 5	2	5.0	10.9	7.3	19.8	0.7	30.2
	5-10-15	5	5.5	10.0	15.2	11.5	4.8	4.8
	5-20-20	2	5.2	18.3	17.8	5.4	2.7	4.8
	6-12-12	8	6.4	11.5	12.3	9.7	3.2	3.3
	6-12-18	7	6.2	12.4	17.2	1.6	7.4	4.5
	6-24-24	8	8.1	22.6	23.0	5.7	5.0	6.2
	10-10-10	7	10.2	9.9	10.0	5.7	5.2	5.0
	14-14-14	4	14.2	14.5	14.1	4.3	9.6	10.5
	ALL GRADES	56	% OF GUAR.			CV		
			102.7	98.2	99.5	7.4	4.7	6.9
All Plants	ALL GRADES	269	101.7	100.4	100.2	6.5	4.6	6.5
WARNER FERTILIZER CO. Somerset, Ky.	5-10-15	2	5.6	11.5	15.8	15.2	6.2	6.3
	5-20-20	6	4.6	21.1	18.6	40.9	8.8	9.5
	6-12-12	5	7.1	12.6	14.0	15.1	11.0	22.4
	10-10-10	3	10.2	11.3	11.3	8.2	16.4	3.6
	ALL GRADES	21	% OF GUAR.			CV		
			105.8	107.9	102.5	21.7	10.6	11.3

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)  
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	28601	5.9	18.4	6.2		101
6-18- 6M	29290	6.2	18.6	5.4*		102
AGRICO CHEMICAL COMPANY		MEMPHIS TENN				
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-62M	28503	0.0	0.0	61.6		99
0-20- 0	29353	0.0	21.8	0.0		109
0-25-25M	27915	0.0	25.1	24.1*		99
0-25-25M	29277	0.0	24.0*	25.3		98
0-46- 0	28505	0.0	45.4	0.0		99
4-16- 4S	28481	4.0	19.4	6.4	*	119
5-10-10M	28475	5.5	10.2	10.2		104
5-10-15S	27917	5.5	12.2	14.1*		110
5-10-15S	27948	5.1	10.2	14.9		101
5-10-15S	28107	5.4	10.1	15.1		103
5-10-15S	28422	5.2	10.7	15.0		104
5-10-15S	29401	5.1	10.6	15.2		104
5-20-20M	27916	5.0	19.8	19.5*		99
5-20-20M	28108	5.0	20.2	20.1		101
5-20-20M	28480	5.5	21.0	19.7		104
5-20-20M	28735	5.2	20.9	19.4*		102
5-20-20M	29276	5.1	20.3	19.5*		101
5-20-20M	28420	6.7	5.9	17.9		103
6- 6-18S	29236	6.4	6.1	18.1		103
6- 6-18S	27918	5.7	11.7	12.1		98
6-12-12M	28106	5.8	12.0	12.5		100
6-12-12M	27949	6.1	24.0	23.7		100
6-24-24M	29275	6.0	23.8	23.2*		99
6-24-24M	29275	6.0	23.8	23.9		98
6-24-24M	29525	5.9	23.3*	23.9		97*
6-24-24M	29544	5.8	23.4*	23.4*		97*
6-24-24M	28419	8.4	8.4	18.0		103
8- 8-18S	29237	7.5*	8.2	18.1		98
8- 8-18S	27772	9.4*	10.3	10.1		98
10-10-10M	29279	9.8	10.6	10.3		101
10-10-10M	28421	9.8	10.2	21.3	*	102
10-10-20S W/ME	27635	12.3	12.6	11.2*		102
12-12-12M	28482	12.3	12.0	12.1		101
12-12-12M	28418	14.6*	10.7	9.8		104
16- 8- 8M	28504	18.5	46.1	0.0		101
18-46- 0	28502	34.8	0.0	0.0		104
33- 0- 0	29118	82.2	0.0	0.0		100
82- 0- 0	29118	82.2	0.0	0.0		100
T.R. AKRIDGE & SON		FREDONIA KY				
GRADE	NUM	N	APA	POT	XS CL	RV
6-26-25M	29436	6.2	26.0	27.9		101
10-10-10M	29008	10.6	11.8	8.9*		107
10-10-10M	29435	9.8	10.5	10.2		101
15-20-20M	29009	16.0	22.2	18.0*		102
20-15-13M	29007	21.4	20.9	9.2*		107
22- 9-13M	28487	23.8	11.2	12.2*		106
A & L FARM SERVICE INC		LAWRENCEBURG KY				
GRADE	NUM	N	APA	POT	XS CL	RV
7-14-27M	29333	8.3	13.9*	28.5		102
11-12-18S	29332	11.9	12.8	18.8		102
12-12-18M	29393	13.5	10.6*	17.0*		99
20- 0-22M	28952	21.5	0.0	22.7		102

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

ALLENSVILLE CROP SERVICE		ALLENSVILLE		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-25-25M	28359	0.0	24.7	24.3*				98
4-24-12M	27644	5.0	23.9	15.5				108
6-12-18S	28856	8.6	18.3	16.8*				132
9-10-15S	29168	11.3	10.2	14.1*				105
11-15-20M	28358	15.3	15.5	14.0*				108
ALLIED CHEMICAL CORP.		HOPEWELL		VA.		XS	CL	RV
GRADE	NUM	N	APA	POT				
30- 0- 0	29515	29.6	0.0	0.0				99
32- 0- 0	27570	32.6	0.0	0.0				102
ALLIED CHEMICAL CORP.		IRONTON		OHIO		XS	CL	RV
GRADE	NUM	N	APA	POT				
28- 0- 0	27583	27.9	0.0	0.0				99
ALLIED CHEMICAL CORP.		SOUTH POINT		OHIO		XS	CL	RV
GRADE	NUM	N	APA	POT				
10-34- 0	28998	10.3	33.9	0.0				100
AMERICAN CYANAMID CO.		PRINCETON		N.J.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-46- 0	29286	0.0	44.6*	0.0				97*
ANDERSONS FERTILIZER DIV		MAUMEE		OHIO		XS	CL	RV
GRADE	NUM	N	APA	POT				
5-20-20M	28543	6.4	23.1	18.0*				111
12-12-12M	28542	13.3	14.6	10.4*				110
ARCO CHEMICAL CO		FT. MADISON		IOWA		XS	CL	RV
GRADE	NUM	N	APA	POT				
5-20-20M	28355	8.9	29.8	19.4*				141
5-20-20M	28602	8.9	30.3	19.9				143
5-20-35M	28253	6.6	21.2	35.0				108
6-24-24M	27668	8.8	29.0	21.5*				117
6-24-24M	27952	7.1	25.0	24.7				107
6-24-24M	27953	6.4	25.4	24.0				105
6-24-24M	27978	6.9	24.9	25.0				106
6-24-24M	28360	7.8	25.0	24.9				109
ARKLA CHEMICAL CORP.		LITTLE ROCK		ARK.		XS	CL	RV
GRADE	NUM	N	APA	POT				
5-30-30M	28842	6.3	28.1*	29.9				100
6-24-24M	27980	7.2	25.4	22.7*				106
6-24-24M	29477	6.5	23.2*	24.2				100
33- 0- 0	27871	33.9	0.0	0.0				101
33- 0- 0	28230	33.6	0.0	0.0				100
ASKEW FARM SERVICE		HOPKINSVILLE		KY		XS	CL	RV
GRADE	NUM	N	APA	POT				
12-10-10M	28845	10.5*	10.8	10.8				95*
13-13-13M	28562	15.1	13.1*	14.9				105
E M BAILEY DISTRIBUTING CO.		PADUCAH		KY		XS	CL	RV
GRADE	NUM	N	APA	POT				
20- 4-12M	28996	19.5*	2.9*	10.8*				94*
BALLARD COUNTY COOP		LA CENTER		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
3-10-30M	27691	7.0	19.6	12.1*				117
10-15-20M	28592	13.1	15.3	16.4*				106
17-10-10M	28591	18.3	10.9	11.6				104
BIG FOUR FEED & IMPLEMENT CO		SCOTTSVILLE		KY		XS	CL	RV
GRADE	NUM	N	APA	POT				
10-10-10M	28805	11.5	11.5	12.5				117
17-17-17M	28922	17.1	17.5	17.3				101
18-17-17M	28804	18.4	16.7*	17.2				99

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)  
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BLUEGRASS PLANT FOODS, INC.		CYNTHIANA		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-15-40M	28670	0.0	17.7	31.5*			95*
0-20- 0	29189	0.0	16.0*	0.0			80*
0-20- 0	29513	0.0	13.5*	8.0			87*
0-20-20M	29255	0.0	21.3	17.6*			100
0-46- 0	29014	0.0	46.3	0.0			101
0-46- 0	29089	0.0	45.9	0.0			100
4- 5-14S	29287	3.9*	7.3	17.1	*		114
4-16- 4S	28045	4.2	14.3*	4.3			94*
5-10-15S	28226	5.5	7.9*	15.8	*		96*
5-10-15S	28689	5.1	10.0	15.1			101
5-10-15S	29200	4.1*	6.4*	21.8			94*
5-10-15S	29206	11.6	17.2	9.2*			157
5-20-20M	27671	5.4	18.6*	20.4			98
5-20-20M	29207	5.0	8.1*	19.1*			67*
6- 6-18S	29092	6.1	7.2	18.8	*		107
6- 6-18S	29203	6.1	7.4	18.1	*		107
6-12-12M	28044	8.3	10.6*	11.6*			107
6-12-18S	28673	5.0*	12.9	17.1*			96*
6-12-18S	29204	6.5	9.8*	17.5*	*		94*
8-10-15S	28667	7.0*	10.9	16.3	*		101
8-10-15S	28668	6.9*	8.4*	22.1	*		101
8-10-15S	29090	8.8	9.2*	15.3	*		102
8-10-15S	29090	8.8	9.2*	15.3	*		102
10- 5-16S	29438	7.9*	9.9	14.0*	*		100
10-10-10M	28046	10.0	9.6*	9.8			98
10-10-10M	28674	10.3	9.8	12.0			104
10-10-10M	28675	5.6*	10.7	11.2			82*
10-10-10M	28688	9.6*	10.1	12.0			101
10-10-10M	29091	12.3	11.7	18.7			132
10-10-10M	29201	13.3	9.9	9.3*			114
10-10-10M	29205	6.2*	6.4*	8.8*			67*
12-12-12M	28672	12.5	14.9	10.2*			107
15- 0-40M	28671	12.2*	0.0	36.9*			86*
16- 5-19S	29208	18.0	5.5	18.7*			105
30- 0- 0	28666	31.1	0.0	0.0			104
30- 0- 0	29288	29.7	0.0	0.0			99
BLUEGRASS PLANT FOODS, INC.		DANVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	27634	0.0	16.8*	19.7			89*
0-20-20M	28146	0.0	17.6*	19.9			92*
0-20-20M	29057	0.0	18.6*	21.7			98
0-20-20M	29346	0.0	20.9	15.9*			96*
0-46- 0	29056	0.0	45.5	0.0			99
0-46- 0	29376	0.0	47.4	0.0			103
0-46- 0	29377	0.0	46.8	0.0			102
0-46- 0	29377	0.0	46.8	0.0			102
4-16- 4S	28147	4.4	13.4*	5.3			94*
5-10-15S	28145	5.3	8.7*	14.9			96*
5-10-15S	28623	5.0	10.2	15.5			102
5-10-15S	28646	5.5	11.6	15.2	*		109
5-10-15S	28709	5.1	9.9	15.3			100
5-10-15S	29180	4.9	10.5	13.5*			98
5-10-15S	29347	5.1	9.3*	14.9			98
5-10-15S	29424	7.7	13.8	11.0*			123
5-10-15S	29460	4.9	10.5	14.9			101
5-20-20M	27751	6.8	18.7*	19.6*			103
5-20-20M	27888	5.6	19.2*	19.9			100
5-20-20M	28144	5.9	14.3*	20.9			89*
5-20-20M	28227	8.3	10.7*	15.4*			82*

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)

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

BLUEGRASS PLANT FOODS, INC.		DANVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-20-20M	28240	5.2	9.6*	15.7*		67*	
5-20-20M	28297	6.8	10.9*	12.5*		73*	
5-20-20M	28298	6.7	12.2*	16.7*		81*	
5-20-20M	28509	5.4	19.5*	20.0		100	
5-20-20M	28512	5.7	9.9*	10.1*		63*	
5-20-20M	28513	5.8	10.8*	14.0*		71*	
5-20-20M	28621	5.1	19.5*	19.9		99	
5-20-20M	28622	5.0	19.3*	19.9		98	
5-20-20M	28645	5.0	19.3*	19.9		98	
5-20-20M	28692	5.4	19.0*	19.9		99	
5-20-20M	28695	4.7	19.0*	20.0		96*	
5-20-20M	28967	4.2*	24.8	16.7*		105	
5-20-20M	28988	5.0	8.2*	13.0*		59*	
5-20-20M	29074	5.0	19.5*	20.4		99	
5-20-20M	29105	4.6*	18.7*	21.8		97*	
5-20-20M	29108	4.9	20.9	20.2		103	
5-20-20M	29524	4.8	18.7*	20.5		96*	
6-12-12M	27633	5.8	12.0	12.8		100	
6-12-12M	28248	6.3	9.4*	14.0		95*	
6-12-12M	28511	6.0	11.4*	12.3		98	
6-12-12M	28955	5.9	12.7	11.4*		101	
6-12-12M	28966	6.8	10.5*	11.2*		97*	
6-12-12M	29350	6.0	12.5	12.5		103	
6-12-18S	28647	5.8	9.1*	18.1	*	89*	
6-12-18S	29080	7.0	9.8*	22.4	*	105	
6-12-18S	29423	7.6	14.9	13.8*		110	
8-10-15S	28956	7.8	10.6	14.9	*	101	
10-10-10M	27889	9.6*	9.6*	11.5		99	
10-10-10M	28148	9.5*	9.3*	9.4*		94*	
10-10-10M	28228	9.4*	8.9*	10.4		94*	
10-10-10M	28644	9.7*	10.0	11.8		101	
10-10-10M	28696	9.8	9.8	10.6		99	
10-10-10M	28965	10.7	8.7*	6.5*		93*	
10-10-10M	28987	11.1	11.2	10.0		109	
10-10-10M	29079	6.4*	9.0*	16.3		89*	
10-10-10M	29106	5.0*	7.2*	22.8		87*	
10-10-10M	29107	9.2*	8.7*	14.7		100	
10-10-10M	29179	9.7*	9.8	8.8*		95*	
10-10-10M	29422	7.7*	8.7*	9.2*		82*	
12-12-12M	28510	12.3	10.9*	12.4		99	
12-12-12M	29058	6.0*	12.4	19.6		86*	
BURKHARTS FEED MILL		AUBURN		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
10-10-10M	28345	11.0	10.7	9.2*		106	
19-14-5M	28933	19.3*	16.1	5.1		101	
BURLEY BELT FERTILIZER CO.		LEXINGTON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-0-60M	27763	0.0	0.0	59.8		100	
0-20-0	29016	0.0	20.1	0.0		100	
0-20-20M	29548	0.0	19.6	20.1		99	
0-46-0	29015	0.0	46.3	0.0		101	
0-46-0M	27762	0.0	46.2	0.0		101	
3-9-6M	27605	3.6	9.0	7.3		109	
4-12-8M	28104	4.0	11.1*	7.9		95*	
5-5-17M	29191	7.2	7.1	15.8*		108	
5-10-5M	28013	6.7	10.4	8.8		124	
5-10-15S	27604	4.9	9.7	15.0		98	

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

BURLEY BELT FERTILIZER CO.		LEXINGTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	28105	4.9	9.7	15.1			98
5-10-15S	28132	5.2	9.8	15.2			101
5-10-15S	28223	5.0	9.4*	15.6			99
5-10-15S	28225	5.5	9.6*	15.5			102
5-10-15S	28334	5.1	9.0*	15.0			97*
5-10-15S	28362	5.0	9.6*	15.4			99
5-10-15S	28548	5.0	9.9	15.0			100
5-10-15S	28686	6.3	10.0	14.6*	*		107
5-10-15S	29192	4.9	10.6	13.7*			99
5-10-15S	29195	5.2	9.7	14.9			100
5-10-15S	29223	5.4	9.6*	15.6			102
5-20-20M	27614	4.6*	19.9	20.0			98
5-20-20M	28103	4.5*	17.9*	20.4			93*
5-20-20M	28549	4.9	17.7*	17.8*			91*
5-20-20M	28685	4.9	19.3*	18.8*			96*
5-20-20M	29059	5.0	18.3*	19.2*			94*
6- 6-18S	29209	6.0	6.5	18.3			103
6-12-18S	28135	6.0	12.1	16.9*			98
6-12-18S	29549	6.0	10.8*	17.9			96*
6-12-18S W/ME	28214	5.9	12.0	17.3*			98
6-12-18S W/ME	28664	5.8	11.5*	17.9			97*
8-10-15S	28224	7.1*	10.7	14.3*			96*
8-10-15S	28665	7.7	9.6*	15.0			97*
8-10-15S	29196	8.0	9.9	14.5*			98
10-10-10M	27664	9.5*	10.6	10.0			99
10-10-10M	27728	9.9	10.3	9.6*			100
10-10-10M	28131	9.5*	9.6*	10.4			97*
10-10-10M	28217	9.2*	10.2	10.0			97*
10-10-10M	28221	9.8	9.5*	10.2			98
10-10-10M	28717	9.8	9.7	10.8			99
10-10-10M	29067	9.1*	9.7*	10.0			94*
10-10-10M	29198	10.6	10.8	9.9			106
10-10-10M	29238	9.6*	9.8	10.3			98
10-10-13M	28663	9.0*	8.6*	24.3			102
10-10-20S	28388	9.3*	9.5*	18.2*			93*
10-10-20S	28687	8.9*	9.5*	18.1*	*		91*
10-10-20S	29060	9.5*	10.1	18.6*	*		96*
10-10-20S	29190	9.6*	9.8	19.9			98
10-10-30M	29199	11.0	11.6	26.3*			103
10-20-20M	27619	9.4*	19.3*	19.9			96*
10-20-20M	29197	11.4	24.8	17.8*			113
12-12-12M	29193	11.6*	11.7	12.4			98
15- 8- 8S	29194	21.8	11.8	5.2*			130
15-15-15M	28222	13.8*	14.0*	14.8			94*
16- 8- 8M	28237	16.0	8.0	7.5*			99
16- 8- 8M	28607	15.8	7.9	7.9			98
16- 8- 8M	28705	13.5*	7.9	7.9			89*
28-28- 0	27618	26.7*	26.7*	0.0			95*
28-28- 0	27661	26.2*	27.1*	0.0			95*
28-28- 0	27662	27.2*	26.9*	0.0			97*
28-28- 0	27663	25.5*	28.6	0.0			95*
33- 0- 0	27761	32.7*	0.0	0.0			98
BURLEY BELT CHEMICAL CO.		LONDON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20- 0	27632	0.0	18.8*	0.0			94*
0-20- 0	28004	0.0	18.8*	0.0			94*
0-20- 0	28406	0.0	17.6*	0.0			88*



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971 )**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

BURLEY BELT CHEMICAL CO.		LONDON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20- 0	28627	0.0	18.6*	0.0			93*
0-20- 0	29264	0.0	18.6*	0.0			93*
0-20-20M	27924	0.0	20.0	19.6*			99
0-20-20M	28291	0.0	20.3	18.1*			98
0-20-20M	28697	0.0	19.6*	20.5			99
0-20-20M	29100	0.0	19.1*	20.6			98
0-20-20M	29527	0.0	20.1	1.1*			69*
3- 9- 6M	28316	3.4	8.3*	5.4*			97*
3- 9- 6M	29253	3.0	7.5*	6.5			92*
4-12- 8M	28005	3.7	12.3	7.0*			97*
4-12- 8M	29389	4.0	11.3*	8.3			98
4-16- 4S	28003	4.8	14.2*	6.2			102
5-10-10M	28317	4.7	9.3*	9.0*			93*
5-10-10M	28407	4.8	9.3*	9.1*			94*
5-10-10M	28472	5.0	9.6*	9.5*			97*
5-10-10M	29390	5.4	9.2*	8.7*			96*
5-10-15S	28000	5.2	9.7*	13.9*			98
5-10-15S	28010	4.8	9.5*	15.4			97*
5-10-15S	28034	4.8	9.2*	15.1			96*
5-10-15S	28114	4.6*	9.1*	14.6*			93*
5-10-15S	28245	5.3	9.6*	14.9			100
5-10-15S	28408	5.2	9.3*	15.3			99
5-10-15S	29093	4.9	9.9	14.9			99
5-10-15S	29254	5.1	9.8	14.9			100
5-10-15S	29378	5.1	9.8	14.9			99
5-10-15S	29383	5.1	9.7	14.9			99
5-10-15S	29384	5.0	9.6*	15.2			99
5-10-15S	29391	5.0	9.6*	15.0			99
5-10-15S	29483	4.8	9.8	14.9			98
5-20-20M	28006	4.6*	19.1*	19.9			96*
5-20-20M	28033	4.7*	18.9*	19.9			96*
5-20-20M	28244	5.1	18.8*	17.5*			94*
5-20-20M	28292	5.0	19.0*	19.1*			96*
5-20-20M	29096	4.7	18.0*	20.9			95*
5-20-20M	29340	5.0	16.4*	17.7*			87*
5-20-20M	29341	4.9	19.7	17.9*			96*
5-20-20M	29348	5.0	18.6*	20.0			96*
6-12-12M	27925	5.6*	10.7*	10.8*			91*
6-12-12M	28008	5.7	11.2*	11.9			95*
6-12-12M	28247	5.7	11.3*	10.2*			92*
6-12-12M	28470	6.6	11.9	12.2			103
6-12-12M	29073	5.5*	11.2*	11.4*			93*
6-12-12M	29379	5.9	11.4*	11.0*			95*
6-12-18S W/ME	28012	5.6*	11.7	16.5*	*		94*
6-12-18S W/ME	28117	5.7	11.2*	17.3*			95*
6-12-18S W/ME	28521	5.8	11.8	17.9			98
6-12-18S W/ME	29099	5.7*	11.6*	17.9			97*
8-10-15S	29097	7.1*	10.3	14.3*	*		95*
8-10-15S	29386	8.0	9.8	15.3			100
10-10-10M	27999	9.2*	9.3*	10.3			94*
10-10-10M	28009	9.3*	9.8	10.2			96*
10-10-10M	28032	9.3*	10.4	10.0			97*
10-10-10M	28115	9.2*	10.5	10.4			98
10-10-10M	28315	8.2*	9.2*	9.6*			87*
10-10-10M	28684	9.5*	9.9	9.4*			96*
10-10-10M	29094	9.4*	9.9	10.3			97*
10-10-10M	29380	9.4*	10.9	9.3*			98

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

BURLEY BELT CHEMICAL CO.		LONDON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10M	29387	9.9	10.4	10.6			102
10-10-10M	29392	9.8	9.9	10.1			99
10-10-10M	29443	9.6*	10.1	10.0			98
10-10-10M	29550	9.5*	10.4	9.5*			98
10-10-20S	29098	9.1*	10.4	18.6*	*		95*
12-12-12M	28011	11.7	12.3	11.1*			98
12-12-12M	28471	11.3*	12.3	11.3*			97*
12-12-12M	29095	11.1*	12.5	11.9			97*
12-12-12M	29324	11.8	12.5	12.1			100
12-12-12M	29385	11.1*	12.2	12.0			97*
15-15-15M	28007	14.7	15.4	15.1			100
15-15-15M	28246	14.0*	14.3*	14.9			95*
15-15-15M	28522	15.2	16.7	13.8*			103
15-15-15M	28523	14.7	16.3	14.4*			101
16- 8- 8M	28515	14.9*	8.8	8.1			98
BURLEY BELT CHEMICAL CO		FERGUSON		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20- 0	27470	0.0	19.6	0.0			98
0-20-20M	29450	0.0	18.4*	18.6*			92*
0-46- 0	27469	0.0	46.2	0.0			101
5-10-15S	28065	4.9	9.8	15.5			100
5-20-20M	29072	4.8	18.8*	18.2*			93*
5-20-20M	29265	5.2	18.4*	19.9			97*
5-20-20M	29269	5.1	18.7*	19.2*			96*
5-20-20S	28195	5.3	19.8	18.5*			98
6-12-12M	27726	5.8	11.7	12.9			99
6-12-12M	28063	5.9	12.0	12.3			100
6-12-12M	29451	5.9	11.4*	11.3*			96*
6-12-18S W/ME	28516	6.1	11.6*	17.5*			98
10-10-10M	28064	9.4*	10.9	10.5			101
10-10-10M	28090	9.9	10.2	9.9			100
10-10-10M	28971	10.0	9.8	10.0			99
10-10-10M	28986	9.0*	10.9	10.9			99
15-15-15M	28524	14.4*	15.0	15.0			98
CAMPBELLSVILLE CROP SERVICE		CAMPBELLSVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-18S	28720	6.0	11.6*	18.9	*		100
7-27-10M	28444	7.7	9.4*	10.1			59*
17-17-17M	28719	17.1*	14.7*	21.5			97*
17-24-24M	28718	10.9*	20.1*	29.2			83*
CAYCE LIME & FERTILIZER		FULTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
7-18-36M	28841	7.1	18.4	37.3			101
CF INDUSTRIES INC		CHICAGO		ILL.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-46- 0	27778	0.0	46.3	0.0			101
0-46- 0	29069	0.0	46.3	0.0			101
CHEVRON CHEMICAL COMPANY		FORT MADISON		IOWA		XS CL	RV
GRADE	NUM	N	APA	POT			
0-46- 0	29019	0.0	46.4	0.0			101
10-20-20M	29456	9.9	19.4*	20.2			99
16-16-16M	29397	16.3	16.3	16.0			102
20-10-10M	29020	20.2	10.3	9.9			101
CHEVRON CHEMICAL CO-ORTHO DIV		RICHMOND		CAL.		XS CL	RV
GRADE	NUM	N	APA	POT			
10-20-20M	27734	11.3	19.9	19.0*			103
16-16-16M	27979	16.0	16.3	16.1			101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

CHEVRON CHEMICAL CO-ORTHO DIV		RICHMOND		CAL.		XS	CL	RV
GRADE	NUM	N	APA	POT				
16-16-16M	28234	16.4	16.2	14.7*				100
16-16-16M	28768	16.3	16.8	15.1*				102
20-10-10M	29502	19.6	10.5	10.4				100
CHILEAN NITRATE SALES CORP.		NEW YORK		N.Y.		XS	CL	RV
GRADE	NUM	N	APA	POT				
15- 0-14NIT	27563	15.3	0.0	14.2				101
15- 0-14NIT	29431	14.8	0.0	14.1				99
16- 0- 0	29482	15.5*	0.0	0.0				97*
CHRISTIAN COUNTY SUPPLY CO.		HOPKINSVILLE KY.				XS	CL	RV
GRADE	NUM	N	APA	POT				
5-20-20M	28563	8.4	29.1	15.2*				131
9-23-30M	28564	5.6*	13.6*	40.7				82*
15-11-16M	28565	15.7	15.2	13.0*				107
CLINE FERTILIZER COMPANY		EWING		VA.2		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-20-20M	28320	0.0	16.3*	20.8				89*
5-10-10M	28319	5.7	10.0	11.6				108
5-10-10M	29521	6.8	13.3	13.5				134
6-12-12M	28318	7.4	14.2	13.7				119
6-12-12M	29520	7.1	15.2	12.6				119
COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE KY.				XS	CL	RV
GRADE	NUM	N	APA	POT				
0-20-20M	28930	0.0	17.7*	18.9*				90*
0-46- 0	27530	0.0	44.8*	0.0				97*
4-16- 4S	28083	3.6*	15.9	5.2				99
4-16- 4S	28135	4.0	16.7	5.6	*			106
4-16- 4S	28182	4.3	17.3	5.7	*			111
5-10-15S	29126	4.9	11.2	14.9	*			104
5-10-15S	29418	5.1	10.7	14.9	*			103
5-10-15S	29499	5.0	10.6	15.2				103
5-20-20M	27667	5.1	18.1*	21.6				97*
5-20-20M	28269	5.9	21.3	18.8*				105
5-20-20M	28491	5.6	22.2	17.2*				104
5-20-20M	28597	5.5	21.1	17.5*				101
5-20-20M	28800	5.6	22.1	17.8*				105
5-20-20M	28931	5.1	19.6	21.3				101
5-20-20M	29125	5.9	22.2	17.0*				105
5-20-20M	29419	5.2	19.2*	20.9				100
5-20-20M	29497	5.3	20.4	18.3*				100
5-20-20M W/ME	28490	5.4	21.6	17.2*				102
5-20-20M W/ME	29173	5.1	21.4	17.4*				101
6-12-12M	27791	5.7*	13.2	10.8*				100
6-12-12M	28270	6.2	11.3*	16.4				106
6-12-12M	29127	8.3	12.5	10.9*				113
6-12-12M	29420	8.4	17.6	11.2*				132
6-12-12M	29498	5.1*	12.5	15.5				103
6-12-18S	29169	6.5	10.5*	19.4	*			99
6-12-18S W/ME	28924	6.5	13.6	16.0*	*			104
6-18-12M	27770	5.9	16.4*	12.8				96*
6-21-18M W/ME	29511	6.4	22.5	13.5*				99
6-24-24M	28598	8.8	29.0	18.4*				114
6-24-24M	28599	6.3	24.1	24.0				101
6-24-24M W/ME	27780	6.1	25.8	23.5*				104
7-21-10S	28445	7.2	19.9*	9.1*				96*
8-12-15S	29294	7.5*	13.3	14.9	*			101
8-12-15S W/ME	29220	7.8	12.6	15.6	*			102
10-10-10M	27648	8.7*	9.6*	13.7				98

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cent or less indicated by asterisk.

COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
10-10-10M	27717	5.7*	20.3	17.6		125
10-10-10M	27718	8.8*	11.8	12.8		105
10-10-10M	27792	8.5*	11.7	11.9		101
10-10-10M	28180	9.5*	10.8	11.8		103
10-10-10M	28271	9.3*	10.6	12.2		102
10-10-10M	28493	9.2*	10.9	11.9		102
10-10-10M	28932	9.3*	10.7	8.6*		96*
18-46-0	28347	18.7	46.2	0.0		102
18-46-0	28600	18.2	45.9	0.0		100
CRAFTON & DUNCAN INC		HENDERSON KY			XS CL	RV
GRADE	NUM	N	APA	POT		
4-12-20M	29469	3.6*	10.9*	21.0		96*
4-12-20M	29470	2.8*	10.9*	21.3		92*
ELKTON CROP SERVICE		GUTHRIE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
5-20-20M	28854	6.0	23.2	17.8*		110
6-26-26M	28853	7.0	29.9	21.0*		106
6-26-26M	28855	7.0	30.1	21.0*		106
10-10-10M	29172	7.6*	7.2*	10.0		78*
17-17-17M	28492	16.7	17.6	17.9		101
FARMERS CHEMICAL ASSOC., INC.		HARRISON TENN			XS CL	RV
GRADE	NUM	N	APA	POT		
0-0-60M	27759	0.0	0.0	60.2		100
16-16-16M	27617	15.8	16.3	15.2*		99
16-16-16M	27627	16.6	16.6	14.9*		102
16-16-16M	27637	15.8	14.6*	16.7		97*
16-16-16M	27641	15.9	17.7	14.9*		102
16-16-16M	27670	16.0	15.6	16.3		99
16-16-16M	27678	15.8	15.9	16.3		99
16-16-16M	27748	15.4*	15.9	17.2		99
16-16-16M	27779	15.7	16.5	16.2		100
16-16-16M	27787	15.8	16.3	16.5		101
16-16-16M	27788	15.5*	15.7	17.4		99
16-16-16M	27790	16.1	17.0	15.4*		102
16-16-16M	27807	16.7	16.5	14.9*		102
16-16-16M	27809	16.0	15.9	16.6		100
16-16-16M	27822	15.8	16.4	15.9		100
16-16-16M	27835	15.1*	15.7	17.0		97*
16-16-16M	27843	15.8	16.1	16.0		99
16-16-16M	27844	16.0	17.3	14.5*		101
16-16-16M	27854	16.2	15.7	16.0		100
16-16-16M	27856	16.2	16.8	15.5*		102
16-16-16M	27858	15.8	16.5	15.9		100
16-16-16M	27859	16.2	17.7	14.8*		103
16-16-16M	27860	16.0	16.0	16.2		100
16-16-16M	27866	16.2	16.1	15.0*		100
16-16-16M	27868	15.9	15.0*	16.9		98
16-16-16M	27869	15.7	16.5	16.2		100
16-16-16M	27870	15.5*	16.2	17.4		100
16-16-16M	27873	16.3	15.9	15.9		101
16-16-16M	27878	16.0	16.0	16.2		100
16-16-16M	27881	16.1	17.0	15.7		102
16-16-16M	27890	15.7	16.9	16.3		101
16-16-16M	27895	16.0	16.4	14.8*		100
16-16-16M	27901	16.2	16.0	15.3*		100
16-16-16M	27905	16.0	16.4	15.9		101
16-16-16M	27911	15.9	16.6	15.9		101

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

FARMERS CHEMICAL ASSOC., INC.		HARRISON		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
16-16-16M	27920	15.8	15.8	16.1			99
16-16-16M	27922	14.8*	15.9	15.4*			95*
16-16-16M	27923	16.0	16.8	15.5*			101
16-16-16M	27927	15.8	16.0	16.4			100
16-16-16M	27956	15.8	16.3	15.3*			99
16-16-16M	27976	15.3*	16.8	14.5*			98
16-16-16M	28017	16.3	16.5	15.0*			101
16-16-16M	28020	16.0	16.3	15.3*			100
16-16-16M	28030	15.8	15.9	16.0			99
16-16-16M	28048	15.6*	16.3	16.2			99
16-16-16M	28141	16.0	16.2	15.4*			100
16-16-16M	28229	16.0	17.0	14.8*			101
16-16-16M	28251	16.4	15.9	15.9			101
16-16-16M	28261	15.9	16.0	15.9			99
16-16-16M	28746	16.0	16.6	14.8*			100
16-16-16M	28829	16.8	16.3	15.9			103
16-16-16M	28975	17.0	15.9	15.9			103
16-16-16M	29023	15.1*	17.4	18.9			103
16-16-16M	29331	15.4*	15.4*	16.3			97*
16-16-16M	29489	16.4	15.2*	16.3			100
30- 0- 0	28047	32.8	0.0	0.0			109
30- 0- 0	29120	30.4	0.0	0.0			101
34- 0- 0	27789	34.4	0.0	0.0			100
FARMERS FERTILIZER COMPANY		SMITHS GROVE KY.				XS CL	RV
GRADE	NUM	N	APA	POT			
5-23-23M	28590	5.4	25.0	19.5*			102
15-15-15M	28904	16.2	16.6	11.6*			104
FARMERS GIN COMPANY		CLINTON KY.				XS CL	RV
GRADE	NUM	N	APA	POT			
9-23-30M	28755	9.1	23.4	31.0			102
12-18-18S	28754	11.7	16.2*	19.5			97*
FARMLAND INDUSTRIES INC.		KANSAS CITY MO.				XS CL	RV
GRADE	NUM	N	APA	POT			
6-24-24M	28250	6.8	24.6	23.9			104
6-24-24M	28356	6.5	24.2	22.9*			101
6-24-24M	28567	7.3	25.8	21.2*			105
FEDERAL CHEMICAL COMPANY		HUMBOLDT		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
3- 9-27M	29134	5.2	11.8	24.3*			117
5-10-15S	28836	8.0	11.8	14.9	*		125
6-24-24M	28834	6.1	26.5	20.4*			102
6-24-24M	29133	7.1	20.0*	25.0			96*
6-24-24M	29503	6.1	26.0	20.8*			101
10-10-10M	28837	7.1*	12.5	12.5			98
10-10-15S W/ME	29135	10.2	10.7	15.6			104
15-15-15M	28835	16.7	14.8	12.2*			102
FEDERAL CHEMICAL COMPANY		LOUISVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20- 0	29167	0.0	20.4	0.0			102
0-20- 0	29217	0.0	19.3*	0.0			97*
0-20-20M	28782	0.0	20.9	19.9			103
0-25-25M	27610	0.0	21.1*	28.6			94*
0-25-25M	27727	0.0	17.3*	19.4*			72*
0-25-25M	27773	0.0	18.9*	16.3*			72*
0-25-25M	27774	0.0	15.0*	14.2*			59*
0-25-25M	28415	0.0	24.1*	22.3*			94*
0-25-25M	28458	0.0	18.7*	23.9*			82*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

FEDERAL CHEMICAL COMPANY		LOUISVILLE			KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25M	28983	0.0	21.7*	23.0*			89*
0-25-25M	29213	0.0	24.2*	23.8*			96*
0-25-25M	29395	0.0	19.6*	25.5			86*
0-46- 0	29043	0.0	46.3	0.0			101
4-12- 8M	27700	5.7	15.2	13.3			138
4-12- 8M	29141	6.3	14.8	15.0			144
4-16- 4S	27935	1.4*	13.3*	6.1			77*
4-16- 4S	28062	4.3	15.1*	5.8			101
4-16- 4S	28127	4.2	15.2*	7.3	*		104
4-16- 4S	28344	5.1	16.2	4.8	*		110
5-10-15S	27936	4.8	10.3	14.6*			99
5-10-15S	27986	5.4	9.8	15.2			102
5-10-15S	28043	5.4	9.7*	13.8*	*		99
5-10-15S	28125	4.4*	10.2	13.3*			93*
5-10-15S	28351	5.8	10.3	13.5*			103
5-10-15S	28540	5.3	9.7	14.4*			99
5-10-15S	28693	4.6*	9.9	15.0			97*
5-10-15S	28741	5.4	11.0	15.0	*		106
5-10-15S	29139	5.4	10.8	13.2*	*		102
5-10-15S	29212	5.9	10.6	14.9			107
5-10-15S	29222	5.6	9.2*	15.2			101
5-10-15S	29330	4.9	10.6	14.0*			100
5-10-15S	29410	5.1	11.4	15.2	*		107
5-10-15S	29480	5.2	10.2	16.0			103
5-10-15S	29528	5.8	10.7	13.2*	*		104
5-20-20M	27609	5.2	18.6*	20.1			97*
5-20-20M	27699	4.9	19.2*	18.2*			95*
5-20-20M	27720	5.3	21.6	17.4*			102
5-20-20M	27730	4.8	20.4	17.2*			96*
5-20-20M	27742	5.1	19.2*	17.7*			95*
5-20-20M	27802	5.0	18.8*	18.3*			95*
5-20-20M	27939	5.0	19.0*	18.0*			95*
5-20-20M	27958	5.0	20.7	19.0*			100
5-20-20M	28073	4.9	19.9	18.0*			97*
5-20-20M	28102	5.0	13.3*	15.7*			76*
5-20-20M	28123	4.8	16.6*	18.3*			88*
5-20-20M	28352	5.9	21.3	19.9			107
5-20-20M	28416	5.3	19.6	18.3*			98
5-20-20M	28457	5.5	19.3*	18.3*			98
5-20-20M	28514	5.1	18.3*	19.3*			95*
5-20-20M	28551	5.5	21.2	19.3*			104
5-20-20M	28656	5.1	17.1*	20.8			93*
5-20-20M	28969	5.1	16.9*	18.8*			91*
5-20-20M	28974	5.0	16.6*	22.5			94*
5-20-20M	29211	4.8	18.4*	17.5*			91*
5-20-20M	29256	5.3	21.0	17.2*			100
5-20-20M	29454	5.6	18.9*	17.8*			97*
5-25-15M W/ME	28783	5.4	24.3*	13.6*			98
6-12-12M	27612	5.8	13.5	12.5			105
6-12-12M	27731	6.5	13.2	12.0			107
6-12-12M	27775	5.5*	12.8	11.7			100
6-12-12M	27928	5.8	11.7	11.9			97*
6-12-12M	27940	6.0	12.3	13.0			103
6-12-12M	27985	6.5	12.1	12.0			103
6-12-12M	28082	6.5	11.9	11.7*			101
6-12-12M	28236	6.2	11.3*	12.9			100
6-12-12M	28655	5.0*	17.2	18.3			125

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)

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

FEDERAL CHEMICAL COMPANY		LOUISVILLE		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
6-12-12M	28721	5.4*	11.3*	14.2				98
6-12-12M	28833	6.6	11.7	11.9				102
6-12-12M	29140	5.5*	10.7*	13.8				95*
6-12-12M	29154	5.9	12.8	13.0				104
6-12-12M	29396	5.1*	11.2*	13.9				96*
6-12-12M	29479	5.8	12.2	10.3*				96*
6-24-24M	28353	6.7	23.6	23.4*				101
6-24-24M	28396	6.3	23.2*	24.5				100
6-24-24M	28468	5.2*	23.6	20.3*				92*
6-24-24M	28384	5.7	24.4	23.9				100
6-24-24M	29042	6.0	25.8	21.2*				101
6-24-24M W/ME	29367	6.6	24.0	20.0*				97*
9-10-15S	27941	8.3*	10.5	15.2				99
9-10-15S	28124	8.6*	9.5*	14.6*				95*
9-10-15S	28957	7.5*	10.3	14.9				94*
9-10-15S	29232	7.4*	10.0	16.2	*			94*
9-10-15S	29366	8.1*	10.5	15.7				98
9-10-15S	29449	7.9*	13.4	15.9	*			107
10-10-10M	27585	7.7*	16.3	15.1				118
10-10-10M	27613	8.8*	11.4	11.7				101
10-10-10M	27677	9.5*	10.5	11.3				101
10-10-10M	27729	9.6*	10.0	11.3				100
10-10-10M	27767	9.7	10.3	9.7				99
10-10-10M	27801	10.0	10.7	9.5*				101
10-10-10M	27385	9.7	10.0	10.0				98
10-10-10M	27926	10.1	10.0	9.9				100
10-10-10M	27937	8.7*	10.7	11.1				98
10-10-10M	27957	9.9	10.1	10.8				101
10-10-10M	28072	10.0	9.9	10.4				100
10-10-10M	28343	10.4	11.5	10.6				108
10-10-10M	28354	11.0	10.1	10.2				105
10-10-10M	28632	9.9	11.0	11.8				105
10-10-10M	28657	9.3*	10.5	10.8				100
10-10-10M	28694	10.2	9.8	11.2				102
10-10-10M	28958	8.5*	12.3	10.0				100
10-10-10M	28982	9.9	12.4	10.1				107
10-10-10M	29036	9.8	13.4	10.1				110
10-10-10M	29155	10.1	10.4	10.7				103
10-10-10M	29210	9.8	11.4	12.8				108
10-10-10M	29526	9.1*	8.5*	11.3				92*
10-10-10M	29529	9.1*	11.2	9.7				99
10-10-15S	27987	9.6*	10.7	15.0	*			100
10-10-15S	28877	10.0	11.0	15.5				104
10-10-15S W/ME	27942	9.9	10.4	16.0	*			102
10-10-15S W/ME	28081	10.2	10.8	15.1				104
10-10-15S W/ME	28467	10.2	10.4	16.7	*			105
10-10-15S W/ME	28606	10.4	10.9	15.8				105
10-10-15S W/ME	28970	9.5*	10.0	16.3				99
10-10-15S W/ME	29323	9.0*	10.3	15.9	*			98
10-10-15S W/ME	29368	9.0*	11.2	14.9	*			99
12-12-12M	28042	10.8*	12.1	11.4*				95*
12-12-12M	28233	11.2*	11.6*	11.4*				95*
12-12-12M	28541	11.7	12.0	11.5*				98
12-12-12M	29044	7.2*	22.8	19.2				120
12-12-12M	29233	12.1	12.7	11.3*				102
15-15-15M	29054	14.2*	14.4*	15.3				96*
15-15-15M	29481	14.2*	14.7	14.2*				96*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

FEDERAL CHEMICAL COMPANY		LOUISVILLE		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
20-10-5M	29177	20.1	11.3	6.0				105
FEDERAL CHEMICAL COMPANY		NASHVILLE		TENN		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-9-27M	27796	0.0	11.1	27.6				111
0-20-20M	29507	0.0	18.5*	19.0*				93*
4-12-8M	27655	5.9	12.0	12.1				122
4-16-4S W/ME	28260	4.7	15.4*	5.5				105
5-10-15S	27649	5.2	9.8	14.1*				99
5-10-15S	28258	5.9	9.9	14.9				105
5-10-15S	28379	5.7	10.3	14.9				105
5-10-15S	28749	5.5	9.8	14.6*				101
5-10-15S	29153	5.6	9.9	15.0				103
5-10-15S	29464	5.0	10.9	13.8*				101
5-20-20M	27624	5.4	18.5*	17.6*				94*
5-20-20M	27738	4.6*	19.0*	19.9				95*
5-20-20M	27797	5.0	20.2	17.2*				96*
5-20-20M	27887	5.4	21.1	17.5*				101
5-20-20M	28259	6.0	21.0	20.2				107
5-25-15M W/ME	29506	5.6	23.6*	14.9				99
6-12-12M	27586	5.9	12.4	12.3				101
6-12-12M	27608	5.7	12.0	12.2				99
6-12-12M	27623	5.9	11.8	11.1*				97*
6-12-12M	27650	5.6*	12.1	12.5				99
6-12-12M	27737	5.8	11.9	11.3*				97*
6-12-12M	28376	6.4	11.8	11.4*				100
6-12-12M	28748	5.9	12.8	11.9				102
6-24-24M	27656	6.3	22.5*	22.7*				96*
6-24-24M	29505	6.3	23.8	22.2*				98
10-10-10M	27654	10.4	11.2	11.3				108
10-10-10M	27739	9.9	10.5	11.5				103
10-10-10M	28378	9.9	10.2	9.9				100
10-10-10M	28438	10.5	10.3	9.8				103
10-10-15S W/ME	28257	10.9	10.5	16.0				107
10-10-15S W/ME	29152	10.1	10.6	15.2				102
15-15-15M	28377	14.9	15.5	14.4*				100
15-15-15M	29112	14.2*	14.4*	15.7				97*
FRANKLIN CROP SERVICE		FRANKLIN		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
5-20-20M	28890	5.2	18.2*	21.8				98
6-12-18S	28891	6.2	12.1	18.4		*		102
FRASIER SUPPLY CO.		GLASGOW		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-20-0	28583	0.0	21.8	0.0				109
5-10-15S	28369	6.0	10.2	15.2				107
5-10-15S	29510	5.5	10.3	14.3*				103
5-20-20M	27983	5.2	20.3	20.5				102
5-20-20M	28365	5.4	20.2	19.9				102
6-12-12M	27984	6.6	12.8	11.1*				104
6-12-12M	28368	6.8	14.2	13.4				115
6-12-12M	29285	6.7	13.2	11.3*				107
7-23-23M	28911	8.8	26.5	19.6*				107
9-9-9M	28364	10.8	9.4	8.4*				109
10-10-10M	28367	9.9	9.2*	12.0				100
10-10-10M	28973	10.8	10.4	9.9				105
10-10-10M	29461	9.2*	8.3*	9.9				90*
10-10-10M	29509	9.5*	10.0	9.3*				96*
10-10-10M	29539	10.3	12.1	9.2*				107



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

FRASIER SUPPLY CO.		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
11-15-20M	28910	11.4	18.4	17.7*		106
GAMALIEL BULK FERTILIZER INC		GAMALIEL			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	28278	2.7*	8.2*	25.1		66*
21-12-12M	28921	21.5	13.8	12.2*		100
GENES AG SUPPLY		STURGIS			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
4-10-10M	29115	4.4	10.2	10.3		104
4-10-10M	29117	4.6	10.0	10.2		104
5-15-30M	27746	5.0	15.2	30.0		101
5-15-30M	28788	5.8	14.5*	29.9		102
7-22-5M	29116	8.4	21.2*	4.9		104
18-9-9M	28789	17.8	9.8	9.2		101
GLASGOW FERTILIZER CO.		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0-14-42M	27693	0.0	8.8*	46.7		92*
0-19-38M	27558	0.0	25.5	27.8*		104
0-20-20M	28528	0.0	18.6*	19.0*		93*
0-20-20M	29447	0.0	22.4	19.0*		106
0-26-26M	27694	0.0	19.3*	34.6		94*
4-12-8M	28908	4.9	14.6	10.9		124
4-16-4S	28370	5.0	14.1*	6.4		103
4-18-18M	28919	5.5	22.0	18.3		114
4-19-19M	28920	6.0	22.9	19.7		115
5-10-15S	29122	4.6*	10.2	16.3		101
5-10-15S	29282	6.7	11.1	14.9		114
5-10-15S	29490	5.7	10.3	15.9		107
5-10-15S W/ME	28918	5.6	10.9	16.0		109
5-10-15S W/ME	29283	5.5	10.3	15.1		104
5-20-20M	27740	5.0	19.0*	21.3		99
5-20-20M	28168	5.9	20.9	19.8		106
5-20-20M	28373	6.5	19.3*	19.1*		103
5-20-20M	28496	6.8	20.3	19.5*		107
5-20-20M	28500	8.4	26.0	12.8*		120
5-20-20M	28618	5.6	18.2*	21.8		100
5-20-20M	29448	5.6	15.7*	25.5		98
6-12-12M	28497	7.2	14.1	11.1*		113
6-12-12M	28506	7.0	14.8	12.5		117
6-12-12M	28906	6.0	12.8	14.0		106
6-24-24M	29543	7.6	28.6	23.1*		115
8-26-26M	28507	8.8	26.2	25.2*		102
8-26-26M	28529	7.7*	23.0*	28.3		95*
8-26-26M	28589	8.8	28.1	23.0*		103
8-32-16M	28498	9.5	33.0	17.2		107
8-32-16M	29295	8.7	33.4	14.0*		103
10-6-4M	27754	9.4*	6.7	3.9		99
10-10-10M	28167	10.7	11.2	11.6		110
10-10-10M	28499	12.2	14.2	8.9*		123
10-10-10M	28501	11.2	12.1	11.0		115
10-10-10M	28907	10.8	11.6	13.4		115
12-24-24M	27695	9.8*	19.6*	31.2		92*
12-24-24M	28241	12.8	28.3	19.0*		105
12-24-24M	28374	10.4*	22.5*	21.9*		91*
12-24-24M	28620	12.0	24.1	25.0		101
12-24-24M	29132	6.6*	11.6*	42.9		79*
13-7-10M	28909	11.3*	8.1	13.3		99
15-15-15M	28508	15.5	15.8	15.1		103

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

GLASGOW FERTILIZER CO.		GLASGOW			KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
15-15-15M	28619	14.2*	14.3*	14.1*			95*
33- 0- 0	28917	33.6	0.0	0.0			100
GLASGOW TRADING CENTER		GLASGOW			KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
11- 9-14S	29123	12.5	9.1	12.1*	*		100
12-15-15M	29124	11.9	13.7*	15.9			97*
W R GRACE & CO-DAV CHEM DIV		BARTOW			FLA.	XS CL	RV
GRADE	NUM	N	APA	POT			
0-46- 0	29070	0.0	46.0	0.0			100
W R GRACE & CO-AGR PROD DIV		CADIZ			KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
5-15-20M	28596	5.1	15.4	20.7			102
5-15-20M	28775	4.7*	14.4*	19.9			97*
11-10-10M	27690	10.3*	11.3	11.9			96*
16- 8-13M	28776	15.4*	8.6	12.8*			97*
W R GRACE & CO-AGR PROD DIV		GUTHRIE			KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
4-12-20M	29372	7.9	9.4*	17.9*			108
5-15-15M	28405	6.4	15.0	15.2			107
5-15-15M	28992	5.6	15.5	15.4			105
5-15-15M	28993	6.0	15.5	13.0*			103
5-15-25M	28991	5.0	13.6*	25.1			96*
9-10-15S	29371	10.6	10.3	16.7			111
20- 7- 4M	28994	19.9*	7.6	5.4			100
W R GRACE & CO AGRI CHEM GROUP		MAYFIELD			KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
6-18-18M	28777	6.3	15.4*	18.6			95*
17- 9- 9M	28778	13.3*	3.9*	2.2*			62*
W R GRACE & CO-AGR PROD DIV		HOPKINSVILLE			KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
5-15-25M	27689	4.4*	14.6*	24.0*			95*
5-15-25M	27766	4.4*	14.5*	25.4			96*
5-15-25M	27794	4.6*	14.0*	26.5			97*
5-15-25M	28570	4.9	14.7	24.9			98
5-15-25M	28593	4.9	14.5*	26.8			100
5-15-25M	28762	4.4*	14.4*	25.6			96*
5-15-25M	28764	5.0	14.8	25.7			100
5-15-25M	28773	4.8	14.5*	25.4			98
5-15-25M	28997	5.8	13.3*	23.2*			96*
6-18-18M	28763	7.5	22.2	6.5*			102
9-10-15S	29484	9.7	10.5	17.5			109
9-10-15S	29487	10.0	9.5*	13.4*			100
9-27- 0	28571	11.2	22.4*	0.0			97*
9-27- 0	28761	8.9	27.0	0.0			99
9-27- 0	28765	9.0	26.8	0.0			99
9-27- 0	29119	8.7*	25.1*	0.0			94*
W R GRACE & CO AGRI CHEM GROUP		MEMPHIS			TENN	XS CL	RV
GRADE	NUM	N	APA	POT			
0-20- 0	28078	0.0	18.0*	0.0			90*
0-20- 0	28712	0.0	15.8*	0.0			79*
0-20- 0	29219	0.0	18.2*	0.0			91*
0-20-20M	27826	0.0	19.3*	19.8			97*
0-20-20M	29218	0.0	20.4	20.3			102
0-25-25M	28243	0.0	23.6*	28.5			101
0-46- 0	28341	0.0	46.3	0.0			101
0-46- 0	29259	0.0	45.0*	0.0			98
4-12- 8M	27708	4.7	11.9	10.0			109

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Analyses deficient more than tolerance and relative values of 97 per-  
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W R	GRACE & CO	AGRI	CHEM GROUP	MEMPHIS		TENN	XS CL	RV
GRADE	NUM	N	APA	POT				
4-16- 4S	27921	4.2	16.3	4.8	*	104		
4-16- 4S	28085	4.1	16.0	5.0	*	103		
5-10-15S	27982	4.8	10.0	13.8*		96*		
5-10-15S	28075	5.1	10.3	16.4	*	104		
5-10-15S	28200	5.8	10.7	15.5	*	108		
5-10-15S	28391	5.2	9.6*	14.0*		97*		
5-10-15S	28642	5.3	10.1	16.0		104		
5-10-15S	28713	5.3	10.2	15.9		104		
5-10-15S	29077	5.1	11.3	15.2	*	106		
5-10-15S	29257	5.3	10.7	16.3	*	107		
5-10-15S	29280	5.4	9.9	14.1*	*	100		
5-10-15S	29466	4.5*	9.7*	16.0	*	98		
5-15-25M	28077	5.4	16.0	22.7*		101		
5-20-20M	27589	4.3*	18.4*	20.9		94*		
5-20-20M	27962	5.3	20.0	21.0		103		
5-20-20M	27981	4.7*	19.9	19.0*		97*		
5-20-20M	28179	4.9	19.3*	20.1		98		
5-20-20M	28392	5.2	19.4*	19.9		99		
5-20-20M	28615	4.8	20.4	18.6*		99		
5-20-20M	28643	5.6	19.7	20.8		102		
5-20-20M	28710	5.4	20.0	21.6		104		
5-20-20M	29258	5.1	21.5	19.9		104		
5-20-20M	29281	5.0	20.1	19.2*		99		
6-12-12M	27564	5.7*	11.6*	12.8		98		
6-12-12M	27587	5.4*	12.3	11.9		98		
6-12-12M	27825	5.6*	12.5	10.9*		97*		
6-12-12M	28086	5.9	12.6	13.3		104		
6-12-12M	28178	7.0	11.2*	13.1		104		
6-12-12M	28394	6.8	11.6*	12.8		104		
6-12-12M	28439	6.3	12.8	13.9		108		
6-12-12M	28558	6.1	12.5	12.1		102		
6-12-18S	28074	5.8	12.8	18.9	*	103		
6-12-18S	28440	6.2	13.2	18.5	*	106		
6-12-18S	28614	6.8	12.3	17.9	*	105		
6-12-18S	29065	6.2	11.6*	18.7	*	101		
6-24-24M	27681	5.7*	22.8*	23.4*		96*		
6-24-24M	27706	5.7*	24.4	24.0		100		
6-24-24M	27771	5.6*	24.2	22.6*		97*		
6-24-24M	27883	5.6*	24.9	22.4*		99		
6-24-24M	27961	6.0	23.1*	22.9*		97*		
6-24-24M	28031	5.4*	24.0	23.7		98		
6-24-24M	28076	5.7	23.2*	24.2		98		
6-24-24M	28079	5.4*	22.8*	24.1		95*		
6-24-24M	28198	6.1	23.0*	24.9		99		
6-24-24M	28337	6.3	23.5	21.9*		98		
6-24-24M	28393	6.0	22.2*	24.8		97*		
6-24-24M	28561	5.5*	24.3	23.0*		98		
6-24-24M	29273	5.6*	23.0*	24.8		97*		
10-10-10M	27630	9.9	10.4	10.9		102		
10-10-10M	27707	10.2	10.9	11.5		106		
10-10-10M	28711	10.1	11.0	12.2		107		
10-10-10M	29453	9.6*	10.3	9.9		99		
10-20-20M	27598	9.5*	18.7*	20.2		96*		
12-12-12M	28629	11.9	12.9	12.1		102		
12-12-12M	29163	11.6*	12.5	13.0		101		
15-15-15M	27765	14.1*	14.9	15.5		97*		
15-15-15M	28199	14.6*	15.4	14.9		99		

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Analyses deficient more than tolerance and relative values of 97 per-  
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W R GRACE & CO AGRI		CHEM GROUP		MEMPHIS		TENN	
GRADE	NUM	N	APA	POT	XS CL	RV	
15-15-15M	28395	15.1	14.8	16.3		101	
15-15-15M	28560	15.3	15.6	14.9		102	
15-15-15M	28616	15.3	15.3	15.1		102	
15-15-15M	29162	14.5*	15.5	15.1		99	
15-15-15M	29467	14.0*	15.0	14.9		97*	
30- 0- 0	28641	29.9	0.0	0.0		100	
30- 0- 0	29289	29.0*	0.0	0.0		97*	
82- 0- 0	27575	82.1	0.0	0.0		100	
82- 0- 0	29374	82.0	0.0	0.0		100	
W R GRACE & CO-AGR PROD DIV		NASHVILLE		TENN			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20-20M	28781	0.0	19.6	20.1		99	
0-20-30M	27643	0.0	19.9	31.1		101	
0-20-30M	27724	0.0	19.5*	31.3		100	
0-20-30M	29274	0.0	24.5	24.2*		105	
3-10-30M	28390	3.1	9.5*	28.4*		96*	
3-10-30M	29432	3.6	10.0	28.7*		101	
4-16- 4S	27864	4.0	16.7	5.2	*	105	
5-10-15S	28987	5.4	9.5*	14.1*		99	
5-10-15S	29071	5.4	9.9	14.3*	*	100	
5-20-20M	27698	4.8	19.5*	19.3*		97*	
5-20-20M	27776	5.0	18.7*	19.9		97*	
5-20-20M	28169	5.2	19.9	18.7*		99	
6-12-12M	27697	5.9	12.2	12.9		102	
10-10-10M	27588	9.6*	10.3	10.3		99	
10-10-10M	27764	9.8	10.4	10.9		102	
10-10-10M	27865	9.8	11.2	11.0		105	
10-10-10M	27884	9.6*	10.0	10.3		98	
10-10-10M	27968	10.0	9.8	10.3		100	
10-10-10M	28080	10.3	9.7*	10.5		101	
10-10-10M	28886	9.9	10.8	10.6		103	
10-10-15S	28448	10.0	10.5	14.4*		100	
15-15-15M	28888	14.6*	15.5	15.9		101	
W R GRACE & CO-AGR PROD DIV		NEW ALBANY		IND.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0- 0-60M	28162	0.0	0.0	59.1		98	
0-46- 0	27239	0.0	45.7	0.0		99	
5-10-15S	27863	4.9	9.7*	16.0		100	
5-10-15S	28040	5.0	10.6	15.5	*	103	
5-10-15S	28433	5.5	10.5	15.2	*	105	
5-10-15S	29150	5.1	10.4	15.3	*	102	
5-10-15S	29402	5.3	10.5	15.5	*	105	
5-10-15S	29404	5.1	10.7	15.3	*	104	
5-10-15S	29409	5.0	10.5	15.0	*	102	
5-20-20M	27833	4.6*	20.5	20.9		101	
5-20-20M	28041	5.4	19.1*	22.0		102	
5-20-20M	28432	5.7	19.8	20.5		103	
5-20-20M	28449	5.3	20.6	19.6*		102	
5-20-20M	28723	5.1	19.4*	19.0*		97*	
5-20-20M	29149	5.5	19.7	21.0		103	
5-20-20M	29403	5.2	22.4	18.1*		105	
6- 6-18S	28951	6.8	10.0	17.5*	*	120	
6-12-12M	28431	6.3	12.7	13.5		107	
6-12-12M	28446	6.2	12.3	11.9		102	
6-12-12M	28731	6.4	12.6	12.8		106	
6-12-12M	29032	5.9	12.7	13.3		104	
6-12-12M	29148	6.0	12.4	12.7		103	

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W R GRACE & CO-AGR PROD DIV		NEW ALBANY		IND.		
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	29234	6.0	12.9	13.8		107
6-12-12M	29405	5.7*	12.6	12.4		101
6-12-18S	29235	5.9	11.9	18.4	*	100
6-24-24M	27709	5.8	24.0	24.1		99
6-24-24M	29164	6.4	23.7	23.9		100
6-38- 6M W/ME	28780	5.9	37.8	6.9		100
6-38- 6M W/ME	28801	6.0	38.2	6.7		101
10-10-10M	27596	10.8	11.0	11.9		110
10-10-10M	27862	10.0	11.1	10.9		105
10-10-10M	27896	10.6	10.5	11.4		107
10-10-10M	28039	9.9	10.6	10.6		102
10-10-10M	28430	10.3	11.2	11.7		108
10-10-10M	28447	10.1	10.8	10.2		103
10-10-10M	28459	10.4	12.7	13.0		116
10-10-10M	28738	10.2	10.8	11.0		105
GRAVES COUNTY SOIL IMP. ASSN.		MAYFIELD		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
6-24-24M	28838	6.9	27.1	25.6		112
15-15-10M	28569	18.3	14.2*	7.7*		106
GREEN VALLEY FARM SUPPLY		ISLAND		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0-15-40M	28852	0.0	17.3	39.9		106
0-15-40M	28883	0.0	16.9	38.6*		103
6-26-26M	28882	5.2*	23.8*	29.3		96*
6-26-26M	28885	4.8*	24.3*	29.0		96*
15-15-15M	28851	16.1	16.4	21.1		113
GRO-GREEN CHEMICAL CO., INC.		SHELBYVILLE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
4- 5- 6S	29361	6.5	9.9	9.5		148
4-19-19M W/B	27398	5.2	15.5*	23.2		96*
5- 4- 7M	28938	8.0	6.2	7.1		129
5-10-15S	29030	5.4	7.8*	18.1		100
5-10-15S	29358	6.5	10.3	12.5*		105
5-20-20M	28452	5.6	15.8*	25.4		98
5-20-20M	28730	4.1*	19.0*	18.1*		91*
5-20-20M	29239	6.2	15.6*	19.9		93*
6- 8- 7M	29359	7.9	7.7*	10.1		111
8-10-15S	28300	9.6	11.7	10.9*		107
8-10-15S	28450	9.4	9.8	16.6		109
8-10-15S	28654	8.8	11.4	16.7	*	112
8-10-15S	28950	6.4*	13.7	13.7*		102
8-12-15S	28949	6.7*	6.9*	19.8		85*
8-12-15S	29240	9.2	16.0	12.7*		114
8-12-15S	29356	7.7*	8.5*	11.1*		81*
8-12-15S W/ME	29214	7.8	11.6*	16.0		99
9-10- 5M	27749	10.9	8.3*	9.4		174
10-15-10M	29360	9.3*	16.2	11.2		98
12- 2-10M	29031	7.9*	3.7	19.0		95*
12-12-12M	28299	11.8	14.6	13.3		108
12-12-12M	28301	14.3	16.9	8.0*		117
12-12-12M	28451	10.8*	13.2	15.5		103
12-12-12M	28940	11.8	8.6*	15.0		94*
20- 9- 9M	28939	16.8*	6.8*	12.5		87*
20-10- 5M	29357	22.7	11.0	12.8		121
GRO-GREEN SALES CO., LEBANON		SHELBYVILLE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-60M	28724	0.0	0.0	59.7		99

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GRO-GREEN SALES CO., LEBANON		SHELBYVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
8-10-15S	28456	8.6	11.1	16.2		109
8-12-15M	28455	7.5*	9.7*	17.1		93*
12- 7-14M	28916	11.9	5.2*	17.9		98
16- 8-19M	28453	14.6*	7.6*	22.3		94*
19- 6-17M	28937	19.2	6.7	16.2*		100
27-13-17M	28454	18.6*	10.6*	21.8		79*
GRO-GREEN CHEMICAL CO PAYNES		SHELBYVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
5- 4- 5M	29337	4.6*	4.4*	6.8		95*
6- 6-18S	29338	7.1	5.8	18.3		106
6- 8- 8S	29352	4.0*	8.5	6.7*		79*
6- 9- 8S	29339	6.9	9.1*	9.3		102
6-12-12M	28231	5.9	10.5*	14.6		99
8-12-15S	29351	8.3	15.7	13.1*		110
8-24-10M	29066	7.3*	20.3*	12.6		91*
27- 0-10M	28948	28.0	0.0	10.4		101
GULF FARM CENTER		BOWLING GREEN KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
5-20-20M	28896	5.9	21.3	19.9		107
10-10-10M	28894	11.0	10.7	11.2		109
22-14-14M	28895	21.5*	12.4*	14.7		94*
GULF FARM CENTER		CECILIA KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-20-20M	28532	0.0	22.0	15.8*		99
0-26-26M	27815	0.0	29.4	22.3*		104
5-10-15S	28810	5.2	10.3	15.1		103
5-10-15S	29322	5.3	10.9	15.7		106
5-20-20M	27665	4.9	18.2*	24.5		101
5-20-20M	28156	6.5	23.3	17.5*		111
6-12- 8S	28824	11.8	10.6*	10.8		132
6-12-12M	28158	5.9	11.3*	11.9		96*
6-24-24M	28157	6.9	24.9	24.0		105
8-26-26M	28531	9.8	31.5	19.3*		110
10-10-10M	28825	11.0	10.9	9.0*		106
12-12-16S	29321	12.0	12.8	15.9		102
14- 6-10S	28828	19.5	6.7	10.8	*	124
14-14-14M	28534	15.0	15.2	14.9		104
15-15-15M	28159	15.0	15.8	15.3		102
15-15-15M	29532	15.2	16.0	14.5*		102
16-10- 0	28827	17.7	11.2	0.0		107
16-13-13M	28826	18.5	14.1	9.2*		105
22-22- 5M	29320	22.5	24.4	5.7		103
23-15-15M	28533	27.0	18.7	9.0*		107
GULF FARM CENTER		CLARKSON KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
7-28-23M	28868	7.0	27.6	25.2		101
10-10-10M	28633	11.3	12.7	10.7		117
12-12-16NIT	28635	11.7	12.6	15.9		100
15-15-15M	28634	15.5	15.8	14.9		103
16-18-18M	27559	17.0	19.1	18.6		101
GULF FARM CENTER		CLAY KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-30-20M	28873	0.0	40.1	8.0*		110
7-18-36M	29313	6.9	17.9	37.8		101
9-26-17M	28793	11.4	28.3	17.6		108

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GULF FARM CENTER		HARTFORD			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
6-26-26M	29508	6.3	26.5	26.1		102
GULF FARM CENTER		HENDERSON			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-60M	28339	0.0	0.0	61.4		102
0-19-34M	28863	0.0	20.6	34.4		105
0-23-30M	28862	0.0	21.4*	33.8		101
5-10-30M	29306	6.2	11.5	32.0		113
5-20-20M	29174	8.2	25.3	29.8		140
5-20-20M	29175	5.4	18.9*	19.9		99
5-20-20M	29468	5.5	21.2	17.7*		102
6-18-12M	27769	5.7*	20.9	19.5		119
6-24-24M	27768	6.2	25.1	23.7		103
6-24-24M	27777	6.0	23.5*	23.5		98
6-24-24M	28488	6.6	24.0	24.9		103
7-18-36M	28794	7.6	19.6	34.4*		104
7-18-36M	29312	8.3	20.0	33.2*		105
12-12-16S W/ME	28028	11.3*	12.5	15.9		98
15-15-15M	29488	14.3*	16.8	11.2*		97*
GULF FARM CENTER		HENDERSON			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
30- 0- 0	28990	30.0	0.0	0.0		100
45- 0- 0	28338	45.7	0.0	0.0		101
82- 0- 0	27574	82.0	0.0	0.0		100
82- 0- 0	29373	82.1	0.0	0.0		100
82- 0- 0	29375	82.0	0.0	0.0		100
GULF FARM CENTER		HODGENVILLE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
12-12-12M	28526	11.9	12.9	11.0*		100
14-14-14M	28817	15.6	15.3	14.1*		104
19-13-17M	27510	18.6*	10.4*	21.2		96*
22- 7-15M	28816	23.8	9.0	12.9*		104
24-15-15M	28832	23.7*	19.8	13.5*		103
GULF FARM CENTER		HORSE CAVE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	28936	0.0	21.2	20.0		104
5-10-15S	29316	4.5*	8.5*	13.5*		88*
5-20-20M	28822	5.5	21.1	20.1		105
9- 6-13S	29317	9.5	4.6*	13.1		92*
10-10-10M	28935	10.0	10.2	12.0		103
11-15-16S	29314	12.1	15.0	16.5		103
11-15-16S	29315	11.6	16.7	14.9*		104
19-19-19M	28823	20.7	19.6	17.5*		104
GULF FARM CENTER		IRVINGTON			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
12-12-16NIT	28640	12.4	12.5	16.7		104
30- 0- 0	27560	30.4	0.0	0.0		101
GULF OIL CORP., AGRI CHEM DIV		KANSAS CITY			MO.	
GRADE	NUM	N	APA	POT	XS CL	RV
6-24-24M	27743	6.3	25.6	24.2		105
6-24-24M	27828	6.3	25.0	24.3		103
6-24-24M	28025	6.4	24.8	25.2		104
6-24-24M	28174	6.5	24.0	25.4		103
6-24-24M	28175	6.4	23.7	25.0		102
6-24-24M	28404	6.0	23.7	24.4		100
12-12-16S W/ME	29308	11.6*	12.4	16.0		100
15-15-15M	27725	15.3	15.5	15.7		103
15-15-15M	28486	15.4	15.4	16.3		103

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

		MORGANFIELD KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
GULF FARM CENTER						
5-10-10M	29000	5.4	10.3	10.5		105
6-18- 6M	28792	6.3	19.1	5.9		105
6-18- 6M	29001	6.0	19.0	6.0		103
10- 5- 5M	28791	10.0	6.1	5.0		105
10- 6- 8M	29440	10.0	6.3	8.2		101
GULF FARM CENTER		OWENSBORO KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-23-30M	29304	0.0	23.4	29.9		101
5-10-15S	29166	16.0	13.1	16.4	*	181
5-10-15S	29307	6.3	12.4	12.8*		113
6-24-24M	28483	6.1	25.4	24.9		104
6-24-24M	28484	6.4	25.0	27.5		107
6-24-24M	28866	9.0	34.1	17.0*		124
6-24-24M	29305	6.5	22.8*	17.8*		92*
7-14- 7M	29471	5.2*	15.9	8.0		99
13- 7- 9S	28865	12.5*	17.5	13.0		134
GULF FARM CENTER		RUSSELLVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-20-20M	28611	0.0	20.2	15.1*		92*
15-15-15M	28923	13.5*	17.2	15.3		100
33- 0- 0	28349	33.1	0.0	0.0		99
GULF OIL CORP AGRI CHEM DIV		SACRAMENTO KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-23-30M	27573	0.0	23.3	31.8		103
GULF FARM CENTER		STURGIS KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-18-36M	28790	0.0	19.6	34.6*		102
0-19-35M	27745	0.0	19.3	36.0		102
30- 0- 0	29003	29.7	0.0	0.0		99
GULF OIL CORP AGRI. CHEM DIV		WALNUT RIDGE ARK			XS CL	RV
GRADE	NUM	N	APA	POT		
12-12-16S W/ME	28581	11.8	12.1	16.7		100
18-46- 0	28340	18.2	46.0	0.0		100
HANCOCK COUNTY FARM SUPPLY		HAWESVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
14- 6-10M	29051	11.8*	7.2	14.3		95*
23- 3-13M	29052	23.3*	4.3	13.6		100
HOWE-HILLIARD GRAIN CO.		MAYFIELD KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
6-15-40M	28839	5.6*	14.2*	41.6		98
16-13-21M	28568	16.0*	14.3	23.3		101
HUTSON CHEMICAL COMPANY		MURRAY KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0- 0-60M	28192	0.0	0.0	59.6		99
5-20-20M	28753	5.7	20.7	20.2		105
6-24-24M	28750	5.9	24.0	24.9		101
6-24-24M	29478	6.3	23.8	25.0		101
10-10-10M	28193	11.0	9.9	11.3		107
10-10-10S	28194	10.7	12.6	10.5		113
15-15-15M	28752	15.0	15.4	15.0		101
20-20- 0	27626	19.5*	20.1	0.0		99
21- 7-17M	28840	22.4	11.1	14.4*		108
INTERNATIONAL MIN & CHEM CORP		CULLMAN ALA			XS CL	RV
GRADE	NUM	N	APA	POT		
5-10-15S	28847	5.7	9.9	12.3*	*	98



TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)  
Analyses deficient more than tolerance and relative values of 97 per-  
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INTERNATIONAL MIN & CHEM CORP		FLORENCE		ALA		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	27781	0.0	20.2	20.4		101	
5-10-10M	28476	5.7	10.0	11.0		107	
5-20-20M	27782	4.8	18.3*	20.0		95*	
5-20-20M	27785	4.3*	20.7	16.6*		95*	
8- 8- 8M	28905	10.4	9.1	10.8		125	
10-10-10M	29486	9.1*	10.0	10.1		96*	
KENTUCKY FERTILIZER WORKS		WINCHESTER		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	28122	4.6*	9.9	14.9		97*	
5-10-15S	28676	5.0	9.8	15.3		100	
5-10-15S	29301	5.1	10.2	15.9		103	
5-10-15S	29388	4.5*	10.9	14.9		100	
5-20-20M	28121	4.5*	20.1	20.0		98	
5-20-20M	28680	5.0	20.7	20.1		102	
5-20-20M	28683	5.0	19.5*	21.2		100	
5-20-20M	29297	5.0	18.6*	18.7*		95*	
6- 6-18S	28649	5.6*	6.3	17.9		99	
6- 6-18S	28681	5.7	5.9	19.0		100	
6- 6-18S	29298	6.1	6.5	18.5		103	
6- 6-18S	29355	6.0	6.6	18.1		103	
8-10-15S	28678	7.6*	10.0	15.8		99	
8-10-15S	29300	7.5*	9.9	15.1		97*	
10-10-10M	28023	9.1*	9.7*	12.2		98	
10-10-10M	28120	8.2*	10.2	11.7		94*	
10-10-10M	28650	9.1*	9.2*	10.0		92*	
10-10-10M	28677	9.3*	10.3	11.5		100	
12-12-12M	28545	11.5*	12.5	10.8*		97*	
12-12-12M	28682	11.1*	11.7*	12.4		96*	
12-12-12M	29299	11.1*	11.8	11.9		95*	
15- 4-10M	28679	17.8	4.4	4.0*		102	
22- 0-16S	29296	22.4	0.0	17.5		101	
KERR-MCGEE FARM CENTER		CADIZ		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-26-26M	28774	0.0	26.8	26.2		101	
6-24-24M	28249	6.9	26.4	24.8		109	
6-24-24M	29272	6.4	25.0	22.9*		102	
15-15-15M	28437	15.4	15.6	14.6*		102	
KERR-MCGEE FARM CENTER		GUTHRIE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-30-20M	28608	0.0	30.2	22.1		103	
0-30-20M	28797	0.0	31.8	20.4		105	
5-10-15S	29170	5.3	10.9	16.7		109	
6-24-24M	28357	6.3	23.5*	25.0		101	
6-24-24M	29171	6.0	24.0	24.1		100	
8-12-20S	29013	7.9	12.4	19.4*		99	
KERR-MCGEE FARM CENTER		PEMBROKE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	29302	0.0	25.9	17.5*		115	
5-10-15S	28399	10.1	18.5	10.7*		156	
5-10-15S	29311	5.4	11.6	15.4		109	
5-20-20M	28401	7.1	24.9	19.1*		120	
6-12-12M	29011	6.3	12.6	11.9		104	
6-24-24M	28400	5.9	20.5*	27.7		96*	
6-24-24M	29010	7.3	27.9	21.4*		110	
7- 8-13S	29309	9.0	12.4	12.2*		117	
8-12-20S W/ME	29310	5.5*	12.3	19.9		90*	
10-10-10M	29303	11.3	6.6*	13.0		100	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)**  
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KERR-MCGEE FARM CENTER		PEMBROKE		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
12-31-19M	28397	12.8	30.8	19.6				101
15-15-15M	28398	15.1	17.9	14.9				107
15-15-15M	29012	15.0	17.3	14.3*				104
LIVINGSTON COUNTY COOP.		SMITHLAND		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
20- 9-12M	28767	22.7	8.4*	13.3				103
LOUISVILLE CHEMICAL CO		LOUISVILLE		KY		XS	CL	RV
GRADE	NUM	N	APA	POT				
6-18- 6M	27554	6.2	19.4	7.0				107
6-18- 6M	29114	6.5	16.9*	7.7				101
MCCAULEY BROS SEED CO		VERSAILLES		KY		XS	CL	RV
GRADE	NUM	N	APA	POT				
3- 0-21S	29354	4.1	0.0	21.7				103
3- 6- 7M	28945	4.9	8.3	10.5				127
10- 5-15M	28947	10.9	6.5	17.5				114
13- 4-13M	28946	10.7*	5.5	15.6				95*
14- 5-20S	29335	14.3	5.7	21.0				105
14- 5-20S	29336	14.4	5.4	19.9				103
15- 7-14M	29334	15.1*	8.0	15.3				100
MARSHALL COUNTY SOIL IMP ASSN		BENTON		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
17-17-17M	28850	17.2*	16.6*	20.5				99
MILES FARMS		OWENSBORO		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-14-41M	28575	0.0	15.8	39.6*				102
0-15-40M	28494	0.0	16.9	39.1*				103
3-10-30M	27542	3.0	9.1*	29.9				97*
6-15-40M	29049	5.3*	13.7*	43.7				98
6-26-26M	29048	6.0	26.6	26.3				102
6-26-26M	29050	5.1*	25.2*	28.4				98
7-25-15M	29113	5.9*	16.4*	20.5				81*
8-24-28M	28495	6.8*	23.5*	35.0				101
14-10-13M	27378	14.0	10.1*	13.7				99
MISSISSIPPI CHEMICAL CORP.		YAZOO CITY		MISS		XS	CL	RV
GRADE	NUM	N	APA	POT				
34- 0- 0	27938	34.9	0.0	0.0				103
34- 0- 0	28001	33.8	0.0	0.0				100
34- 0- 0	28196	33.2*	0.0	0.0				98
34- 0- 0	28557	34.8	0.0	0.0				102
MONSANTO AGRI. CENTERS, INC.		SLAUGHTERS		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-18-36M	27810	0.0	20.6	34.6*				104
5-20-20M	28579	5.6	20.5	19.9				103
5-20-30M	28603	5.1	20.7	28.5*				100
5-20-30M	28880	4.1*	17.3*	33.5				94*
6-24-24M	28605	6.1	25.5	22.5*				102
6-26-26M	27597	6.9	27.0	25.5*				104
6-26-26M	28604	6.1	25.5	27.1				101
6-26-26M	28878	7.9	32.4	18.2*				111
6-26-26M	28881	9.2	31.8	19.2*				115
6-26-26M	29522	5.8	24.9*	24.5*				95*
14-36- 9M W/ME	28580	14.3	35.8	9.7				101
21-16-16M	28879	15.8*	16.9	18.5				90*
MONSANTO COMPANY		ST. LOUIS		MO.		XS	CL	RV
GRADE	NUM	N	APA	POT				
33- 0- 0	29183	33.7	0.0	0.0				100

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)  
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MORRISON FARM SERVICE		HODGENVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
14-14-14M	28831	14.6	15.2	16.0		103	
17-17-17M	28818	17.8	19.6	17.9		104	
30- 0- 0	28989	31.5	0.0	0.0		105	
NA-CHURS PLANT FOOD COMPANY		MARION		OHIO			
GRADE	NUM	N	APA	POT	XS CL	RV	
2-20-18M	28771	4.3	20.6	16.9*		111	
9-18- 9M	28770	8.9	19.0	9.9		103	
NALL BROTHERS		VINE GROVE		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
9-23-30M	27642	7.6*	20.6*	35.0		96*	
NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
4-16- 4S	28164	4.7	15.4*	6.2		106	
4-16- 4S	28725	9.4	12.1*	8.6		127	
5-10-15S	27836	5.5	11.9	15.2		111	
5-10-15S	28631	6.2	10.9	13.5*		108	
5-10-15S	29037	5.0	10.0	16.5		103	
5-10-15S	29250	8.4	9.6*	11.5*		112	
5-10-15S	29362	6.1	10.1	13.8*	*	105	
5-20-20M	27567	5.7	21.2	22.0		108	
5-20-20M	27592	5.4	20.8	25.5		111	
5-20-20M	27712	6.7	24.4	16.7*		114	
5-20-20M	27831	5.7	22.2	20.5		109	
5-20-20M	28161	4.9	19.5*	20.1		98	
5-20-20M	28191	5.4	20.6	20.8		104	
5-20-20M	28464	4.7*	17.9*	21.3		95*	
5-20-20M	29365	5.8	22.4	17.6*		107	
6-12-12M	28658	5.6*	15.0	14.9		114	
6-12-12M	29363	6.2	13.7	12.6		108	
6-24-24M	28466	5.5*	20.2*	27.8		94*	
6-24-24M	29039	6.5	24.4	24.2		103	
6-24-24M	29364	5.2*	20.2*	29.0		94*	
7-22-14M	27837	7.4	19.7*	13.0*		95*	
10-10-10M	27806	12.0	16.3	6.8*		125	
10-10-10M	28163	9.5*	7.9*	10.5		91*	
10-10-10M	28235	10.1	11.4	9.6*		104	
10-10-10M	28465	9.9	10.5	10.8		102	
10-10-10M	29038	9.7*	8.2*	11.0		94*	
10-10-10M	29249	10.5	16.9	8.6*		123	
10-10-10M	29501	10.1	8.3*	10.5		95*	
10-20-20M	27805	11.4	24.1	14.8*		108	
15-15-15M	29040	13.7*	11.9*	17.2		91*	
17- 6- 6M	29041	17.3	7.3	7.6		102	
20-10-10M	27578	18.8*	10.1	11.2		97*	
20-10-10M	27711	19.9	10.3	9.9		100	
20-10-10M	27750	18.5*	10.6	10.8		97*	
28- 0- 0	27561	28.9	0.0	0.0		103	
OHIO VALLEY FERTILIZER, INC.		MAYSVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-10-10M	28218	5.9	10.0	11.5		109	
5-10-10M	28544	7.1	10.3	12.0		120	
5-10-10M	29158	9.0	6.8*	14.7		123	
5-10-15S	28215	5.4	10.0	15.4		103	
5-10-15S	28331	5.7	9.1*	16.1		103	
5-10-20S W/ME	28211	7.3	11.0	16.5*		110	
5-20-20M	29161	6.5	17.6*	19.4*		99	
6- 6-18S	28213	10.3	11.4	15.4*		143	

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OHIO VALLEY FERTILIZER, INC.		MAYSVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-6-18S	28382	5.7	5.5*	18.8			98
6-6-18S	28387	10.8	11.9	16.0*			150
8-10-15S W/ME	28220	8.9	10.7	15.2			107
10-10-10M	28216	9.7*	12.6	11.7			110
10-10-10M	28332	10.6	9.7	11.0			104
10-10-10M	29160	11.4	7.8*	13.8			106
10-10-20S W/ME	28212	10.2	10.0	20.3			101
10-10-20S W/ME	29159	13.2	13.9	14.0*			116
12-12-12M	29156	11.7	9.9*	13.9			96*
OLIN CORP AGRI DIV		LITTLE ROCK		ARK.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-24-24M	27615	6.5	24.6	23.3*			102
6-24-24M	27625	6.6	23.0*	24.1			100
6-24-24M	27832	6.5	24.3	24.1			102
6-24-24M	28751	6.8	25.4	23.2*			105
33-0-0	28101	33.4	0.0	0.0			100
33-0-0	28126	33.9	0.0	0.0			101
J PETTY CO		GRACEY		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
3-9-24M	28999	2.8	8.8	25.0			100
6-20-20M	28766	7.3	19.5*	20.5			104
PHELPS FARM SERVICE		PADUCAH		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
5-21-21M	28772	6.4	22.5	20.0*			103
PHILLIPS PETROLEUM CO		INDIANAPOLIS		IND		XS CL	RV
GRADE	NUM	N	APA	POT			
82-0-0	29187	82.0	0.0	0.0			100
RICH POND CROP SERVICE		BOWLING GREEN		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
20-20-10M	28798	20.5	19.5*	10.3			100
21-9-9M	28799	20.8*	10.4	10.2			101
ROYSTER COMPANY		NORFOLK		VA.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-0-60M	28139	0.0	0.0	59.5			99
0-20-0	27992	0.0	19.9	0.0			99
0-20-20M	27994	0.0	22.0	19.6			106
0-25-25M	28434	0.0	26.0	23.0*			100
0-46-0	28140	0.0	46.0	0.0			100
0-46-0	29104	0.0	46.1	0.0			100
4-16-4S	27993	4.5	16.3	4.3	*		105
4-16-4S W/ME	29531	4.5	15.3*	4.6			101
5-10-15S	27673	4.9	9.4*	14.6*			96*
5-10-15S	27811	4.9	10.0	15.4			103
5-10-15S W/ME	27846	5.1	10.2	14.9			101
5-10-15S W/ME	27897	4.1*	9.4*	14.6*			91*
5-10-15S W/ME	27988	4.6*	10.1	13.7*			95*
5-10-15S W/ME	27989	4.6*	9.3*	14.1*			93*
5-10-15S W/ME	28129	4.1*	9.5*	14.5*			91*
5-10-15S W/ME	28130	5.1	9.6*	15.9			101
5-10-15S W/ME	28305	5.1	9.7*	13.8*			96*
5-10-15S W/ME	28311	5.9	10.5	15.3			108
5-10-15S W/ME	28312	4.9	9.7*	15.8			100
5-10-15S W/ME	28389	5.4	10.1	16.0			105
5-10-15S W/ME	28411	5.2	9.7*	13.6*			97*
5-10-15S W/ME	28412	5.4	9.6*	15.4			101
5-10-15S W/ME	28413	4.8	8.7*	13.5*			90*
5-10-15S W/ME	28584	5.3	10.6	14.3*			103

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

ROYSTER COMPANY			NORFOLK		VA.		
GRADE		NUM	N	APA	POT	XS CL	RV
5-10-15S	W/ME	28652	5.0	9.3*	14.9		97*
5-10-15S	W/ME	28691	5.0	9.8	15.7		100
5-10-15S	W/ME	28726	5.2	9.7	15.8		102
5-10-15S	W/ME	28734	5.1	10.0	15.0		100
5-10-15S	W/ME	28802	4.8	9.8	15.4		98
5-10-15S	W/ME	28961	5.2	10.2	15.3		102
5-10-15S	W/ME	28964	5.1	9.8	15.0		100
5-10-15S	W/ME	29241	4.6*	10.3	14.4*		98
5-10-15S	W/ME	29243	5.5	10.1	14.0*		101
5-10-15S	W/ME	29400	5.3	10.4	15.1		104
5-10-15S	W/ME	29411	5.3	10.0	15.5		103
5-10-15S	W/ME	29412	5.2	9.9	15.5		102
5-10-15S	W/ME	29500	5.2	10.0	15.2		102
5-10-15S	W/ME	29530	5.2	10.7	14.9	*	104
5-20-20M		27672	4.6*	19.8	18.8*		96*
5-20-20M		28293	3.6*	13.9*	23.8		83*
5-20-20M		28296	5.2	19.7	17.0*		96*
5-20-20M		28435	6.4	28.4	6.8*		111
5-20-20M		28612	6.9	25.4	15.5*		116
5-20-20M		28653	5.3	20.1	18.3*		99
5-20-20M		28703	4.9	20.6	19.0*		100
5-20-20M		28728	4.9	19.4*	19.0*		97*
5-20-20M		28962	4.9	19.8	19.9		99
5-20-20M		29084	4.8	20.7	21.2		103
5-20-20M		29242	6.1	19.6	18.9*		102
5-20-20M		29459	5.5	20.1	17.0*		98
6-12-12M		27565	5.4*	10.4*	12.3		91*
6-12-12M		27676	7.3	14.4	11.4*		115
6-12-12M		27696	6.2	12.9	11.9		104
6-12-12M		27995	5.7	12.3	12.3		100
6-24-24M		29369	6.7	24.0	21.4*		99
7-28-14M	W/ME	29370	6.0*	26.0*	15.7		94*
9-18-18M		27857	7.0*	15.0*	20.0		87*
9-18-18M		27932	9.1	17.8	18.2		100
9-18-18M		27933	9.1	18.3	18.2		101
9-18-18M		27934	8.6*	14.8*	17.8		90*
9-18-18M		28294	10.2	19.6	15.0*		105
9-18-18M		28295	9.2	16.3*	17.9		96*
9-18-18M		28409	9.7	19.0	17.9		105
9-18-18M		29028	8.3*	18.5	18.7		99
9-18-18M		29444	10.0	20.7	14.0*		105
9-34-7M	W/ME	28864	9.0	34.0	8.3		101
10-10-10M		27894	9.6*	8.3*	16.0		102
10-10-10M		27990	10.4	11.4	8.0*		103
10-10-10M		27998	11.4	12.9	5.9*		110
10-10-10M		28232	10.3	11.5	11.5		109
10-10-10M		28304	11.7	12.2	6.7*		110
10-10-10M		28313	9.5*	10.6	12.5		104
10-10-10M		28410	7.5*	6.0*	13.8		80*
10-10-10M		28462	10.7	10.4	10.9		106
10-10-10M		28651	11.2	11.7	7.6*		107
10-10-10M		28729	9.9	10.2	11.5		102
10-10-10M		28960	9.9	10.2	13.0		105
10-10-10M		28963	10.0	10.5	11.4		104
10-10-10M		29027	10.0	11.0	9.9		103
10-10-10M		29083	9.9	10.0	10.9		101
10-10-10M		29102	8.8*	8.0*	9.3*		86*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

ROYSTER COMPANY		NORFOLK		VA.		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10M	29103	9.2*	10.6	11.0			99
10-10-10M	29399	9.2*	10.5	11.8			100
10-10-10M	29428	9.7	10.9	10.9			103
10-10-10M W/ME	27893	8.5*	7.4*	14.0			91*
10-10-15S	27571	10.0	10.6	15.8			103
10-10-15S W/ME	27996	9.9	10.2	14.9			100
10-10-15S W/ME	28690	9.3*	10.1	13.4*			95*
10-10-15S W/ME	28727	9.3*	10.3	14.1*			96*
10-10-15S W/ME	28972	9.3*	10.1	14.9			97*
10-10-15S W/ME	29085	8.4*	10.2	15.4	*		94*
10-16-16M	28585	10.3*	20.8	13.3*			107
10-34- 0	27669	9.9	33.4*	0.0			98
12-12-12M	28128	9.7*	8.7*	16.0			87*
12-12-12M	29029	11.9	12.4	12.8			102
12-12-12M	29413	11.4*	13.2	11.9			101
12-24-24M	27804	12.4	27.1	21.0*			104
12-24-24M	27991	9.7*	18.8*	30.5			90*
12-24-24M	27997	10.6*	20.0*	29.0			93*
12-24-24M	28704	10.4*	18.7*	28.4			90*
15-12- 0	28138	15.7	12.7	0.0			105
15-15-15M	28463	14.4*	13.8*	15.2			95*
18-46- 0	28137	18.2	46.0	0.0			100
30- 0- 0	29533	28.9*	0.0	0.0			96*
82- 0- 0	29442	82.1	0.0	0.0			100
ROYSTER COMPANY		UTICA		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
3-10-30M	27808	3.1	10.7	31.2			105
3-10-30M	28578	3.1	9.8	32.7			104
3-10-30M	28795	3.0	9.9	31.0			101
6-18-18M	29185	5.9	18.6	18.6			102
6-18-18M	29439	5.7*	18.6	18.2			101
7-22- 3M	28995	7.3	22.5	3.5			103
10-34- 0	29186	9.4*	33.4	0.0			97*
32- 0- 0	29184	31.6	0.0	0.0			99
W M RUDY & SON		BANDANA		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-18M	28595	6.8	11.5*	17.9			102
14-14-14M	28594	15.6	14.3	14.1			106
SANDUSKY MILLS INC		HARRODSBURG		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
5-20-20M	28737	5.5	20.2	20.3			103
10-10-10M	29062	9.5*	9.8	10.3			97*
14- 0-34M	28716	12.3*	0.0	35.5			94*
SCOTTSVILLE FERTILIZER CO		SCOTTSVILLE		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	28808	7.8	15.7	11.7*			133
8-26-26M	29130	7.4*	24.9*	25.9			96*
8-26-26M	29131	8.2	27.5	25.9			103
10- 9- 9M	28807	13.3	11.9	9.5			119
10-10-10M	28375	11.1	10.8	10.3			108
SMITHS GROVE FERTILIZER CO		SMITHS GROVE		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-19-19M	28177	0.0	19.2	22.5			107
5-17-17M	28903	9.0	26.3	20.9			148
5-20-20M	28902	6.1	23.6	18.0*			111
9- 9- 9M	28588	11.0	11.9	10.4			118
10-10-10M	28587	11.3	14.0	11.4			122

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)

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

SMITHS GROVE FERTILIZER CO		SMITHS GROVE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
10-20-20M	27645	9.3*	17.5*	23.7		96*
13-11- 8M	28586	13.4	13.6	8.0*		106
SOUTHEAST CHEMICAL CO		LONDON KY				
GRADE	NUM	N	APA	POT	XS CL	RV
33- 0- 0	27800	34.0	0.0	0.0		103
33- 0- 0	28116	33.4	0.0	0.0		100
SOUTHERN STATES COOP., INC.		RICHMOND VA.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-46- 0	28769	0.0	46.9	0.0		102
0-46- 0	29061	0.0	46.3	0.0		101
0-46- 0	29078	0.0	46.1	0.0		100
0-46- 0	29101	0.0	46.4	0.0		101
SOUTHERN STATES COOP., INC.		LOUISVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-46- 0	27758	0.0	45.9	0.0		100
4-12- 8M	27591	4.2	11.5*	8.9		101
4-16- 4S	27910	4.2	15.9	4.7		102
4-16- 4S	27946	4.1	15.1*	5.3	*	99
4-16- 4S	28087	4.1	16.1	4.5		102
4-16- 4S	28190	4.6	15.7	4.7		104
4-16- 4S	28303	4.8	15.7	4.7		105
5-10-15S	28302	5.9	11.0	14.9		109
5-10-15S	29082	5.1	10.1	16.1		103
5-10-15S	29143	5.1	10.3	16.0		103
5-10-15S	29231	5.2	10.6	16.0		105
5-20-20M	27716	5.3	20.9	20.8		105
5-20-20M	29142	5.4	20.5	20.5		104
5-20-20M	29398	5.1	20.4	19.9		101
6- 6-18S	29327	6.3	6.4	18.4		104
6-12-12M	27715	6.0	12.0	12.6		101
8-10-15S	27898	8.4	10.0	15.3		102
8-10-15S	27931	8.3	9.9	15.3		101
8-10-15S	28423	8.5	10.6	15.2		105
8-10-15S	29144	8.5	10.4	14.4*	*	103
8-10-15S	29329	8.3	10.4	15.4		103
10-10-10M	27594	10.2	10.0	10.4		101
10-10-10M	27680	10.0	10.0	11.0		101
10-10-10M	27867	10.2	10.1	10.7		102
10-10-10M	27930	10.5	10.1	10.5		104
10-10-10M	28424	10.2	11.1	10.2		105
10-10-10M	29145	10.3	10.2	10.6		103
10-10-10M	29328	10.5	10.1	10.9		104
11-11-11M	29026	11.7	12.5	11.7		108
14-14-14M	29021	14.7	15.5	14.1		106
14-14-14M	29025	14.8	13.6*	15.0		103
17-17-17M	29022	17.0	16.9	19.4		102
19-19-19M	29024	19.4	18.3*	21.2		102
33- 0- 0	27760	32.9	0.0	0.0		98
34- 0- 0	28283	34.1	0.0	0.0		99
SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-60M	28282	0.0	0.0	59.6		99
0-15-30M	27744	0.0	14.9	31.4		102
0-20-20M	27955	0.0	19.5*	18.3*		96*
0-20-20M	29215	0.0	20.1	20.0		100
0-20-20M	29416	0.0	21.8	18.2*		103
4-12- 8M	27947	4.3	12.0	8.2		103

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)  
Analyses deficient more than tolerance and relative values of 97 per-  
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SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
4-12- 8M	27967	4.9	11.4*	10.5		109
5-10-15S	27834	5.1	9.9	14.9		100
5-10-15S	27900	5.2	10.2	14.9		102
5-10-15S	27904	5.1	10.3	14.5*		101
5-10-15S	27943	5.5	9.5*	14.9		101
5-10-15S	27966	5.3	9.9	15.1		101
5-10-15S	27974	5.0	9.8	15.4		100
5-10-15S	28089	5.0	9.7*	14.9		99
5-10-15S	28113	5.4	10.5	15.6		105
5-10-15S	28136	5.8	9.8	15.0		104
5-10-15S	28150	5.5	10.8	14.6*		105
5-10-15S	28160	5.4	10.0	14.9		102
5-10-15S	28188	5.4	10.2	14.6*		102
5-10-15S	28436	6.2	9.7	15.7		107
5-10-15S	28699	5.7	10.8	14.4*		106
5-10-15S	28736	5.3	9.8	15.0		101
5-10-15S	28985	5.3	10.4	15.4		104
5-10-15S	29228	5.1	10.8	15.2		104
5-10-15S	29417	5.3	10.1	14.9		101
5-10-15S	29425	5.0	10.3	14.9		101
5-10-15S	29446	4.8	10.6	14.9		101
5-15- 5M	28849	5.3	15.6	5.7		105
5-15- 5M	29492	5.1	15.7	5.4		104
5-20-20M	27679	5.1	21.5	20.4		105
5-20-20M	27683	5.3	21.3	19.9		105
5-20-20M	27732	5.2	20.9	20.4		103
5-20-20M	27818	4.9	18.8*	20.5		97*
5-20-20M	27874	5.4	19.4*	20.7		101
5-20-20M	27882	5.2	21.9	18.6*		104
5-20-20M	27902	5.4	20.0	19.1*		100
5-20-20M	27906	5.4	20.1	20.3		102
5-20-20M	27908	5.2	20.4	19.6		101
5-20-20M	27944	5.2	20.5	19.5*		101
5-20-20M	27965	5.0	20.2	20.6		102
5-20-20M	27973	5.4	20.7	19.3*		102
5-20-20M	28055	5.1	22.0	16.1*		101
5-20-20M	28056	5.1	22.3	15.9*		101
5-20-20M	28067	5.1	19.7	20.2		100
5-20-20M	28110	5.0	17.9*	21.3		96*
5-20-20M	28165	5.7	18.7*	21.3		101
5-20-20M	28381	5.5	20.3	19.2*		101
5-20-20M	28474	5.5	20.0	20.0		102
5-20-20M	28525	5.8	19.7	19.5*		101
5-20-20M	28806	5.3	20.5	19.1*		101
5-20-20M	28815	5.5	21.4	18.1*		103
5-20-20M	29068	5.3	19.5*	20.4		100
5-20-20M	29216	5.6	20.1	19.9		102
5-20-20M	29394	5.5	18.6*	21.0		100
5-20-20M	29491	5.3	20.2	19.9		102
6-12-12M	27651	6.0	12.2	13.1		103
6-12-12M	27733	6.0	12.8	10.6*		101
6-12-12M	27816	5.7	12.2	12.2		100
6-12-12M	27845	6.7	12.0	11.0*		102
6-12-12M	27855	6.6	11.9	11.5*		101
6-12-12M	27891	6.4	11.5*	13.0		102
6-12-12M	27903	6.0	11.7	11.1*		97*
6-12-12M	27972	6.1	12.3	11.4*		101



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	27977	5.9	12.5	11.2*		100
6-12-12M	28066	6.2	12.2	12.3		102
6-12-12M	28187	6.4	12.6	11.0*		102
6-12-12M	28473	6.8	11.4*	13.1		104
6-12-12M	28813	6.4	12.1	11.5*		101
6-12-12M	28814	6.5	12.0	11.6*		102
6-12-12M	29229	6.7	12.5	10.9*		104
6-12-18S	27872	5.7*	13.0	16.3*		99
6-12-18S	27964	6.3	12.3	17.7		102
6-12-18S	28088	6.2	12.2	17.7		101
6-12-18S	28111	6.4	11.6*	18.4		101
6-12-18S	28252	6.8	12.0	18.1		104
6-12-18S	28263	6.6	12.2	18.1		103
6-12-18S	28371	6.6	12.3	17.5*		103
6-24-24M	27950	6.4	25.2	23.5*		103
6-24-24M	28029	6.4	24.0	23.7		101
6-24-24M	28049	6.3	25.1	23.9		103
6-24-24M	28173	6.6	25.9	21.4*		103
6-24-24M	28189	6.3	22.1*	25.8		99
10-10-10M	27817	9.2*	10.4	9.9		97*
10-10-10M	27861	9.9	10.1	10.0		99
10-10-10M	27907	10.1	9.8	10.4		100
10-10-10M	27909	9.7	10.6	9.9		100
10-10-10M	27919	10.2	9.8	10.3		101
10-10-10M	27945	10.7	9.7*	10.7		103
10-10-10M	27963	9.8	9.7	10.1		98
10-10-10M	27975	9.9	9.8	10.1		99
10-10-10M	28057	9.7	10.7	8.9*		99
10-10-10M	28112	10.3	9.3*	10.5		100
10-10-10M	28149	10.0	9.8	11.0		101
10-10-10M	28166	10.3	10.1	10.4		102
10-10-10M	28262	11.0	9.8	10.1		104
10-10-10M	28660	10.1	11.0	10.0		104
10-10-10M	28708	10.0	10.0	10.2		100
10-10-10M	28747	9.3*	10.9	10.6		101
10-10-10M	29345	10.0	10.1	10.8		101
10-10-10M	29445	10.4	9.5*	11.2		102
SOUTHERN STATES COOP., INC.		WINCHESTER KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
4-16-4S	28109	4.1	15.1*	5.0		99
5-10-15S	28874	5.2	10.8	15.3		105
5-20-20M	27616	5.3	20.6	19.5*		102
5-20-20M	27640	5.1	20.4	19.0*		100
5-20-20M	28328	5.8	19.5*	19.6		101
5-20-20M	28638	5.4	20.9	18.8*		102
5-20-20M	28875	5.2	21.1	20.1		104
6-6-18S	29176	6.3	6.0	18.1		102
6-6-18S	29429	6.3	6.1	18.0		102
6-12-12M	27899	6.4	11.5*	12.8		102
6-12-18S	28329	6.8	12.5	18.1		106
6-24-24M	28639	6.8	25.7	21.1*		103
8-10-15S	28016	7.9	10.4	15.0		101
8-10-15S	29230	8.3	10.6	15.0		104
10-10-10M	27562	9.9	10.2	10.9		102
S. S. BARDSTOWN COOP.		BARDSTOWN KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-36M	28427	5.0	17.4*	40.2		97*

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S. S. BARDSTOWN COOP.		BARDSTOWN		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
7-15-20S	28733	7.2*	15.6	24.0	*		101
7-23-15M	28732	7.1*	25.2	16.3			103
8-21-32M	28428	9.4	23.2	31.0*			106
16- 0-30M	29147	17.6	0.0	29.0*			102
20-12-16M	28429	20.2	11.9	18.8			102
S S COOP-CALDWELL SERVICE		PRINCETON		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-26M	27824	0.0	27.1	26.2			103
6-26-25M	29005	12.8	8.9*	26.2			83*
17-16-16M	28485	18.1	17.1	17.5			104
S. S. CAMPRELLSVILLE COOP.		CAMPBELLSVILLKY		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
17-17-17M	28443	18.9	21.4	14.9*			108
S. S. GLASGOW COOP.		GLASGOW		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-20-20M	28914	6.4*	20.6	22.3			100
7-14-22M	28915	8.9	15.7	20.0*			105
13-13-13M	28912	12.8*	15.2	14.9			102
17-17-17M	28913	17.2*	18.4	17.9			100
S. S. GREENVILLE SERVICE		GREENVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
22-11-11M	28787	22.3	12.6	11.5			103
S. S. HARDIN COOP.		ELIZABETHTOWNKY		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
17-17-17M	29319	17.7	19.1	17.8			102
S. S. HENDERSON COOP.		HENDERSON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-23-30M	28860	0.0	24.5	29.0*			102
0-23-30M	28861	0.0	23.9	30.2			103
10-10- 9M	27682	8.5*	13.0	11.8			105
17-17-17M	28402	18.1	16.0*	18.0			101
S. S. HOPKINSVILLE COOP.		HOPKINSVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
17-17-17M	28848	17.0*	18.0	19.8			100
S. S. HORSE CAVE COOP.		HORSE CAVE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-26-26M	28155	10.0	26.9	26.0			113
7-33-15M	29318	14.7	13.7*	16.6			83*
25- 8- 8M	28819	22.5*	11.3	14.0			101
S. S. LEBANON COOP.		LEBANON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-21-21M	28715	5.8	23.1	21.1*			103
14-14-14M	28714	14.7	16.2	14.0*			102
S S MADISONVILLE COOP		MADISONVILLE		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-23-30M	28859	0.0	24.3	29.9			103
9-27- 5M	27584	11.5	23.8*	2.8*			99
9-27- 5M	27827	10.2	22.4*	2.8*			91*
10-26-24M	29053	10.5	26.5	25.5			100
S. S. MORGANFIELD COOP.		MORGANFIELD		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-26M	28872	0.0	26.0	27.5			102
30- 0- 0	29002	31.3	0.0	0.0			104
S. S. OWENSBORO COOP.		OWENSBORO		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
10-24-24M	29165	10.8	22.5*	25.2			99
14-21-21M	28576	13.5*	21.7	21.2			98

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)**  
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S. S. SHELBYVILLE COOP.		SHELBYVILLE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0-17-35M	28941	0.0	18.0	35.6		102
15-14-14M	28942	16.1	14.4	13.8*		102
15-14-14M	28943	15.6	14.7	14.5		102
22- 0-19M	28944	22.7	0.0	19.8		101
S. S. SOMERSET COOP.		SOMERSET		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
0-28-22M	28977	0.0	27.8	23.5		100
18-17-17M	28976	17.5*	16.4*	19.5		98
S. S. TODD SERVICE		ELKTON		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
2-24-24M	28858	1.8	27.3	22.9*		105
23- 0-20M	28857	21.9*	0.0	21.5		98
SPENCER FARM SERVICE		TAYLORSVILLE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
22- 5-15M	29146	17.9*	8.0	18.6		96*
SPRINGFIELD FARMERS SERVICE		SPRINGFIELD		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
10-17-17M	29426	10.8	18.0	17.9		101
14-11-17M	29427	14.4	11.6	16.4*		101
STANLEY CROP SERVICE		STANLEY		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0-15-40M	29046	0.0	15.7	40.5		102
6-12-18S	28577	7.2	14.4	17.3*		113
6-26-26M	28796	6.9	27.4	24.5*		104
6-26-26M	29047	6.0	26.6	25.9		101
9-23-30M	29045	9.5	24.3	28.6*		103
STEWART FERTILIZER SERVICE		MT. VERNON		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
4-16- 4S	28133	4.7	14.5*	5.8		102
5-10-15S	28698	5.1	10.0	15.3		101
5-10-15S	29342	6.3	10.2	12.0*		102
5-10-15S	29344	4.8	7.6*	17.7		94*
5-20-20M	27823	5.7	25.1	14.1*		109
5-20-20M	29541	7.9	19.8	17.6*		108
10-10-10M	29343	10.5	10.4	11.3		106
10-10-10M	29542	10.3	11.7	10.1		107
16-16-16M	28035	16.2	16.3	15.4*		100
SWIFT AGRI CHEM CORP		CHICAGO		ILL		
GRADE	NUM	N	APA	POT	XS CL	RV
4-12- 8M	28015	3.9	14.0	9.0		111
4-12- 8M	28613	3.9	13.2	8.1		105
5-10-15S	27576	4.9	11.4	15.9		107
5-10-15S	28014	5.1	14.5	14.9	*	118
5-10-15S	28740	5.0	10.9	15.6	*	105
5-10-15S W/ME	27577	5.1	11.6	16.2		110
5-20-20M	28068	5.3	19.7	19.3*		99
5-20-20M	28519	4.9	20.0	19.2*		99
5-20-20M	28520	4.6*	20.1	18.1*		96*
5-20-20M	28702	5.1	19.4*	19.0*		97*
5-20-20M	29018	4.2*	19.8	19.9		96*
5-20-20M W/ME	29452	4.7*	20.9	21.0		102
6-12-18S W/ME	28058	6.4	14.0	20.4	*	112
6-12-18S W/ME	28617	6.4	13.4	17.9		106
6-12-18S W/ME	29181	5.9	13.8	17.9		105
6-24-24M	29472	5.5*	23.3*	24.8		98
10-10-10M	28059	10.4	15.3	11.9		123
10-10-10M	28659	10.7	16.5	12.1		128

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SWIFT AGRI CHEM CORP		CHICAGO		ILL		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10M	28739	10.5	16.5	12.3			128
10-10-10M	29034	9.9	10.1	12.3			103
10-10-10M	29547	9.1*	8.1*	9.4*			88*
14-14-14M W/ME	29081	13.4*	15.5	13.9			101
18- 4- 8M W/ME	27393	16.3*	5.9	9.2			100
SWIFT AGRICULTURAL CHEM CORP		CINCINNATI		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25M	27601	0.0	21.3*	25.0			90*
0-25-25M	27687	0.0	19.4*	24.0*			84*
0-25-25M	27688	0.0	21.8*	23.6*			89*
0-25-25M	27735	0.0	24.2*	20.5*			92*
0-25-25M	28701	0.0	23.0*	25.8			96*
4-12-12M	27646	3.2*	11.2*	13.3			95*
5-20-20M	27582	5.0	19.8	20.1			99
5-20-20M	27666	5.8	21.0	21.4			108
5-20-20M	27675	4.9	19.4*	19.5*			97*
5-20-20M	28625	4.5*	19.8	18.5*			95*
5-20-20M	28628	4.4*	20.4	19.9			98
5-20-20M	28700	4.5*	20.3	20.7			100
5-20-20M	29457	4.4*	19.9	20.4			98
6-12-12M	27581	6.3	13.7	14.2			112
6-24-24M	28361	6.2	23.7	23.7			100
6-24-24M	29458	6.4	22.6*	21.2*			95*
10-10-10M	27647	9.8	9.8	10.7			99
10-10-10M	27674	9.0*	11.1	10.3			99
10-20-10M	27603	10.0	18.6*	8.1*			94*
12-12-12M	27803	11.3*	13.2	11.9			101
12-24-24M	27602	11.1*	22.9*	22.5*			94*
SWIFT FARM CENTER		E BERNSTADT KY		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-23-30M	29182	0.0	21.3*	32.6			99
4-12- 8M	28626	5.7	16.4	8.9			134
4-12- 8M	29519	3.9	12.5	9.0			104
5-10-10M	29516	4.8	10.9	11.5			106
10-10-10M	28624	10.6	12.1	11.2			112
10-10-10M	29517	9.8	10.6	10.1			101
12-12-12M	29518	12.0	11.4*	11.9			98
SWIFT AGRICULTURAL CHEM CORP		FAIRMONT		ILL		XS CL	RV
GRADE	NUM	N	APA	POT			
6-24-24M	28566	6.0	24.3	22.4*			99
6-24-24M	28844	5.8	24.6	24.1			101
SWIFT AGRICULTURAL CHEM CORP		HOPKINSVILLE KY		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
4-12- 8M	29535	4.3	12.7	8.7			107
4-12-12M	27659	4.5	13.1	12.1			108
5-10-15S	28477	5.1	11.9	15.7			109
5-10-15S	28757	4.9	11.5	14.9			105
5-10-15S	28785	4.9	12.0	15.3			108
5-10-15S	29475	5.8	11.6	13.5*	*		108
5-10-15S	29538	5.4	10.9	15.7			108
5-20-20M	27798	4.6*	21.2	22.0			104
5-20-20M	28786	5.9	21.1	18.9*			105
5-20-20M	28901	4.4*	17.7*	19.9			91*
5-20-20M	29006	4.4*	20.6	21.5			101
5-20-20M	29476	5.1	21.2	17.9*			101
5-20-20M W/ME	28759	4.5*	16.3*	18.6*			86*
6-12-12M	28898	6.6	13.9	13.8			114

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SWIFT AGRICULTURAL CHEM CORP		HOPKINSVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	29474	7.3	17.5	14.1		131
6-12-18S	28899	4.9*	8.3*	12.2*	*	73*
6-12-18S W/ME	27572	4.7*	19.2	22.8	*	125
6-12-18S W/ME	28143	5.1*	12.9	18.9		100
6-12-18S W/ME	28554	8.0	13.7	12.8*	*	107
6-12-18S W/ME	29121	5.8	13.0	14.8*		97*
6-24-24M	28479	5.8	24.5	24.6		101
6-24-24M	29536	6.4	24.4	21.9*		100
10-10-10M	27660	8.8*	11.0	11.4		99
10-10-10M	28186	9.8	12.1	11.2		108
10-10-10M	28478	10.1	10.9	12.2		107
10-10-10M	28555	9.4*	12.1	11.4		106
10-10-10M	28784	10.2	11.5	11.5		108
10-10-10M	28897	12.8	12.6	11.1		124
10-10-10M	28900	7.4*	8.6*	11.5		85*
10-10-10M	29473	10.1	13.1	10.1		111
10-10-15S W/ME	28760	9.4*	10.0	14.9		97*
10-20-20M	27799	11.9	25.9	16.3*		115
12-24-24M	28758	11.5*	21.9*	20.6*		91*
15-15-15M	29537	14.6	16.3	14.6*		101
82- 0- 0	29553	82.0	0.0	0.0		100
TENNESSEE FARMERS COOP.		LAVERGNE TENN				
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M W/ME	29267	0.0	21.1	20.3		104
6-12-12M	29270	5.5*	11.8	12.5		97*
TODD COUNTY GRAIN CO.		ELKTON KY				
GRADE	NUM	N	APA	POT	XS CL	RV
13-12- 9M	28489	11.8*	15.0	13.8		105
TOMPKINSVILLE FERTILIZER CO.		TOMPKINSVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
12-24-24M	27611	11.4*	23.3*	26.3		99
USS AGRI-CHEMICALS, INC.		ATLANTA GA.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-20- 0	27629	0.0	19.9	0.0		99
0-20- 0	28210	0.0	20.0	0.0		100
0-25-25M	28093	0.0	22.7*	23.8*		92*
0-25-25M	28209	0.0	21.5*	23.5*		89*
0-25-25M	28441	0.0	23.2*	25.9		96*
0-25-25M	28648	0.0	20.7*	23.2*		86*
0-25-25M	28867	0.0	25.0	26.0		101
0-46- 0	29076	0.0	43.2*	0.0		94*
3-12-24M	28272	3.6	11.9	20.1*		96*
4-12- 8M	29266	4.0	12.2	7.2*		99
5-10- 5M	29035	5.7	9.7*	5.8		105
5-10- 5S	27879	5.9	10.9	8.8	*	120
5-10- 5S	27960	5.7	9.8	6.5		108
5-10- 5S	27971	5.1	11.0	6.9	*	110
5-10-10M	27704	4.8	9.9	10.7		100
5-10-15S	27913	4.8	9.7*	15.6		99
5-10-15S	27969	5.4	9.5*	14.8		100
5-10-15S	28098	5.0	10.4	14.4*	*	100
5-10-15S	28100	5.0	10.5	15.2	*	102
5-10-15S	28170	5.7	9.9	13.9*		101
5-10-15S	28275	6.0	9.7	14.3*	*	104
5-10-15S	28469	5.1	10.4	14.9		102
5-10-15S	28707	5.2	10.2	15.0		102
5-10-15S	28984	5.0	10.4	15.8	*	103

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USS AGRICHEMICALS, INC.	ATLANTA	GA.		
GRADE	NUM	N	APA	POT
5-10-15S	29349	4.7	10.2	15.2
5-10-15S	29430	5.7	10.6	15.5
5-10-15S	29523	5.0	9.9	14.9
5-20-20M	27621	5.1	20.2	19.7
5-20-20M	27829	5.4	20.1	18.6*
6-12-12M	27628	5.9	12.3	12.7
6-12-12M	27705	5.9	12.1	12.0
6-12-12M	27784	6.0	11.9	12.6
6-12-12M	28095	6.8	11.5*	12.5
6-12-18S	27877	6.5	13.4	15.6*
6-12-18S	27914	5.3*	11.9	17.6*
6-12-18S	27970	6.5	12.6	16.6*
6-12-18S	28069	5.2*	12.2	19.0
6-12-18S	28094	5.9	11.8	17.4*
6-12-18S	28171	6.4	13.4	17.3*
6-12-18S	28255	6.8	13.7	17.9
6-12-18S	28268	6.4	12.1	17.9
6-12-18S	28706	5.5*	11.8	17.9
6-12-18S	29075	6.1	12.1	17.3*
6-12-18S	29545	5.9	12.6	16.3*
6-18-36M	27710	6.1	20.2	35.0*
6-18-36M W/ME	29433	6.0	18.6	35.2*
6-24-24M	28070	5.8	23.9	22.6*
6-24-24M	28091	5.9	24.6	22.5*
6-24-24M	28821	5.6*	23.2*	24.3
7-28-28M	27600	7.1	28.9	26.5*
7-28-28M	27620	6.9	27.7	28.1
7-28-28M	27622	6.5*	27.8	28.4
7-28-28M	27876	7.5	26.9*	28.2
7-28-28M	27959	7.2	28.2	27.9
7-28-28M	28026	7.1	28.5	26.8*
7-28-28M	28264	7.8	27.4*	27.9
7-28-28M	28273	7.4	28.2	28.2
7-28-28M	28274	7.7	28.2	26.7*
7-28-28M	28530	7.5	28.9	26.6*
8-16-16M	27741	7.4*	16.2	18.1
8-16-16M	28021	8.1	18.0	14.5*
8-16-16M	28092	7.9	15.9	15.8
8-24-24M	27880	7.0*	21.4*	18.8*
8-24-24M	28027	7.6*	22.4*	25.4
10-10-10M	27593	10.1	9.9	10.1
10-10-10M	27793	10.5	10.8	10.2
10-10-10M	27830	10.3	11.3	10.0
10-10-10M	27842	9.9	10.2	10.4
10-10-10M	27912	9.5*	10.6	14.7
10-10-10M	28022	9.7*	11.0	10.9
10-10-10M	28097	9.3*	11.3	12.5
10-10-10M	28172	10.4	10.0	9.9
10-10-10M	28350	10.7	10.5	9.9
10-10-10M	28527	9.6*	10.9	11.9
10-10-10M	28535	9.6*	10.3	10.3
10-10-10M	28820	10.0	9.9	11.8
10-10-10M	28830	10.0	10.5	10.4
10-10-10M	29455	9.1*	11.5	7.3*
10-10-20S	27786	9.9	9.2*	19.1*
10-10-20S	27838	8.8*	10.0	22.6
10-10-20S	28238	9.6*	11.2	19.6*

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USS AGRI-CHEMICALS, INC.		ATLANTA		GA.		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-20S	29178	9.4*	11.3	19.0*			100
11-27-22M	28176	11.7	23.5	19.4*			102
12- 4- 8M W/ME	29033	11.8	4.4	7.9			100
12-12-12M	28096	9.9*	11.7	13.3			92*
12-12-12M	28207	12.2	12.1	12.7			102
12-12-12M	29271	10.5*	12.9	14.3			99
12-12-18S	28208	11.7	13.0	18.3	*		102
14-14-14M	27599	14.1	14.7	13.9			102
14-14-14M	27783	13.9	15.0	14.9			103
15-40- 5M	28442	15.2	40.9	6.0			103
15-40- 5M	29434	15.9	40.3	5.1			103
33- 0- 0	27839	34.0	0.0	0.0			101
33- 0- 0	28071	33.4	0.0	0.0			100
USS AGRI-CHEMICALS, INC.		CHEROKEE		ALA.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-20-20M	27719	5.3	21.0	18.2*			101
5-20-20M	27721	5.2	19.0*	19.3*			97*
7-28-28M	27701	7.6	29.7	25.6*			103
7-28-28M	27702	7.2	29.2	26.7*			102
7-28-28M	27753	6.9	27.6	28.0			99
7-28-28M	27819	7.3	28.9	26.4*			101
7-28-28M	27820	7.6	28.5	26.0*			101
7-28-28M	27840	7.1	28.0	27.2*			99
7-28-28M	27841	7.0	28.2	28.0			100
7-28-28M	27951	7.0	28.3	27.5			100
7-28-28M	28181	7.2	27.0*	28.5			99
7-28-28M	28256	7.2	27.7	28.4			101
7-28-28M	28559	7.0	28.3	26.9*			100
7-28-28M	28574	7.1	28.1	27.9			101
7-28-28M	28756	7.2	27.7	28.0			100
7-28-28M	28779	7.3	27.4*	27.9			100
7-28-28M	28843	7.1	27.6	28.1			100
7-28-28M	28925	7.1	27.7	27.9			99
7-28-28M	29109	7.0	27.7	27.9			99
8-32-16M	27569	8.2	32.6	16.3			102
10-10-10M	27755	9.6*	10.5	10.9			101
14-14-14M	28928	13.9	14.5	14.3			101
15-40- 5M	28389	15.3	40.2	6.1			102
30- 0- 0	29004	30.2	0.0	0.0			100
82- 0- 0	29441	82.2	0.0	0.0			100
USS AGRI-CHEMICALS, INC.		CINCINNATI		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25M	28386	0.0	21.8*	23.3*			89*
5-10-15S	28119	4.9	9.7*	16.4			100
5-10-15S	28323	5.7	10.3	13.2*			102
5-10-15S	28324	5.4	10.5	15.3	*		105
5-10-15S	28547	5.4	10.4	15.0	*		104
5-10-15S	28552	5.4	10.6	14.9	*		104
5-10-15S	28630	5.0	10.7	14.9			103
5-10-15S	29226	5.0	10.8	15.4			104
5-10-15S	29465	5.1	10.6	15.2			103
5-10-15S	29512	5.2	10.5	15.7			104
5-20-20M	28384	6.0	20.6	18.7*			104
5-20-20M	28539	4.6*	18.7*	21.8			97*
5-20-20M	28546	5.7	20.8	18.8*			103
5-20-20M	29086	5.2	19.6	18.3*			98
5-20-20M	29415	5.1	19.6	19.9			99

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970–June 1971)  
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			
6-6-18S	28326	6.3	6.3	18.9			105
6-12-12M	29326	7.4	13.1	13.0			113
6-12-12S	29227	6.6	11.5*	12.4			102
6-12-18S	28314	7.2	11.9	17.3*			104
6-12-18S	28330	7.5	12.0	17.1*	*		106
6-12-18S	28385	6.3	11.7	17.9			100
6-12-18S	28537	5.9	12.9	17.9	*		102
6-12-18S	28550	6.5	11.7*	17.3*			100
6-12-18S	29088	5.9	11.4*	16.8*			95*
6-12-18S	29225	5.4*	12.7	17.9			99
6-12-18S	29414	6.6	12.6	17.9			105
7-28-28M	28118	7.2	26.8*	27.9			98
7-28-28M	28325	7.9	28.1	27.8			103
7-28-28M	28327	7.1	26.3*	29.2			98
8-16-16M	28538	6.5*	12.0*	16.1			82*
10-10-10M	28322	9.8	8.3*	14.5			101
10-10-10M	28637	9.6*	10.4	10.9			101
10-10-10M	29087	9.5*	10.4	10.8			100
10-10-20M	28380	9.4*	11.3	19.9			101
12-12-12M	29325	11.4*	12.5	12.6			100
12-12-18S	28321	11.8	13.3	18.1	*		102
12-12-18S	28636	11.7	13.3	17.2*			101
14-14-14M	28383	15.6	17.2	11.2*			110
USS AGRI-CHEMICALS		FRANKLIN		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
16-18-18M	28892	15.0*	19.0	19.7			99
20-14-14M	28893	20.0	12.9*	13.9			97*
USS AGRI-CHEMICALS INC		GUTHRIE		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
25-23-0	28610	25.0*	25.8	0.0			103
USS AGRI-CHEMICALS, INC.		JEFFERSONVILLIND.		POT	XS CL	RV	
GRADE	NUM	N	APA				
0-46-0	29495	0.0	46.1	0.0			100
5-10-5S	28084	5.4	10.9	6.6	*		111
5-10-15S	27848	4.6*	10.5	14.4*			98
5-10-15S	28037	5.6	11.1	17.1	*		112
5-10-15S	28038	4.5*	10.8	14.0*			98
5-10-15S	28309	6.2	11.3	14.6*	*		112
5-10-15S	28417	5.3	10.0	15.0			101
5-10-15S	28425	5.6	10.1	15.1			104
5-10-15S	28536	5.1	10.6	15.3			103
5-10-15S	29064	5.6	10.0	15.0			104
5-10-15S	29151	5.0	10.1	15.3			101
5-10-15S	29224	5.5	10.3	15.4	*		105
5-10-15S	29292	5.1	10.7	15.1			104
5-10-15S	29381	8.5	11.7	13.2*	*		124
5-10-15S	29408	5.4	10.8	15.0			106
5-20-20M	27638	4.9	20.7	19.4*			101
5-20-20M	27714	5.1	19.8	19.4*			99
5-20-20M	27847	5.4	19.0*	19.2*			98
5-20-20M	28307	5.9	19.1*	19.1*			100
5-20-20M	28743	6.0	17.6*	16.8*			93*
5-20-20M	28981	5.0	18.6*	19.9			96*
5-20-20M	29136	4.7*	19.3*	20.2			97*
5-20-20M	29138	4.5*	18.8*	20.9			96*
5-20-20M	29246	4.4*	19.7	19.9			97*
5-20-20M	29407	4.7*	19.1*	19.9			96*



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

USS AGRI-CHEMICALS, INC.		JEFFERSONVILLIND.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	29493	6.1	19.0*	17.0*		98
5-20-20M	29540	5.7	19.4*	18.0*		99
6-12-18S	27849	5.7	11.6*	17.5*		96*
6-12-18S	28414	6.5	11.6*	17.1*		99
6-12-18S	28426	5.6*	11.7	17.6		96*
6-12-18S	28722	5.8	13.7	18.8	*	106
6-12-18S	28742	7.1	12.1	17.0*		104
6-12-18S	28979	5.8	11.8	19.1		100
6-12-18S	29221	6.0	11.9	17.9	*	99
6-12-18S	29248	5.0*	10.6*	19.7		93*
6-12-18S	29293	5.5*	11.4*	18.8		96*
6-12-18S	29496	6.0	11.8	18.0		99
8-16-16M	27850	6.7*	16.6	18.9		100
10-10-10M	27639	9.6*	10.9	10.9		102
10-10-10M	28036	10.0	11.0	11.7		106
10-10-10M	28306	9.6*	10.1	10.8		99
10-10-10M	28745	9.8	10.4	11.3		102
10-10-10M	29063	10.3	9.6*	11.2		102
10-10-10M	29244	9.6*	12.4	10.8		107
10-10-10M	29382	5.8*	11.4	15.9		93*
12-12-12M	27812	11.0*	12.4	13.3		99
12-12-12M	28310	10.6*	13.2	13.7		100
12-12-12M	28954	11.4*	12.0	12.4		98
12-12-12M	29247	10.7*	12.7	12.7		98
12-12-12M	29494	11.0*	12.4	12.0		97*
12-12-18S	28308	12.1	14.2	17.3*	*	105
12-12-18S	28744	11.8	13.6	17.9	*	103
12-12-18S	28934	11.9	12.1	19.0		101
12-12-18S	28953	11.7	12.7	18.5		101
12-12-18S	28980	11.4*	12.0	17.9		97*
12-12-18S	29245	10.5*	12.3	18.9		96*
15-40-5M	29137	15.2	40.0	5.9		101
USS AGRI-CHEMICALS, INC.		NASHVILLE TENN				
GRADE	NUM	N	APA	POT	XS CL	RV
0-0-60M	28280	0.0	0.0	59.8		100
0-0-60M	28346	0.0	0.0	60.0		99
0-20-0	28290	0.0	19.4*	0.0		97*
0-25-25M	28927	0.0	23.8*	25.5		97*
0-26-26M	28276	0.0	26.3	25.9		101
0-46-0	28281	0.0	46.0	0.0		100
0-46-0	28348	0.0	45.9	0.0		100
3-12-6M	28811	3.9	10.6*	7.5		103
5-10-5S	28054	4.3*	10.8	5.7		100
5-10-5S	28277	5.7	10.9	8.8	*	119
5-10-10M	28254	5.2	9.8	10.0		100
5-10-15S	28287	6.1	9.6*	14.1*		103
5-10-15S	28573	6.0	10.3	15.3		108
5-10-15S	28809	5.5	9.4*	14.9		100
5-10-15S	28929	4.6*	10.4	15.9		101
5-10-15S	29504	5.1	10.4	15.8		104
5-20-20M	27607	5.4	18.6*	17.2*		94*
5-20-20M	27736	5.0	17.9*	18.4*		92*
6-12-12M	27658	5.8	11.0*	13.0		97*
6-12-12M	28184	6.4	11.2*	12.0		99
6-12-12M	28284	7.8	11.7*	12.3		109
6-12-12M	28336	6.5	11.1*	12.6		101
6-12-12M	28372	6.2	11.9	11.9		101

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

USS AGRI-CHEMICALS, INC.		NASHVILLE		TENN	XS CL	RV
GRADE	NUM	N	APA	POT		
6-12-12M	28803	6.2	11.6*	12.6		101
6-12-12M	29129	6.6	11.8	11.9		102
6-12-12M	29462	5.9	11.9	12.0		99
6-12-18S	28050	6.3	12.4	15.8*		99
6-12-18S	28142	6.2	13.2	16.7*		102
6-12-18S	28288	6.1	13.3	17.9		105
6-12-18S	28609	6.2	13.3	17.3*	*	104
6-12-18S	28926	6.2	11.5*	17.5*		98
6-12-18S	29128	6.1	11.4*	18.0	*	98
6-12-18S	29463	6.0	11.4*	16.9*		96*
7-28-28M	28286	7.6	28.4	26.1*		101
8-16-16M	27813	6.1*	16.4	21.5		101
8-24-24M	27606	7.9	23.3*	22.9*		97*
8-24-24M	27692	7.4*	21.3*	23.9		92*
8-24-24M	28024	8.0	22.8*	21.7*		95*
8-24-24M	28556	8.2	21.2*	20.5*		91*
8-24-24M	28582	9.0	23.4*	22.9*		101
8-24-24M	28846	8.2	24.4	22.9*		100
8-24-24M	29110	7.8	22.9*	24.4		98
8-24-24M	29485	7.9	21.8*	24.9		96*
10-10-10M	27653	10.1	9.5*	10.4		100
10-10-10M	27703	10.1	9.9	9.9		100
10-10-10M	28051	10.5	9.4*	9.9		100
10-10-10M	28183	10.8	9.9	10.1		104
10-10-10M	28185	10.2	10.2	10.5		102
10-10-10M	28285	10.8	9.4*	10.3		102
10-10-10M	29284	9.1*	10.8	9.0*		96*
14-14-14M	27657	13.5*	13.5*	16.1		100
14-14-14M	28052	15.0	16.4	12.5*		107
14-14-14M	28366	14.2	13.4*	13.9		99
14-14-14M	29111	14.1	14.5	14.0		102
18-46-0	28279	18.4	45.5	0.0		100
33-0-0	28053	33.7	0.0	0.0		101
USS AGRI-CHEMICALS INC		SCIENCE HILL KY		POT	XS CL	RV
GRADE	NUM	N	APA			
0-26-26M	28061	0.0	23.8*	28.8		98
17-17-17M	28060	17.5	18.1	16.9		103
17-17-17M	28978	18.1	19.2	16.0*		103
UNION FERTILIZER CO.		MORGANFIELD KY.		POT	XS CL	RV
GRADE	NUM	N	APA			
0-20-33M	27747	0.0	24.5	30.4*		107
0-24-28M	28871	0.0	23.1*	31.1		101
0-25-26M	28403	0.0	26.3	27.3		103
23-11-11M	28869	24.1	15.3	8.2*		107
23-11-11M	28870	22.2*	11.3	14.9		100
VOLUNTARY PURCHASING GROUPS		BONHAM TEX.		POT	XS CL	RV
GRADE	NUM	N	APA			
10-5-5M W/ME	28460	11.5	6.3	4.9		115
15-7-9M W/ME	28461	16.5	7.1	9.9		108
WARNER FERTILIZER COMPANY		SOMERSET KY.		POT	XS CL	RV
GRADE	NUM	N	APA			
0-25-25M	28018	0.0	23.8*	26.9		99
5-10-15M	28019	6.3	8.3*	15.0		101
5-10-15S	28152	5.0	11.0	16.5	*	107
5-10-15S	28517	6.2	12.0	15.1		115
5-20-20M	27631	1.4*	19.2*	19.7		83*
5-20-20M	27852	3.7*	20.6	18.8*		95*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1970-June 1971)**  
 Analyses deficient more than tolerance and relative values of 97 per-  
 cent or less indicated by asterisk.

WARNER FERTILIZER COMPANY		SOMERSET		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	27853	4.7*	19.6	20.4		98
5-20-20M	28242	6.0	22.3	17.1*		106
5-20-20M	28518	6.7	24.2	15.8*		113
5-20-20M	29263	5.0	20.9	19.5*		102
6-12-12M	27566	8.8	11.0*	18.6		124
6-12-12M	27851	6.0	12.9	12.0		103
6-12-12M	28154	7.1	11.3*	11.5*		103
6-12-12M	28959	7.2	13.5	11.9		112
6-12-12M	29268	6.4	14.2	15.8		117
8-12-16S W/ME	29260	9.0	16.6	16.0		119
10-10-10M	28151	9.9	12.6	11.4		111
10-10-10M	28968	11.1	12.2	10.9		114
10-10-10M	29262	9.5*	9.2*	11.7		98
10-10-20S	29261	10.4	13.6	19.9		112
12-12-12M	27568	20.5	14.7	12.2		143
12-12-12M	28153	12.4	13.5	11.6*		105
WEGRO INC.		GRAND RAPIDS OHIO				
GRADE	NUM	N	APA	POT	XS CL	RV
10- 6- 4M	27713	9.1*	6.2	4.2		95*
10- 6- 4M	28239	9.0*	5.2*	4.9		92*
10- 6- 4M	28553	11.2	7.7	5.0		117

TABLE 2 - Analyses of Inspection Samples of Organic Material.

SAMPLE NUMBER	MANUFACTURER, BRAND NAME	NITROGEN	AVAILABLE PHOSPHORIC ACID	SOLUBLE POTASH	PERCENT OF RELATIVE VALUE FOUND
<u>Agrico Chemical Co.</u>					
29278	Agrinite 7-0-0	7.4	---	---	106
<u>Bluegrass Plant Foods, Inc.</u>					
29437	Bluenite 7-0-0	5.8*	---	---	83*
<u>Burley Belt Fertilizer Co.</u>					
28002	Burlorganic 7-0-0	6.9	---	---	99
28219	Burlorganic 7-0-0	6.5*	---	---	93*
<u>Ohio Valley Fertilizer Inc.</u>					
29157	Mello Green 7-0-0	7.0	---	---	100
<u>USS Agri-Chemical Inc.</u>					
28099	Vertorganic 5-5-0	6.0	5.7	---	120
28289	Vertorganic 5-5-0	6.5	5.8	---	129

TABLE 3 - 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
Bluegrass Plant Foods, Inc. Cynthiana, Ky.	29255	0-20-20	0.57	0.25*
Bluegrass Plant Foods, Inc. Danville, Ky.	27634 29346	0-20-20 0-20-20	0.57 0.57	0.67 0.29*
Federal Chemical Co. Nashville, Tenn.	27796	0- 9-27	0.45	0.48
Glasgow Fertilizer Co. Glasgow, Ky.	27558	0-19-38	0.57	0.51*
Gro-Green Chemical Co. Shelbyville, Ky.	27398 29356	4-19-19 8-12-15	0.55 0.10	0.52 0.27M
McCauley Bros. Seed Co. Versailles, Ky.	29354	3- 0-21	0.38	0.21*
Southern States Coop., Inc. Russellville, Ky.	27744	0-15-30	0.45	0.51

TABLE 4 - 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 CO., MEMPHIS, TENNESSEE				
28421	10-10-20	MAGNESIUM	3.0000	2.9300
28421	10-10-20	IRON	0.5000	0.2700 *
BURLEY BELT CHEMICAL CO., LONDON, KENTUCKY				
28117	6-12-18	MAGNESIUM	2.0000	1.2500 *
28521	6-12-18	MAGNESIUM	2.0000	2.6200
28516	6-12-18	MAGNESIUM	2.0000	2.4800
COMMONWEALTH FERTILIZER CO., RUSSELLVILLE, KENTUCKY				
27780	6-24-24	MAGNESIUM	0.5000	0.3300 *
28445	7-21-10	MAGNESIUM	0.5000	0.0500 *
28490	5-20-20	MAGNESIUM	0.5000	0.4600
27780	6-24-24	IRON	0.1000	1.2900 M
28445	7-21-10	IRON	0.1000	0.1700
28490	5-20-20	IRON	0.1000	0.5300 M
27780	6-24-24	MANGANESE	0.0500	0.0100 *
28445	7-21-10	MANGANESE	0.0500	0.1700 M
28490	5-20-20	MANGANESE	0.0500	0.0400
27780	6-24-24	ZINC	0.0500	0.0100 *
28445	7-21-10	ZINC	0.0500	0.1400 M
28490	5-20-20	ZINC	0.0500	0.0490
FEDERAL CHEMICAL COMPANY, LOUISVILLE, KENTUCKY				
28081	10-10-15	MAGNESIUM	1.5000	1.8000
28467	10-10-15	MAGNESIUM	1.5000	1.7400
28081	10-10-15	COPPER	0.0500	0.0480
28467	10-10-15	COPPER	0.0500	0.2200 M
28081	10-10-15	ZINC	0.0500	0.0490
28467	10-10-15	ZINC	0.0500	0.0500

TABLE 4 - 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, TENNESSEE				
28257	10-10-15	MAGNESIUM	1.5000	1.6700
28260	4-16- 4	MAGNESIUM	0.5000	0.9100
28257	10-10-15	COPPER	0.0500	0.0420
28260	4-16- 4	COPPER	0.0500	0.0370 *
28257	10-10-15	ZINC	0.0500	0.0370 *
28260	4-16- 4	ZINC	0.0500	0.0340 *
OHIO VALLEY FERTILIZER INC., MAYSVILLE, KENTUCKY				
28211	5-10-20	MAGNESIUM	1.0000	0.5000 *
28212	10-10-20	MAGNESIUM	1.0000	0.5200 *
28220	8-10-15	MAGNESIUM	1.0000	0.4700 *
ROYSTER COMPANY, NORFOLK, VIRGINIA				
27811	5-10-15	MAGNESIUM	1.2000	1.5400
27846	5-10-15	MAGNESIUM	1.2000	1.0200 *
28129	5-10-15	MAGNESIUM	1.2000	2.2500
28130	5-10-15	MAGNESIUM	1.2000	1.1000
28305	5-10-15	MAGNESIUM	1.2000	2.1500
28311	5-10-15	MAGNESIUM	1.2000	1.1700
28312	5-10-15	MAGNESIUM	1.2000	1.2900
28389	5-10-15	MAGNESIUM	1.2000	2.5000 M
28411	5-10-15	MAGNESIUM	1.5000	2.5000
28412	5-10-15	MAGNESIUM	1.2000	1.5000
28413	5-10-15	MAGNESIUM	1.2000	2.5000 M
27811	5-10-15	COPPER	0.0500	0.0500
28129	5-10-15	COPPER	0.0500	0.0420
28311	5-10-15	COPPER	0.0500	0.0400
28389	5-10-15	COPPER	0.0500	0.0580
28412	5-10-15	COPPER	0.0500	0.0510

TABLE 4 - Results of Analyses of Secondary and Micro Nutrients in Fertilizer Reported in Table 1. An Asterisk Indicates a Deficiency. An "M" Indicates Misbranded.

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
ROYSTER COMPANY, NORFOLK, VIRGINIA (Cont'd.)				
27811	5-10-15	IRON	0.1000	0.1900
28129	5-10-15	IRON	0.1000	0.2300 M
28311	5-10-15	IRON	0.1000	0.2800 M
28389	5-10-15	IRON	0.1000	0.2500 M
28412	5-10-15	IRON	0.1000	0.2400 M
27811	5-10-15	MANGANESE	0.0500	0.0500
28129	5-10-15	MANGANESE	0.0500	0.0460
28311	5-10-15	MANGANESE	0.0500	0.0470
28389	5-10-15	MANGANESE	0.0500	0.0490
28412	5-10-15	MANGANESE	0.0500	0.0520
27811	5-10-15	ZINC	0.0500	0.0500
28129	5-10-15	ZINC	0.0500	0.0480
28311	5-10-15	ZINC	0.0500	0.0500
28389	5-10-15	ZINC	0.0500	0.0500
28412	5-10-15	ZINC	0.0500	0.0500
WIFT AGRICULTURAL CHEMICAL CORP., CHICAGO, ILLINOIS				
27577	5-10-15	MAGNESIUM	0.5000	1.9800 M
27577	5-10-15	COPPER	0.0500	0.0700
27577	5-10-15	IRON	0.1000	0.4700 M
27577	5-10-15	MANGANESE	0.0500	0.2000 M
27577	5-10-15	ZINC	0.0500	0.0700
WIFT AGRICULTURAL CHEMICAL CORP., HOPKINSVILLE, KENTUCKY				
28143	6-12-18	MAGNESIUM	0.5000	0.5000
28143	6-12-18	COPPER	0.0500	0.0240 *
28143	6-12-18	IRON	0.1000	0.3100 M
28143	6-12-18	MANGANESE	0.0500	0.0420
28143	6-12-18	ZINC	0.0500	0.0440

TABLE 4 - Results of Analysis 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
SWIFT AGRICULTURAL CHEMICAL CORP., NATIONAL STOCKYARDS, ILLINOIS				
27572	6-12-18	MAGNESIUM	0.0500	0.3200 M
27572	6-12-18	COPPER	0.0500	0.0120 *
27572	6-12-18	IRON	0.1000	0.4800 M
27572	6-12-18	MANGANESE	0.0500	0.0400
27572	6-12-18	ZINC	0.0500	0.0300 *
VOLUNTARY PURCHASING GROUPS, BONHAM, TEXAS				
28460	10- 5- 5	MAGNESIUM	2.2200	2.9400
28460	10- 5- 5	COPPER	0.0500	0.4900 M
28460	10- 5- 5	IRON	0.1000	0.3100 M
28461	15- 7- 9	IRON	1.0000	2.8500 M
28460	10- 5- 5	MANGANESE	0.0500	0.0800
28460	10- 5- 5	ZINC	0.0500	0.0420