

Regulatory Bulletin 206

**REPORT OF  
ANALYSES OF OFFICIAL  
FERTILIZER SAMPLES**

JULY 1969 - JUNE 1970



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This bulletin contains the results of analyses of 2,282 official samples of commercial fertilizer made during the period July 1, 1969 through June 30, 1970.

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

#### EXPLANATION OF TABLES

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

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

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

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

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

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

#### EXPLANATION OF CERTAIN COLUMNS

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

## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Agricultural Supply Company  
Industrial Drive  
Hopkinsville, Kentucky 42240

Agrico Chemical Company  
5050 Poplar Ave.  
Memphis, Tennessee 38101

T. R. Akridge & Son  
Fredonia, Kentucky 42411

Allensville Crop Service  
Allensville, Kentucky 42204

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

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

Arco Chemical Co.  
120 S. Riverside Plaza  
Chicago, Ill. 60606

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

Ballard County Coop.  
LaCenter, Kentucky 42056

Big Four Feed & Implement Co.  
Scottsville, Kentucky 42164

Bluegrass Plant Foods, Inc.  
Cynthiana, Kentucky 41031

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

Burley Belt Fertilizer  
Company  
Box 5150  
Lexington, Kentucky 40505

Burley Belt Chemical Co.  
Box 7  
London, Kentucky 40741

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

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

Cayce Lime & Fertilizer  
Route 4  
Fulton, Ky. 42041

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

Chevron Chemical Company  
940 Hensley Street  
Richmond, California 94801

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

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

City Services Industrial  
Chemicals Div.  
P. O. Drawer 50360  
Atlanta, Ga. 30302

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

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

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

Commonwealth Fertilizer Company  
Morgantown Road  
Russellville, Kentucky 42276

Crestline International  
Crestline, Ohio 44827



## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Jack Edge  
Fordville, Kentucky 42343

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

Elkton Crop Service  
Route 2  
Guthrie, Kentucky 42234

E-Z Flo Chemical Co.  
701 Koderly Dr.  
Columbus, Ohio 43228

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

Farmers Fertilizer Company  
Smith Grove, Ky. 42171

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

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

Federal Chemical Company  
646 Starks Building  
Louisville, Kentucky 40202

Franklin Crop Service  
Route 3  
Franklin, Kentucky 42134

Frasier Supply Company  
505 West Main Street  
Glasgow, Kentucky 42141

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

Glasgow Fertilizer  
Company  
Industrial Avenue  
Glasgow, Kentucky 42141

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

Graves County Soil Improvement  
Association  
Mayfield, Kentucky 42066

Green Valley Farm Supply Co.  
Island, Kentucky 42350

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

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

Hancock County Farm Supply  
Hawesville, Ky. 42348

Hercules Incorporated  
910 Market Street  
Wilmington, Del. 19899

Heritage House Products  
300 Union Commerce Building  
Cleveland, Ohio 44115

Hillenmeyer Nurseries  
Sandersville Rd.  
Lexington, Kentucky 40505

Howe-Hilliard Grain Company  
Mayfield, Kentucky 42066

Hutson Chemical Company  
103 Maple Street  
Murray, Kentucky 42071

International Minerals &  
Chemical Corporation  
Old Orchard Road  
Skokie, Illinois 60078

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

## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

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

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

Lawn-A-Mat Chem. & Equip. Co.  
Kennedy Ave.  
Blue Point, N. Y. 11715

Loretto Fertilizer Sales  
& Service  
Loretto, Kentucky 40037

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

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

Miles Farms  
Route 3  
Owensboro, Kentucky 42301

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

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

Moore-Hutcheson Co.  
Morgantown, Kentucky 42261

Morrison Farm Service  
Hodgenville, Kentucky 42748

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

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

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

\*Samples taken in Fall of 1969.

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

Otasco  
Box 885  
Tulsa, Oklahoma 74102

Pannell's Farm Service  
Route 3  
Madisonville, Ky. 42431

J. C. Petty Co.  
Route 1  
Gracey, Ky. 41143

Phillips Petroleum Company  
841 Adams Building  
Bartlesville, Oklahoma 74004

Richmond Farm Supply Inc.  
Box 567  
Richmond, Kentucky 40475

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

Sandusky Mill, Inc.  
Harrodsburg, Kentucky 40330

Schochoh Crop Service  
Route 5  
Russellville, Ky. 42276

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

Scottsville Fertilizer Co.  
Scottsville, Ky. 42164

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

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

Spencer Farm Service  
Taylorsville, Kentucky 40071

Springfield Farmers Service  
Springfield, Kentucky 40069



COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Stanley Crop Service  
Stanley, Kentucky 42375

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

Swift Agricultural  
Chemical Corporation  
2 North Riverside Plaza  
Chicago, Ill. 60606

Taylor Seed Company  
Georgetown, Ky. 40324

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

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

Union Fertilizer Company  
Morganfield, Ky. 42437

Vistron Corp.  
Box 628  
Lima, Ohio 45802

Voluntary Purchasing Groups  
Box 640  
Bonham, Texas 75418

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

## COMPUTING COEFFICIENT OF VARIATION

The listing on pages 11 thru 18 shows the average analysis and coefficient of variation for each grade where two or more samples of a grade are reported. These data also show the average percentage of guarantee and the coefficient of variations for all grades reported for a company, or plant, when more than one plant is listed and ten or more samples are reported.

The listing on pages 19 thru 21 is a summary of the average percentage of guarantee and the coefficient of variation by plant and company.

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

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

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

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

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

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



### "WILD" SAMPLES

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

Computations that include such samples would only throw the coefficient of variation as well as the average analysis completely out of line. They are judged to be so abnormal they have not been included in these statistical determinations. There were 69 such samples in the mixed fertilizer samples reported. As a basis for excluding these samples, the following rules were followed:

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

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1969 - June 1970

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	---	25.4	24.7	---	0.29	1.2
	5-10-15	6	5.0	10.5	14.8	4.2	4.7	1.6
	5-20-20	10	5.2	19.2	19.8	4.2	6.6	2.7
	6- 6-18	2	5.7	6.7	18.2	5.0	4.2	0.4
	6-12-12	2	6.1	12.0	12.3	5.8	2.4	6.9
	6-24-24	2	5.9	24.4	24.1	1.2	0.3	0.0
	8- 8-18	3	7.7	8.4	17.9	0.8	2.5	3.1
	10-10-10	4	10.0	10.1	10.6	2.4	1.4	1.2
	82- 0- 0	11	81.9	----	----	0.2	---	---
	ALL GRADES	49	% OF GUAR.			CV		
		99.8	100.1	100.1	2.8	3.3	2.2	
ARCO CHEMICAL CO. Chicago, Illinois	6-24-24	9	7.2	25.5	24.0	6.0	2.8	1.2
	82- 0- 0	2	82.1	----	----	0.2	---	---
	ALL GRADES	14	% OF GUAR.			CV		
		104.5	104.4	102.4	4.1	2.8	2.0	
BLUEGRASS PLANT FOOD INC. Cynthiana, Ky.	5-20-20	3	4.9	20.6	19.7	17.7	14.9	6.6
	10-10-10	3	10.4	10.0	10.7	2.6	3.5	7.8
	ALL GRADES	16	% OF GUAR.			CV		
			104.8	100.2	103.0	10.1	9.2	7.2
	Danville	5-10-15	4	5.2	9.4	15.5	9.0	3.1
5-10-15ME		2	5.1	10.5	15.0	4.2	5.4	2.8
5-20-20		2	6.1	17.7	19.4	1.2	1.2	8.0
6-12-12		2	6.6	12.1	11.9	2.1	4.7	3.0
10-10-10		2	10.4	9.1	11.0	0.7	1.6	0.0
ALL GRADES		14	% OF GUAR.			CV		
			106.6	94.2	103.1	3.9	3.2	4.7
BURLEY BELT FERTILIZER CO. Lexington, Ky.	0-20-20	2	---	19.6	18.6	---	1.1	11.8
	4-16- 4	3	4.8	14.7	5.9	8.4	2.4	13.6
	5-10-15	6	5.2	9.5	15.9	5.6	3.8	4.2
	5-20-20	7	4.9	18.9	19.9	6.2	4.6	2.2
	6- 6-18	3	5.9	7.0	17.4	4.5	8.7	4.1
	6-12-12	4	5.7	11.6	12.3	1.7	3.8	2.9
	6-12-18	2	5.9	11.4	18.7	0.0	5.6	3.8
	8-10-15	2	8.0	10.0	15.5	0.9	0.7	0.5
	10-10-10	8	9.9	10.3	10.3	3.5	10.0	1.6
	10-10-20	2	9.6	10.2	20.0	1.5	0.7	0.7
	12-12-12	2	11.3	11.7	12.3	3.1	0.6	4.0



Average Analysis and Coefficient of Variation of Samples Analyzed, July 1969 - June 1970

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.	15-15-15	2	14.7	15.0	14.9	1.9	0.0	1.9
	20-10-10	2	20.0	10.4	9.9	6.4	0.7	12.9
	ALL GRADES	55	% OF GUAR.			CV		
			99.2	97.6	102.3	3.9	3.9	4.6
BURLEY BELT CHEMICAL CO. London, Ky.	3- 9- 6	3	3.3	8.5	7.1	6.3	1.8	7.7
	4-16- 4	3	4.7	13.5	7.6	14.3	15.2	28.7
	5-10-15	8	5.3	9.6	15.2	6.1	1.9	2.3
	5-20-20	9	5.2	19.2	19.9	8.2	4.3	5.4
	6- 6-18	2	5.8	6.1	18.8	2.4	8.2	1.5
	6-12-12	6	5.8	11.5	12.2	4.7	3.3	1.6
	10-10-10	5	9.8	9.7	10.3	3.6	2.1	2.2
	20-10-10	2	20.5	10.2	10.8	0.2	0.7	7.2
	ALL GRADES	49	% OF GUAR.			CV		
			100.8	95.6	102.7	6.0	4.3	6.4
CHEVRON CHEMICAL CO. Richmond, Cal.	10-20-20	2	10.5	20.4	19.5	3.4	0.0	0.0
	16-16-16	5	15.8	16.0	16.2	1.2	5.5	1.9
	20-10-10	2	20.3	10.3	10.2	1.8	8.2	4.2
	22- 4- 4	2	22.6	4.8	4.6	4.1	1.5	10.9
	ALL GRADES	16	% OF GUAR.			CV		
		101.5	102.5	106.2	2.4	4.0	3.9	
COMMONWEALTH FERT. CO. Russellville, Ky.	0-26-26	2	----	24.9	28.6	---	24.4	24.5
	0-46- 0	2	----	44.7	----	---	0.5	---
	5-20-20	5	5.4	19.9	20.0	1.6	12.7	11.7
	5-33-13	4	5.8	32.7	13.0	3.3	3.2	2.5
	6-12-12	3	5.8	14.2	13.8	2.7	5.1	4.5
	6-12-18	2	6.4	12.0	17.4	1.2	1.1	2.0
	6-18-12	3	5.8	18.6	12.8	1.0	9.5	6.7
	8-12-15	2	7.6	12.2	14.8	1.9	1.8	1.0
	10-10-10	10	8.9	11.1	12.2	4.6	7.1	8.2
	18-46- 0	2	17.4	44.8	----	0.2	0.7	---
	33- 0- 0	3	34.0	----	----	1.1	----	----
	ALL GRADES	49	% OF GUAR.			CV		
		99.3	103.0	103.2	2.2	6.8	7.6	

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1969 - June 1970

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
FEDERAL CHEMICAL CO. Humboldt, Tenn.	5-10-15	2	5.2	10.3	14.6	5.4	4.8	2.4
	6-12-12	2	6.3	12.0	12.1	9.0	4.7	16.4
	6-24-24	3	6.2	22.2	23.5	1.9	5.1	9.6
	ALL GRADES	13	% OF GUAR.			CV		
			102.5	97.8	97.6	4.8	6.2	10.1
Louisville, Ky.	0-20-20	3	---	19.2	20.7	---	8.1	5.7
	0-25-25	5	---	23.0	27.0	---	16.1	18.0
	4-12-8	3	6.1	12.4	10.4	34.6	5.8	30.2
	4-16-4	3	3.9	15.0	6.9	5.1	4.7	12.6
	5-10-15	15	5.4	10.4	14.7	5.9	4.8	5.3
	5-20-20	27	5.3	19.9	18.8	8.2	6.6	9.1
	6-12-12	20	5.9	11.8	12.6	6.6	9.3	7.2
	6-24-24	5	6.1	22.0	23.6	4.8	6.1	7.1
	9-10-15	7	8.1	11.0	15.2	9.3	6.0	4.7
	10-10-10	27	9.9	10.6	10.7	5.1	7.9	7.3
	10-10-15	6	9.6	10.6	15.7	4.5	15.4	4.2
	12-12-12	11	11.5	12.4	12.1	7.6	10.6	8.8
	ALL GRADES	135	% OF GUAR.			CV		
			100.5	100.1	101.4	8.0	8.3	9.0
Nashville, Tenn.	5-20-20	3	5.1	19.3	19.8	3.0	5.3	7.5
	10-10-10	5	10.0	10.4	9.8	4.4	4.8	4.6
	10-10-15	2	10.5	10.2	15.0	1.4	0.7	0.5
	ALL GRADES	20	% OF GUAR.			CV		
			102.4	97.7	103.2	3.2	3.9	4.4
FRASIER SUPPLY CO. Glasgow, Ky.	0-0-50	2	---	---	50.3	---	---	2.3
	5-10-15	2	5.6	11.0	14.9	3.8	0.7	5.7
	5-20-20	7	5.3	19.2	22.0	6.9	5.1	9.0
	10-10-10	2	10.1	9.9	9.8	3.5	0.1	11.6
	ALL GRADES	21	% OF GUAR.			CV		
			102.3	97.7	109.3	5.2	2.7	7.5
GLASGOW FERT. CO. Glasgow, Ky.	5-10-15	3	4.8	11.4	14.8	1.2	8.1	4.4
	5-10-15ME	3	4.6	11.0	15.2	5.4	13.4	9.1
	5-20-20	4	5.4	22.4	19.7	12.2	7.5	14.3
	6-12-12	3	5.9	12.2	12.2	1.7	6.1	5.7
	10-10-10	7	9.6	10.2	11.6	9.1	6.8	22.2
	12-24-24	2	11.5	23.5	25.7	3.1	8.7	6.6
	ALL GRADES	32	% OF GUAR.			CV		
				98.5	105.0	102.9	6.0	8.3



Average Analysis and Coefficient of Variation of Samples Analyzed, July 1969 - June 1970

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., AGRIC. CHEM. GROUP Hopkinsville, Ky.	4-12-20	2	4.0	11.0	21.5	3.5	10.3	3.3	
	5-10-25	5	5.3	14.4	25.3	7.6	8.3	5.2	
	9-10-15	3	8.4	9.9	13.7	11.4	8.1	16.6	
	30- 0- 0	2	30.2	---	---	1.2	---	---	
	ALL GRADES	14	% OF GUAR.			CV			
		101.0	95.1	100.2	6.4	8.8	8.4		
Memphis, Tenn.	5-10-15	3	5.1	10.9	15.1	3.0	5.6	1.2	
	5-20-20	5	4.7	19.2	20.2	5.9	1.5	2.9	
	6-12-12	3	5.7	12.0	12.8	4.4	3.2	1.2	
	6-24-24	10	5.9	22.7	23.3	2.5	4.7	5.3	
	33- 0- 0	2	33.9	---	---	1.0	---	---	
	82- 0- 0	7	82.0	---	---	0.2	---	---	
	ALL GRADES	36	% OF GUAR.			CV			
			100.0	97.6	100.6	2.8	3.8	3.1	
Nashville, Tenn.	0-20- 0	2	---	19.3	---	---	1.8	---	
	0-46- 2	2	---	45.0	---	---	1.7	---	
	3-10-30	3	2.9	10.1	28.6	6.9	2.6	4.5	
	4-12- 8	2	4.1	12.2	8.8	1.8	5.8	1.6	
	5-10-15	6	5.0	9.7	14.7	3.3	2.0	0.8	
	5-20-20	8	5.0	19.8	19.2	7.7	4.6	6.7	
	6-12-12	9	5.7	12.0	12.5	8.6	4.5	6.4	
	6-24-24	10	5.9	23.3	23.4	12.4	6.4	3.4	
	10-10-10	10	9.7	10.0	10.3	5.6	2.5	3.6	
	10-10-15	4	9.6	10.7	14.9	2.9	4.3	0.3	
	15-15-15	3	15.0	14.7	15.0	1.3	7.7	6.4	
		ALL GRADES	64	% OF GUAR.			CV		
				97.6	98.9	98.9	6.3	4.1	3.9
New Albany, Ind.	0-20- 0	2	---	20.5	---	---	8.0	---	
	0-25-25	3	---	27.9	23.5	---	4.3	11.2	
	0-46- 0	2	---	45.1	---	---	1.9	---	
	4-12- 8	5	4.5	12.4	9.7	3.3	2.9	13.2	
	5-10-15	19	5.1	10.5	15.6	5.6	7.7	3.2	
	5-20-20	13	4.7	20.1	20.7	6.6	4.6	3.5	
	6-12-12	10	6.0	12.4	12.5	5.7	6.3	4.9	
	6-12-18	6	5.9	12.2	18.3	3.7	2.9	2.0	
	6-24-24	4	6.0	23.8	23.4	3.2	3.2	1.5	
	6-38- 6	2	5.9	36.7	7.2	4.8	0.6	4.9	
	10-10-10	15	9.9	10.5	10.8	4.9	4.7	4.8	
	12-12-12	2	12.0	12.5	12.2	0.6	2.8	1.2	
	15-15-15	3	14.4	14.3	15.1	2.8	0.8	0.4	
		ALL GRADES	90	% OF GUAR.			CV		
			99.3	102.2	103.7	4.6	4.4	4.5	

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1969 - June 1970

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
GRO-GREEN CHEM. CO. Shelbyville, Ky.	9-11-15	2	8.9	11.1	14.5	1.6	12.2	6.8
	10-10-10	2	10.1	10.0	10.2	2.1	23.5	4.9
	12-12-12	3	9.8	10.1	14.4	31.1	37.8	7.6
	ALL GRADES	28	% OF GUAR.			CV		
			97.8	95.4	111.5	13.0	25.4	6.5
GULF OIL CO. AGRI. CHEM. DIVISION Cecilia, Ky.	5-10-15	2	5.4	10.0	15.7	4.0	7.1	7.2
	5-20-20	2	5.0	19.5	21.3	14.1	9.4	7.3
	10-10-10	2	9.9	11.0	11.8	4.3	3.2	0.1
	15-15-15	2	15.1	15.8	14.8	2.4	2.7	6.7
	ALL GRADES	17	% OF GUAR.			CV		
			99.7	100.5	112.4	6.2	5.6	5.3
Henderson	5-20-20	2	5.3	19.8	20.6	5.3	0.4	0.7
	6-24-24	4	6.5	25.0	24.3	6.0	3.5	5.0
	15-15-15	2	14.2	17.1	15.8	3.0	3.7	1.4
	ALL GRADES	17	% OF GUAR.			CV		
			101.6	102.1	103.6	4.9	2.6	2.7
Kansas City	5-10-15	3	5.2	10.1	15.9	4.4	3.5	3.6
	6-24-24	9	6.2	24.1	25.2	7.6	3.4	4.1
	15-15-15	3	15.3	15.9	15.8	0.4	2.5	3.8
	ALL GRADES	16	% OF GUAR.			CV		
				102.3	101.5	105.0	4.8	3.2
HUTSON CHEMICAL CO. Murray, Ky.	5-20-20	2	5.2	21.3	20.1	8.2	5.0	1.1
	6-24-24	3	6.7	25.7	23.0	4.0	4.6	5.7
	15-15-15	4	14.4	16.6	15.5	6.3	7.2	2.7
	ALL GRADES	13	% OF GUAR.			CV		
			99.4	106.6	101.9	6.0	5.7	3.3
INTERNAT'L. MIN. & CHEM. CORP., Clarksville, Tenn.	5-10-15	3	5.2	9.7	15.3	4.8	2.2	5.2
	5-20-20	5	5.1	17.9	18.7	7.4	6.8	7.1
	6-12-12	4	6.1	11.4	12.0	10.8	4.9	8.0
	10-10-10	3	9.4	9.9	10.3	1.6	0.6	1.5
	ALL GRADES	20	% OF GUAR.			CV		
			99.6	93.3	100.5	6.4	3.9	5.7



Average Analysis and Coefficient of Variation of Samples Analyzed, July 1969 - June 1970

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
KENTUCKY FERTILIZER WORKS Winchester, Ky.	5-10-10	3	4.8	9.6	11.8	6.4	6.7	13.5
	5-10-15	4	4.7	9.8	14.9	3.7	2.4	0.9
	6- 6-18	2	5.6	6.2	18.5	0.0	3.5	0.0
	12-12-12	2	12.1	11.4	12.0	0.6	1.3	1.2
	ALL GRADES	15	% OF GUAR.			CV		
			89.6	97.7	108.7	2.9	3.5	4.1
*MOBIL CHEMICAL CO. Richmond, Va.	0-20-20	3	---	20.3	19.9	---	0.9	10.5
	4-12- 8	3	4.5	12.3	8.9	11.1	5.9	3.6
	4-12-12	2	4.3	13.0	13.0	9.9	0.0	2.2
	5-20-20	14	5.1	19.9	19.1	6.7	4.9	5.5
	6-12-12	3	5.9	12.2	12.5	2.6	0.5	2.6
	10-10-10	6	9.4	10.7	11.6	8.7	5.7	13.6
	ALL GRADES	40	% OF GUAR.			CV		
			98.0	102.0	100.2	7.6	3.5	6.7
NA-CHURS PLANT FOOD CO Marion, Ohio	2-20-18	2	2.4	20.6	18.2	5.9	1.0	2.3
	5-20- 5	3	5.8	21.1	5.8	2.6	0.6	5.0
	10-20-10	3	10.4	20.6	12.3	1.9	2.4	14.6
	ALL GRADES	10	% OF GUAR.			CV		
			110.7	104.8	109.0	3.3	1.4	7.6
NORTH AMERICAN FERTILIZER CO. Louisville, Ky.	4-16- 4	3	4.3	15.1	5.8	4.8	4.7	18.3
	5-10-15	8	5.1	10.3	15.4	6.2	3.0	5.2
	5-20-20	5	5.0	19.3	20.9	9.7	11.9	4.6
	6-12-12	6	6.2	12.6	13.3	4.4	12.1	10.8
	6-12-18	2	6.2	12.4	17.5	4.5	5.7	5.7
	8-10-15	3	8.3	10.3	14.9	3.2	2.9	4.3
	9- 9-17	2	8.8	8.5	16.7	2.4	2.5	1.7
	9- 9-17ME	5	8.9	8.7	16.3	2.3	13.9	5.1
	10-10-10	9	9.9	9.3	10.9	2.7	13.8	4.4
	20-10-10	5	18.5	10.6	11.8	8.0	8.8	15.8
	ALL GRADES	62	% OF GUAR.			CV		
			99.2	99.2	103.2	4.9	8.5	7.6
OHIO VALLEY FERTILIZER INC. Maysville, Ky.	5-10-10	2	5.6	9.9	11.1	15.2	1.4	7.0
	5-10-15	5	5.4	10.5	15.8	7.6	5.4	3.2
	5-20-20	4	5.7	18.9	17.0	20.1	13.6	11.0
	10-10-10	5	9.2	9.4	13.7	8.5	10.3	16.8

\* Samples taken in Fall 1969 only.

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1969 - June 1970

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.)	10-10-20	2	10.1	10.9	18.0	21.0	18.9	15.4
	10-10-20ME	3	10.2	10.6	19.0	5.4	8.4	0.8
	ALL GRADES	29	% OF GUAR.			CV		
			101.9	98.8	103.8	12.4	9.6	9.0
ROYSTER COMPANY Norfolk, Va.	0-20- 0	3	---	20.1	---	---	1.3	---
	0-20-20	3	---	22.7	19.9	---	18.7	6.7
	5-10-15	4	5.0	9.8	14.8	16.2	5.7	3.9
	5-10-15ME	19	5.1	10.0	14.9	6.4	6.1	4.6
	5-20-20	20	5.1	19.3	19.7	6.8	4.2	5.8
	6-12-12	11	6.1	11.8	12.4	7.0	8.8	7.1
	6-19-26	2	6.1	18.7	26.8	1.2	3.4	0.8
	7-21-21	3	7.2	21.1	19.6	2.9	3.1	12.1
	9-18-18	2	9.0	18.5	17.1	0.1	2.3	2.9
	10-10-10	16	10.0	10.3	10.3	5.2	7.8	5.1
	10-10-15	3	10.1	9.9	15.0	2.9	4.5	5.8
	30- 0- 0	3	30.4	---	---	2.0	---	---
		ALL GRADES	99	% OF GUAR.			CV	
			100.4	99.7	99.6	5.7	6.2	5.5
SOUTHERN STATES COOP. Louisville, Ky.	0-20-20	2	---	20.3	21.1	---	0.0	1.7
	4-16- 4	6	4.3	15.5	4.6	1.2	6.5	6.6
	5-10-15	6	5.2	10.1	15.5	1.7	1.5	1.7
	5-20-20	5	5.2	19.5	20.7	1.7	1.1	2.7
	6-12-12	7	6.2	12.4	12.5	2.5	3.2	6.3
	8-10-15	8	8.1	10.4	15.5	1.2	2.4	1.3
	10-10-10	8	10.1	10.4	10.3	0.9	1.8	2.6
		ALL GRADES	45	% OF GUAR.			CV	
			102.6	101.0	103.8	1.5	2.5	103.8
Russellville	0-20-20	7	---	20.6	19.2	---	12.4	17.3
	4-12- 8	5	4.3	12.0	8.8	5.0	3.1	10.0
	4-16- 4	2	4.3	15.3	4.8	0.0	8.3	1.5
	5-10-15	30	5.1	10.1	15.1	4.5	3.8	5.7
	5-15- 5	6	5.5	15.0	5.7	3.0	2.1	4.4
	5-20-20	37	5.3	20.2	19.9	4.5	3.9	6.6
	6-12-12	22	6.1	12.0	12.3	6.3	3.2	8.4
	6-12-18	4	6.0	12.1	17.9	1.6	2.3	5.0
	6-24-24	8	6.2	23.8	24.4	3.1	3.6	4.9
	10-10-10	36	10.1	10.4	10.6	5.4	5.9	7.0
		ALL GRADES	158	% OF GUAR.			CV	
			102.7	101.0	101.5	4.4	4.6	7.2



Average Analysis and Coefficient of Variation of Samples Analyzed, July 1969 - June 1970

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
SOUTHERN STATES COOP. Winchester, Ky.	4-16- 4	2	4.0	16.0	4.5	3.5	0.1	6.3
	5-10-15	2	5.1	10.3	15.0	1.4	0.7	0.5
	5-20-20	3	5.0	20.0	20.9	2.3	3.8	6.7
	6- 6-18	2	6.1	6.1	18.0	2.3	2.3	0.4
	6-12-12	2	6.0	12.6	12.3	4.7	5.6	4.6
	8-10-15	3	8.0	10.3	15.1	1.3	2.0	0.4
	10-10-10	2	10.0	10.3	10.8	1.4	1.4	2.0
	ALL GRADES	18	% OF GUAR.			CV		
		100.8	101.6	102.4	2.4	2.3	3.0	
STEWART FERTILIZER SER. Mt. Vernon, Ky.	0-20-20	2	---	20.0	20.9	---	3.2	0.7
	5-10-15	2	4.4	8.3	14.0	3.2	6.8	9.1
	5-20-20	4	5.1	19.6	19.9	14.5	11.3	19.1
	10-10-10	2	9.0	8.4	11.7	7.9	13.5	1.8
	ALL GRADES	19	% OF GUAR.			CV		
		98.1	98.7	102.7	9.2	8.9	8.7	
SWIFT AGRICULTURAL CHEMICAL CORP. Chicago, Ill.	5-10-15	3	5.2	10.6	15.1	18.4	6.3	6.0
	5-20-20	2	5.2	19.0	19.2	19.0	4.5	1.8
	18- 4- 8	2	17.1	5.2	9.6	6.6	19.0	5.9
	ALL GRADES	11	% OF GUAR.			CV		
		96.1	109.8	104.4	14.9	9.7	4.7	
Cincinnati, Oh.	0-20- 0	2	---	19.7	---	---	5.0	---
	0-25-25	5	---	24.3	23.2	---	9.9	10.5
	4-12- 8	2	4.6	12.1	8.3	3.1	1.8	0.2
	5-10-15	5	5.4	10.1	15.0	9.8	2.6	6.2
	5-20-20	13	5.4	19.0	19.4	12.8	6.4	8.3
	6-12-12	2	5.6	11.5	12.6	5.1	14.2	2.8
	6-12-18	8	5.8	12.3	17.6	5.1	8.1	1.5
	6-24-24	6	5.9	22.5	22.4	5.3	3.8	5.4
	10-10-10	10	9.8	10.7	10.3	4.1	4.5	5.8
	12-24-24	2	10.0	20.4	23.3	12.7	18.4	4.0
	ALL GRADES	65	% OF GUAR.			CV		
			100.4	97.5	97.7	7.5	6.9	5.4

## Average Analysis and Coefficient of Variation of Samples Analyzed, July 1969 - June 1970

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. Atlanta, Ga.	0-25-25	3	---	24.3	25.2	---	3.7	5.5
	0-46-0	2	---	45.6	---	---	1.2	---
	4-12-8	2	4.1	12.6	8.9	13.8	7.9	4.0
	5-10-5	3	5.3	9.2	5.7	6.5	8.8	9.6
	5-10-10	4	5.0	10.0	10.8	3.8	0.6	2.3
	5-10-15	22	5.2	10.0	15.2	5.0	3.3	4.1
	5-20-20	14	5.3	19.4	19.5	5.6	3.7	3.7
	6-6-18	3	6.3	6.6	19.0	11.5	7.6	3.2
	6-12-12	11	6.1	11.9	12.4	7.4	4.3	4.5
	6-12-18	10	5.9	11.8	18.3	5.6	2.1	3.1
	6-24-24	2	6.1	24.4	23.3	2.3	0.9	1.5
	7-28-28	5	7.4	28.6	27.9	3.9	1.1	0.8
	8-16-16	2	8.4	15.9	16.1	4.2	1.3	1.8
	8-24-24	2	7.8	22.8	24.1	0.9	3.4	0.9
	10-10-10	27	10.1	10.3	10.9	7.3	4.2	6.5
	12-12-12	8	11.9	12.2	12.3	4.4	2.8	6.2
	12-12-18	4	11.6	12.1	18.5	13.8	16.8	7.2
	82-0-0	2	81.9	---	---	0.2	---	---
		ALL GRADES	139	% OF GUAR.			CV	
			101.2	99.9	102.3	6.1	4.2	4.3
Cherokee, Ala.	7-28-28	6	7.3	28.6	28.1	3.9	1.9	3.1
	14-14-14	2	14.0	14.2	14.7	1.0	1.0	2.4
	30-0-0	2	30.5	---	---	0.70	---	---
	33-0-0	2	33.6	---	---	0.0	---	---
	82-0-0	2	82.1	---	---	0.0	---	---
	ALL GRADES	17	% OF GUAR.			CV		
			101.2	101.6	101.0	1.5	1.6	2.9
Cincinnati, Ohio	5-10-15	6	5.2	10.0	15.2	5.6	4.3	2.6
	5-20-20	9	5.3	19.7	19.8	5.2	5.7	1.2
	6-6-18	3	6.1	6.7	19.5	5.0	6.8	2.8
	6-12-12	4	6.0	12.2	12.6	2.1	5.4	4.1
	6-12-18	6	5.9	12.2	18.3	3.2	4.5	3.2
	8-32-16	2	7.6	31.2	17.4	1.9	0.1	0.4
	10-10-10	5	10.1	10.1	11.1	3.2	4.6	6.5
	10-10-20	8	10.0	10.8	19.3	3.1	4.9	2.9
	12-12-12	4	11.7	13.1	12.7	6.5	11.4	12.7
	ALL GRADES	57	% OF GUAR.			CV		
			100.6	101.8	102.1	4.1	5.4	3.3
Jeffersonville, Ind.	5-10-15	8	5.2	9.8	15.4	6.1	5.5	3.9
	5-20-20	4	5.3	21.2	19.5	3.2	5.5	4.8
	6-6-18	2	6.0	6.8	18.6	2.4	10.4	2.3
	6-12-12	2	6.8	11.7	13.0	1.0	1.8	5.4
	6-12-18	6	5.8	11.9	17.9	3.4	8.6	5.6
	10-10-10	7	10.1	9.9	11.0	5.4	3.1	10.0



Average Analysis and Coefficient of Variation of Samples Analyzed, July 1969 - June 1970

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. Jeffersonville, Ind. (Cont'd.)	12-12-12	3	11.9	12.1	12.7	2.7	4.2	4.1	
	12-12-18	2	11.6	11.8	18.0	3.7	1.8	3.5	
	ALL GRADES	41	% OF GUAR.			CV			
Nashville, Tenn.			100.8	101.3	103.1	3.8	5.2	5.3	
	0-20- 0	3	---	18.2	---	---	4.2	---	
	0-20-20	2	---	17.7	20.9	---	0.8	1.0	
	3-12-24	5	3.9	11.8	22.4	3.5	2.7	4.3	
	4-12- 8	2	4.4	12.0	9.7	11.4	1.8	1.5	
	5-10- 5	5	5.3	10.3	6.9	5.6	6.7	28.6	
	5-10-10	4	5.3	9.8	10.6	4.5	3.2	4.3	
	5-10-15	9	5.4	9.8	14.8	4.5	3.0	3.6	
	5-20-20	12	5.4	19.3	19.4	7.0	5.7	7.7	
	6-12-12	14	5.9	11.5	12.5	7.2	3.6	5.3	
	6-12-18	16	5.9	11.6	17.4	4.3	3.4	4.7	
	8-24-24	4	7.8	22.7	23.6	4.6	1.9	8.2	
	8-32-16	2	7.9	32.7	16.6	3.6	2.8	2.1	
	10-10-10	13	9.2	10.2	10.3	5.0	4.5	6.4	
	14-14-14	5	14.0	15.3	14.4	3.2	11.3	7.6	
	15-40- 5	4	15.1	40.1	6.2	1.7	0.5	7.1	
	33- 0- 0	2	34.2	---	---	4.1	---	---	
	ALL GRADES	110	% OF GUAR.			CV			
				101.2	98.7	100.4	5.1	4.0	6.8
	WARNER FERTILIZER CO. Somerset, Ky.	5-10-15	2	5.4	10.3	15.0	4.0	1.4	0.5
5-20-20		3	4.4	17.8	23.2	13.8	9.7	6.2	
10-10-10		2	9.3	9.0	12.2	8.4	0.8	5.2	
10-10-20		2	9.8	15.6	18.4	19.6	15.0	16.6	
ALL GRADES		17	% OF GUAR.			CV			
			103.7	100.4	105.2	11.6	6.9	7.1	

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

AGRICO CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
MEMPHIS	99.83	100.09	100.10		2.80	3.30	2.15
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
AGRICO CHEMICAL COMPANY	99.83	100.09	100.10		2.80	3.30	2.15
ARCO CHEMICAL CO.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
CHICAGO	104.51	104.44	102.39		4.11	2.83	1.89
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
ARCO CHEMICAL CO.	104.51	104.44	102.39		4.11	2.83	1.89
BLUEGRASS PLANT FOODS, INC.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
CYNTHIANA	104.76	100.19	103.00		10.11	9.16	7.20
DANVILLE	106.59	94.23	103.10		3.87	3.17	4.65
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
BLUEGRASS PLANT FOODS, INC.	105.61	97.41	103.05		7.09	6.26	5.97
BURLEY BELT FERTILIZER CO.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
LEXINGTON	99.22	97.57	102.28		3.88	3.86	4.61
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
BURLEY BELT FERTILIZER CO.	99.22	97.57	102.28		3.88	3.86	4.61
BURLEY BELT CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
LONDON	100.80	95.60	102.66		5.99	4.33	6.37
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
BURLEY BELT CHEMICAL COMPANY	100.80	95.60	102.66		5.99	4.33	6.37
CHEVRON CHEMICAL CO-OTHRD DIV							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
RICHMOND	101.53	102.47	106.19		2.41	4.03	3.94
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
CHEVRON CHEMICAL CO-OTHRD DIV	101.53	102.47	106.19		2.41	4.03	3.94
COMMONWEALTH FERTILIZER CO.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
RUSSELLVILLE	99.26	102.96	103.17		2.23	6.84	7.64
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
COMMONWEALTH FERTILIZER CO.	99.26	102.96	103.17		2.23	6.84	7.64



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

FEDERAL CHEMICAL COMPANY							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
HUMBOLDT	102.47	97.84	97.61		4.75	6.20	10.14
LOUISVILLE	100.45	100.07	101.36		7.97	8.32	8.95
NASHVILLE	102.37	97.70	103.23		3.16	3.88	4.43
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
FEDERAL CHEMICAL COMPANY	100.81	99.63	101.26		6.33	6.94	8.21
FRASIER SUPPLY COMPANY							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
GLASGOW	102.27	97.69	109.25		5.23	2.67	7.47
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
FRASIER SUPPLY COMPANY	102.27	97.69	109.25		5.23	2.67	7.47
GLASGOW FERTILIZER COMPANY							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
GLASGOW	98.46	104.98	102.87		5.96	8.28	11.57
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
GLASGOW FERTILIZER COMPANY	98.46	104.98	102.87		5.96	8.28	11.57
W.R. GRACE & CO.							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
HOPKINSVILLE	100.99	95.05	100.17		6.36	8.78	8.38
MEMPHIS	100.04	97.57	100.58		2.78	3.76	3.08
NASHVILLE	97.57	98.94	98.86		6.29	4.07	3.92
NEW ALBANY	99.42	102.15	103.65		4.59	4.42	4.53
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
W.R. GRACE & CO.	99.03	100.01	101.47		4.93	4.76	4.56
GRD-GREEN CHEMICAL CO., INC.							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
SHELBYVILLE	97.81	95.42	111.54		12.98	25.39	6.53
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
GRD-GREEN CHEMICAL CO., INC.	97.81	95.42	111.54		12.98	25.39	6.53
GRD-GREEN SALES CO.							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
SHELBYVILLE	94.53	104.78	114.51		12.99	0.83	13.51
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
GRD-GREEN SALES CO.	94.53	104.78	114.51		12.99	0.83	13.51
GULF OIL CORP., AGRI CHEM DIV							
RELATIVE VALUE FOR	N	P2O5	K2O	CV. FOR	N	P2O5	K2O
CECILIA	99.71	100.53	112.43		6.19	5.60	5.33
HENDERSON	101.66	102.05	103.58		4.93	2.64	2.65
KANSAS CITY	102.30	101.52	105.03		4.82	3.20	3.89
MORGANFIELD	103.10	102.33	102.92		2.14	0.77	4.04
RELATIVE VALUE AND CV. OF N P2O5 AND K2O FOR							
GULF OIL CORP., AGRI CHEM DIV	101.48	101.54	106.41		4.69	3.17	3.98

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

HUTSON CHEMICAL COMPANY							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
MURRAY	99.43	106.57	101.85	6.02	5.73	3.25	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
HUTSON CHEMICAL COMPANY	99.43	106.57	101.85	6.02	5.73	3.25	
INTERNATIONAL MIN & CHEM CORP							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
CLARKSVILLE	99.58	93.33	100.53	6.40	3.87	5.66	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
INTERNATIONAL MIN & CHEM CORP	99.58	93.33	100.53	6.40	3.87	5.66	
KENTUCKY FERTILIZER WORKS							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
WINCHESTER	89.62	97.70	108.74	2.94	3.52	4.08	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
KENTUCKY FERTILIZER WORKS	89.62	97.70	108.74	2.94	3.52	4.08	
MOBIL CHEM CO, AGRI CHEM DIV							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
RICHMOND	98.02	101.96	100.19	7.58	3.49	6.71	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
MOBIL CHEM CO, AGRI CHEM DIV	98.02	101.96	100.19	7.58	3.49	6.71	
NA-CHURS PLANT FOOD CO.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
MARION	110.66	104.81	109.03	3.32	1.36	7.64	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
NA-CHURS PLANT FOOD CO.	110.66	104.81	109.03	3.32	1.36	7.64	
NORTH AMERICAN FERTILIZER CO.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
LOUISVILLE	99.18	99.23	103.24	4.91	8.54	7.56	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
NORTH AMERICAN FERTILIZER CO.	99.18	99.23	103.24	4.91	8.54	7.56	
OHIO VALLEY FERTILIZER, INC.							
RELATIVE VALUE FOR N	P205	K20	CV. FOR	N	P205	K20	
MAYSVILLE	101.88	98.80	103.78	12.40	9.58	9.04	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
OHIO VALLEY FERTILIZER, INC.	101.88	98.80	103.78	12.40	9.58	9.04	



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

ROYSTER COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
NORFOLK	100.42	99.74	99.62	5.72	6.19	5.54	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
ROYSTER COMPANY	100.42	99.74	99.62	5.72	6.19	5.54	
SOUTHERN STATES COOPERATIVE							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
LOUISVILLE	102.61	100.97	103.82	1.54	2.51	3.34	
RUSSELLVILLE	102.72	101.02	101.49	4.35	4.62	7.18	
WINCHESTER	100.84	101.61	102.39	2.38	2.32	3.00	
SHELBYVILLE	104.62	106.22	101.34	5.95	3.78	1.83	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
SOUTHERN STATES COOPERATIVE	102.64	101.28	102.00	3.53	3.63	4.93	
STEWART FERTILIZER SERVICE							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
MT. VERNON	98.14	98.66	102.70	9.23	8.94	8.74	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
STEWART FERTILIZER SERVICE	98.14	98.66	102.70	9.23	8.94	8.74	
SWIFT & COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
CHICAGO	96.13	109.82	104.40	14.92	9.67	4.67	
CINCINNATI	100.39	97.52	97.68	7.45	6.89	5.43	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
SWIFT & COMPANY	99.70	99.32	98.69	9.73	7.70	5.20	
USS AGRI-CHEMICALS, INC.							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
ATLANTA	101.20	99.85	102.29	6.11	4.17	4.33	
CHEROKEE	101.15	101.59	100.90	1.48	1.59	2.85	
CINCINNATI	100.60	101.82	102.07	4.06	5.39	3.32	
JEFFERSONVIL	100.78	101.26	103.10	3.82	5.20	5.27	
NASHVILLE	101.23	98.66	100.39	5.06	3.95	6.76	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
USS AGRI-CHEMICALS, INC.	101.06	100.02	101.73	4.62	4.29	4.82	
WARNER FERTILIZER COMPANY							
RELATIVE VALUE FOR	N	P205	K20	CV. FOR	N	P205	K20
SOMERSET	103.67	100.44	105.22	11.57	6.88	7.07	
RELATIVE VALUE AND CV. OF N P205 AND K20 FOR							
WARNER FERTILIZER COMPANY	103.67	100.44	105.22	11.57	6.88	7.07	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
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	26802	6.5	18.3	6.2		103	
6-18- 6M	27385	5.9	18.3	6.1		100	
AGRICOL CHEMICAL COMPANY		MEMPHIS TENN					
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20- 0	27433	0.0	21.2	0.0		106	
0-25-25M	26805	0.0	25.4	24.9		101	
0-25-25M	26919	0.0	25.3	24.5		100	
4-16- 4S	26200	4.1	15.3*	5.3	*	100	
5-10-10M	26005	5.3	9.8	9.9		101	
5-10-15S	26036	5.0	10.8	14.6		103	
5-10-15S	26193	4.9	10.3	14.7		100	
5-10-15S	26199	5.3	10.0	14.9		101	
5-10-15S	26342	5.0	9.8	15.2		100	
5-10-15S	26573	4.8	10.8	14.6*		101	
5-10-15S	26920	4.7*	11.0	15.0		102	
5-20-20M	25345	5.1	20.0	20.2		101	
5-20-20M	25980	5.6	19.8	19.8		101	
5-20-20M	26025	5.0	20.5	20.3		102	
5-20-20M	26038	5.2	20.1	19.7		100	
5-20-20M	26104	5.4	18.3*	19.9		97*	
5-20-20M	26700	5.1	16.5*	18.9*		89*	
5-20-20M	26806	4.9	20.0	19.9		99	
5-20-20M	26877	5.2	18.4*	19.4*		95*	
5-20-20M	26918	4.9	20.1	20.5		101	
5-20-20M	27505	5.1	18.4*	19.0*		95*	
6- 6-18S	26526	5.9	6.5	18.1		101	
6- 6-18S	26527	5.5*	6.9	18.2		101	
6-12-12M	25608	5.8	12.2	12.9		101	
6-12-12M	26024	6.3	11.8	11.7		100	
6-24-24M	26935	5.9	24.3	24.1		100	
6-24-24M	27332	5.8	24.4	24.1		100	
8- 8-18S	26528	7.7*	8.6	17.4*		99	
8- 8-18S	26574	7.7*	8.5	17.9		100	
8- 8-18S	27123	7.8	8.2	18.5		100	
10- 6- 4M	26259	10.1	6.2	4.1		101	
10-10-10M	25928	9.8	10.0	10.5		100	
10-10-10M	26037	9.9	10.3	10.4		101	
10-10-10M	26105	9.8	10.0	10.6		99	
10-10-10M	26520	10.3	10.1	10.7		103	
10-10-20S	26103	10.9	10.7	19.4*		105	
10-10-20S W/ME	26575	9.4*	9.5*	20.0		96*	
16- 8- 8M	26529	14.6*	8.5	8.8		97*	
82- 0- 0	26728	82.1	0.0	0.0		100	
82- 0- 0	27075	81.9	0.0	0.0		100	
82- 0- 0	27169	82.1	0.0	0.0		100	
82- 0- 0	27293	81.9	0.0	0.0		100	
82- 0- 0	27298	81.9	0.0	0.0		100	
82- 0- 0	27357	81.8	0.0	0.0		100	
82- 0- 0	27425	81.9	0.0	0.0		100	
82- 0- 0	27426	81.9	0.0	0.0		100	
82- 0- 0	27479	82.0	0.0	0.0		100	
82- 0- 0	27528	82.0	0.0	0.0		100	
82- 0- 0	27545	81.8	0.0	0.0		100	



TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)

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

T.R. AKRIDGE & SON		FREDONIA		KY			
GRADE	NUM	N	APA	POT	XS	CL	RV
19-13-16M	27276	19.7	14.1	16.2			101
22- 9-14M	27277	21.7	10.6	15.1			102
23- 0-17M	27275	23.2*	0.0	18.1			99
ALLENSVILLE CROP SERVICE		ALLENSVILLE		KY.			
GRADE	NUM	N	APA	POT	XS	CL	RV
6-12-18S	27062	6.5	11.6*	19.9			104
16-12-12M	27061	17.9	11.5*	15.7			105
16-16- 8M	26565	16.9	15.6*	10.5			102
ALLIED CHEMICAL CORPORATION		HOPEWELL		VA.			
GRADE	NUM	N	APA	POT	XS	CL	RV
10-34- 0	27335	10.5	35.9	0.0			106
18-46- 0	27333	18.1	47.2	0.0			102
32- 0- 0	27570	32.6	0.0	0.0			102
ALLIED CHEMICAL CORPORATION		MEMPHIS		TENN			
GRADE	NUM	N	APA	POT	XS	CL	RV
10-34- 0	26110	10.2	34.8	0.0			102
30- 0- 0	26109	30.4	0.0	0.0			101
30- 0- 0	26603	30.6	0.0	0.0			102
AMERICAN CYANAMID COMPANY		PRINCETON		N.J.			
GRADE	NUM	N	APA	POT	XS	CL	RV
10- 6- 4M	27418	11.2	9.4	5.0			125
10-10-10M	27417	9.6*	8.6*	9.6*			92*
ARCO CHEMICAL CO		CHICAGO		ILL			
GRADE	NUM	N	APA	POT	XS	CL	RV
6-24-24M	25812	7.1	25.9	23.3*			107
6-24-24M	25867	7.3	25.2	24.2			107
6-24-24M	25910	6.5	24.3	24.4			103
6-24-24M	26217	7.0	24.9	24.2			105
6-24-24M	26421	8.0	25.9	23.9			111
6-24-24M	26818	7.6	26.9	24.8			113
6-24-24M	26937	7.2	25.6	23.9			107
6-24-24M	27327	7.0	25.6	23.9			107
6-24-24M	27372	6.9	25.4	23.5*			105
9-30-19M	26619	8.3*	28.3*	23.9			99
12-12-12M	27210	13.2	13.5	12.9			111
18-46- 0	27340	18.3	46.0	0.0			101
82- 0- 0	26943	82.1	0.0	0.0			100
82- 0- 0	27370	82.1	0.0	0.0			100
ARKLA CHEMICAL CORP.		LITTLE ROCK		ARK.			
GRADE	NUM	N	APA	POT	XS	CL	RV
6-24-24M	25936	6.7	22.9*	23.5*			99
82- 0- 0	27060	81.9	0.0	0.0			100
82- 0- 0	27481	82.0	0.0	0.0			100
BALLARD COUNTY COOP		LA CENTER		KY.			
GRADE	NUM	N	APA	POT	XS	CL	RV
10-10-15M	26720	11.1	9.9	14.9			101
BIG FOUR FEED & IMPLEMENT CO		SCOTTSDALE		KY			
GRADE	NUM	N	APA	POT	XS	CL	RV
0-46- 0	27286	0.0	46.4	0.0			101
6-12-18M	27283	7.4	14.9	24.0			126
9-10-15M	27287	9.3*	10.3	15.4			98
17-15-20M	27284	15.9*	13.3*	24.5			97*
18-46- 0	27288	18.3	46.7	0.0			102
19- 5- 7M	27285	18.0*	3.8*	7.4			92*
BLUEGRASS PLANT FOODS, INC.		CYNTHIANA		KY.			
GRADE	NUM	N	APA	POT	XS	CL	RV
1-26- 6M	26586	1.8	27.5	7.8			105

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

BLUEGRASS PLANT FOODS, INC.		CYNTHIANA		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
3-12-12M	26370	4.6	11.0*	11.3*			104
4-16-4S	26181	4.5	15.5*	4.6			102
5-10-10M	26374	5.1	7.8*	10.5			92*
5-10-15S	26585	5.1	9.5*	15.1			99
5-20-20M	26184	3.9*	24.0	18.4*			104
5-20-20M	26376	5.4	19.9	21.0			102
5-20-20M	26588	5.4	18.0*	19.7			96*
6-5-8S	26587	6.5*	5.6	8.4			96*
6-12-12M	26371	6.2	11.1*	13.8			101
8-6-18S	26182	7.9	7.1	17.3*			102
10-10-10M	26176	10.3	9.8	10.4			101
10-10-10M	26185	10.7	9.8	11.6			105
10-10-10M	26373	10.2	10.4	10.0			102
10-20-20M	26375	10.4	20.0	20.4			102
12-8-12S	26183	12.0*	8.4	12.9			99
12-12-12M	26372	4.0*	10.7*	13.5			65*
BLUEGRASS PLANT FOODS, INC.		DANVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
4-12-8M	26479	4.6	10.8*	10.3			104
5-10-15S	26658	5.9	9.4*	14.0*	*		101
5-10-15S	26771	5.1	9.7*	14.9			99
5-10-15S	26859	4.8	9.0*	16.6			97*
5-10-15S	26396	5.1	9.3*	16.4			100
5-10-15S W/ME	26478	4.9	10.9	15.3	*		103
5-10-15S W/ME	26985	5.2	10.1	14.7	*		101
5-20-20M	25377	6.1	17.8*	20.5			99
5-20-20M	26477	6.0	17.5*	18.3*			95*
6-12-12M	25378	6.5	12.5	11.6*			104
6-12-12M	26476	6.7	11.7	12.1			103
6-12-18S W/ME	26862	5.8	11.4*	19.5			99
10-10-10M	26860	10.3	9.0*	11.0			100
10-10-10M	26361	10.4	9.2*	11.0			101
BORDEN INC. CHEMICAL DIV.		NORFOLK		VA.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-33-13M W/ME	27342	5.5	32.4	13.7			101
12-7-5M W/ME	27021	12.0	7.1	5.8			102
20-5-5M W/ME	27023	20.6	5.6	6.5			106
24-6-6M W/ME	25513	24.1	6.3	6.6			102
24-6-6M W/ME	27022	24.8	7.2	6.4			106
82-0-0	27341	81.9	0.0	0.0			100
BURLEY BELT FERTILIZER COMPANY		LEXINGTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-0-50S	27319	0.0	0.0	50.0			100
0-20-20M	25596	0.0	19.7	20.2			99
0-20-20M	25974	0.0	19.4*	17.1*			93*
0-46-0	27271	0.0	46.2	0.0			101
0-46-0	27318	0.0	46.3	0.0			116
3-9-6M	25595	4.0	8.8	8.6			116
3-9-6M	26654	3.3	8.3*	6.7			100
4-16-4S	25991	5.2	14.5*	6.8			107
4-16-4S	26003	4.4	14.5*	5.2			99
4-16-4S	26049	4.9	15.1*	5.8			105
5-10-10M	26358	5.5	9.9	13.5			110
5-10-10M	26516	5.4	14.1	13.9			129
5-10-15S	25990	5.1	9.3*	16.3			100
5-10-15S	26000	5.3	9.8	15.5			102
5-10-15S	26359	5.7	9.9	15.4			104



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

BURLEY BELT FERTILIZER COMPANY		LEXINGTON			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15S	26360	5.0	9.1*	16.7		99
5-10-15S	26467	5.4	9.7	15.1		102
5-10-15S	26493	4.9	9.1*	16.5		99
5-20-20M	25973	4.9	19.2*	20.3		98
5-20-20M	25987	5.5	17.1*	19.7		94*
5-20-20M	26653	4.8	18.6*	20.2		96*
5-20-20M	26864	4.6*	19.5*	19.9		97*
5-20-20M	26872	4.7*	19.2*	19.1*		95*
5-20-20M	27486	4.7	19.0*	19.9		96*
5-20-20M	27502	4.8	19.7	20.4		99
6- 0- 0	26577	7.8	0.0	0.0		119
6- 6-18S	26002	6.1	7.4	17.2*		105
6- 6-18S	26484	5.6*	6.3	18.2		99
6- 6-18S	26865	6.0	7.3	16.8*		102
6-12-12M	26468	5.8	12.1	12.6		100
6-12-12M	26492	5.7*	11.9	12.0		98
6-12-12M	27437	5.6*	11.2*	12.5		96*
6-12-12M	27503	5.8	11.3*	11.9		96*
6-12-18S	26469	5.8	10.7*	19.6		97*
6-12-18S W/ME	25998	5.9	10.9*	19.2		98
6-12-18S W/ME	26483	5.9	11.8	18.2		99
8-10-15S	25992	8.0	10.0	15.4		100
8-10-15S	25999	7.9	9.9	15.5		100
8-32-16M	25972	7.8	28.3*	17.7		94*
10- 6- 4M	26260	7.1*	6.6	4.6		85*
10-10-10M	25446	7.3*	16.0	11.3		111
10-10-10M	25594	10.1	9.7	10.5		100
10-10-10M	25956	9.5*	9.8	10.2		97*
10-10-10M	25989	10.3	9.9	10.1		101
10-10-10M	26001	10.2	10.0	10.6		102
10-10-10M	26047	9.3*	12.8	10.3		106
10-10-10M	26466	9.9	10.0	10.3		100
10-10-10M	26495	10.0	9.9	10.2		100
10-10-10M	27410	9.9	10.1	10.4		100
10-10-20S	26048	9.5*	10.2	20.1	*	98
10-10-20S	26966	9.7	10.1	19.9		99
12- 5-20S	27139	12.2	3.8*	17.1*		93*
12-12-12M	26973	11.0*	11.7*	11.9		95*
12-12-12M	27320	11.5*	11.6*	12.6		97*
15-15-15M	25988	14.5*	15.0	14.7		98
15-15-15M	27442	14.9	15.0	15.1		100
20-10-10M	26365	19.1*	10.4	10.8		99
20-10-10M	26957	20.9	10.3	9.0*		103
21-53- 0	27120	20.8	54.1	0.0		101
BURLEY BELT CHEMICAL COMPANY		LONDON			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20- 0	27289	0.0	19.7	0.0		99
0-20-20M	25883	0.0	21.5	20.3		105
0-25-25M	26441	0.0	20.9*	21.7*		85*
0-46- 0	27174	0.0	45.1*	0.0		98
3- 9- 6M	26377	3.4	8.6*	7.7		106
3- 9- 6M	26440	3.5	8.3*	7.1		103
3- 9- 6M	26447	3.1	8.5*	6.6		100
4-12- 8M	26964	4.1	11.5*	8.1		98
4-16- 4S	26378	4.5	15.6	5.1		104
4-16- 4S	26380	4.1	11.5*	8.4		91*
4-16- 4S	26448	5.4	13.5*	9.2	*	109

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

BURLEY BELT CHEMICAL COMPANY		LONDON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-10-5M	26446	5.1	10.1	5.1		101	
5-10-10M	26437	4.5*	9.6*	10.5		96*	
5-10-15S	25765	5.4	9.5*	14.9		100	
5-10-15S	25882	5.4	9.9	15.0		102	
5-10-15S	25953	5.9	9.8	15.1		105	
5-10-15S	26100	5.2	9.4*	15.8		100	
5-10-15S	26432	5.0	9.4*	15.7		99	
5-10-15S	26473	5.0	9.6*	15.2		99	
5-10-15S	27081	5.4	9.6*	15.0		101	
5-10-15S	27173	4.9	9.6*	14.9		98	
5-20-20M	25456	5.8	20.2	19.8		103	
5-20-20M	25470	5.8	19.8	18.3*		101	
5-20-20M	25682	5.3	19.9	19.9		101	
5-20-20M	25763	5.2	17.6*	18.3*		92*	
5-20-20M	25881	4.6*	18.9*	21.3		97*	
5-20-20M	26090	4.9	18.8*	20.1		97*	
5-20-20M	26098	4.9	18.8*	20.9		98	
5-20-20M	26099	5.1	18.7*	20.9		98	
5-20-20M	26435	4.8	19.7	19.9		98	
6-6-18S	26442	5.9	5.7*	18.6		99	
6-6-18S	27388	5.7	6.4	19.0		102	
6-12-12M	25495	5.8	11.7	12.1		98	
6-12-12M	25582	5.9	11.8	12.4		99	
6-12-12M	26091	6.2	11.7	12.4		101	
6-12-12M	26434	5.7*	11.4*	11.9		96*	
6-12-12M	26472	5.6*	11.7	12.1		97*	
6-12-12M	26893	5.4*	10.8*	12.1		92*	
6-12-18S W/ME	26443	6.0	11.3*	17.9		97*	
10-10-10M	25764	10.0	9.6*	10.2		99	
10-10-10M	25952	10.2	9.9	10.2		101	
10-10-10M	26431	9.5*	9.7*	10.0		96*	
10-10-10M	26965	10.0	9.5*	10.6		99	
10-10-10M	27175	9.4*	10.0	10.4		98	
10-10-20S	27176	8.4*	10.0	17.9*	*	90*	
10-15-20S	26436	10.1	13.9*	20.6		98	
16-4-8M W/ME	26438	15.3*	4.4	8.4		98	
20-10-10M	25681	20.5	10.2	11.3		104	
20-10-10M	26433	20.5	10.1	10.2		102	
BURLEY BELT CHEMICAL CO		FERGUSON		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20-0	27470	0.0	19.6	0.0		98	
0-46-0	27469	0.0	46.2	0.0		101	
5-20-20M	27462	4.8	18.9*	18.9*		95*	
5-20-20M	27464	4.9	18.5*	19.4*		95*	
6-12-12M	26881	5.9	11.4*	11.9		97*	
6-12-12M	26892	5.8	11.8	12.2		99	
6-12-12M	27203	4.8*	8.5*	12.4		81*	
6-12-18S W/ME	27463	5.7	10.9*	18.5		96*	
10-10-10M	26833	9.5*	10.5	11.3		101	
CAMPBELLSVILLE CROP SERVICE		CAMPBELLSVILLE KY.					
GRADE	NUM	N	APA	POT	XS CL	RV	
6-26-25M	26813	6.5	22.8*	29.6		97*	
12-7-11S	27262	13.6	7.9	10.9	*	108	
13-11-11M	26812	15.8	9.5*	14.6		110	
17-17-17M	26811	17.0*	14.7*	21.2		96*	



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

GRADE	NUM	N	APA	POT	XS CL	RV
CAUDILL & GUTHRIE SEED CO. SHELBYVILLE KY.						
3-10-27M	26540	3.5	10.1	27.6		104
18- 9- 9M	27402	17.8	9.5	8.9		100
CAYCE LIME & FERTILIZER FULTON KY.						
6-18-37M	27330	5.6*	11.5*	46.5		94*
CENTRAL FARMERS FERT. COMPANY CHICAGO ILL.						
0-46- 0	26844	0.0	46.8	0.0		102
0-46- 0	27476	0.0	46.3	0.0		101
0-46- 0	27538	0.0	46.8	0.0		102
CHEVRON CHEMICAL CO-ORTHO DIV RICHMOND CAL.						
8-12- 4M	26930	8.5	12.8	4.3		106
10- 8- 7M W/ME	26931	10.0	8.5	7.7		103
10-20-20M	25852	10.7	20.4	19.5*		103
10-20-20M	27512	10.2	20.4	19.5*		101
12- 6- 6M W/ME	26929	12.1	6.2	6.5		102
16-16-16M	25811	15.7	16.4	16.6		101
16-16-16M	25851	15.9	14.6*	16.4		97*
16-16-16M	25900	16.0	16.7	15.9		101
16-16-16M	26043	16.0	15.6	16.2		99
16-16-16M	26220	15.6	16.6	15.9		100
20-10-10M	26932	20.0	10.9	10.5		102
20-10-10M	27013	20.5	9.7*	9.9		101
22- 4- 4S W/ME	26068	23.2	4.7	4.2		106
22- 4- 4S W/ME	26572	21.9	4.8	4.9		103
33- 0- 0	26044	33.5	0.0	0.0		100
34- 0- 0	26290	36.0	0.0	0.0		106
CHILEAN NITRATE SALES CORP. NEW YORK N.Y.						
15- 0-14NIT	27563	15.3	0.0	14.2		101
16- 0- 0	26836	15.6	0.0	0.0		98
CHRISTIAN COUNTY SUPPLY CO. HOPKINSVILLE KY.						
5-20-20M	26801	4.8	21.0	15.5*		96*
CITY SERVICE IMP CHEM DIV ATLANTA GA						
0-46- 0	26594	0.0	44.9*	0.0		98
18-46- 0	26593	18.2	46.8	0.0		102
CLINE FERTILIZER COMPANY EWING VA.						
0-20-20M	26903	0.0	19.6	21.3		101
5-10-10M	26901	5.9	10.0	9.3*		104
6-12-12M	26902	4.5*	13.5	13.9		100
10-20-20M	25505	9.3	20.9	20.0		102
COMINCO AMERICAN INC SPOKANE WASH						
82- 0- 0	27544	82.2	0.0	0.0		100
COMMERCIAL SOLVENTS CORP. NEW YORK N.Y.						
33- 0- 0	25835*	33.6	0.0	0.0		100
COMMONWEALTH FERTILIZER CO. RUSSELLVILLE KY.						
0- 0-60M	26202	0.0	0.0	59.2		99
0-20-20M	25634	0.0	27.5	16.9*		120
0-25-25M	26333	0.0	28.8	22.4*		106
0-26-26M	25538	0.0	29.2	23.6*		105

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

COMMONWEALTH FERTILIZER CO.		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-26-26M	26401	0.0	20.6*	33.5		96*
0-30-20M	25636	0.0	36.0	14.3*		108
0-46-0	26640	0.0	44.5*	0.0		97*
0-46-0	27530	0.0	44.8*	0.0		97*
4-16-4S	25895	3.8	19.7	3.0*	*	112
5-20-20M	25257	5.4	22.0	20.1		107
5-20-20M	26270	5.5	17.4*	22.9		99
5-20-20M	26559	5.3	22.9	16.4*		104
5-20-20M	26776	5.5	18.8*	19.9		99
5-20-20M	27199	5.4	17.8*	20.5		96*
5-33-13M W/ME	26558	5.8	33.4	13.0		103
5-33-13M W/ME	27197	5.6	32.3*	13.2		101
5-33-13M W/ME	27200	6.0	33.7	12.5*		104
5-33-13M W/ME	27264	5.6	31.4*	13.2		99
6-12-12M	25637	5.4*	15.0	14.5		112
6-12-12M	25872	5.6*	13.6	13.3		106
6-12-12M	26171	5.7*	14.0	13.6		109
6-12-12M	26615	7.3	10.9*	13.9		106
6-12-18S W/ME	26638	6.4	12.1	17.6	*	101
6-12-18S W/ME	27045	6.3	11.9	17.1*		99
6-18-12M	25539	5.8	20.2	12.0		105
6-18-12M	25540	5.9	18.8	12.7		103
6-18-12M	26056	5.8	16.7*	13.7		98
6-21-18M W/ME	27427	6.5	19.6*	19.2		100
6-24-24M W/ME	26269	6.3	24.0	24.1		101
7-21-10M	26649	7.8	22.5	8.1*		104
7-21-10M W/ME	27198	7.2	17.4*	13.0		95*
8-12-15S W/ME	26639	7.7	12.0	14.7	*	98
8-12-15S W/ME	27044	7.5*	12.3	14.9	*	98
10-10-10M	25251	9.3*	10.2	12.1		101
10-10-10M	25633	9.3*	10.9	11.4		102
10-10-10M	25871	9.4*	10.5	11.1		100
10-10-10M	26116	9.3*	10.2	12.6		101
10-10-10M	26271	8.6*	10.8	13.5		101
10-10-10M	25402	8.3*	12.6	14.0		107
10-10-10M	26560	8.6*	12.0	13.0		104
10-10-10M	27263	8.6*	11.1	11.8		99
10-10-10M	27297	8.9*	11.2	11.8		101
10-10-10M	27436	8.5*	11.7	11.1		100
10-20-20M	26118	9.6*	19.1*	18.2*		94*
18-46-0	25635	17.4*	45.0*	0.0		97*
18-46-0	27529	17.4*	44.6*	0.0		97*
28-0-0	27043	28.3	0.0	0.0		101
33-0-0	25259	34.1	0.0	0.0		102
33-0-0	25836	33.6	0.0	0.0		100
33-0-0	26203	34.3	0.0	0.0		102
CRESTLINE INTERNATIONAL		CRESTLINE OHIO				
GRADE	NUM	N	APA	POT	XS CL	RV
10-6-4M	26503	7.7*	5.9	4.5		85*
CRITTENDEN CO FARM & HOME SUP.		MARION KY				
GRADE	NUM	N	APA	POT	XS CL	RV
12-30-20M	25537	11.3*	28.6*	22.5		97*
JACK EDGE		FORDVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
7-20-33M	27368	9.0	23.3	30.6*		107



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

ELANCO PRODUCTS COMPANY		INDIANAPOLIS IND.			XS	CL	RV
GRADE	NUM	N	APA	POT			
24- 6- 6M	26994	24.1	6.7	6.4			102
ELKTON CROP SERVICE		GUTHRIE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
5-20-20M	26561	5.2	22.7	27.6			118
10-16-16M	27058	11.3	14.9*	15.3*			99
16-23- 0	26562	15.7*	24.2	0.0			99
E-Z-FLO CHEMICAL CO		COLUMBUS OHIO			XS	CL	RV
GRADE	NUM	N	APA	POT			
6-18- 6M	27930	6.7	20.0	8.0			113
FARMERS CHEMICAL ASS'N., INC.		HARRISON TENN			XS	CL	RV
GRADE	NUM	N	APA	POT			
30- 0- 0	27269	30.8	0.0	0.0			103
30- 0- 0	27493	31.2	0.0	0.0			104
30- 0- 0	27495	31.6	0.0	0.0			105
30- 0- 0	27532	30.9	0.0	0.0			103
34- 0- 0	25949	35.3	0.0	0.0			102
FARMERS FERTILIZER COMPANY		SMITHS GROVE KY			XS	CL	RV
GRADE	NUM	N	APA	POT			
10-10-15S	26602	7.7*	8.0*	14.4*			82*
15-15-15M	26604	14.5*	14.8	16.5			99
FARMERS GIN COMPANY		CLINTON KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0- 9-48M	27331	0.0	8.8*	48.9			100
FARMLAND INDUSTRIES INC.		KANSAS CITY MO.			XS	CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	26922	5.2	10.8	14.3*			103
6-24-24M	25916	6.3	23.9	23.5*			100
12-12-12M	25914	12.2	11.4*	10.7*			97*
15-15-15M	25915	15.7	14.9	16.1			103
FEDERAL CHEMICAL COMPANY		HUMBOLDT TENN			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	26789	0.0	20.2	20.0			101
5-10-15S	26726	5.0	9.9	14.3*			98
5-10-15S	27451	5.4	10.6	14.8	*		104
5-20-20M	25433	5.4	20.4	18.3*			100
6-12-12M	25935	5.9	12.4	10.7*			98
6-12-12M	26725	6.7	11.6*	13.5			105
6-24-24M	25352	6.3	21.0*	24.0			94*
6-24-24M	25750	6.1	23.2*	25.4			100
6-24-24M	27450	6.3	22.5*	21.0*			94*
10-10-10M	27448	9.9	10.0	10.2			100
12-12-12M	27326	13.1	11.9	11.9			104
15-15-15M	26790	15.0	13.8*	15.6			98
15-15-15M	27447	14.3*	16.0	13.1*			98
FEDERAL CHEMICAL COMPANY		LOUISVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	25275	0.0	19.4*	21.2			100
0-20-20M	25780	0.0	17.6*	19.4*			91*
0-20-20M	26458	0.0	20.7	21.6			105
0-25-25M	25399	0.0	24.9	25.0			100
0-25-25M	25450	0.0	25.1	26.1			102
0-25-25M	26249	0.0	24.1*	25.1			98
0-25-25M	26744	0.0	24.5	23.3*			96*
0-25-25M	27220	0.0	16.4*	35.5			91*
4-12- 8M	25600	8.5	12.2	9.9			136
4-12- 8M	26067	4.4	11.8	7.5*			101
4-12- 8M	26267	5.5	13.2	13.7			128

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

FEDERAL CHEMICAL COMPANY		LOUISVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
4-16- 4S	25735	3.7	15.5*	7.4	*	103	
4-16- 4S	25950	4.1	14.2*	7.4		100	
4-16- 4S	26029	3.9	15.3*	5.9	*	100	
4-16- 4S	26039	0.5*	19.3	1.2*		86*	
5-10-15S	25486	6.0	10.8	17.0	*	113	
5-10-15S	25733	5.5	11.2	14.9	*	108	
5-10-15S	25781	5.6	10.5	14.1*	*	103	
5-10-15S	25986	5.2	10.0	14.0*		99	
5-10-15S	26023	5.8	15.6	16.9	*	131	
5-10-15S	26032	5.2	10.8	15.2	*	105	
5-10-15S	26075	4.8	10.0	14.0*		97*	
5-10-15S	26161	4.9	10.6	14.4*	*	101	
5-10-15S	26246	5.2	9.6*	13.8*		97*	
5-10-15S	26264	5.5	10.3	14.8	*	103	
5-10-15S	26344	5.3	10.8	14.6*		104	
5-10-15S	26475	5.4	10.6	14.4*		104	
5-10-15S	26505	5.6	11.2	14.9		108	
5-10-15S	26680	5.6	10.3	14.5*	*	103	
5-10-15S	26717	5.1	9.7*	15.2	*	100	
5-10-15S	26834	5.7	10.0	15.1		104	
5-10-15S	26990	5.5	15.7	17.5	*	131	
5-10-15S	27128	5.7	20.6	17.6	*	151	
5-20-20M	25324	5.3	21.9	21.7		109	
5-20-20M	25375	5.4	19.9	18.1*		99	
5-20-20M	25400	5.3	21.5	16.7*		101	
5-20-20M	25478	4.9	20.5	20.9		102	
5-20-20M	25484	4.9	21.8	18.8*		103	
5-20-20M	25546	5.3	20.9	17.2*		100	
5-20-20M	25611	5.9	18.3*	18.7*		97*	
5-20-20M	25618	4.8	22.2	16.4*		100	
5-20-20M	25734	5.0	20.2	20.2		101	
5-20-20M	25778	5.0	18.4*	20.1		96*	
5-20-20M	25809	5.2	18.8*	20.7		98	
5-20-20M	26007	5.2	21.2	17.3*		100	
5-20-20M	26022	5.2	19.6*	18.0*		97*	
5-20-20M	26073	4.9	18.8*	20.6		97*	
5-20-20M	26157	4.7	20.7	19.1*		99	
5-20-20M	26247	5.2	19.3*	20.3		99	
5-20-20M	26329	4.9	21.3	18.6*		101	
5-20-20M	26335	4.8	18.6*	21.1		97*	
5-20-20M	26506	5.9	19.3	16.0*		97*	
5-20-20M	26671	5.2	18.2*	18.6*		94*	
5-20-20M	26719	4.8	20.0	19.9		99	
5-20-20M	26874	5.7	17.0*	19.5*		94*	
5-20-20M	26992	5.4	19.9	20.7		102	
5-20-20M	27204	6.0	20.4	15.8*		100	
5-20-20M	27221	5.3	18.2*	18.9*		95*	
5-20-20M	27407	6.5	19.9	16.1*		100	
5-20-20M	27475	5.5	20.2	18.4*		101	
5-25-15M W/ME	26265	5.5	22.2*	14.6*		94*	
6-12-12M	25274	6.5	12.1	12.1		104	
6-12-12M	25320	6.0	15.1	12.7		113	
6-12-12M	25325	5.9	15.9	12.1		114	
6-12-12M	25477	6.3	12.1	12.0		102	
6-12-12M	25485	6.4	12.5	13.2		106	
6-12-12M	25601	6.0	13.6	11.3*		105	
6-12-12M	25626	6.3	11.7	12.4		101	



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

FEDERAL CHEMICAL COMPANY		LOUISVILLE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	25662	6.1	12.2	11.4*		100
6-12-12M	25736	5.6*	12.0	12.2		98
6-12-12M	25808	6.7	11.7*	11.9		102
6-12-12M	25985	5.5*	12.0	13.0		99
6-12-12M	26031	5.9	8.9*	13.9		91*
6-12-12M	26074	5.6*	12.7	12.1		100
6-12-12M	26317	5.6*	13.9	15.8		112
6-12-12M	26425	5.5*	11.1*	13.0		95*
6-12-12M	26474	5.6*	9.4*	13.9		91*
6-12-12M	26511	5.8	12.2	13.0		102
6-12-12M	26517	5.1*	11.0*	13.7		94*
6-12-12M	26679	5.8	11.7	13.6		101
6-12-12M	26815	6.1	11.9	12.1		100
6-12-12M	26991	6.0	12.4	12.8		103
6-12-12M	27323	5.9	13.3	11.1*		102
6-12-12M	27422	6.0	11.9	14.0		103
6-24-24M	26266	5.9	22.6*	25.4		98
6-24-24M	26346	6.6	22.2*	21.5*		95*
6-24-24M	26742	6.1	23.4*	23.6		99
6-24-24M	26855	5.9	22.2*	25.0		97*
6-24-24M	27415	6.0	19.8*	22.3*		89*
8-32-16M	27416	8.5	29.6*	16.2		97*
9-10-15S	25717	8.6*	11.4	14.9	*	102
9-10-15S	26030	7.9*	10.0	14.3*		93*
9-10-15S	26248	6.8*	10.3	15.1		90*
9-10-15S	26258	8.2*	11.7	14.8	*	102
9-10-15S	26507	9.2	11.5	14.9	*	105
9-10-15S	27137	7.7*	10.6	16.0		97*
9-10-15S	27440	8.4*	11.3	16.3	*	103
10-10-10M	25326	10.4	10.0	9.9		102
10-10-10M	25330	10.1	10.7	10.1		103
10-10-10M	25346	10.3	10.8	10.2		105
10-10-10M	25376	9.3*	10.9	10.2		100
10-10-10M	25402	9.8	11.6	10.0		104
10-10-10M	25422	10.4	9.9	10.2		102
10-10-10M	25547	10.2	10.3	10.7		103
10-10-10M	25602	8.7*	12.2	10.1		101
10-10-10M	25617	10.5	11.6	10.2		108
10-10-10M	25625	9.5*	9.9	10.2		97*
10-10-10M	25779	10.7	10.9	10.9		108
10-10-10M	25807	10.3	9.9	10.5		102
10-10-10M	25825	9.8	11.1	11.2		104
10-10-10M	25984	9.8	10.4	11.6		103
10-10-10M	26021	10.3	10.3	10.2		103
10-10-10M	26066	9.8	9.2*	11.9		99
10-10-10M	26159	10.0	9.6*	10.8		100
10-10-10M	26245	10.5	10.7	10.3		105
10-10-10M	26257	10.1	9.5*	10.0		99
10-10-10M	26345	9.6*	9.5*	10.6		97*
10-10-10M	26508	10.2	9.9	11.0		102
10-10-10M	26519	10.0	11.2	10.1		104
10-10-10M	26718	8.7*	11.7	13.6		105
10-10-10M	26741	9.7	10.6	10.7		102
10-10-10M	26816	10.4	10.8	10.6		105
10-10-10M	26993	9.4*	12.3	10.5		105
10-10-10M	27441	9.9	9.9	11.2		101
10-10-15M W/ME	26925	10.5	10.3	15.0		103

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
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					
10-10-15S W/ME	25879		9.6*	11.0	15.5				102	
10-10-15S W/ME	26250		9.9	10.0	16.1	*			101	
10-10-15S W/ME	26701		9.6*	10.0	16.5	*			100	
10-10-15S W/ME	26743		10.0	3.9*	16.0				93	
10-10-15S W/ME	26856		9.8	9.9	15.6	*			100	
10-10-15S W/ME	26974		8.8*	13.6	14.6*				105	
12-12-12M	25388		12.3	11.9	12.7				102	
12-12-12M	25401		12.0	15.5	9.9*				107	
12-12-12M	25660		12.0	12.2	11.6*				100	
12-12-12M	25718		12.6	11.2*	12.5				101	
12-12-12M	25983		11.0*	12.4	11.6*				97*	
12-12-12M	26006		11.9	13.6	11.9				104	
12-12-12M	26512		11.9	11.6*	13.6				101	
12-12-12M	26518		9.4*	11.8	12.1				89*	
12-12-12M	26835		11.4*	12.9	13.0				101	
12-12-12M	27000		11.2*	10.6*	11.1*				91*	
12-12-12M	27324		9.9*	10.3*	13.3				88*	
12-12-12M	27408		11.0*	12.6	13.3				99	
FEDERAL CHEMICAL COMPANY			NASHVILLE			TENN		XS	CL	RV
GRADE	NUM		N	APA	POT					
0-20-0	27051		0.0	20.3	0.0				102	
0-20-20M	27482		0.0	19.9	20.6				100	
0-47-0	25351		0.0	45.0*	0.0				96*	
4-12-8M	25892		4.3	12.1	10.9				109	
4-16-4S	26292		5.0	14.2*	8.3	*			107	
5-10-15S	26293		5.2	10.2	14.8	*			101	
5-20-20M	25349		5.2	19.8	19.2*				99	
5-20-20M	25353		5.1	19.9	18.6*				98	
5-20-20M	27458		4.9	18.1*	21.4				96*	
5-25-15M W/ME	27076		5.7	23.7*	14.9				99	
10-10-10M	25350		9.9	10.9	10.4				103	
10-10-10M	25511		9.4*	10.7	9.2*				98	
10-10-10M	25751		10.6	9.7*	10.0				102	
10-10-10M	27077		10.1	10.0	9.9				100	
10-10-10M	27457		9.8	10.5	9.6*				100	
10-10-15S W/ME	25752		10.6	10.2	15.0				103	
10-10-15S W/ME	26294		10.4	10.1	14.9	*			102	
12-12-12M	26942		11.9	11.4*	12.3				98	
12-12-12M W/ME	25893		11.8	10.3*	13.3				96*	
33-0-0	25753		33.9	0.0	0.0				101	
FRANKLIN CROP SERVICE			FRANKLIN			KY.		XS	CL	RV
GRADE	NUM		N	APA	POT					
5-20-20M	25420		5.9	17.8*	17.4*				94*	
6-21-18M	25415		6.9	18.2*	19.5				98	
82-0-0	27290		81.9	0.0	0.0				100	
FRASIER SUPPLY CO.			GLASGOW			KY.		XS	CL	RV
GRADE	NUM		N	APA	POT					
0-0-50S	26599		0.0	0.0	51.1				102	
0-0-50S	26632		0.0	0.0	49.5				99	
0-20-0	27492		0.0	20.7	0.0				103	
3-31-18M	26635		0.0	27.3*	24.6				97*	
3-46-0	27496		0.0	46.6	0.0				101	
5-10-15S	26444		5.4	10.9	15.5				107	
5-10-15S	26952		5.7	11.0	14.3*				107	
5-20-20M	25270		5.6	18.8*	24.4				105	
5-20-20M	26405		5.1	19.3*	20.7				99	
5-20-20M	26595		4.8	18.1*	25.1				101	



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
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FRASIER SUPPLY CO.		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	26597	4.9	20.1	19.9		100
5-20-20M	26633	5.3	20.0	21.0		103
5-20-20M	26636	5.8	17.8*	22.3		101
5-20-20M	26953	5.4	20.2	20.9		103
6-12-12M	25272	6.7	12.9	12.8		109
10-10-10M	25271	9.8	9.9	9.0*		97*
10-10-10M	27050	10.3	9.9	10.6		102
16-12-12M	26598	14.0*	11.4*	15.4		94*
20-15-15M	26631	19.9	14.6*	17.0		101
21- 8-16M	27053	23.2	7.2*	19.6		106
22-10-13M	26634	21.5*	9.6*	17.1		99
GENES 'AG' SUPPLY		STURGIS			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
3-10-30M	26826	3.1	9.4*	30.3		99
5-15-30M	26629	5.5	14.2*	28.6*		98
5-15-30M	26827	5.3	14.9	29.9		101
5-15-30M	26828	5.4	14.5*	30.0		100
21-14- 0	26630	24.0	10.4*	0.0		100
GLASGOW FERTILIZER COMPANY		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0-19-38M	26208	0.0	20.5	33.3*		98
0-20-20M	26085	0.0	22.4	19.3*		107
0-46- 0	27494	0.0	45.2	0.0		98
5-10-10M	26206	5.2	11.0	10.1		106
5-10-10S	26204	5.0	9.7*	10.7		100
5-10-15S	26315	4.8	10.4	15.4		101
5-10-15S	26445	4.9	12.2	14.1*		106
5-10-15S	27055	4.8	11.7	14.9		105
5-10-15S W/ME	26138	4.9	10.5	16.2		104
5-10-15S W/ME	26888	4.4*	12.7	13.6*		104
5-10-15S W/ME	27047	4.6*	9.9	15.7		99
5-20-20M	25488	5.3	19.9	21.3		103
5-20-20M	25489	4.7*	23.4	22.6		111
5-20-20M	26087	5.4	22.6	18.3*		106
5-20-20M	27515	6.3	23.5	16.4*		110
6-12-12M	26137	5.8	11.5*	12.9		99
6-12-12M	26596	6.9	14.3	13.5		116
6-12-12M	27048	5.9	13.0	12.3		104
6-12-12M	27517	6.0	12.2	11.5*		100
10-10-10M	25249	12.7	13.1	10.1		124
10-10-10M	25487	10.6	10.9	10.1		106
10-10-10M	25610	7.9*	9.4*	17.3		100
10-10-10M	25729	9.4*	10.3	11.5		100
10-10-10M	26086	9.9	10.1	11.0		102
10-10-10M	26207	9.9	9.6*	10.8		99
10-10-10M	26312	9.5*	9.6*	11.3		98
10-10-10M	27049	10.3	11.2	9.5*		105
10-10-10S	26205	9.5*	10.3	11.4		101
10-15-15S	26311	10.2	15.8	15.7		104
10-15-15S W/ME	26083	10.3	14.7	15.5		101
10-20-30M	26590	10.5	20.9	29.9		103
12-24-24M	25609	11.2*	22.0*	26.9		97*
12-24-24M	26088	11.7	24.9	24.5		101
15-15-15M	26084	14.6	15.6	17.0		102
W R GRACE & CO-DAV CHEM DIV		BARTOW			FLA.	
GRADE	NUM	N	APA	POT	XS CL	RV
18-46- 0	27367	17.8	46.0	0.0		100

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

W R GRACE & CO-AGR PROD DIV		CADIZ		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-15-20M	25643	6.0	13.5*	21.1			102
5-15-20M	26793	5.6	14.6	19.9			101
5-15-20M	27345	5.8	15.7	17.0*			101
6-12-12M	26797	6.1	11.6*	13.0			100
6-18-18M	25553	6.4	18.6	16.9*			102
11- 8-13M	27344	12.5	5.9*	10.3*			91*
15-10-10M	25479	16.1	9.9	10.4			104
W R GRACE & CO-AGR PROD DIV		GUTHRIE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-15-20M	27064	8.0	14.0*	18.5*			108
10- 9-13M	27383	10.9	9.9	10.5*			98
W R GRACE & CO AGRI CHEM GROUP		MAYFIELD		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
6-18-18M	27348	5.2*	14.9*	18.7			89*
W R GRACE & CO-AGR PROD DIV		HOPKINSVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
4-12-20M	27336	3.9	10.2*	22.0			97*
4-12-20M	27454	4.1	11.8	21.0			101
5-15-25M	25394	5.3	16.5	25.3			106
5-15-25M	26800	5.0	13.7*	26.6			98
5-15-25M	27024	5.8	14.5*	23.1*			99
5-15-25M	27027	5.7	13.9*	25.9			101
5-15-25M	27328	4.9	13.6*	25.4			96*
6-18-12M	25567	7.1	17.8	11.2*			103
9-10-15S	27026	9.3	9.1*	15.2			99
9-10-15S	27445	8.5*	10.7	11.1*	*		93*
9-10-15S	27459	7.4*	9.8	14.9	*		91*
9-27- 0	26799	9.9	26.0*	0.0			101
30- 0- 0	27218	30.4	0.0	0.0			101
30- 0- 0	27349	29.9	0.0	0.0			99
W R GRACE & CO AGRI CHEM GROUP		MEMPHIS		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
0-46- 0	26845	0.0	44.3*	0.0			96*
4-12- 8M	26339	4.8	12.6	11.8			117
4-16- 4S	26343	4.6	16.3	5.4	*		107
5-10-15S	26711	5.3	10.8	15.2	*		105
5-10-15S	26837	5.1	11.5	14.9	*		106
5-10-15S	26879	5.0	10.3	15.2			102
5-20-20M	26411	4.8	18.8*	19.9			96*
5-20-20M	27015	4.7	19.6	19.5*			97*
5-20-20M	27205	4.9	19.2*	20.2			97*
5-20-20M	27355	4.8	19.1*	21.0			98
5-20-20M	27490	4.2*	19.2*	20.6			95*
6- 6-18S	26480	5.9	7.5	18.5	*		107
6-12-12M	26670	6.0	12.3	12.9			103
6-12-12M	27489	5.5*	12.2	12.6			99
6-12-12M	27564	5.7*	11.6*	12.8			98
6-24-24M	26214	6.0	22.0*	23.8			95*
6-24-24M	26391	5.9	21.6*	24.2			94*
6-24-24M	26605	5.9	21.8*	23.7			94*
6-24-24M	26606	6.1	23.2*	23.9			98
6-24-24M	26607	5.6*	23.4*	22.7*			96*
6-24-24M	26608	6.0	22.6*	23.9			97*
6-24-24M	26819	5.7	21.8*	24.1			94*
6-24-24M	26820	5.9	22.0*	23.9			95*
6-24-24M	26955	6.0	24.5	20.3*			97*
6-24-24M	27214	5.9	24.3	22.1*			98



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

W R GRACE & CO AGRI CHEM GROUP		MEMPHIS		TENN			
GRADE	NUM	N	APA	POT	XS CL	RV	
12-12-12M	27356	11.9	11.4*	12.6		98	
18-46- 0	27371	18.4	46.9	0.0		102	
33- 0- 0	26127	34.1	0.0	0.0		102	
33- 0- 0	26423	33.6	0.0	0.0		100	
82- 0- 0	26796	82.1	0.0	0.0		100	
82- 0- 0	27291	82.0	0.0	0.0		100	
82- 0- 0	27329	81.8	0.0	0.0		100	
82- 0- 0	27381	82.1	0.0	0.0		100	
82- 0- 0	27444	82.0	0.0	0.0		100	
82- 0- 0	27455	81.9	0.0	0.0		100	
82- 0- 0	27540	82.1	0.0	0.0		100	
W R GRACE & CO-AGR PROD DIV		NASHVILLE		TENN			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20- 0	26132	0.0	19.0*	0.0		95	
0-20- 0	27338	0.0	19.5*	0.0		97*	
0-20-20M	25754	0.0	20.1	17.8*		97*	
0-46- 0	27337	0.0	44.4*	0.0		97*	
0-46- 0	27358	0.0	45.5	0.0		99	
3-10-30M	25798	2.9	10.4	27.8*		97*	
3-10-30M	26079	2.7	9.9	30.1		98	
3-10-30M	26389	3.1	10.0	27.9*		97*	
4-12- 8M	25372	4.0	12.7	8.9		105	
4-12- 8M	26131	4.1	11.7	8.7		101	
4-16- 4S	26410	4.2	16.0	5.3		104	
5-10-15S	25666	5.0	10.0	14.7		99	
5-10-15S	25728	5.0	9.6*	14.5*	*	97*	
5-10-15S	25846	5.3	9.9	14.5*	*	100	
5-10-15S	26130	5.1	9.7	14.8		99	
5-10-15S	26395	5.0	9.5*	14.7		98	
5-10-15S	26409	4.8	9.6*	14.7		96*	
5-20-20M	25361	5.2	18.5*	18.1*		94*	
5-20-20M	25367	5.2	21.1	19.9		103	
5-20-20M	25423	5.5	20.7	19.0*		103	
5-20-20M	25448	4.9	20.0	21.2		101	
5-20-20M	25560	4.2*	19.4*	18.6*		93*	
5-20-20M	25847	5.1	19.4*	17.1*		95*	
5-20-20M	26133	4.8	20.2	20.0		100	
5-20-20M	26390	5.0	18.8*	19.9		96*	
5-20-20M	26390	5.0	18.8*	19.9		106	
6-12-12M	25409	6.6	12.5	12.5		98	
6-12-12M	25411	5.2*	12.4	12.3		96*	
6-12-12M	25463	5.2*	12.1	12.1		96*	
6-12-12M	25575	5.2*	11.0*	14.4		99	
6-12-12M	25630	5.8	12.1	12.1		97*	
6-12-12M	25701	5.6*	12.0	11.6*		100	
6-12-12M	25727	6.3	11.2*	12.7		100	
6-12-12M	26134	5.7*	12.1	12.6		100	
6-12-12M	26394	5.7*	12.5	12.0		99	
6-24-24M	25362	5.6*	24.1	24.0		102	
6-24-24M	25410	5.7*	25.9	22.8*		96*	
6-24-24M	25557	6.0	22.9*	22.9*		93*	
6-24-24M	25584	4.7*	23.0*	23.7		99	
6-24-24M	25632	5.2*	25.6	22.7*		86*	
6-24-24M	25668	4.8*	21.1*	20.7*		96*	
6-24-24M	25797	6.1	23.0*	22.3*		93*	
6-24-24M	26078	5.7*	21.2*	24.5		101	
6-24-24M	26080	7.5	22.0*	24.7		98	
6-24-24M	26936	6.2	23.1*	23.2*		98	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

W R GRACE & CO-AGR GRADE	PROD DIV NUM	NASHVILLE		TENN	XS CL	RV
		N	APA	POT		
6-24-24M	27017	6.0	22.5*	23.3*		96*
10-10-10M	25269	10.0	10.3	11.0		103
10-10-10M	25368	8.9*	10.2	10.4		96*
10-10-10M	25408	9.9	10.1	10.1		100
10-10-10M	25449	10.8	10.1	10.0		104
10-10-10M	25631	9.4*	9.9	10.3		97*
10-10-10M	25667	9.5*	9.9	10.5		98
10-10-10M	25848	10.1	9.9	10.3		100
10-10-10M	26135	9.2*	9.9	9.7		95*
10-10-10M	26392	9.6*	9.6*	10.7		98
10-10-10M	27488	9.4*	10.5	10.1		99
10-10-15S	25559	9.7	10.0	15.0		99
10-10-15S	26393	9.4*	11.0	14.9	*	100
10-10-15S	26424	9.3*	10.9	14.9	*	99
10-10-15S	27025	9.9	10.8	14.9		101
10-20-20M	25373	8.5*	19.9	19.6		94*
15-15-15M	25424	15.2	13.7*	15.2		98
15-15-15M	25799	15.0	15.9	14.0*		101
15-15-15M	27526	14.8	14.4*	15.9		99
18-46- 0	27339	17.5*	46.2	0.0		99
30- 0- 0	27491	29.9	0.0	0.0		100
W R GRACE & CO-AGR GRADE	PROD DIV NUM	NEW ALBANY		IND.	XS CL	RV
		N	APA	POT		
0-20- 0	25327	0.0	21.6	0.0		103
0-20- 0	26298	0.0	19.3*	0.0		97*
0-25-25M	25321	0.0	28.8	20.5*		104
0-25-25M	25545	0.0	28.3	24.6		108
0-25-25M	27233	0.0	26.5	25.4		104
0-46- 0	27239	0.0	45.7	0.0		99
0-46- 0	27474	0.0	44.5*	0.0		97*
4-12- 8M	25297	4.4	12.4	12.0		113
4-12- 8M	25746	4.7	12.2	8.9		108
4-12- 8M	25768	4.7	13.0	9.3		112
4-12- 8M	26197	4.5	12.2	9.0		106
4-12- 8M	27232	4.4	12.1	9.5		106
4-16- 4S	26129	4.7	16.6	5.4	*	110
5-10-15S	25347	5.1	11.4	15.6		108
5-10-15S	25466	5.8	11.3	16.0	*	112
5-10-15S	25709	5.0	9.7*	14.9		98
5-10-15S	25744	5.0	10.2	15.6	*	102
5-10-15S	25761	5.0	11.2	16.0	*	107
5-10-15S	25767	4.9	10.4	15.9		103
5-10-15S	25823	4.9	10.6	14.9	*	102
5-10-15S	25919	4.8	9.4*	15.0	*	96*
5-10-15S	26119	4.9	10.5	15.6	*	103
5-10-15S	26125	5.0	10.4	15.5	*	103
5-10-15S	26215	5.0	10.3	16.4	*	104
5-10-15S	26297	4.9	10.7	15.3		103
5-10-15S	26319	5.1	10.9	15.4	*	105
5-10-15S	26332	5.1	10.5	15.6	*	103
5-10-15S	26354	5.3	9.7*	15.8		102
5-10-15S	26482	5.3	10.9	16.7	*	109
5-10-15S	26669	5.1	9.8	15.7	*	101
5-10-15S	26911	5.7	12.8	14.9	*	115
5-10-15S	27311	4.6*	9.4*	15.3		96*
5-20-20M	25296	4.4*	20.4	20.8		100
5-20-20M	25464	5.0	20.5	20.9		103



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cent or less indicated by asterisk.

W R	GRACE & CO-AGR	PROD DIV	NEW ALBANY		IND.	XS CL	RV
	GRADE	NUM	N	APA	POT		
	5-20-20M	25591	4.3*	20.6	19.9		99
	5-20-20M	25652	4.6*	20.4	20.8		100
	5-20-20M	25672	4.4*	20.7	22.0		102
	5-20-20M	25695	4.7	21.8	19.1*		102
	5-20-20M	25710	17.8	20.1	21.3		153
	5-20-20M	25745	4.9	19.2*	21.3		99
	5-20-20M	25766	4.6*	19.9	20.8		99
	5-20-20M	26010	5.2	20.0	21.3		103
	5-20-20M	26097	4.8	18.2*	20.8		95*
	5-20-20M	26331	5.2	19.7	20.1		100
	5-20-20M	26664	4.7*	18.8*	20.7		96*
	5-20-20M	27556	4.3*	20.5	21.0		100
	6-12-12M	25447	6.4	12.3	12.2		104
	6-12-12M	25503	6.0	12.3	12.7		103
	6-12-12M	25707	5.7*	13.0	12.7		103
	6-12-12M	25826	5.4*	11.2*	12.9		95*
	6-12-12M	26120	6.0	12.3	12.8		103
	6-12-12M	26308	6.4	13.8	12.8		110
	6-12-12M	26525	5.7	13.2	10.9*		101
	6-12-12M	26839	6.4	12.4	13.0		105
	6-12-12M	27236	5.9	11.4*	12.6		98
	6-12-12M	27265	6.0	12.2	12.2		101
	6-12-18S	26011	6.0	12.4	18.2	*	101
	6-12-18S	26106	5.9	12.1	18.0	*	100
	6-12-18S	26196	6.1	12.2	18.3	*	102
	6-12-18S	26295	5.7*	12.5	19.0	*	101
	6-12-18S	27238	5.9	12.2	18.4	*	101
	6-12-18S	27387	5.5*	11.5*	18.0		96*
	6-24-24M	25322	6.1	24.9	23.5*		102
	6-24-24M	25696	5.7	23.8	23.0*		98
	6-24-24M	25742	6.0	23.3*	23.8		98
	6-24-24M	25918	6.1	23.3*	23.2*		98
	6-38- 6M W/ME	25558	5.7	36.5*	7.4		98
	6-38- 6M W/ME	26803	6.1	36.8*	6.9		99
	7-28-28M	26938	6.8	27.9	29.0		100
	10-10-10M	25369	9.8	10.5	9.9		101
	10-10-10M	25465	10.9	10.6	10.5		107
	10-10-10M	25592	9.9	10.6	10.8		103
	10-10-10M	25651	9.9	11.1	11.9		106
	10-10-10M	25706	12.9	10.2	10.8		116
	10-10-10M	25743	10.1	10.6	10.6		103
	10-10-10M	25760	9.9	10.6	19.9		118
	10-10-10M	25829	10.7	10.1	10.1		104
	10-10-10M	26194	9.9	10.1	11.6		102
	10-10-10M	26296	10.1	10.4	10.6		103
	10-10-10M	26318	9.9	10.5	10.7		102
	10-10-10M	26337	9.4*	10.3	10.9		99
	10-10-10M	26481	9.6*	10.5	11.0		101
	10-10-10M	26672	9.9	10.9	11.3		104
	10-10-10M	27231	10.1	10.3	10.4		102
	10-10-10M	27237	10.0	9.6*	10.9		100
	10-10-10M	27266	8.8*	11.3	10.9		102
	10-10-15M W/ME	25708	9.1*	10.6	15.3	*	98
	10-52- 8S	26838	10.4	52.4	7.7*		101
	12-12-12M	25467	11.9	12.7	12.3		102
	12-12-12M	25830	12.0	12.2	12.1		101
	15-15-15M	26212	14.9	14.2*	15.0		98

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

W R GRACE & CO-AGR PROD DIV		NEW ALBANY		IND.	XS CL	RV
GRADE	NUM	N	APA	POT		
15-15-15M	26763	14.2*	14.4*	15.1		96*
15-15-15M	27386	14.2*	14.4*	15.1		96*
GRAVES COUNTY SOIL IMP. ASSN.		MAYFIELD		KY.	XS CL	RV
GRADE	NUM	N	APA	POT		
0-23-30M	26721	0.0	22.5*	31.6		101
6-26-25M	26722	6.7	29.6	22.6*		104
GREEN VALLEY FARM SUPPLY		ISLAND		KY.	XS CL	RV
GRADE	NUM	N	APA	POT		
0-15-40M	25620	0.0	13.2*	43.4		100
0-26-26M	27374	0.0	24.5*	29.5		101
5-40-5M	27373	6.2	41.3	6.8		108
8-24-16M	25443	7.9	23.8	18.1		102
16-11-15M	27074	16.4	10.4*	17.3		99
GRO-GREEN CHEMICAL CO., INC.		SHELBYVILLE		KY.	XS CL	RV
GRADE	NUM	N	APA	POT		
0-9-28M	25616	0.0	8.2*	29.2		95*
0-10-25M W/ME	26532	0.0	12.2	30.9		117
1-6-6M W/B	27005	3.1	8.4	6.5		132
3-3-3M	25332	3.5	3.1	4.6		108
4-5-7M	27399	3.7*	5.5	6.4*		89*
4-9-9S	27004	4.2*	8.0*	10.8		93*
4-19-19M W/B	27398	5.2	15.5*	23.2		96*
5-6-6S	27401	4.9*	6.9	9.3		106
5-10-15S	27400	7.1	9.3*	17.0		113
6-7-8S	27403	5.3*	8.6	7.5*		100
7-8-8M	27397	7.2	5.5*	12.5		97*
7-23-9M	27010	7.0*	17.6*	13.4		87*
8-10-15S	27256	6.7*	7.1*	14.0*		82*
8-11-14S	27009	7.3*	9.5*	16.4		91*
8-12-15S W/ME	26101	7.3*	13.7	13.2*		99
9-11-15S	26866	8.8	10.1*	15.2		97*
9-11-15S	27126	9.0	12.0	13.8*		101
10-5-5M	26531	11.5	9.7	8.6		128
10-10-10M	25333	9.9	8.3*	10.5		95*
10-10-10M	25455	10.2	11.6	9.8		106
10-10-10M	26102	12.3	17.8	17.0		149
10-10-10M	27003	4.8*	4.0*	6.3*		48*
11-0-15M	26553	10.5*	0.0	14.3*		94*
11-33-10M	25331	12.1	30.3*	10.4		97*
12-2-10M	27404	11.7*	5.1	10.2*		105
12-4-4M	27395	11.7	3.7*	4.4		96*
12-12-12M	25323	6.3*	14.4	13.1		85*
12-12-12M	27002	11.5*	9.0*	15.0		94*
12-12-12M	27131	11.7	7.0*	15.0		89*
15-0-11M W/ME	26530	14.3*	0.0	13.6		97*
28-0-22M	27394	28.1	0.0	21.4*		99
GRO-GREEN SALES CO., LEBANON		SHELBYVILLE		KY.	XS CL	RV
GRADE	NUM	N	APA	POT		
7-15-20M	27555	9.4	10.8*	20.4		98
8-6-9S	27251	8.1*	6.2*	8.2*		94*
8-8-11S	27254	8.4	7.9*	13.5		100
8-12-15S	27305	7.9	13.1	15.0		103
9-6-10S	26981	9.1	6.8	11.9		105
9-11-15S	27304	8.6*	13.7	12.3*		102
9-12-12S	27250	9.6	10.3*	16.0		100
10-8-10S	27255	9.5*	8.4	11.2		96*
10-10-10M	26979	11.4	9.8	10.6		107



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

GRO-GREEN SALES CO., LEBANON		SHELBYVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
10-11-12S	27253	10.2*	11.5*	15.5			101
13- 9-12S	26983	13.6	12.0	10.7*			107
17- 7-16S	26982	13.6*	6.6*	21.6			92*
22- 7-20M	26984	20.8*	8.5	21.3			98
22- 7-20M	27252	17.3*	8.4	25.8			92*
30- 5-12M	27249	24.0*	6.4	19.6			92*
GRO-GREEN CHEMICAL CO PAYNES		SHELBYVILLE KY			XS	CL	RV
GRADE	NUM	N	APA	POT			
0- 0-30M	26547	0.0	0.0	29.9			100
0-20-20M	26304	0.0	14.2*	25.9			90*
0-46- 0	27306	0.0	45.5	0.0			99
5- 6- 6S	27308	5.0	6.0*	8.1			98
5- 8- 6S	27127	5.3	6.2*	7.5			91*
5-20-20M	26303	5.6	20.3	18.8*			102
6- 6- 9S	27406	6.0	5.9*	10.5			99
6- 6- 9M W/ME	27125	6.3*	5.7*	14.2			105
6- 8- 7M	27124	5.9*	6.9*	7.8			91*
7- 5- 9M	27307	6.2*	6.6	8.3*			96*
3-12-15S	26551	7.2*	10.0*	18.4	*		95*
9-11-15S	26549	9.0	10.8	15.9			101
10-20-20M	26548	6.1*	21.2	24.6			95*
15-12-18M	26637	16.5	12.9	19.2			105
GULF OIL CORP., AGRI CHEM DIV		CECILIA KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	26350	5.5	9.5*	16.5			104
5-10-15S	27507	5.2	10.5	14.9			103
5-20-20M	25875	5.5	20.8	20.2			105
5-20-20M	26352	4.5*	18.2*	22.4			96*
6-24-12M	27154	6.3	26.2	22.7			120
6-24-24M	27156	6.4	25.1	24.3			104
10-10-10M	27155	9.6*	11.2	11.8			105
10-10-10M	27157	10.2	10.7	11.8			106
12-12-16S W/ME	26353	12.2	11.8	16.5			101
13- 0-44NIT	27278	12.9	0.0	44.7			100
14-14-14M	26707	14.3	14.5	16.5			101
15- 8-15S	27153	15.6	8.7	16.0	*		102
15-15-11M	26710	14.6*	15.4	14.9			99
15-15-15M	26351	15.3	16.1	14.1*			102
15-15-15M	26910	14.8	15.5	15.5			101
20-12- 6M	26709	20.2*	13.7	7.2			101
20-15-15M	26708	16.5*	12.0*	29.0			98
23-15-15M	27158	24.1	12.5*	18.5			97*
GULF OIL CORP., AGRI CHEM DIV		CLARKSON KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
16-18-18M	27559	17.0	19.1	18.6			101
GULF OIL CORP., AGRI CHEM DIV		CLAY KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-16-38M	27163	0.0	18.6	36.2*			103
0-23-30M	25551	0.0	25.0	28.2*			103
0-23-30M	27164	0.0	24.2	29.6			102
GULF OIL CORP., AGRI CHEM DIV		HARTFORD KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-18-36M	27365	0.0	18.8	36.3			101
GULF OIL CORP., AGRI CHEM DIV		HENDERSON KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-15-40M	25583	0.0	15.4	43.0			104
0-19-34M	27361	0.0	18.3*	36.3			99

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

GULF OIL CORP., AGRI CHEM DIV		HENDERSON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-27M	25364	0.0	23.2*	28.9			97*
3-10-30M	27360	3.2	9.5*	30.9			101
5-20-20M	25445	5.5	19.8	20.5			102
5-20-20M	26821	5.1	19.7	20.7			100
5-20-30M	27546	4.8	20.4	29.3*			100
6-24-24M	25374	7.0	26.0	24.2			108
6-24-24M	25588	6.6	24.9	23.8			104
6-24-24M	26451	6.3	23.9	23.2*			100
6-24-24M	26822	6.1	25.2	26.0			105
12-12-12M	25587	11.7	12.8	13.2			102
12-12-16S	26641	12.0	12.2	16.1			101
15-15-15M	26450	13.9*	17.5	15.6			103
15-15-15M	26643	14.5*	16.6	15.9			103
15-42- 6M	26642	15.5	42.1	7.3			102
18-46- 0	25800	18.2	46.6	0.0			101
GULF OIL CORP., AGRI CHEM DIV		HENDERSON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
28- 0- 0	27531	28.2	0.0	0.0			101
30- 0- 0	26951	31.6	0.0	0.0			105
30- 0- 0	27363	30.4	0.0	0.0			101
82- 0- 0	27069	82.0	0.0	0.0			100
82- 0- 0	27159	82.1	0.0	0.0			100
82- 0- 0	27171	81.9	0.0	0.0			100
82- 0- 0	27292	81.9	0.0	0.0			100
82- 0- 0	27296	81.9	0.0	0.0			100
82- 0- 0	27359	82.0	0.0	0.0			100
82- 0- 0	27364	81.9	0.0	0.0			100
82- 0- 0	27380	82.0	0.0	0.0			100
82- 0- 0	27477	81.9	0.0	0.0			100
82- 0- 0	27480	81.9	0.0	0.0			100
82- 0- 0	27523	81.9	0.0	0.0			100
82- 0- 0	27524	82.0	0.0	0.0			100
82- 0- 0	27543	82.1	0.0	0.0			100
82- 0- 0	27547	81.9	0.0	0.0			100
82- 0- 0	27548	81.9	0.0	0.0			100
GULF OIL CORP AGRI CHEM DIV		HODGENVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6- 9-14S	27511	7.2	9.4	14.4			103
13-10-14S	26697	14.4	10.6	14.4			101
14-14-14M	26698	14.8	14.5	15.6			102
17-17-17M	26696	17.6	16.6*	19.3			100
19- 6-17M	27141	17.5*	6.9	20.3			99
19-13-17M	27510	18.6*	10.4*	21.2			96*
23-10-12M	26695	23.0	9.8*	13.6			100
GULF OIL CORP AGRI CHEM DIV		HORSE CAVE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	27149	5.6	10.5	15.3			106
5-20-20M	26541	4.6*	20.1	17.9*			96*
6-12-12M	26544	5.9	11.1*	14.7			101
10-25-25M	26542	9.5*	22.6*	29.6			95*
19-15-15M	27148	19.2	14.1*	17.7			98
20-13-13M	27147	20.3*	10.8*	17.5			96*
20-17-11M	27150	20.9	16.4*	13.4			99
21-17-10M	26543	21.5	16.6*	12.5			100
GULF OIL CORP AGRI CHEM DIV		IRVINGTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-12M	25385	6.4	13.4	11.9			107



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

GULF OIL CORP AGRI CHEM DIV			IRVINGTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT				
30- 0- 0	27560	30.4	0.0	0.0				101
GULF OIL CORP., AGRI CHEM DIV			KANSAS CITY		MO.		XS CL	RV
GRADE	NUM	N	APA	POT				
5-10-15S	26263	5.1	9.7*	16.6				102
5-10-15S	26449	5.5	10.4	15.6				106
5-10-15S	26556	5.1	10.1	15.6				102
6-24-24M	25298	6.9	25.2	24.8				106
6-24-24M	25316	7.0	25.1	25.2				107
6-24-24M	25806	5.9	24.5	26.9				104
6-24-24M	26060	6.0	24.2	25.4				102
6-24-24M	26061	5.8	23.7	24.0				99
6-24-24M	26107	6.2	24.1	25.4				103
6-24-24M	26460	5.9	23.0*	24.6				98
6-24-24M	26557	6.1	24.6	26.6				105
6-24-24M	27168	5.7*	22.9*	23.9				96*
12-12-16S W/ME	26555	11.9	12.3	16.2				101
15-15-15M	25315	15.2	15.7	16.4				104
15-15-15M	25805	15.3	15.7	15.8				103
15-15-15M	27016	15.3	16.4	15.2				104
GULF OIL CORP., AGRI CHEM DIV			MORGANFIELD		KY.		XS CL	RV
GRADE	NUM	N	APA	POT				
0-18-36M	25673	0.0	18.9	36.9				103
5- 5-10M	25549	5.0	5.3	10.6				103
5-10-10M	26627	5.6	10.6	10.0				106
6-18- 6M	27160	6.5	18.7	5.4*				104
6-18- 6M	27167	6.7	18.5	5.1*				103
8-17-34M	26626	7.9*	15.4*	36.7				97*
9- 9- 9M	25314	9.4	9.6	9.1				104
10- 5-10M	25674	10.3	5.6	9.5*				103
12- 5- 5M	26628	12.8	5.7	4.9				104
23-11-11M	26612	22.4*	10.4*	12.8				97*
GULF OIL CORP., AGRI CHEM DIV			OWENSBORO		KY.		XS CL	RV
GRADE	NUM	N	APA	POT				
6-24-24M	25434	6.8	24.4	24.8				105
6-24-24M	25590	6.3	24.7	24.3				103
6-24-24M	26622	6.4	24.5	24.9				103
7-14- 7M	27165	7.0	14.3	7.6				102
12-12-16S W/ME	26621	11.9	12.1	16.2				100
15-15-15M	25622	14.7	15.9	16.9				103
GULF OIL CORP AGRI CHEM DIV			RUSSELLVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT				
8-32-16M	25642	8.4	33.0	17.6				105
12-12-16S	26645	12.1	12.5	16.4				102
15-42- 6M	25641	15.0	41.9	7.8				101
GULF OIL CORP., AGRI CHEM DIV			SIKESTON		MO.		XS CL	RV
GRADE	NUM	N	APA	POT				
6-24-24M	25523	6.5	25.9	24.7				107
8-32-16M	25525	8.6	33.1	17.5				105
15-42- 6M	25524	15.6	42.3	7.2				103
GULF OIL CORP., AGRI CHEM DIV			STURGIS		KY.		XS CL	RV
GRADE	NUM	N	APA	POT				
0-15-40M	25548	0.0	15.4	40.5				101
0-18-36M	26625	0.0	17.2*	37.8				99
17-17-17M	26624	16.7*	17.8	20.2				100
GULF OIL CORP AGRI. CHEM DIV			WALNUT RIDGE		ARK		XS CL	RV
GRADE	NUM	N	APA	POT				
12-12-16S W/ME	27033	12.0	12.1	16.3				101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

HANCOCK COUNTY FARM SUPPLY		HAWESVILLE		KY			
GRADE	NUM	N	APA	POT	XS	CL	RV
15-10-16S	27432	16.7	12.0	16.2			108
HERCULES POWDER COMPANY		WILMINGTON		DEL.			
GRADE	NUM	N	APA	POT	XS	CL	RV
33- 0- 0	26972	34.0	0.0	0.0			101
HERITAGE HOUSE PRODUCTS, INC.		CLEVELAND		OHIO			
GRADE	NUM	N	APA	POT	XS	CL	RV
11- 4- 7M W/ME	26419	10.6*	3.8	8.2			99
HILLENMEYER NURSERIES		LEXINGTON		KY.			
GRADE	NUM	N	APA	POT	XS	CL	RV
10- 6- 4M	27350	9.6*	6.7	5.4			103
HOWE-HILLIARD GRAIN CO.		MAYFIELD		KY.			
GRADE	NUM	N	APA	POT	XS	CL	RV
18-16-20	27042	15.6*	17.7	19.9			94*
HUTSON CHEMICAL COMPANY		MURRAY		KY.			
GRADE	NUM	N	APA	POT	XS	CL	RV
5-20-20M	25389	2.6*	16.3*	19.6			80*
5-20-20M	26221	5.5	20.5	20.2			104
5-20-20M	27037	4.9	22.0	19.9			105
6-12-12M	25390	5.9	11.7	13.3			101
6-24-24M	25299	6.5	26.7	21.8*			105
6-24-24M	26413	7.0	26.1	22.9*			107
6-24-24M	26945	6.6	24.4	24.4			103
8-30-16M	27038	8.4	30.2	16.5			102
12-18-18S	27036	11.5*	17.8	19.8			100
15-15-15M	25391	14.9	16.3	15.4			103
15-15-15M	26210	14.7	15.9	15.6			102
15-15-15M	26407	13.0*	18.3	15.9			101
15-15-15M	27034	14.8	15.7	14.9			101
16-17-17S	27035	15.5*	18.6	16.9			102
INTERNATIONAL MIN & CHEM CORP		CLARKSVILLE		TENN			
GRADE	NUM	N	APA	POT	XS	CL	RV
4-12- 8M	25396	5.0	11.8	8.1			106
4-16- 4S	26285	3.5*	14.0*	6.6			94*
5-10-10M	26282	4.7	9.4*	8.9*			93*
5-10-15S	25907	5.2	9.6*	15.9			101
5-10-15S	26283	5.5	9.9	14.4*			101
5-10-15S	26388	5.0	9.5*	15.6			99
5-20-20M	25265	5.1	16.5*	18.8*			89*
5-20-20M	25574	4.7	19.8	20.0			98
5-20-20M	26284	4.9	17.8*	17.2*			90*
5-20-20M	26387	5.7	17.4*	17.4*			92*
5-20-20M	27039	5.0	18.2*	19.9			95*
6- 6-18S	25572	5.1*	5.8	22.2			102
6-12-12M	25264	6.1	11.7	11.7			99
6-12-12M	25348	7.0	10.7*	10.8*			98
6-12-12M	25573	5.4*	12.0	13.1			99
6-12-12M	27059	6.0	11.3*	12.2			97*
6-12-18S	25908	6.3	11.4*	18.9			101
10-10-10M	25395	9.3*	9.8	10.4			96*
10-10-10M	25904	9.6*	9.9	10.1			98
10-10-10M	27040	9.4*	9.9	10.3			97*
INTERNATIONAL MIN & CHEM CORP		INDIANAPOLIS		IND			
GRADE	NUM	N	APA	POT	XS	CL	RV
6-24-24M	26824	5.9	23.8	24.4			99
6-24-24M	26825	5.8	24.1	24.4			100



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KAISER AGRICULTURAL CHEMICALS		NORTH BEND		OHIO			
GRADE	NUM	N	APA	POT	XS CL	RV	
28- 0- 0	27181	27.9	0.0	0.0		99	
28- 0- 0	27431	29.7	0.0	0.0		106	
KENTUCKY FERTILIZER WORKS		WINCHESTER		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-46- 0	27138	0.0	45.3	0.0		98	
4-16- 4S	26148	4.2	15.6*	4.2		100	
5-10-10M	26145	5.1	9.3*	10.9		100	
5-10-10M	26515	4.7	10.3	13.6		107	
5-10-10M	27109	4.5*	9.1*	10.8		94*	
5-10-15S	26513	4.5*	9.8	14.7		95*	
5-10-15S	26752	4.7*	9.5*	15.0		96*	
5-10-15S	27110	4.9	10.0	14.9		99	
5-10-15S	27111	4.6*	10.0	14.9		97*	
6- 6-18S	26152	5.6*	6.3	18.5		100	
6- 6-18S	27354	5.6*	6.0	18.5		98	
10-10-10M	26751	9.6*	9.9	11.0		99	
12-12-12M	26514	12.1	11.3*	12.1		99	
12-12-12M	26579	12.0	11.5*	11.9		98	
19- 0-34M	26578	11.1*	0.0	44.3		84*	
KERR-MCGEE FARM CENTER		CADIZ		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
6-24-24M	27446	7.1	26.8	21.2*		107	
8-28-12M	25903	8.0	28.1	11.7		100	
10-10-10M	25480	9.9	11.0	10.5		103	
14-14-14M	26793	13.9	16.2	14.2		105	
15-15-15M	26794	14.9	14.6*	15.3		99	
15-15-15M	27497	15.3	17.7	13.3*		105	
16-16-16M	25902	16.5	16.3	16.3		103	
18-46- 0	27343	18.2	47.1	0.0		102	
82- 0- 0	26795	81.9	0.0	0.0		100	
KERR-MCGEE FARM CENTER		GUTHRIE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-30-20M	25862	0.0	30.7	19.2*		101	
0-30-20M	26563	0.0	30.1	19.9		100	
5-10-15S	27065	5.6	9.3*	16.4		104	
10-30-20M	27066	9.8	29.7	20.5		99	
KERR-MCGEE FARM CENTER		OKLA. CITY		OKLA.			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-20-20M	26057	5.3	21.2	19.2*		103	
10-10-10M	26058	10.4	10.3	10.2		103	
KERR-MCGEE FARM CENTER		PEMBROKE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
4-32-16M	26386	4.2	31.9	16.1		100	
5-10-15S	26609	5.4	10.0	15.7		104	
5-20-20M	26385	5.0	20.8	19.5*		101	
5-20-20M	26611	5.3	19.7	20.3		101	
5-20-20M	27063	5.2	19.5*	20.3		100	
10-10-10M	26610	9.9	11.1	10.0		103	
16-16-16M	26384	16.1	15.9	16.0		100	
LAWN-A-MAT CHEM. & EQUIP. CO.		BLUE POINT		N.Y.			
GRADE	NUM	N	APA	POT	XS CL	RV	
25-15-10M	27473	24.8	16.0	11.0		102	
LORETTO FERTILIZER SALES & SER		LORETTO		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
14-14-14M	26986	13.3*	15.2	16.1		99	
30- 0- 0	26987	30.3	0.0	0.0		101	

TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)

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

LOUISVILLE CHEMICAL CO		LOUISVILLE		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
6-18- 6M	26804	6.4	20.5	7.3		113
6-18- 6M	27460	6.9	15.6*	7.0		98
6-18- 6M	27554	6.2	19.4	7.0		107
MARSHALL COUNTY SOIL IMP ASSN		BENTON		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
10-30-20M	27347	10.4	31.6	19.6*		102
MILES FARMS		OWENSBORO		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
3-10-30M	27379	3.8	9.4*	28.6*		100
3-10-30M	27542	3.0	9.1*	29.9		97*
9-13-28S	26617	11.0	15.9	14.5*		95*
9-23-30M	25544	8.5*	21.2*	32.5		97*
12-15-23S	26618	12.5	17.6	22.9		104
14-10-13M	27378	14.0	10.1*	13.7		99
82- 0- 0	27541	82.0	0.0	0.0		100
MOBIL CHEM CO, AGRI CHEM DIV		RICHMOND		VA.*		
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	25334	0.0	20.2	17.5*		96*
0-20-20M	25541	0.0	20.5	20.7		103
0-20-20M	25644	0.0	20.2	21.4		103
0-25-25M	25613	0.0	26.3	24.3*		103
4-12- 8M	25338	5.0	11.8	8.7		107
4-12- 8M	25494	4.0	13.1	9.3		108
4-12- 8M	25663	4.6	11.9	8.8		106
4-12-12M	25243	4.6	13.0	12.8		109
4-12-12M	25518	4.0	13.0	13.2		107
5-10-15S	25245	5.4	10.1	14.3*		102
5-20-20M	25336	5.4	19.5*	20.3		100
5-20-20M	25342	5.2	19.3*	19.9		99
5-20-20M	25343	5.0	20.0	17.9*		97*
5-20-20M	25344	4.8	22.0	17.2*		101
5-20-20M	25354	5.5	20.5	17.1*		99
5-20-20M	25370	4.8	18.5*	19.9		95*
5-20-20M	25490	4.7	19.1*	20.0		96*
5-20-20M	25493	4.8	20.2	20.2		100
5-20-20M	25515	5.5	19.1*	19.0*		98
5-20-20M	25516	5.4	19.3*	19.2*		99
5-20-20M	25576	4.9	19.5*	19.8		98
5-20-20M	25614	5.2	21.5	18.9*		103
5-20-20M	25653	4.4*	20.7	19.2*		98
5-20-20M	25669	5.2	19.9	19.3*		99
6-12-12M	25337	6.1	12.1	12.7		102
6-12-12M	25356	5.8	12.2	12.1		100
6-12-12M	25517	5.9	12.2	12.6		101
6-12-18S W/ME	25570	7.2	12.8	17.9		109
6-18-12M	25371	5.5*	16.3*	10.0*		90*
6-24-24M	25244	7.0	27.4	18.1*		104
8-24-16M	25612	7.5*	23.2*	16.9		97*
10-10-10M	25240	10.1	10.6	11.5		105
10-10-10M	25335	10.1	10.3	11.1		103
10-10-10M	25355	10.1	11.9	11.6		109
10-10-10M	25492	7.2*	11.3	8.1*		87*
10-10-10M	25514	9.1*	10.4	9.2*		95*
10-10-10M	25571	8.2*	10.5	14.1		99
10-10-10M	25577	8.8*	10.4	12.1		99
10-10-10M	25665	9.9	13.2	10.7		111
12-12-12M	25341	12.1	12.2	12.5		102

\* Samples taken Fall 1969.



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

MOBIL CHEM CO, AGRI CHEM DIV		RICHMOND		VA.	XS	CL	RV
GRADE	NUM	N	APA	POT			
12-24-24M	25664	9.7*	22.5*	26.2			93*
14-14-14M W/ME	25491	10.7*	17.7	17.7			101
MONSANTO AGRI. CENTERS, INC.		SLAUGHTERS		KY.	XS	CL	RV
GRADE	NUM	N	APA	POT			
0-26-26M	25585	0.0	26.9	25.9			102
5-10-15S	26454	5.3	10.9	12.5*			100
5-20-20M	26453	5.2	19.9	20.3			101
5-20-30M	26455	5.4	20.1	31.6			103
6-24-24M	26456	6.2	25.0	24.9			104
6-26-26M	25444	4.2*	22.3*	28.5			89*
6-26-26M	26457	7.4	28.3	23.5*			106
7- 8-13M	27172	7.3*	7.7*	13.8			93*
9- 8-12M	27170	8.8	9.2	12.3*			101
14-36- 9M W/ME	26452	14.4	35.8	9.8			101
82- 0- 0	27478	82.0	0.0	0.0			100
MOORE-HUTCHESON CO		MORGANTOWN		KY.	XS	CL	RV
GRADE	NUM	N	APA	POT			
18-17-17M	27301	16.7*	17.2	20.5			100
MORRISON FARM SERVICE		HODGENVILLE		KY.	XS	CL	RV
GRADE	NUM	N	APA	POT			
13-11-18S	26699	13.2	12.1	18.2			102
14-14-14M	26715	14.1*	15.5	15.5			101
NA-CHURS PLANT FOOD COMPANY		MARION		OHIO	XS	CL	RV
GRADE	NUM	N	APA	POT			
2-20-18KOH	25427	2.5	20.7	18.5			105
2-20-18KOH	27122	2.3	20.4	17.9			102
2-20-18KOH	27207	6.9	20.7	13.8*			118
5-15-15KOH	25429	5.6	16.0	13.9*			104
5-20- 5KOH	25430	6.0	21.0	5.6			109
5-20- 5KOH	27121	5.7	21.2	6.1			109
5-20- 5KOH	27209	5.8	21.0	5.6			108
7-14- 7KOH	26463	8.4	16.1	7.7			116
10-20-10KOH	25428	10.6	21.1	12.4			108
10-20-10KOH	26676	10.4	20.1	14.1			107
10-20-10KOH	27208	10.2	20.5	10.5			102
NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.	XS	CL	RV
GRADE	NUM	N	APA	POT			
0- 0-50S	27310	0.0	0.0	50.3			101
0- 0-60M	27317	0.0	0.0	61.7			103
0-20-20M	26369	0.0	23.1	24.8			118
0-46- 0	27316	0.0	47.4	0.0			103
4-16- 4S	26017	4.1	15.7	4.9			101
4-16- 4S	26072	4.4	15.2*	5.6		*	103
4-16- 4S	26406	4.5	14.3*	7.0		*	102
5-10-15S	26020	4.9	10.5	14.4*			100
5-10-15S	26126	5.8	10.7	14.0*			105
5-10-15S	26310	5.1	10.0	15.5			102
5-10-15S	26368	4.9	10.6	15.8			103
5-10-15S	26461	4.9	10.2	15.7			101
5-10-15S	26494	4.9	10.2	16.3			103
5-10-15S	26498	4.9	9.8	16.0		*	100
5-10-15S	26668	5.1	10.4	15.3			102
5-20-20M	25383	5.1	21.1	20.4			104
5-20-20M	26015	4.6*	18.4*	20.4			95*
5-20-20M	26071	4.5*	15.7*	21.9			89*
5-20-20M	26978	5.2	19.9	19.9			100
5-20-20M	27567	5.7	21.2	22.0			108

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-20-20S	25833	5.0	16.7*	21.4	*	93*	
6- 6-18S	26738	5.9	6.9	17.9		102	
6- 6-18S W/ME	26299	6.2	6.9	16.5*		102	
6-12-12M	25384	6.3	15.1	12.2		114	
6-12-12M	26018	6.5	11.8	12.5		103	
6-12-12M	26173	6.1	11.2*	13.9		101	
6-12-12M	26309	5.8	13.9	12.2		106	
6-12-12M	26497	6.1	12.0	15.9		108	
6-12-12M	26667	6.5	11.7	12.9		103	
6-12-18S	26462	6.0	11.9	18.2		100	
6-12-18S	27312	6.4	12.9	16.8*		103	
7-22-14M W/ME	26302	6.8	20.1*	15.8		97*	
8-10-15S	26355	8.4	10.0	15.3		103	
8-10-15S	26367	8.0	10.3	15.3		102	
8-10-15S	27314	8.5	10.6	14.2*		103	
9- 9-17S	26509	8.6*	8.6*	16.5*		96*	
9- 9-17S	26745	8.9	8.3*	16.9		97*	
9- 9-17S W/ME	26016	9.1	7.2*	17.5	*	95*	
9- 9-17S W/ME	26070	9.0	8.6*	15.4*		96*	
9- 9-17S W/ME	26300	8.8	8.6*	16.7		97*	
9- 9-17S W/ME	26357	9.0	8.6*	16.0*		97*	
9- 9-17S W/ME	27313	8.6*	10.6	15.8*	*	101	
10-10-10M	26019	10.2	7.5*	10.9		94*	
10-10-10M	26128	10.4	10.4	10.2		104	
10-10-10M	26301	9.8	10.5	10.2		101	
10-10-10M	26356	9.8	8.8*	11.0		97*	
10-10-10M	26366	9.6*	9.5*	11.2		98	
10-10-10M	26496	9.6*	8.4*	11.3		95*	
10-10-10M	26538	10.0	11.6	11.0		107	
10-10-10M	26747	10.1	9.1*	10.6		98	
10-10-10M	26884	9.9	8.3*	11.6		96*	
10-10-10S	25834	10.0	10.5	10.7		103	
10-20-20M	26746	8.9*	17.1*	8.1*		76*	
12-12-12M	26739	12.1	11.6*	12.2		100	
18-46- 0	27315	17.8	45.7	0.0		99	
20- 0-20M	27553	20.9	0.0	19.7		103	
20-10-10M	25917	18.8*	10.1	11.5		98	
20-10-10M	26046	18.1*	11.7	11.8		100	
20-10-10M	26714	19.7	9.7	10.8		99	
20-10-10M	26740	19.8	11.6	10.0		103	
20-10-10M	27471	16.2*	10.1	14.9		93*	
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	
0-20-20M	26963	0.0	21.7	20.7		107	
3- 3- 3M	26959	2.7*	3.5*	5.9		93*	
5-10-10M	25965	6.2	9.8	11.6		111	
5-10-10M	26759	5.0	10.0	10.5		101	
5-10-10M	26958	6.5	11.0	13.3		122	
5-10-15S	25497	5.1	11.3	15.8	*	107	
5-10-15S	26188	5.1	9.9	15.7		102	
5-10-15S	26499	5.4	10.9	15.9	*	108	
5-10-15S	26691	6.1	10.2	16.6	*	110	
5-10-15S	26878	5.3	10.3	15.2	*	103	
5-10-15S W/ME	26975	5.3	9.8	15.7	*	102	
5-10-20S	26688	3.9*	8.3*	21.8		91*	
5-10-20S	27116	7.4	14.4	17.0*		123	



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
 Analyses deficient more than tolerance and relative values of 97 per-  
 cent or less indicated by asterisk.

OHIO VALLEY FERTILIZER, INC.		MAYSVILLE		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
5-20-20M	26464	5.3	20.0	18.0*				98
5-20-20M	26500	4.6*	20.7	19.1*				99
5-20-20M	26690	5.6	19.9	15.4*				96*
5-20-20M	26977	7.3	15.1*	15.4*				90*
6- 6-18S	26190	6.9	8.5	16.6*				113
6-12-12M	26465	5.3*	9.4*	16.8				95*
7- 9-14M	26962	8.4	8.8*	14.9				99
8-10-15S	26692	8.9	10.2	14.6*				105
8-10-15S W/ME	26187	8.4	9.5*	14.6*				99
10-10-10M	25496	9.6*	8.6*	13.7				99
10-10-10M	26189	10.0	11.1	11.8				107
10-10-10M	26501	9.6*	9.4*	11.5				98
10-10-10M	26689	8.5*	9.2*	14.4				97*
10-10-10M	26960	8.2*	8.9*	17.2				99
10-10-10M	26976	11.2	12.2	9.4*				112
10-10-20S	26686	8.6*	9.4*	19.9				92*
10-10-20S	26687	11.6	12.3	16.0*				108
10-10-20S W/ME	26186	10.6	11.3	18.8*				105
10-10-20S W/ME	26961	9.6*	9.6*	19.0*		*		96*
10-10-20S W/ME	27115	10.5	10.9	19.1*				103
OLIN CORP AGRI DIV		LITTLE ROCK		ARK.		XS	CL	RV
GRADE	NUM	N	APA	POT				
6-24-24M	25300	7.5	23.3*	23.0*				102
6-24-24M	25621	6.0	24.2	24.9				101
6-24-24M	27032	5.9	24.9	23.7				101
10-40-10M	26108	10.1	39.9	10.3				100
10-40-10M	27031	10.1	39.9	10.6				100
13-13-13M	25283	13.5	13.6	12.9				104
OTASCO		TULSA		OKLA		XS	CL	RV
GRADE	NUM	N	APA	POT				
10-20-10M	25937	9.7	19.9	10.4				99
PANNELL FARM SERVICE		MADISONVILLE		KY		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-23-30M	27166	0.0	24.7	27.7*				102
J PETTY CO		GRACEY		KY		XS	CL	RV
GRADE	NUM	N	APA	POT				
15-15-10M	27334	15.2	15.7	10.9				103
PHILLIPS PETROLEUM CO.		BARTLESVILLE		OKLA		XS	CL	RV
GRADE	NUM	N	APA	POT				
82- 0- 0	26788	81.9	0.0	0.0				100
82- 0- 0	27366	82.0	0.0	0.0				100
82- 0- 0	27522	82.1	0.0	0.0				100
RICHMOND FARM SUPPLY INC		RICHMOND		KY		XS	CL	RV
GRADE	NUM	N	APA	POT				
0- 0-50S	26770	0.0	0.0	51.3				103
6-21-26M	26766	6.2*	25.0	27.3				108
6-26-26M	26764	5.4*	21.8*	31.0				93*
17-17-17M	26765	15.9*	13.8*	22.9				93*
ROYSTER COMPANY		NORFOLK		VA.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-20- 0	25506	0.0	20.4	0.0				102
0-20- 0	26582	0.0	19.9	0.0				99
0-20- 0	26592	0.0	20.0	0.0				100
0-20-20M	25960	0.0	20.1	18.4*				97*
0-20-20M	26539	0.0	20.4	20.2				101
0-20-20M	26950	0.0	27.6	21.0				0
0-25-25M	26581	0.0	28.7	20.3*				103

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

ROYSTER COMPANY GRADE	NUM	NORFOLK		VA.		XS CL	RV
		N	APA	POT			
0-46-0	26848	0.0	42.6*	0.0			93*
3-10-30M	27377	3.1	10.4	30.9			103
4-16-4M W/ME	25821	4.6	15.4*	4.6			102
5-10-15S	25711	17.4	10.0	15.5			176
5-10-15S	25732	4.1*	9.6*	14.5*			92*
5-10-15S	26753	5.5	9.8	15.6			103
5-10-15S	26817	5.8	10.6	14.9			107
5-10-15S	27054	4.5*	9.3*	14.3*			93*
5-10-15S	27113	9.0	9.9	16.3	*		126
5-10-15S W/ME	25700	4.6*	9.2*	14.5*			93*
5-10-15S W/ME	25702	17.7	9.3*	14.5*			173
5-10-15S W/ME	25731	4.9	10.0	14.5*			98
5-10-15S W/ME	25819	4.9	8.9*	14.2*			93*
5-10-15S W/ME	25854	5.0	9.9	16.0			101
5-10-15S W/ME	25993	5.0	11.3	14.4*			104
5-10-15S W/ME	25994	5.4	10.3	16.7			107
5-10-15S W/ME	26115	4.5*	9.5*	14.7			94*
5-10-15S W/ME	26149	5.0	9.5*	15.0			98
5-10-15S W/ME	26307	5.1	10.3	14.4*			100
5-10-15S W/ME	26320	5.4	10.0	14.8			102
5-10-15S W/ME	26591	5.7	9.5*	15.6			103
5-10-15S W/ME	26849	5.7	10.1	14.9			104
5-10-15S W/ME	26947	5.2	10.9	15.0			105
5-10-15S W/ME	27082	4.7*	10.7	13.6*			98
5-10-15S W/ME	27132	5.4	10.9	15.3	*		106
5-10-15S W/ME	27190	5.1	9.8	15.1			100
5-10-15S W/ME	27225	5.1	9.7*	14.9			99
5-10-15S W/ME	27413	5.1	9.9	15.3			101
5-10-15S W/ME	27509	5.3	10.3	14.9			103
5-15-30M	27375	4.8	15.2	30.4			100
5-20-20M	25339	5.1	19.7	18.3*			97*
5-20-20M	25457	5.9	19.6	19.2*			101
5-20-20M	25531	5.2	19.8	19.4*			99
5-20-20M	25580	5.2	19.7	18.8*			98
5-20-20M	25961	5.6	19.6	18.7*			99
5-20-20M	25996	5.1	19.8	20.1			100
5-20-20M	26114	5.3	19.0*	17.7*			95*
5-20-20M	26237	5.2	20.2	20.4			102
5-20-20M	26323	5.0	18.9*	19.4*			96*
5-20-20M	26584	5.0	20.4	18.8*			99
5-20-20M	26755	5.3	20.0	20.6			102
5-20-20M	26854	5.1	20.0	19.0*			99
5-20-20M	26857	5.2	20.1	18.6*			99
5-20-20M	26897	4.7*	18.1*	21.9			96*
5-20-20M	26946	4.8	18.6*	21.0			97*
5-20-20M	27083	4.7*	18.8*	21.3			97*
5-20-20M	27112	4.7*	18.8*	20.1			96*
5-20-20M	27114	5.5	19.7	18.9*			99
5-20-20M	27187	5.3	19.0*	20.0			99
5-20-20M	27188	4.4*	17.1*	21.2			91*
5-20-20M W/ME	26731	4.9	18.2*	20.5			95*
6-12-12M	25273	6.1	11.9	10.8*			98
6-12-12M	25471	2.4*	10.5*	13.8			78*
6-12-12M	25578	5.8	12.5	11.3*			99
6-12-12M	26069	6.1	18.0	7.7*			115
6-12-12M	26113	5.5*	10.7*	13.7			95*
6-12-12M	26322	6.2	13.2	12.2			106



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

ROYSTER COMPANY		NORFOLK		VA.			
GRADE	NUM	N	APA	PDT	XS CL	RV	
6-12-12M	26336	5.9	12.3	12.6		102	
6-12-12M	26730	7.8	16.0	10.4*		121	
6-12-12M	26853	8.7	20.2	7.2*		136	
6-12-12M	26949	6.8	10.6*	12.5		100	
6-12-12M	27184	6.2	12.7	11.5*		103	
6-12-12M	27189	5.8	11.3*	13.4		99	
6-12-12M	27226	6.2	11.2*	12.7		99	
6-12-12M	27412	6.6	13.2	12.8		110	
6-12-12M	27565	5.4*	10.4*	12.3		91*	
6-19-26M	27067	6.0	18.2*	26.6		99	
6-19-26M	27376	6.1	19.1	26.9		101	
7-21-21M	26459	7.3	21.7	16.9*		98	
7-21-21M	26554	7.4	20.4*	20.6		99	
7-21-21M	27068	7.0	21.1	21.3		101	
9-18-18M	26583	9.0	18.2	16.7*		99	
9-18-18M	26948	9.0	18.8	17.4*		101	
10-10-10M	25329	10.1	10.3	10.1		102	
10-10-10M	25340	10.2	10.4	9.9		102	
10-10-10M	25532	9.7	9.9	10.0		98	
10-10-10M	25579	9.3*	9.9	11.6		99	
10-10-10M	25725	10.0	10.7	10.6		103	
10-10-10M	25730	9.6*	10.3	10.5		100	
10-10-10M	25820	11.3	13.3	9.1*		116	
10-10-10M	25962	8.8*	9.9	10.5		94*	
10-10-10M	25997	10.1	10.0	10.9		102	
10-10-10M	26567	10.4	10.0	10.1		102	
10-10-10M	26733	9.9	9.8	10.6		99	
10-10-10M	26754	10.1	9.8	10.5		100	
10-10-10M	27135	10.2	10.5	10.2		103	
10-10-10M	27186	10.6	10.9	9.3*		104	
10-10-10M	27227	9.5*	8.9*	10.5		95*	
10-10-10M	27414	10.3	10.7	10.3		104	
10-10-10M	27504	10.9	12.7	9.6*		113	
10-10-10M W/ME	26321	8.9*	9.9	10.3		94*	
10-10-15S	27571	10.0	10.6	15.8		103	
10-10-15S W/ME	25995	9.9	9.9	14.0*		97*	
10-10-15S W/ME	26732	9.9	9.5*	15.6		99	
10-10-15S W/ME	26851	10.4	10.4	15.4		104	
12-12-12M	26850	11.6*	11.2*	12.2		96*	
30- 0- 0	25533	30.3	0.0	0.0		101	
30- 0- 0	26870	31.1	0.0	0.0		104	
30- 0- 0	27514	29.9	0.0	0.0		99	
33- 0- 0	25607	33.5	0.0	0.0		100	
SANDUSKY MILLS INC		HARRODSBURG		KY			
GRADE	NUM	N	APA	PDT	XS CL	RV	
7- 5- 7S	27272	7.4	4.7*	7.5		97*	
9- 5-15M	25951	9.7	4.7*	17.5		103	
10-10-10M	26808	10.7	10.8	11.3		108	
11- 5-17S	27389	11.2*	5.0*	17.3		95*	
11- 9-21S	26807	11.8	10.7	21.8		103	
SCHOCHOH CROP SERVICE		RUSSELLVILLE		KY.			
GRADE	NUM	N	APA	PDT	XS CL	RV	
6-18-12M	25529	5.0*	16.6*	11.7		91*	
7-11-14S	27294	7.7	13.4	13.5*	*	101	
SCOTTSVILLE FERTILIZER CO		SCOTTSVILLE		KY			
GRADE	NUM	N	APA	PDT	XS CL	RV	
0-46- 0	27282	0.0	46.8	0.0		102	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

SCOTTSVILLE FERTILIZER CO		SCOTTSVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
13-7-10S	27280	12.6*	7.1	11.3		99
18-46-0	27281	18.0	46.5	0.0		101
O. M. SCOTT & SONS		MARYSVILLE OHIO				
GRADE	NUM	N	APA	POT	XS CL	RV
16-4-4M	26418	14.0*	3.6*	4.4		89*
16-4-4M	26926	16.0	3.9	4.6		101
22-5-5M	26426	22.7	5.4	5.7		104
22-5-5M	26735	21.3*	4.9	5.6		98
22-5-5M	26778	22.1	5.5	5.3		102
22-5-5M	26927	22.0	5.3	5.5		102
22-5-5M	26928	21.6	5.4	5.3		100
23-7-7M	26261	23.1	6.9	8.5		102
23-7-7M	26779	22.9	7.0	8.6		101
SMITHS GROVE FERTILIZER CO		SMITHS GROVE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
15-15-15M	26601	15.6	15.2	16.3		104
23-11-11M	26600	22.6	11.2	12.0		100
SOUTHERN STATES COOP., INC.		BRISTOL VA.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-10M	26898	5.2	10.7	10.4		105
10-10-10M	26899	9.0*	10.9	10.1		98
10-20-20M	26900	10.3	18.6*	19.3*		97*
SOUTHERN STATES COOP., INC.		LOUISVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	26998	0.0	20.3	20.8		102
0-20-20M	27223	0.0	20.3	21.3		103
4-16-4S	25804	4.4	14.8*	5.0		100
4-16-4S	25843	4.3	14.4*	4.5		96*
4-16-4S	25948	4.3	15.8	4.4		102
4-16-4S	26050	4.4	17.1	4.2		108
4-16-4S	26140	4.3	14.8*	4.9		99
4-16-4S	26276	4.3	16.0	4.6		104
5-10-15S	25837	5.2	9.9	15.1		101
5-10-15S	26143	5.3	10.2	15.7		104
5-10-15S	26324	5.1	10.3	15.6		103
5-10-15S	26997	5.3	10.0	15.2		102
5-10-15S	27242	5.2	10.0	15.7		103
5-10-15S	27423	5.1	10.0	15.4		101
5-10-20S	26995	5.4	10.3	20.2		104
5-20-20M	25650	5.1	19.3*	20.7		99
5-20-20M	25839	5.3	19.3*	20.5		100
5-20-20M	26325	5.3	19.5*	20.0		100
5-20-20M	26833	5.3	19.8	21.0		102
5-20-20M	27224	5.2	19.5*	21.5		102
6-6-18S	25824	6.3	6.7	17.9		105
6-12-12M	25252	6.3	13.1	11.4*		104
6-12-12M	25292	6.4	12.6	12.2		104
6-12-12M	25502	6.0	12.4	12.0		102
6-12-12M	25619	6.1	12.3	13.9		105
6-12-12M	26326	6.2	12.4	12.6		104
6-12-12M	26678	6.1	12.0	12.6		101
6-12-12M	27222	6.0	11.9	13.0		102
8-10-15S	25772	8.2	10.3	15.5		102
8-10-15S	25840	8.0	10.3	15.5		102
8-10-15S	26141	8.1	10.7	15.6		104
8-10-15S	26153	8.2	10.4	15.6		103
8-10-15S	26677	8.1	10.0	15.5		101



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SOUTHERN STATES COOP., INC.		LOUISVILLE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
8-10-15S	26846	8.1	10.6	15.1		103
8-10-15S	26996	1.0	10.7	15.2		103
8-10-15S	27241	8.3	10.2	15.6		103
10-10-10M	25290	9.9	10.6	10.2		102
10-10-10M	25382	10.1	10.4	9.9		102
10-10-10M	25838	10.0	10.3	10.4		102
10-10-10M	26155	10.1	10.3	10.8		102
10-10-10M	26674	10.1	10.6	10.3		103
10-10-10M	26999	10.0	10.3	10.1		101
10-10-10M	27001	10.0	10.6	10.3		102
10-10-10M	27243	10.2	10.1	10.5		102
30-0-0	26545	30.4	0.0	0.0		101
SOUTHERN STATES COOP., INC.		RUSSELLVILLE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	25472	0.0	22.8	16.7*		104
0-20-20M	25521	0.0	22.7	15.8*		102
0-20-20M	25599	0.0	20.0	22.3		104
0-20-20M	25726	0.0	23.3	16.4*		105
0-20-20M	25822	0.0	20.3	21.3		103
0-20-20M	25886	0.0	16.4*	24.2		95*
0-20-20M	27303	0.0	18.5*	18.0*		91*
4-12-8M	25318	4.0	12.4	9.1		104
4-12-8M	25439	4.6	12.0	10.1		109
4-12-8M	26277	4.4	11.8	8.9		103
4-12-8M	26379	4.3	11.5*	8.4		100
4-12-8M	26912	4.3	12.3	7.7*		102
4-16-4S	25894	4.3	14.4*	4.8		97*
4-16-4S	26081	4.3	16.2	4.7		104
5-10-15S	25647	4.9	9.9	14.9		99
5-10-15S	25671	5.0	9.9	16.2		102
5-10-15S	25694	4.7	9.7	16.0		99
5-10-15S	25703	4.8	10.8	13.7*		100
5-10-15S	25756	5.3	10.9	15.3	*	106
5-10-15S	25842	4.8	10.1	15.1		99
5-10-15S	25845	5.1	10.2	15.4		102
5-10-15S	25870	5.2	10.0	15.3		102
5-10-15S	25878	4.9	9.8	16.0		100
5-10-15S	25898	4.8	9.8	15.1		98
5-10-15S	25945	5.2	9.6*	15.5		101
5-10-15S	25947	4.9	9.9	15.6		100
5-10-15S	25954	4.9	10.5	14.0*		99
5-10-15S	26027	4.9	10.3	15.0		101
5-10-15S	26136	4.9	10.1	14.6*		99
5-10-15S	26235	5.5	9.3*	15.5		101
5-10-15S	26272	5.1	10.1	14.9		100
5-10-15S	26273	5.1	10.0	15.3		101
5-10-15S	26341	5.1	9.9	15.5		101
5-10-15S	26414	5.2	9.9	15.1		101
5-10-15S	26655	5.4	9.6*	15.6		102
5-10-15S	26656	5.5	10.3	16.5	*	107
5-10-15S	26775	5.3	10.0	15.3		102
5-10-15S	26880	4.9	9.7	15.3		99
5-10-15S	26886	5.2	10.1	15.3		102
5-10-15S	26913	4.7*	11.0	11.8*		96*
5-10-15S	27201	5.2	10.5	14.4*		102
5-10-15S	27202	5.4	10.2	15.0		103
5-10-15S	27211	5.2	9.9	14.9		100

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SOUTHERN STATES COOP , INC.		RUSSELLVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
5-10-15S	27533	5.2	10.0	14.5*		100
5-15- 5M	25691	5.4	15.0	5.6		104
5-15- 5M	25880	5.3	15.4	5.7		105
5-15- 5M	26651	5.7	15.1	6.2		107
5-15- 5M	26675	5.3	14.5*	5.8		101
5-15- 5M	26908	5.5	15.0	5.5		104
5-15- 5M	27217	5.6	14.7	5.6		104
5-20-20M	25258	5.2	21.9	16.6*		101
5-20-20M	25261	5.1	20.2	18.5*		99
5-20-20M	25281	5.7	20.8	18.4*		103
5-20-20M	25311	4.9	19.6	20.1		99
5-20-20M	25365	5.1	19.7	19.9		99
5-20-20M	25412	5.4	18.7*	22.5		101
5-20-20M	25431	5.8	20.3	18.9*		102
5-20-20M	25437	5.5	19.6	20.7		102
5-20-20M	25441	5.2	20.1	20.0		101
5-20-20M	25452	5.9	20.7	18.6*		104
5-20-20M	25473	5.7	19.5*	20.7		102
5-20-20M	25522	5.0	20.5	19.9		101
5-20-20M	25556	6.3	25.8	26.3		129
5-20-20M	25639	5.2	20.4	19.6		101
5-20-20M	25648	5.3	20.9	18.1*		101
5-20-20M	25680	5.4	20.6	19.6		103
5-20-20M	25699	5.3	19.4*	20.7		100
5-20-20M	25758	5.5	19.9	19.9		101
5-20-20M	25773	5.3	19.6	20.8		101
5-20-20M	25774	5.4	19.9	20.3		101
5-20-20M	25795	5.2	19.9	21.0		102
5-20-20M	25855	5.3	17.8*	23.8		100
5-20-20M	25869	4.9	21.1	19.9		103
5-20-20M	25884	5.3	20.2	20.5		102
5-20-20M	25887	5.2	20.4	20.4		103
5-20-20M	25901	5.5	20.8	17.8*		101
5-20-20M	25913	5.5	20.3	19.8		102
5-20-20M	25955	5.6	19.8	20.3		102
5-20-20M	26026	5.3	20.0	20.7		102
5-20-20M	26163	5.2	20.2	20.8		102
5-20-20M	26286	5.0	21.3	19.1*		102
5-20-20M	26313	5.2	20.7	20.1		103
5-20-20M	26316	5.6	19.9	19.9		102
5-20-20M	26416	5.5	20.8	19.8		104
5-20-20M	26737	5.1	20.5	19.9		102
5-20-20M	26847	5.4	20.7	19.1*		102
5-20-20M	27212	5.6	21.3	18.2*		103
5-20-20M	27352	5.2	18.8*	21.8		100
6-12-12M	25303	6.5	12.1	12.6		104
6-12-12M	25438	6.6	12.6	10.7*		103
6-12-12M	25453	6.7	12.6	10.2*		103
6-12-12M	25474	6.5	11.9	12.8		104
6-12-12M	25482	6.5	12.1	11.1*		101
6-12-12M	25519	6.3	11.8	13.2		103
6-12-12M	25597	5.7*	11.3*	13.7		99
6-12-12M	25640	5.5*	12.2	11.9		98
6-12-12M	25690	6.3	11.5*	13.2		102
6-12-12M	25693	5.9	11.9	12.5		100
6-12-12M	25771	6.1	11.9	12.2		100
6-12-12M	25856	6.5	11.8	12.9		104



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SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	25885	6.1	12.2	13.0		103
6-12-12M	25899	6.3	11.3*	13.3		101
6-12-12M	25966	5.5*	12.1	12.9		99
6-12-12M	26034	5.5*	12.3	13.6		101
6-12-12M	26287	5.7*	12.1	12.7		100
6-12-12M	26415	6.0	12.1	11.2*		99
6-12-12M	26736	5.9	12.3	10.2*		97*
6-12-12M	26887	6.1	11.9	12.5		101
6-12-12M	26892	6.6	11.3*	12.5		102
6-12-12M	27534	6.2	11.6*	12.4		100
6-12-13S	25823	5.9	12.3	17.9		101
6-12-18S	25873	5.9	12.0	18.5	*	100
6-12-18S	27206	6.1	12.4	16.6*		100
6-12-18S	27270	6.0	11.8	18.5		100
6-24-24M	25692	6.0	22.7*	25.6		99
6-24-24M	25747	6.4	24.4	23.9		102
6-24-24M	25748	6.1	24.1	24.2		100
6-24-24M	25796	6.5	24.3	22.8*		101
6-24-24M	25868	6.2	24.1	23.9		101
6-24-24M	25911	6.1	23.5*	25.0		100
6-24-24M	26916	6.0	22.4*	26.5		99
6-24-24M	27302	6.0	24.8	23.5*		101
10-10-10M	25282	9.9	10.2	11.9		103
10-10-10M	25302	10.3	10.1	11.4		104
10-10-10M	25366	10.1	10.3	10.1		102
10-10-10M	25379	10.1	10.5	11.1		104
10-10-10M	25380	9.9	11.2	9.5*		102
10-10-10M	25381	10.1	11.6	9.9		106
10-10-10M	25398	10.6	9.9	10.9		104
10-10-10M	25440	10.6	10.0	10.8		104
10-10-10M	25442	10.3	10.2	11.2		104
10-10-10M	25454	10.6	10.6	10.2		105
10-10-10M	25481	9.5*	10.9	10.2		101
10-10-10M	25512	10.1	9.5*	12.0		102
10-10-10M	25520	8.3*	10.5	11.3		95*
10-10-10M	25552	10.0	10.2	11.4		103
10-10-10M	25638	10.6	9.7	11.4		104
10-10-10M	25649	10.6	10.4	9.9		104
10-10-10M	25656	10.3	10.4	10.1		103
10-10-10M	25698	10.0	9.9	11.1		101
10-10-10M	25704	9.6*	10.5	9.8		99
10-10-10M	25757	10.4	10.1	10.7		103
10-10-10M	25770	10.1	10.4	10.0		102
10-10-10M	25794	10.0	10.6	10.7		103
10-10-10M	25841	9.7*	11.0	9.5*		101
10-10-10M	25857	10.4	10.1	10.8		103
10-10-10M	25874	10.1	10.6	9.9		102
10-10-10M	25912	8.9*	12.4	12.0		105
10-10-10M	25944	9.5*	10.2	10.2		98
10-10-10M	25946	9.5*	11.1	9.1*		99
10-10-10M	25967	10.2	10.6	10.5		104
10-10-10M	26035	10.1	9.5*	10.9		100
10-10-10M	26082	10.9	10.5	10.2		106
10-10-10M	26275	9.6*	11.0	10.1		101
10-10-10M	26340	10.3	9.8	10.7		102
10-10-10M	26749	10.3	10.0	10.8		103
10-10-10M	26760	11.3	9.2*	10.1		104

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SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
10-10-10M	26909	9.9	10.8	9.5*			101
18-46-0	25598	17.8	46.0	0.0			100
SOUTHERN STATES COOP., INC.		WINCHESTER KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	26863	0.0	20.1	20.0			100
4-16-4S	25850	3.9	16.0	4.3			100
4-16-4S	26028	4.1	16.0	4.7			102
5-10-15S	25769	5.0	10.3	15.0			101
5-10-15S	25849	5.1	10.2	14.9			101
5-20-20M	25397	5.1	19.5*	21.8			101
5-20-20M	25504	4.9	19.7	21.6			101
5-20-20M	26758	5.1	20.9	19.3*			102
6-6-18S	26062	6.2	6.0	18.0			101
6-6-18S	26063	6.0	6.2	17.9			100
6-12-12M	25816	5.8	13.1	11.9			103
6-12-12M	26750	6.2	12.1	12.7			103
8-10-15S	26580	8.0	10.5	15.0			102
8-10-15S	26665	7.9	10.2	15.1			100
8-10-15S	26693	8.1	10.1	15.1			101
10-10-10M	27351	10.1	10.4	10.6			103
10-10-10M	27562	9.9	10.2	10.9			102
30-0-0	27557	30.7	0.0	0.0			102
S. S. BARDSTOWN COOP.		BARDSTOWN KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
9-10-15S	27234	9.5*	10.0*	16.8			99
12-16-16M	27235	12.7	16.4	16.7			101
13-52-0	26831	12.9	52.3	0.0			100
16-11-12S	26830	16.6	11.3	14.3			101
20-0-24M	26832	21.1	0.0	23.0*			102
21-13-13M	26829	22.0	13.2	13.5			101
S. S. CAMPBELLSVILLE COOP.		CAMPBELLSVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
10-8-12S	27260	8.3*	8.2	15.3			96*
12-7-11S	27259	10.1*	7.8	13.9			96*
13-19-19M	26809	13.3	19.6	20.1			100
17-17-17M	26810	17.8	18.5	18.1			101
21-13-13M	27261	20.6*	13.3	15.3			100
S. S. GRAYSON COOP.		GRAYSON KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
18-17-17M	26875	18.9	16.4*	17.2			101
30-0-0	26876	31.3	0.0	0.0			104
S. S. GREENVILLE SERVICE		GREENVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-15-40M	27430	0.0	13.5*	42.4			98
6-27-27M	25586	7.6	29.7	26.6*			104
6-27-27M	27429	9.3	26.1*	27.8			103
S. S. HARDIN COOP.		ELIZABETHTOWN KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
5-22-16S	27508	6.0	20.2*	18.4			97*
7-23-15M	26546	6.5*	28.3	14.0*			106
14-14-14M	27151	15.7	15.1	13.9*			104
15-9-20M	27152	14.7	10.7	20.8			102
S S HARRODSBURG COOP		HARRODSBURG KY			XS	CL	RV
GRADE	NUM	N	APA	POT			
25-5-7M	27268	24.5*	5.6	9.5			100



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

S. S. HENDERSON COOP.		HENDERSON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-23-30M	27279	0.0	23.1	30.5		101	
6-24-32M	27362	6.5	26.7	29.6*		104	
S S HENRY COOP		EMINENCE		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
16-16-20M	26761	16.7	15.9	21.6		100	
21-13-13M	26762	21.6	12.9*	13.9		98	
S. S. HORSE CAVE COOP.		HORSE CAVE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-30-16S	27142	10.7	16.9*	15.8*		86*	
7-15-22M	26702	7.3	15.7	22.9		101	
10-30-20M	26704	10.0	31.4	19.5*		101	
11-15-16S	27145	10.4*	15.1	18.5		99	
13-16-14M	26703	13.6	17.4	13.9		102	
14-11-16S	27144	14.0*	12.4	20.0		104	
16-17-17S	27143	14.6*	16.6*	20.1		97*	
S. S. IRVINGTON SERVICE		IRVINGTON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
14-14-14M	25435	14.0*	16.1	16.3		103	
14-14-14M	25436	15.0	14.9	14.8		103	
S. S. LEBANON COOP.		LEBANON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
15-10-16S	27257	13.5*	11.2	18.0		97*	
16-16-13S	27267	14.9*	14.3*	16.7		95*	
25-17-17M	27258	17.8*	16.9*	18.6		81*	
S. S. LONDON COOP.		LONDON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
17-17-17M	27182	19.2	17.4	16.1*		103	
18-46- 0	27183	18.6	46.7	0.0		102	
S S MADISONVILLE COOP		MADISONVILLE		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-15-39M	27161	0.0	17.2	38.3*		103	
0-23-30M	27162	0.0	27.3	25.9*		106	
9-27- 5M	27384	9.0	24.7*	3.5*		93*	
S S MAYSVILLE COOP		MAYSVILLE		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-21-21M	26694	5.1	21.3	23.4		100	
S. S. MORGANFIELD COOP.		MORGANFIELD		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-15-40M	25313	0.0	13.8*	41.1		97*	
0-24-24M	27369	0.0	22.8*	29.1		101	
0-25-26M	25645	0.0	26.1	26.8		102	
S. S. OWENSBORO COOP.		OWENSBORO		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-26-26M	25589	0.0	28.1	24.3*		103	
6-27-27M	26620	6.7	26.8*	29.2		99	
6-27-27M	27070	6.8	26.0*	28.2		97*	
10- 8-12M	27071	9.4*	8.1	13.9		97*	
S. S. RUSSELLVILLE COOP.		RUSSELLVILLE		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
4-12- 8M	25554	4.2	12.6	7.6*		104	
5-20-20M	25568	5.3	20.2	19.7		101	
5-20-20M	25628	4.9	18.8*	22.2		99	
6-12-12M	25555	6.2	11.9	12.8		102	
6-12-12M	25629	5.7*	11.8	12.9		99	
6-12-12M	26783	6.1	23.2	14.8		147	
10-10-10M	25627	9.6*	11.3	9.2*		101	
14-14-14M	25569	12.9*	14.9	18.3		99	

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S. S. SHELBYVILLE COOP.		SHELBYVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
10-13-19S	26535	11.7	13.3	15.3*	*	99
10-14-18S	27248	10.7	15.6	17.8*		102
11-10-26M	27247	10.7*	8.6*	29.0		94*
11-17-17M	27007	10.7*	19.6	16.9*		102
12-15-23S	27246	12.3*	15.9	22.3*		99
13-15-22S	27006	13.6	15.8	21.9*		101
14-14-14M	26533	14.8	14.6	15.3		101
14-14-14M	26536	16.1	15.4	15.7		108
18-17-17M	27008	17.6	17.9	18.4		100
19- 6-17M	26534	19.9	6.7	16.9		103
S. S. SIMPSON COOP.		FRANKLIN KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
6-27-27M	25413	7.8	29.0	26.9*		104
12- 9- 9M	27191	13.3	8.7*	9.9		103
14-14-14M	25414	16.3	14.3	13.2*		103
S. S. TODD SERVICE		ELKTON KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
8- 8-13S	26564	9.1	8.7	12.9		103
SPENCER FARM SERVICE		TAYLORSVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
4-14-14M	26842	7.8	16.1	14.5		122
8-11-30M	27245	8.5	11.6	30.2		101
16- 7-20M	27244	17.1	7.5	19.9		101
16-12-14M	26843	15.7*	15.3	13.6*		101
SPRINGFIELD FARMERS SERVICE		SPRINGFIELD KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
9-12-18S	26988	12.2	12.7	17.9		113
12-12-18S	26989	11.7*	12.7	18.6		98
STANLEY CROP SERVICE		STANLEY KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
6-24-24M	27073	4.4*	18.6*	29.4		88*
6-26-26M	27072	5.2*	24.1*	29.7		97*
10-20-20M	25509	10.8	25.3	18.7*		113
26- 6- 6M	26623	27.1	5.6*	4.7*		99
STEWART FERTILIZER SERVICE		MT. VERNON KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
0-20-20M	27104	0.0	19.5*	21.0		100
0-20-20M	27499	0.0	20.4	20.8		103
5-10-15S	26013	4.5*	8.7*	14.9		91*
5-10-15S	27106	4.3*	7.9*	13.1*		83*
5-20-20M	26012	5.0	19.5*	20.5		99
5-20-20M	26660	4.3*	16.8*	24.1		94*
5-20-20M	27105	6.1	22.2	14.9*		103
5-20-20M	27498	5.1	19.9	19.9		100
6- 6-18S	27102	6.0	6.5	18.1		102
6- 8- 6S	27097	7.0	9.7	6.7		118
6-12-18S	27100	8.2	16.8	16.9*		125
6-12-18S	27101	7.3	13.6	18.0		112
7-19-19M	27108	8.1	21.1	19.5		104
10-10-10M	26014	9.5*	9.2*	11.5		97*
10-10-10M	27103	8.5*	7.6*	11.8		87*
11- 7-10S	27500	8.8*	7.2	10.9		88*
12- 6- 4S	27099	11.5*	5.9	4.3		93*
12- 7-11S	27098	11.6*	7.7	9.1*		94*
17-17-17M	27107	16.8	14.6*	20.2		98
18-11-16S	26659	17.9*	11.6	17.5		100



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SWIFT AGRI. CHEM. CORP.		CHICAGO		ILL		XS	CL	RV
GRADE	NUM	N	APA	POT				
5-10-15S	26772	5.8	10.3	14.2*		*		104
5-10-15S	26895	5.7	10.2	15.0				105
5-10-15S	27424	4.1*	11.4	16.0		*		102
5-20-20M	26885	5.9	19.6*	18.9*				101
5-20-20M	26954	4.5*	18.4*	19.4*				93*
6-10- 4M	26502	5.8	10.4	5.5				104
6-12-18S W/ME	26894	6.1	14.0	18.2				108
6-12-18S W/ME	27353	4.9*	18.4	19.8		*		119
10- 6- 4M	26569	8.9*	11.2	4.9				117
10-10-10M	26568	8.6*	18.5	14.6				129
18- 4- 8M W/ME	26823	17.9	4.5	10.0				104
18- 4- 8M W/ME	27393	16.3*	5.9	9.2				100
23- 7- 7M	26570	20.9*	8.2	8.6				97*
SWIFT AGRICULTURAL CHEM CORP		CINCINNATI		OHIO		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-20- 0	26051	0.0	20.4	0.0				102
0-20- 0	27192	0.0	19.0*	0.0				95*
0-20- 0	27437	0.0	26.2	0.0				131
0-20-20M	26398	0.0	18.7*	19.7				95*
0-25-25M	26657	0.0	24.6	23.5*				97*
0-25-25M	26774	0.0	27.4	19.0*				98
0-25-25M	26890	0.0	25.1	23.9*				99
0-25-25M	27011	0.0	23.3*	25.0				95*
0-25-25M	27177	0.0	20.9*	24.8				89*
3-10-30M W/ME	27420	3.5	11.2	28.3*				104
4-12- 8M	26397	4.5	12.1	8.9				105
4-12- 8M	26729	6.3	20.9	13.9				170
4-12- 8S	25866	4.7	11.9	8.3				105
4-12- 8S	26933	4.5	12.2	8.3		*		105
4-12-12M	27439	4.9	9.0*	14.1				97*
4-16- 4S	25943	3.6*	17.7	4.6				106
5-10-15S	26009	5.2	9.8	13.9*				98
5-10-15S	26053	4.9	10.1	15.2		*		100
5-10-15S	26420	4.9	9.8	14.5*				98
5-10-15S	26427	6.1	10.2	16.4				110
5-10-15S	26666	5.7	10.4	14.9				105
5-20-20M	25705	5.0	19.5*	19.2*				98
5-20-20M	25762	6.9	17.1*	19.6				99
5-20-20M	25817	4.9	19.0*	20.8				98
5-20-20M	25853	5.2	19.6	18.6*				98
5-20-20M	25942	5.2	19.9	19.0*				99
5-20-20M	26314	5.0	18.0*	20.3				95*
5-20-20M	26723	4.8	19.2*	14.9*				91*
5-20-20M	26773	5.0	20.1	18.8*				99
5-20-20M	26889	5.7	19.2*	20.0				101
5-20-20M	27014	5.0	20.9	19.6*				101
5-20-20M	27028	5.0	16.7*	17.1*				87*
5-20-20M	27178	5.7	19.5*	19.4*				101
5-20-20M	27215	6.7	17.0*	21.8				101
5-20-20M	27518	4.9	17.4*	19.9				92*
6-12-12M	25864	5.8	12.6	12.3				102
6-12-12M	27438	5.4*	10.3*	12.8				92*
6-12-18S W/ME	25865	6.0	12.8	17.6				102
6-12-18S W/ME	25941	5.9	13.4	18.1				104
6-12-18S W/ME	26008	5.6*	12.6	17.8		*		99
6-12-18S W/ME	26291	5.5*	10.9*	17.4*				93*
6-12-18S W/ME	26396	6.1	12.4	17.4*				100

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SWIFT AGRICULTURAL CHEM CORP			CINCINNATI		OHIO	XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-18S W/ME	26429	6.1	13.5	17.4*	*	105	
6-12-18S W/ME	26644	5.8	11.8	17.7	*	98	
6-12-18S W/ME	27346	5.3*	11.0*	17.9		93*	
6-12-18S W/ME	27419	4.1*	22.0	23.5	*	133	
6-18-12M	25697	5.9	17.7	12.6		99	
6-24-24M	26724	5.9	22.3*	22.3*		95*	
6-24-24M	26924	6.1	23.1*	22.9*		97*	
6-24-24M	26939	6.3	23.0*	24.3		99	
6-24-24M	27012	6.1	23.3*	21.5*		96*	
6-24-24M	27216	5.6*	21.3*	22.6*		91*	
6-24-24M	27452	5.5*	21.6*	20.8*		89*	
10-10-10M	25818	9.0*	11.3	9.1*		98	
10-10-10M	25863	10.0	10.8	10.8		104	
10-10-10M	26052	9.9	10.5	10.4		101	
10-10-10M	26399	10.2	10.4	10.7		103	
10-10-10M	26430	9.9	11.1	10.1		103	
10-10-10M	26923	9.1*	10.1	10.8		97*	
10-10-10M	27029	10.1	10.5	10.6		103	
10-10-10M	27179	9.9	10.7	11.0		103	
10-10-10M	27421	9.8	11.5	9.3		103	
10-10-10M	27453	9.8	10.1	9.8		99	
10-10-10M W/ME	26400	9.6*	10.5	10.2		100	
12-12-12M	26428	12.1	12.1	10.2*		98	
12-24-24M	26891	10.9*	23.0*	23.9		95*	
12-24-24M	27180	9.1*	17.7*	22.6*		79*	
20-10-15M	26682	19.9	10.8	15.8		102	
33- 0- 0	25749	34.9	0.0	0.0		104	
SWIFT AGRICULTURAL CHEM CORP			HOPKINSVILLE KY		XS CL	RV	
GRADE	NUM	N	APA	POT			
5-20-20M	27527	4.8	17.4*	22.9		96*	
6-24-24M	27549	5.9	22.1*	22.4*		93*	
SWIFT AGRI CHEMICAL CORP			NAT STOCKYDS ILL.		XS CL	RV	
GRADE	NUM	N	APA	POT			
5-20-20M	25782	5.1	20.1	20.4		101	
TAYLOR SEED COMPANY			GEORGETOWN KY		XS CL	RV	
GRADE	NUM	N	APA	POT			
9- 9-13S	27309	7.9*	9.5	13.5		95*	
USS AGRI-CHEMICALS, INC.			ATLANTA GA.		XS CL	RV	
GRADE	NUM	N	APA	POT			
0- 0-60M	25832	0.0	0.0	60.0		100	
0-20- 0	25359	0.0	19.8	0.0		99	
0-25-25M	26045	0.0	23.4*	26.4		98	
0-25-25M	26168	0.0	25.2	23.7*		99	
0-25-25M	26236	0.0	24.4*	25.6		99	
0-46- 0	25791	0.0	46.0	0.0		100	
0-46- 0	26863	0.0	45.2*	0.0		98	
3-12- 6M	26054	4.0	11.2*	7.1		106	
4-12- 8M	25279	4.5	11.9	9.1		105	
4-12- 8M	25461	3.7	13.3	8.6		106	
5-10- 5S	26124	5.5	10.0	5.2		104	
5-10- 5S	26169	5.5	9.1*	6.3		102	
5-10- 5S	26904	4.9	8.4*	5.7		93*	
5-10-10M	25498	5.0	15.8	14.0		135	
5-10-10M	25507	5.0	9.9	10.5		101	
5-10-10M	26510	4.9	10.0	10.7		101	
5-10-10M	27020	4.9	10.0	11.0		102	
5-10-10M	27484	5.3	9.9	11.0		104	



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USS	AGRI-CHEMICALS, INC. GRADE	NUM	ATLANTA		GA.	XS CL	RV
			N	APA	POT		
5-10-15S	25459	5.5	9.8	16.5			105
5-10-15S	25685	4.9	9.8	16.0			100
5-10-15S	25712	5.3	9.7*	14.4*			100
5-10-15S	25713	4.8	9.9	14.7			98
5-10-15S	25784	5.2	9.9	14.5*			100
5-10-15S	25844	5.5	10.0	15.4			103
5-10-15S	26040	5.4	9.8	15.4			102
5-10-15S	26042	5.5	10.5	15.7			106
5-10-15S	26121	4.9	9.5*	14.9			97*
5-10-15S	26165	5.0	9.6*	15.7			100
5-10-15S	26227	5.3	10.1	14.1*	*		100
5-10-15S	26229	5.4	9.9	14.7			101
5-10-15S	26230	5.4	9.7*	14.8			100
5-10-15S	26338	4.9	10.0	15.4			100
5-10-15S	26348	5.5	10.8	15.6	*		107
5-10-15S	26504	5.7	10.2	14.5*	*		104
5-10-15S	26673	4.9	9.9	15.6			100
5-10-15S	26681	5.3	9.9	15.9	*		103
5-10-15S	26905	5.1	10.1	15.6			102
5-10-15S	26907	5.7	12.6	16.7	*		118
5-10-15S	26914	5.0	10.6	14.5*			102
5-10-15S	27080	5.2	10.1	15.1			102
5-10-15S	27118	5.0	9.6*	15.2			99
5-20-20M	25276	5.2	19.9	19.9			101
5-20-20M	25278	5.3	18.8*	20.2			98
5-20-20M	25328	4.9	20.1	19.9			100
5-20-20M	25360	5.6	17.7*	18.1*			94*
5-20-20M	25469	5.4	20.2	19.3*			101
5-20-20M	25475	5.3	19.8	19.2*			99
5-20-20M	25543	4.9	18.6*	18.9*			95*
5-20-20M	25581	5.2	20.4	18.9*			100
5-20-20M	25677	5.0	19.3*	18.6*			96*
5-20-20M	26092	5.2	19.7	19.7			100
5-20-20M	26232	5.3	19.3*	20.5			100
5-20-20M	26435	5.2	19.6*	20.0			99
5-20-20M	26661	5.8	19.1*	18.9*			99
5-20-20M	26858	5.9	19.0*	20.4			101
6- 6-18S	26223	5.9	6.6	18.9			104
6- 6-18S	27078	5.8	7.1	18.5	*		104
6- 6-18S	27552	7.1	6.1	19.7			111
6-12-12M	25277	5.8	12.0	12.5			100
6-12-12M	25357	5.9	11.9	11.6*			98
6-12-12M	25387	7.0	11.8	12.5			105
6-12-12M	25476	5.9	11.8	12.5			100
6-12-12M	25483	5.5*	12.2	12.5			99
6-12-12M	25542	5.8	11.9	11.8			98
6-12-12M	25615	6.7	11.7	12.3			103
6-12-12M	26041	6.3	13.1	13.2			108
6-12-12M	26233	6.3	11.1*	12.6			99
6-12-12M	26646	6.2	11.3*	11.4*			97*
6-12-12M	27485	5.7*	12.0	13.0			100
6-12-12S	26122	5.9	11.5*	11.9			97*
6-12-18S	25458	6.6	11.2*	18.7			101
6-12-18S	25716	5.9	11.7	17.5*	*		98
6-12-18S	25793	5.7*	11.5*	18.3			97*
6-12-18S	26334	5.7	11.8	18.7			99
6-12-18S	26349	5.9	12.0	19.1			101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

USS	AGRI-CHEMICALS, INC.	GRADE	NUM	ATLANTA		GA.	XS CL	RV
				N	APA	POT		
		6-12-18S	26663	6.0	11.9	18.6		101
		6-12-18S	26967	5.9	11.9	18.3		99
		6-12-18S	27079	5.9	12.0	17.3*		9E
		6-12-18S	27117	6.3	11.8	18.3		101
		6-12-18S	27506	5.4*	11.8	17.9		96*
		6-24-24M	26262	6.0	24.2	23.5*		100
		6-24-24M	26971	6.2	24.5	23.0*		101
		7-28-28M	26195	7.6	28.5	28.0		103
		7-28-28M	26268	7.3	29.1	27.9		103
		7-28-28M	26381	7.1	28.5	28.0		101
		7-28-28M	26382	7.8	28.3	27.5		102
		7-28-28M	26647	7.2	28.7	27.9		102
		8- 8-16M	27119	8.9	15.9	15.9		133
		8-16-16M	26706	8.1	16.0	15.9		101
		8-16-16M	26970	8.6	15.7	16.3		102
		8-24-24M	26616	7.7	23.3*	23.9		98
		8-24-24M	27019	7.8	22.2*	24.2		96*
		8-32-16M	26648	8.8	30.7*	16.4		100
		10- 6- 4M	26716	10.0	6.3	4.4		102
		10- 6- 4M W/ME	27409	9.4*	6.9	5.0		102
		10-10-10M	25280	9.9	10.4	9.2*		99
		10-10-10M	25319	9.6*	10.3	10.6		100
		10-10-10M	25327	10.9	10.3	10.7		107
		10-10-10M	25358	9.2*	10.6	10.7		99
		10-10-10M	25386	10.6	9.9	9.9		102
		10-10-10M	25451	10.6	10.9	10.2		106
		10-10-10M	25460	10.9	10.0	11.1		106
		10-10-10M	25462	11.1	10.0	10.3		106
		10-10-10M	25468	10.6	10.9	11.6		109
		10-10-10M	25499	10.6	10.1	11.0		105
		10-10-10M	25508	8.7*	10.5	11.1		97*
		10-10-10M	25658	10.7	9.9	11.6		106
		10-10-10M	25714	10.4	10.6	10.1		104
		10-10-10M	25715	7.8*	10.7	12.5		95*
		10-10-10M	25785	10.2	9.8	10.8		102
		10-10-10M	25831	10.9	9.9	10.7		105
		10-10-10M	25958	9.7	10.2	11.3		101
		10-10-10M	26033	9.6*	9.9	10.5		99
		10-10-10M	26039	10.7	9.8	11.7		105
		10-10-10M	26055	9.7*	9.8	10.8		99
		10-10-10M	26225	12.1	12.0	12.0		120
		10-10-10M	26306	9.7	10.4	11.5		102
		10-10-10M	26347	9.7	11.0	11.7		104
		10-10-10M	26383	9.8	10.4	10.1		100
		10-10-10M	26662	10.2	9.5*	9.9		99
		10-10-10M	26777	10.3	10.7	11.4		106
		10-10-10M	27411	9.9	10.6	11.0		103
		10-10-10M	27525	9.9	11.2	11.1		105
		10-10-20S	26867	10.3	9.9	19.0*		99
		12- 4- 8M W/ME	26571	11.4*	5.5	9.8		106
		12-12-12M	26234	11.7	12.4	13.4		102
		12-12-12M	26486	11.3*	12.1	12.6		98
		12-12-12M	26705	12.1	12.0	12.8		102
		12-12-12M	26906	12.4	12.7	11.2*		102
		12-12-12M	26915	12.8	12.6	11.3*		104
		12-12-12M	26969	10.1*	11.3*	10.7*		88*
		12-12-12M	27483	12.1	12.2	12.0		101



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

USS AGRI-CHEMICALS, INC.		ATLANTA		GA.		XS	CL	RV
GRADE	NUM	N	APA	POT				
12-12-12M	27501	11.7	11.9	12.8				100
12-12-12M	27551	11.3*	11.7	12.5				97*
12-12-18S	25657	9.2*	15.1	20.3		*		100
12-12-18S	26231	12.2	11.6*	18.8				101
12-12-18S	26305	12.6	10.7*	17.5*				98
12-12-18S	26487	12.4	11.0*	17.5*				98
14-14-14M	26968	13.9	14.3	14.2				100
15-40-5M	27018	14.9	40.3	6.3				101
30-0-0	26488	30.4	0.0	0.0				101
33-0-0	26123	34.1	0.0	0.0				102
82-0-0	26944	81.8	0.0	0.0				100
82-0-0	27295	82.0	0.0	0.0				100
USS AGRI-CHEMICALS, INC.		CHEROKEE		ALA.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-46-0	27468	0.0	46.6	0.0				101
7-28-28M	26279	7.3	28.1	23.8				102
7-28-28M	26403	7.5	29.5	26.5*				103
7-28-28M	26412	7.7	28.9	27.9				104
7-28-28M	26785	7.2	28.8	27.9				102
7-28-28M	27194	6.9	28.3	28.3				101
7-28-28M	27537	7.1	28.1	28.9				101
8-32-16M	27569	8.2	32.6	16.3				102
13-52-0	27193	13.3	51.9	0.0				100
14-14-14M	26278	13.9	14.3	14.4				101
14-14-14M	27536	14.1	14.1	14.9				102
30-0-0	26732	30.3	0.0	0.0				101
30-0-0	27535	30.6	0.0	0.0				102
33-0-0	25661	33.6	0.0	0.0				100
33-0-0	26281	33.6	0.0	0.0				100
82-0-0	27382	82.1	0.0	0.0				100
82-0-0	27428	82.0	0.0	0.0				100
USS AGRI-CHEMICALS, INC.		CINCINNATI		OHIO		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-0-60M	26769	0.0	0.0	59.6				99
4-16-4S	25775	4.4	15.2*	5.5		*		103
5-10-5S	26256	5.1	9.5*	5.8				100
5-10-10M	25968	4.9	12.0	11.8				112
5-10-15S	25981	5.4	10.1	15.1		*		103
5-10-15S	26178	4.9	9.5*	14.6*				96*
5-10-15S	26191	4.9	9.9	15.3				99
5-10-15S	26240	5.2	10.8	15.1		*		104
5-10-15S	26252	5.6	10.0	15.8				105
5-10-15S	26364	5.0	9.9	15.2				100
5-20-20M	25304	5.1	21.9	19.9				105
5-20-20M	25307	5.1	20.5	20.1				102
5-20-20M	25964	5.3	18.4*	19.9				97*
5-20-20M	25975	5.2	18.7*	19.9				97*
5-20-20M	26192	5.2	19.5*	19.5*				98
5-20-20M	26254	5.5	20.2	19.4*				102
5-20-20M	26470	5.2	18.8*	19.9				97*
5-20-20M	26683	5.0	20.3	19.9				101
5-20-20M	26757	5.9	19.1*	19.5*				101
6-6-18S	25535	6.4	6.2	20.1				107
6-6-18S	26177	5.8	6.8	19.2		*		105
6-6-18S	26244	6.0	7.1	19.1		*		106
6-12-12M	25308	6.0	12.9	12.8				105
6-12-12M	25970	6.2	12.6	12.7				104

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

USS AGRI-CHEMICALS, INC. GRADE	INC. NUM	CINCINNATI		OHIO		XS	CL	RV
		N	APA	POT	POT			
6-12-12M	25971	6.0	11.4*	11.9				98
6-12-12M	26004	5.9	12.0	13.1				101
6-12-12S	26471	6.2	12.4	12.8				104
6-12-18S	25777	5.8	12.4	19.0	*			102
6-12-18S	25963	6.0	11.8	18.1				99
6-12-18S	25982	5.9	12.0	13.0	*			99
6-12-18S	26238	5.9	12.1	17.5*				99
6-12-18S	26255	5.5*	13.2	18.9				103
6-12-18S	26363	6.0	11.7	18.0				99
6-24-24M	25976	6.0	24.5	23.9				101
8-10-15S	26180	8.2	10.1	16.0				103
8-32-16M	25309	7.5*	31.2*	17.3				98
8-32-16M	25977	7.7*	31.2*	17.4				99
10-10-10M	25306	10.4	10.1	11.4				104
10-10-10M	26362	10.2	10.2	11.4				104
10-10-10M	26576	10.1	9.5*	10.0				99
10-10-10M	26756	9.6*	10.8	11.9				103
10-10-10M	26871	10.4	10.0	10.9				103
10-10-20S	25536	9.9	10.8	20.2	*			102
10-10-20S	26175	9.3*	10.1	19.1*				96*
10-10-20S	26179	10.2	11.2	19.2*				103
10-10-20S	26242	10.1	11.1	19.4*				103
10-10-20S	26251	9.9	11.4	19.6*				103
10-10-20S	26361	10.3	10.0	18.5*				99
10-10-20S	26684	10.1	11.3	19.9				104
10-10-20S	26869	9.8	10.8	18.8*	*			100
12-12-12M	25305	12.2	13.2	12.1				104
12-12-12M	25969	11.9	11.9	12.9				101
12-12-12M	25978	10.6*	15.1	13.8				105
12-12-12M	26253	12.2	12.0	12.1				101
14-14-14M	25776	13.9	14.6	14.1				101
18-46-0	26767	17.7	45.9	0.0				99
33-0-0	26768	34.0	0.0	0.0				102
USS AGRI-CHEMICALS, INC. GRADE	INC. NUM	JEFFERSONVILLIND.				XS	CL	RV
		N	APA	POT	POT			
0-25-25M	25294	0.0	24.2*	25.8				99
0-46-0	26840	0.0	46.9	0.0				102
4-12-8M	25501	3.9	11.8	10.1				103
5-10-10M	26524	5.4	14.1	13.6				129
5-10-15S	26330	4.9	10.6	14.9	*			101
5-10-15S	26522	5.1	9.1*	16.0				99
5-10-15S	26712	5.9	9.1*	15.8				103
5-10-15S	27052	5.2	10.1	14.7				101
5-10-15S	27135	5.2	9.8	14.6*	*			100
5-10-15S	27136	4.9	9.5*	16.1				99
5-10-15S	27230	7.7	9.7*	14.1*	*			113
5-10-15S	27274	5.2	10.1	15.7				103
5-10-15S	27390	5.1	10.2	15.2				101
5-20-20M	25293	5.5	22.0	20.1				107
5-20-20M	25500	5.3	21.8	19.9				106
5-20-20M	26201	5.2	21.6	18.1*				103
5-20-20M	27146	5.1	19.5*	19.9				99
6-6-18S	27130	6.1	7.3	18.3	*			107
6-6-18S	27273	5.9	6.3	18.9	*			102
6-12-12M	25295	6.8	11.8	12.5				105
6-12-12M	27133	6.7	11.5*	13.5				104
6-12-18S	26327	5.5*	11.5*	18.0				97*



TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)

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

USS AGRICHEMICALS, INC.		JEFFERSONVILLIND.			XS CL	RV
GRADE	NUM	N	APA	POT		
6-12-18S	26523	5.5*	10.7*	18.4		94*
6-12-18S	26589	5.9	11.8	18.7		100
6-12-18S	27219	5.9	13.7	16.0*		101
6-12-18S	27228	5.8	11.4*	18.5		98
6-12-18S	27322	6.0	12.2	17.5*	*	100
8-10-15S	27129	8.1	9.8	14.0*		98
10-10-10M	25291	10.0	9.7	11.6		102
10-10-10M	26328	9.2*	10.2	12.7		101
10-10-10M	26521	10.2	10.1	11.6		104
10-10-10M	26713	10.1	9.3*	9.9		98
10-10-10M	26814	10.3	10.0	10.8		102
10-10-10M	27229	9.8	10.0	10.7		100
10-10-10M	27391	9.1*	17.1	17.4		126
10-10-10M	27467	11.0	9.8	9.5*		103
12-12-12M	27134	12.1	11.6*	13.0		101
12-12-12M	27321	12.0	12.2	12.1		101
12-12-12M	27443	11.5*	12.6	13.0		101
12-12-18S	26537	11.3*	11.9	18.4		97*
12-12-18S	27240	11.9	11.6*	17.5*		98
12-24-24M	27466	11.8	24.6	24.1		101
15-40-5M	26841	14.9	40.1	5.8		101
USS AGRICHEMICALS, INC.		NASHVILLE			XS CL	RV
GRADE	NUM	N	APA	POT		
0-0-62M	25419	0.0	0.0	60.0*		97*
0-20-0	25421	0.0	18.3*	0.0		92*
0-20-0	25432	0.0	17.4*	0.0		87*
0-20-0	27299	0.0	18.9*	0.0		95*
0-20-20M	25527	0.0	17.6*	21.0		94*
0-20-20M	25934	0.0	17.8*	20.7		94*
3-12-6M	25724	19.1	11.7	7.9		226
3-12-24M	25254	3.7	11.3*	24.0		102
3-12-24M	25363	3.8	11.8	21.7*		99
3-12-24M	25393	3.8	11.8	21.6*		99
3-12-24M	25406	4.0	11.8	22.6*		102
3-12-24M	27213	4.0	12.2	22.2*		102
4-12-8M	25242	4.7	11.8	9.8		108
4-12-8M	25564	4.0	12.1	9.6		104
5-10-5M	25603	6.8	10.3	7.9		122
5-10-5S	25755	5.4	9.4*	7.8		107
5-10-5S	25897	5.6	10.5	5.2	*	107
5-10-5S	26404	4.8	9.9	9.9		110
5-10-5S	26408	5.4	11.2	5.5		110
5-10-5S	27516	5.3	10.6	6.0	*	107
5-10-10M	25723	17.8	9.8	10.4		185
5-10-10M	26727	5.5	10.0	10.7		105
5-10-10M	26784	5.1	9.7*	10.3		99
5-10-10M	27041	5.0	9.4*	10.2		98
5-10-10M	27449	5.4	10.1	11.2		106
5-10-15S	25248	5.3	10.3	15.3		104
5-10-15S	25859	5.2	9.9	14.9		101
5-10-15S	25891	5.3	9.6*	14.7		99
5-10-15S	25922	5.2	10.0	15.1		101
5-10-15S	25927	5.3	10.0	14.6*		101
5-10-15S	26652	5.2	9.6*	14.1*		98
5-10-15S	27046	5.8	9.7*	14.2*		102
5-10-15S	27196	5.8	9.3*	15.8		103
5-10-15S	27435	5.3	9.9	14.6*		100

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
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	APA	POT			
5-20-20M	25267	5.6	19.0*	19.9	99	
5-20-20M	25288	4.9	17.7*	21.8	96*	
5-20-20M	25392	5.4	19.1*	18.6*	97*	
5-20-20M	25416	5.5	19.1*	16.1*	94*	
5-20-20M	25418	5.8	19.9	19.0*	101	
5-20-20M	25565	5.9	19.2*	20.7	102	
5-20-20M	25675	6.0	18.4*	20.7	101	
5-20-20M	25676	5.0	19.3*	20.4	99	
5-20-20M	25889	4.9	18.2*	19.1*	93*	
5-20-20M	25921	5.2	20.4	19.6*	101	
5-20-20M	26791	5.2	19.3*	19.0*	97*	
5-20-20M	27520	5.3	21.9	18.0*	104	
5-20-20M W/B	25933	5.2	20.1	18.3*	99	
6-12-12M	25260	6.1	11.9	12.5	101	
6-12-12M	25287	6.4	11.7	11.9	101	
6-12-12M	25404	6.1	11.7	12.1	99	
6-12-12M	25526	5.6*	11.9	11.4*	96*	
6-12-12M	25528	5.5*	11.9	11.5*	96*	
6-12-12M	25606	5.6*	11.5*	13.9	99	
6-12-12M	25624	5.0*	12.0	12.6	96*	
6-12-12M	25793	6.3	11.0*	13.3	100	
6-12-12M	25920	5.9	11.0*	12.7	97*	
6-12-12M	25926	5.5*	11.0*	12.8	95*	
6-12-12M	26289	5.7	11.6*	12.4	98	
6-12-12M	26780	6.5	11.1*	12.3	100	
6-12-12M	26792	5.7	11.2*	12.8	97*	
6-12-12M	27521	6.2	10.9*	12.9	99	
6-12-18S	25246	5.9	11.6*	17.1*	97*	
6-12-18S	25247	6.6	12.9	15.5*	102	
6-12-18S	25792	5.8	11.4*	18.3	98	
6-12-18S	25810	5.5*	11.6*	18.1	96*	
6-12-18S	25860	5.3	11.5*	17.6*	96*	
6-12-18S	25888	5.9	11.1*	18.5	98	
6-12-18S	25906	6.1	11.6*	17.3*	98	
6-12-18S	25925	5.8	11.7*	17.5*	97*	
6-12-18S	26280	5.7*	11.5*	17.6*	96*	
6-12-18S	26422	5.8	11.6*	17.5*	97*	
6-12-18S	26566	6.0	11.3*	17.5*	96*	
6-12-18S	26781	6.1	11.5*	15.9*	*	95*
6-12-18S	27195	6.1	11.3*	17.2*		97*
6-12-18S	27300	5.6*	11.3*	18.4		96*
6-12-18S	27465	5.9	11.9	17.1*		97*
6-12-18S	27519	5.8	11.5*	17.9		97*
6-18-36M W/ME	25255	6.7	18.4	35.9		103
6-24-24M	25425	6.6	24.0	24.5		102
8-24-24M	26786	7.9	23.2*	21.7*		96*
8-24-24M	26934	7.3*	22.2*	25.4		95*
8-24-24M	27325	8.0	22.5*	25.0		98
8-24-24M	27456	8.1	22.8*	22.1*		96*
8-32-16M	25604	7.7	33.3	16.3		102
8-32-16M	25930	8.1	32.0	16.8		101
9-26- 8M	25407	7.8*	28.9	10.0		101
10-10-10M	25241	9.9	10.6	9.0*		100
10-10-10M	25266	11.0	10.4	9.9		106
10-10-10M	25286	9.5*	10.6	9.3*		98
10-10-10M	25403	10.6	9.7	10.6		103
10-10-10M	25405	9.3*	10.4	10.7		99



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
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				
10-10-10M	25417	10.1	10.0	10.7				101
10-10-10M	25426	9.3*	12.8	13.9				112
10-10-10M	25561	10.1	11.1	10.2				104
10-10-10M	25605	9.5*	10.3	10.5				99
10-10-10M	25623	9.8	9.9	10.1				99
10-10-10M	25905	9.6*	10.5	10.1				100
10-10-10M	25923	9.9	9.5*	11.6				100
10-10-10M	25924	9.4*	10.1	10.1				97*
10-10-10M	26288	10.2	9.6*	10.5				100
12-24-24M	26940	12.0	25.0	22.4*				100
14-14-14M	25890	13.8	14.2	14.2				100
14-14-14M	25931	14.7	15.4	13.9				106
14-14-14M	25932	14.0	14.3	13.9				101
14-14-14M	26787	13.5*	18.3	16.3				111
14-14-14M	26941	14.2	14.4	13.6*				101
15-15-15M	25284	14.7	16.7	14.8				103
15-40- 5M	25256	14.8	40.3	5.7				101
15-40- 5M	25285	15.2	40.0	6.4				102
15-40- 5M	25563	15.1	39.9	6.7				101
15-40- 5M	25929	15.4	40.3	6.0				102
25- 5-10M	26956	21.7*	6.3	11.8				94*
33- 0- 0	25562	33.2	0.0	0.0				99
33- 0- 0	25909	35.2	0.0	0.0				105
UNION FERTILIZER CO.		MORGANFIELD		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-14-40M	26613	0.0	11.1*	46.8				98
0-23-29M	25646	0.0	26.0	27.3*				104
0-23-29M	26614	0.0	22.6*	31.7				101
0-25-26M	25317	0.0	28.5	26.4				110
17-17-17M	25550	17.8	19.4	17.0*				103
VISTRON CORP.		LIMA		OHIO		XS	CL	RV
GRADE	NUM	N	APA	POT				
45- 0- 0	26973	45.7	0.0	0.0				102
VOLUNTARY PURCHASING GROUPS		BONHAM		TEX.		XS	CL	RV
GRADE	NUM	N	APA	POT				
6-10- 4M W/ME	26734	7.8	11.6	5.0				123
WARNER FERTILIZER COMPANY		SOMERSET		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-25-25M	26093	0.0	22.4*	29.9				99
5-10-15S	25957	5.5	10.4	15.0				104
5-10-15S	26094	5.2	10.2	14.9				101
5-10-15S	27085	7.0	12.9	11.6*				116
5-20-20M	25679	3.8*	18.1*	21.6				92*
5-20-20M	27086	4.3*	15.9*	24.3				92*
5-20-20M	27087	5.0	19.3*	23.8				103
6-12-12M	27566	8.8	11.0*	18.6				124
6-12-18S	27094	5.4*	10.7*	12.6*				83*
10-10-10M	25678	9.8	8.9*	11.7				98
10-10-10M	26095	8.7*	9.0*	12.6				94*
10-10-10M	27088	10.3	12.3	11.6				111
10-10-20S	27092	8.4*	17.2	20.5				114
10-10-20S	27472	11.1	13.9	16.2*				110
10-20-20M	27090	8.9*	15.4*	19.6				86*
12-12-12M	27568	20.5	14.7	12.2				143
12-24-24M	27091	12.1	24.0	23.7				100
15-15-15M	27089	15.9	16.4	12.0*				103
18-13-13M	27093	20.0	14.0	16.6				112

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1969-June 1970)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

WARNER FERTILIZER COMPANY		SOMERSET		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
26- 0-12M	27084	24.8*	0.0	16.1			98

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

SAMPLE NUMBER	MANUFACTURER, BRAND NAME	PHOSPHORIC ACID				PERCENT OF RELATIVE VALUE FOUND
		AVAILABLE		TOTAL		
		GUAR.	FOUND	GUAR.	FOUND	
<u>Thompson Sales Company</u>						
25534	Calphos	2.0	4.0	18.0	22.7	126
26685	Calphos	2.0	2.8	18.0	22.6	126
27096	Calphos	2.0	2.8	18.0	15.8	88*

**TABLE 3 - 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>						
26209	7-0-0 Agrinite	7.0	---	---	---	100
26748	7-0-0 Agrinite	6.8	---	---	---	97*
26921	7-0-0 Agrinite	6.5*	---	---	---	93*
<u>W. R. Grace &amp; Co. Agri. Prod. Group</u>						
26198	10-0-0 Davco-Nite	10.8	---	---	---	107
<u>Internat'l. Min. &amp; Chem. Corp.</u>						
27392	10-0-0 Mello-Green	9.9	---	---	---	99
<u>USS Agri. Chemicals, Inc.</u>						
25861	5-5-0 Vertoganic	6.3	7.3	---	---	134
26059	5-5-0 Vertoganic	5.8	7.1	---	---	125
26650	5-5-0 Vertoganic	6.3	6.3	---	---	126
27434	5-5-0 Vertoganic	5.6	4.3*	---	---	112
27539	5-5-0 Vertoganic	5.5	4.2*	---	---	100



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

COMPANY AND PLANT	SAMPLE NUMBER	GRADE	GUARANTEE	FOUND
Burley Belt Fertilizer Co. Lexington, Ky.	26577	6- 0- 0	0.23	0.46M
Commonwealth Fertilizer Co. Russellville, Ky.	26333	0-25-25	0.55	0.44*
Glasgow Fertilizer Co. Glasgow, Ky.	26208 27558	0-19-38 0-19-38	0.57 0.57	0.52 0.51*
Gro-Green Chemical Co., Inc. Shelbyville, Ky.	26532 27005 27398	0-10-25 1- 6- 6 4-19-19	0.41 0.13 0.55	0.47 0.16 0.52
Royster Company Norfolk, Virginia	26950	0-20-20	0.57	0.68
USS Agri-Chemicals, Inc. Nashville, Tennessee	25393 25933	3-12-24 5-20-20	0.34 0.34	0.11* 0.31

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

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
BLUEGRASS PLANT FOODS, INC., DANVILLE, KY.				
26478	5-10-15	MAGNESIUM	1.2000	1.3000
26862	6-12-18	MAGNESIUM	1.2000	1.1500
26985	5-10-15	MAGNESIUM	1.0000	1.0800
BORDEN INC. CHEMICAL DIV., NORFOLK, VA.				
27342	5-33-13	MAGNESIUM	0.5000	0.2700 *
27342	5-33-13	IRON	0.1000	0.4800 M
25513	24- 6- 6	IRON	0.1100	0.1400
27022	24- 6- 6	IRON	0.1100	0.3800 M
27023	20- 5- 5	IRON	0.2000	0.2700
27342	5-33-13	MANGANESE	0.0500	0.0500
27342	5-33-13	ZINC	0.0500	0.0600
BURLEY BELT FERTILIZER COMPANY, LEXINGTON, KY.				
25998	6-12-18	MAGNESIUM	2.0000	1.5100 *
26483	6-12-18	MAGNESIUM	2.0000	2.3000
26577	6- 0- 0	COPPER	0.2700	0.2200
26577	6- 0- 0	IRON	1.0400	0.9180 *
26577	6- 0- 0	ZINC	0.7500	0.3300 *
CHEVRON CHEMICAL CO.-ORTHO DIV., RICHMOND, CAL.				
26068	22- 4- 4	IRON	2.0000	2.0600
26572	22- 4- 4	IRON	2.0000	1.9100
26929	12- 6- 6	IRON	0.5000	0.4700
26931	10- 8- 7	IRON	0.4000	0.3700
26931	10- 8- 7	MANGANESE	0.0500	0.0500
26929	12- 6- 6	ZINC	0.1000	0.1700
26931	10- 8- 7	ZINC	0.0500	0.1700 M
COMMONWEALTH FERTILIZER CO., RUSSELLVILLE, KY.				
26558	5-33-13	MAGNESIUM	0.5000	0.5700
26638	6-12-18	MAGNESIUM	0.5000	0.3360 *
26639	8-12-15	MAGNESIUM	0.5000	0.4400 *
27044	8-12-15	MAGNESIUM	0.5000	0.5800
27197	5-33-13	MAGNESIUM	0.5000	0.3000 *
27198	7-21-10	MAGNESIUM	0.5000	0.2300 *
27200	5-33-13	MAGNESIUM	0.5000	0.2500 *
27264	5-33-13	MAGNESIUM	0.5000	0.2700 *
27427	6-21-18	MAGNESIUM	0.5000	0.2150 *
26558	5-33-13	IRON	0.1000	0.2000 M
26638	6-12-18	IRON	0.1000	0.3300 M
26639	8-12-15	IRON	0.1000	0.3300 M
27044	8-12-15	IRON	0.1000	0.3400 M
27045	6-12-18	IRON	0.1000	0.3000 M
27197	5-33-13	IRON	0.1000	0.2000 M
27198	7-21-10	IRON	0.1000	0.5400 M
27200	5-33-13	IRON	0.1000	0.2000 M
27264	5-33-13	IRON	0.1000	0.1000
27427	6-21-18	IRON	0.1000	0.3700 M
26558	5-33-13	MANGANESE	0.0500	0.0600
26638	6-12-18	MANGANESE	0.0500	0.0400
26639	8-12-15	MANGANESE	0.0500	0.0800
27044	8-12-15	MANGANESE	0.0500	0.0900
27045	6-12-18	MANGANESE	0.0500	0.0600
27197	5-33-13	MANGANESE	0.0500	0.1500 M



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

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
COMMONWEALTH FERTILIZER CO., RUSSELLVILLE, KY. (Cont'd.)				
27198	7-21-10	MANGANESE	0.0500	0.2000 M
27200	5-33-13	MANGANESE	0.0500	0.1500 M
27264	5-33-13	MANGANESE	0.0500	0.0500
27427	6-21-18	MANGANESE	0.0500	0.7500 M
26558	5-33-13	ZINC	0.0500	0.3000 M
26638	6-12-18	ZINC	0.0500	0.1800 M
26639	8-12-15	ZINC	0.0500	0.0500
27044	8-12-15	ZINC	0.0500	0.0540
27045	6-12-18	ZINC	0.0500	0.0340 *
27197	5-33-13	ZINC	0.0500	0.3700 M
27198	7-21-10	ZINC	0.0500	0.1400 M
27200	5-33-13	ZINC	0.0500	0.1500 M
27264	5-33-13	ZINC	0.0500	0.1400 M
27427	6-21-18	ZINC	0.0500	0.5000 M
FEDERAL CHEMICAL COMPANY, LOUISVILLE, KY.				
25879	10-10-15	MAGNESIUM	1.5000	2.1000
26265	5-25-15	MAGNESIUM	2.0000	2.0500
26743	10-10-15	MAGNESIUM	1.5000	1.6500
26856	10-10-15	MAGNESIUM	1.5000	1.4300
26925	10-10-15	MAGNESIUM	1.5000	1.5700
26974	10-10-15	MAGNESIUM	1.5000	1.6800
25879	10-10-15	COPPER	0.0500	0.0820
26265	5-25-15	COPPER	0.0500	0.0300 *
26701	10-10-15	COPPER	0.0500	0.0400
26743	10-10-15	COPPER	0.0500	0.0500
26856	10-10-15	COPPER	0.0500	0.0300 *
26925	10-10-15	COPPER	0.0500	0.0500
26974	10-10-15	COPPER	0.0500	0.0200 *
25879	10-10-15	ZINC	0.0500	0.2300 M
26265	5-25-15	ZINC	0.5000	0.3200 *
26701	10-10-15	ZINC	0.0500	0.0800
26743	10-10-15	ZINC	0.0500	0.0600
26856	10-10-15	ZINC	0.0500	0.1400 M
26925	10-10-15	ZINC	0.0500	0.1100 M
26974	10-10-15	ZINC	0.0500	0.0280 *
FEDERAL CHEMICAL COMPANY, NASHVILLE, TENN.				
25752	10-10-15	MAGNESIUM	1.5000	1.7600
25893	12-12-12	MAGNESIUM	2.0000	1.5000 *
26294	10-10-15	MAGNESIUM	1.5000	1.5200
27076	5-25-15	MAGNESIUM	2.0000	1.3200 *
25752	10-10-15	COPPER	0.0500	0.4820 M
26294	10-10-15	COPPER	0.0500	0.0540
27076	5-25-15	COPPER	0.0500	0.0300 *
27076	5-25-15	IRON	0.1000	0.2000 M
25752	10-10-15	ZINC	0.0500	0.1800 M
25893	12-12-12	ZINC	0.0500	0.2700 M
26294	10-10-15	ZINC	0.0500	0.0900
27076	5-25-15	ZINC	0.5000	0.3200 *

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

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
GLASGOW FERTILIZER COMPANY, GLASGOW, KENTUCKY				
26083	10-15-15	MAGNESIUM	1.0000	1.0800
26138	5-10-15	MAGNESIUM	1.0000	1.5700
26888	5-10-15	MAGNESIUM	1.0000	1.4700
27047	5-10-15	MAGNESIUM	1.0000	1.4000
W. R. GRACE & CO.-AGR. PROD. DIV., NEW ALBANY, IND.				
25558	6-38- 6	MAGNESIUM	0.5000	1.0800 M
26803	6-38- 6	MAGNESIUM	0.5000	0.6500
25558	6-38- 6	MANGANESE	0.5000	0.4700
26803	6-38- 6	MANGANESE	0.5000	0.4700
25558	6-38- 6	ZINC	1.5000	3.3700 M
26803	6-38- 6	ZINC	1.5000	1.4300
GRO-GREEN CHEMICAL CO., INC., SHELBYVILLE, KY.				
26101	8-12-15	MAGNESIUM	2.0000	2.6000
26530	15- 0-11	MAGNESIUM	0.0	1.6000
26532	0-10-25	COPPER	0.1700	0.1600
26530	15- 0-11	ZINC	0.0800	0.0800
26532	0-10-25	ZINC	0.3100	0.3900
GULF OIL CORP., AGRI. CHEM. DIV., CECILIA, KY.				
26353	12-12-16	MAGNESIUM	2.0000	2.1700
26353	12-12-16	COPPER	0.0500	0.0600
26353	12-12-16	IRON	0.1000	0.1700
26353	12-12-16	ZINC	0.0500	0.0400
GULF OIL CORP., AGRI. CHEM. DIV., OWENSBORO, KY.				
26621	12-12-16	MAGNESIUM	2.0000	1.8200
26621	12-12-16	COPPER	0.0500	0.0380 *
26621	12-12-16	IRON	0.1000	0.4800 M
26621	12-12-16	ZINC	0.0500	0.0500
GULF OIL CORP. AGRI. CHEM. DIV., WALNUT RIDGE, ARK.				
27033	12-12-16	MAGNESIUM	2.0000	2.0500
27033	12-12-16	COPPER	0.0500	0.0400
27033	12-12-16	IRON	0.1000	0.4400 M
27033	12-12-16	ZINC	0.0500	0.0500
HERITAGE HOUSE PRODUCTS, INC., CLEVELAND, OHIO				
26419	11- 4- 7	COPPER	0.0500	0.0350 *
26419	11- 4- 7	IRON	0.1000	0.2300 M
26419	11- 4- 7	MANGANESE	0.0500	0.0200 *
26419	11- 4- 7	ZINC	0.0500	0.1400 M
MOBIL CHEMICAL CO., RICHMOND, VA. *				
25491	14-14-14	MAGNESIUM	0.5000	3.2000 M
25570	6-12-18	MAGNESIUM	0.5000	0.8730
25491	14-14-14	COPPER	0.5000	0.1100 *
25570	6-12-18	COPPER	0.0500	1.4400 M
25491	14-14-14	IRON	0.1000	0.0500 *
25570	6-12-18	IRON	0.1000	0.5350 M
25491	14-14-14	MANGANESE	0.0500	0.5700 M

\* Samples taken Fall 1969.



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

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
MOBIL CHEMICAL CO., RICHMOND, VA. (Cont'd.)				
25570	6-12-18	MANGANESE	0.0500	3.9000 M
25491	14-14-14	ZINC	0.0500	3.3700 M
25570	6-12-18	ZINC	0.0500	2.5000 M
NORTH AMERICAN FERTILIZER CO., LOUISVILLE, KY.				
26070	9- 9-17	MAGNESIUM	1.2000	1.6200
26016	9- 9-17	MAGNESIUM	1.2000	1.1600
26300	9- 9-17	MAGNESIUM	1.2000	1.3500
26302	7-22-14	MAGNESIUM	1.2000	1.5500
26357	9- 9-17	MAGNESIUM	1.2000	1.5100
27313	9- 9-17	MAGNESIUM	1.2000	1.6300
26299	6- 6-18	COPPER	0.0500	0.0350 *
26299	6- 6-18	IRON	0.1000	0.2200 M
26070	9- 9-17	MANGANESE	0.2700	0.3300
26016	9- 9-17	MANGANESE	0.2700	0.0300 *
26299	6- 6-18	MANGANESE	0.0500	0.0300 *
26300	9- 9-17	MANGANESE	0.2700	0.6100 M
26357	9- 9-17	MANGANESE	0.2700	0.2800
26509	9- 9-17	MANGANESE	0.2700	0.0400 *
26016	9- 9-17	ZINC	0.2500	0.2000 *
26070	9- 9-17	ZINC	0.2500	0.3000
26299	6- 6-18	ZINC	0.0500	0.3500 M
26300	9- 9-17	ZINC	0.2500	0.2500
26302	7-22-14	ZINC	0.5400	0.6000
26357	9- 9-17	ZINC	0.2500	0.2900
26509	9- 9-17	ZINC	0.2500	0.3300
27313	9- 9-17	ZINC	0.2500	0.2100
OHIO VALLEY FERTILIZER, INC., MAYSVILLE, KY.				
26961	10-10-20	MAGNESIUM	1.0000	0.7500 *
26975	5-10-15	MAGNESIUM	1.0000	1.0100
27115	10-10-20	MAGNESIUM	1.0000	1.1000
26186	10-10-20	MAGNESIUM	1.0000	0.7250 *
26187	8-10-15	MAGNESIUM	1.0000	0.7800 *
ROYSTER COMPANY, NORFOLK, VA.				
25700	5-10-15	MAGNESIUM	1.2000	1.6900
25702	5-10-15	MAGNESIUM	1.2000	1.7000
25711	5-10-15	MAGNESIUM	1.2000	2.2700
25731	5-10-15	MAGNESIUM	1.2000	0.9000 *
25819	5-10-15	MAGNESIUM	1.2000	1.6300
25821	4-16- 4	MAGNESIUM	1.2000	1.6100
25854	5-10-15	MAGNESIUM	1.2000	1.4700
25993	5-10-15	MAGNESIUM	1.2000	1.1400
25994	5-10-15	MAGNESIUM	1.2000	1.0600 *
25995	10-10-15	MAGNESIUM	1.2000	1.4700
26115	5-10-15	MAGNESIUM	1.2000	0.8270 *
26149	5-10-15	MAGNESIUM	1.2000	1.5100
26150	5-10-15	MAGNESIUM	1.2000	1.4200
26307	5-10-15	MAGNESIUM	1.2000	0.9000 *
26320	5-10-15	MAGNESIUM	1.2000	1.6000
26321	10-10-10	MAGNESIUM	0.5000	0.7800
26591	5-10-15	MAGNESIUM	1.2000	1.5600
26731	5-20-20	MAGNESIUM	0.5000	0.6000

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

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
ROYSTER COMPANY, NORFOLK, VA. (Cont'd.)				
26732	10-10-15	MAGNESIUM	1.2000	1.5500
26849	5-10-15	MAGNESIUM	1.2000	1.3200
26851	10-10-15	MAGNESIUM	1.2000	1.5400
26947	5-10-15	MAGNESIUM	1.2000	1.0800
27082	5-10-15	MAGNESIUM	1.2000	1.3300
27132	5-10-15	MAGNESIUM	1.2000	1.1000
27190	5-10-15	MAGNESIUM	1.2000	* 1.0300 *
27225	5-10-15	MAGNESIUM	1.2000	1.3900
27413	5-10-15	MAGNESIUM	1.2000	1.1300
27509	5-10-15	MAGNESIUM	1.2000	0.9880 *
25700	5-10-15	COPPER	0.0500	0.5200 M
25702	5-10-15	COPPER	0.0500	0.4600 M
25819	5-10-15	COPPER	0.0500	0.0530
25821	4-16- 4	COPPER	0.0500	0.0630
25994	5-10-15	COPPER	0.0500	0.1000 M
25995	10-10-15	COPPER	0.0500	0.0180 *
26115	5-10-15	COPPER	0.0500	0.1600 M
26321	10-10-10	COPPER	0.0500	0.0460
26591	5-10-15	COPPER	0.0500	0.0500
26849	5-10-15	COPPER	0.0500	0.0600
26851	10-10-15	COPPER	0.0500	0.0500
26947	5-10-15	COPPER	0.0500	0.0500
27225	5-10-15	COPPER	0.0500	0.0800
26732	10-10-15	COPPER	0.0500	0.0600
27413	5-10-15	COPPER	0.0500	0.0500
25700	5-10-15	IRON	0.1000	0.3100 M
25702	5-10-15	IRON	0.1000	0.2800 M
25819	5-10-15	IRON	0.1000	0.3100 M
25821	4-16- 4	IRON	0.1000	0.4800 M
25994	5-10-15	IRON	0.1000	0.0150 *
25995	10-10-15	IRON	0.1000	0.0200 *
26115	5-10-15	IRON	0.1000	0.1040
26321	10-10-10	IRON	0.1000	0.3800 M
26591	5-10-15	IRON	0.1000	0.1900
26732	10-10-15	IRON	0.1000	0.3400 M
26849	5-10-15	IRON	0.1000	0.2800 M
26851	10-10-15	IRON	0.0100	0.3200 M
26947	5-10-15	IRON	0.1000	0.2900 M
27225	5-10-15	IRON	0.1000	0.2900 M
27413	5-10-15	IRON	0.1000	0.2100 M
25700	5-10-15	MANGANESE	0.0500	0.4700 M
25702	5-10-15	MANGANESE	0.0500	0.4200 M
25819	5-10-15	MANGANESE	0.0500	0.5300 M
25821	4-16- 4	MANGANESE	0.0500	0.3200 M
25994	5-10-15	MANGANESE	0.0500	0.4000 M
25995	10-10-15	MANGANESE	0.0500	0.4700 M
26115	5-10-15	MANGANESE	0.0500	0.1300 M
26321	10-10-10	MANGANESE	0.0500	0.0300 *
26591	5-10-15	MANGANESE	0.0500	0.0300 *
26732	10-10-15	MANGANESE	0.0500	0.0520
26849	5-10-15	MANGANESE	0.0500	0.0400
26851	10-10-15	MANGANESE	0.0500	0.0400
26947	5-10-15	MANGANESE	0.0500	0.0300 *
27225	5-10-15	MANGANESE	0.0500	0.0400



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

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
ROYSSTER COMPANY, NORFOLK, VA. (Cont'd.)				
27413	5-10-15	MANGANESE	0.0500	0.0400
25700	5-10-15	ZINC	0.0500	0.1140 M
25702	5-10-15	ZINC	0.0500	0.1250 M
25819	5-10-15	ZINC	0.0500	0.0480
25821	4-16-4	ZINC	0.0500	0.0700
25994	5-10-15	ZINC	0.0500	0.2400 M
25995	10-10-15	ZINC	0.0500	0.0300 *
26115	5-10-15	ZINC	0.0500	0.0500
26321	10-10-10	ZINC	0.0500	0.2000 M
26591	5-10-15	ZINC	0.0500	0.0400
26732	10-10-15	ZINC	0.0500	0.0500
26849	5-10-15	ZINC	0.0500	0.0490
26851	10-10-15	ZINC	0.0500	0.0420
26947	5-10-15	ZINC	0.0500	0.0600
27225	5-10-15	ZINC	0.0500	0.0590
27413	5-10-15	ZINC	0.0500	0.0310 *
SWIFT AGRI. CHEM. CORP., CHICAGO, ILL.				
25941	6-12-18	MAGNESIUM	0.5000	0.9100
26894	6-12-18	MAGNESIUM	0.5000	0.5300
27353	6-12-18	MAGNESIUM	0.5000	0.3750 *
25941	6-12-18	COPPER	0.0500	0.0600
26894	6-12-18	COPPER	0.0500	0.0200 *
27353	6-12-18	COPPER	0.0500	0.0130 *
25941	6-12-18	IRON	10.0000	7.2500 *
26894	6-12-18	IRON	0.1000	0.3500 M
27353	6-12-18	IRON	0.1000	0.4100 M
25941	6-12-18	MANGANESE	0.0500	0.0400
26894	6-12-18	MANGANESE	0.0500	0.0300 *
27353	6-12-18	MANGANESE	0.0500	0.0300 *
25941	6-12-18	ZINC	0.0500	0.1800 M
26894	6-12-18	ZINC	0.0500	0.0300 *
27353	6-12-18	ZINC	0.0500	0.0270 *
SWIFT AGRICULTURAL CHEM. CORP., CINCINNATI, OHIO				
25865	6-12-18	MAGNESIUM	0.5000	0.3400 *
26008	6-12-18	MAGNESIUM	0.5000	0.0400 *
26291	6-12-18	MAGNESIUM	0.5000	0.6700
26396	6-12-18	MAGNESIUM	0.5000	0.4600
27420	3-10-30	MAGNESIUM	0.5000	0.3330 *
26400	10-10-10	MAGNESIUM	0.5000	0.8700
26644	6-12-18	MAGNESIUM	0.5000	0.6000
27346	6-12-18	MAGNESIUM	0.5000	0.2700 *
27419	6-12-18	MAGNESIUM	0.5000	0.2950 *
25865	6-12-18	COPPER	0.0500	0.0300 *
26008	6-12-18	COPPER	0.0500	0.0600
26291	6-12-18	COPPER	0.0500	0.0270 *
26396	6-12-18	COPPER	0.0500	0.0510
26400	10-10-10	COPPER	0.0500	0.0390 *
26644	6-12-18	COPPER	0.0500	0.0300 *
27346	6-12-18	COPPER	0.0500	0.0300 *
27419	6-12-18	COPPER	0.0500	0.0100 *
27420	3-10-30	COPPER	0.0500	0.0280 *

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

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
SWIFT AGRICULTURAL CHEM. CORP., CINCINNATI, OHIO (Cont'd.)				
25865	6-12-18	IRON	0.1000	0.4300 M
26008	6-12-18	IRON	0.1000	0.0500 *
26291	6-12-18	IRON	0.1000	0.1100
26396	6-12-18	IRON	0.1000	0.4600 M
26400	10-10-10	IRON	0.1000	0.1600
26644	6-12-18	IRON	0.1000	0.3900 M
27346	6-12-18	IRON	0.1000	0.3400 M
27419	6-12-18	IRON	0.1000	0.4700 M
27420	3-10-30	IRON	0.1000	0.3700 M
25865	6-12-18	MANGANESE	0.0500	0.3500 M
26008	6-12-18	MANGANESE	0.0500	0.0700
26291	6-12-18	MANGANESE	0.0500	0.0900
26396	6-12-18	MANGANESE	0.0500	0.0100 *
26400	10-10-10	MANGANESE	0.0500	0.0900
26644	6-12-18	MANGANESE	0.0500	0.0500
27346	6-12-18	MANGANESE	0.0500	0.0300 *
27419	6-12-18	MANGANESE	0.0500	0.0200 *
27420	3-10-30	MANGANESE	2.0000	1.9200
25865	6-12-18	ZINC	0.0500	0.2400 M
26008	6-12-18	ZINC	0.0500	0.1700 M
26291	6-12-18	ZINC	0.0500	0.0300 *
26396	6-12-18	ZINC	0.0500	0.0600
26400	10-10-10	ZINC	0.0500	0.0300 *
26644	6-12-18	ZINC	0.0500	0.0800
27346	6-12-18	ZINC	0.0500	0.0500
27419	6-12-18	ZINC	0.0500	0.0240 *
27420	3-10-30	ZINC	0.0500	0.0300 *
THOMPSON SALES COMPANY, MONTGOMERY, ALA.				
26096	0- 0- 0	IRON	1.5000	1.4500
27096	0-18- 0	IRON	1.5000	1.9900
USS AGRI-CHEMICALS, INC., ATLANTA, GA.				
26571	12- 4- 8	MAGNESIUM	1.2000	1.5000
27409	10- 6- 4	MAGNESIUM	1.2000	1.4600
26571	12- 4- 8	IRON	0.1000	0.3100 M
27409	10- 6- 4	IRON	0.1000	0.3900 M
USS AGRI-CHEMICALS, INC., NASHVILLE, TENN.				
25255	6-18-36	MAGNESIUM	1.0000	0.2110 *
26956	25- 5-10	MAGNESIUM	1.2	1.2300
26956	25- 5-10	IRON	0.1000	0.3200 M
VOLUNTARY PURCHASING GROUPS, BONHAM, TEX.				
26734	6-10- 4	MAGNESIUM	2.2200	1.8300 *
26734	6-10- 4	IRON	0.1000	0.4300 M
26734	6-10- 4	MANGANESE	0.0500	0.0400
26734	6-10- 4	ZINC	0.0500	0.1100 M



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

SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEE	FOUND
BURLEY BELT FERTILIZER COMPANY, LEXINGTON, KY.				
26003	4-16- 4	ALDRIN	0.3100	0.3100
GRO GREEN PAYNES, MIDWAY, KENTUCKY				
27125	6- 6- 9	ALDRIN	0.0400	0.0400
27307	7- 5- 9	ALDRIN	0.0570	0.0730
27308	5 6- 6	ALDRIN	0.0480	0.0590
GULF OIL CORP., AGRI.CHEM. DIV., KANSAS CITY, MO.				
26061	6-24-24	ALDRIN	1.0000	0.6400*
26460	6-24-24	ALDRIN	1.0000	0.7400*
NORTH AMERICAN FERTILIZER COMPANY, LOUISVILLE, KY.				
26070	9- 9-17	ALDRIN	0.1500	0.2200
OHIO VALLEY FERTILIZER, INC., MAYSVILLE, KENTUCKY				
26687	10-10-20	ALDRIN	0.1200	0.1700
SOUTHERN STATES HORSE CAVE COOP., HORSE CAVE, KY.				
27142	5-30-16	ALDRIN	0.0900	0.0300*
27145	11-15-16	ALDRIN	0.0800	0.1200M

3.5M--10-70