

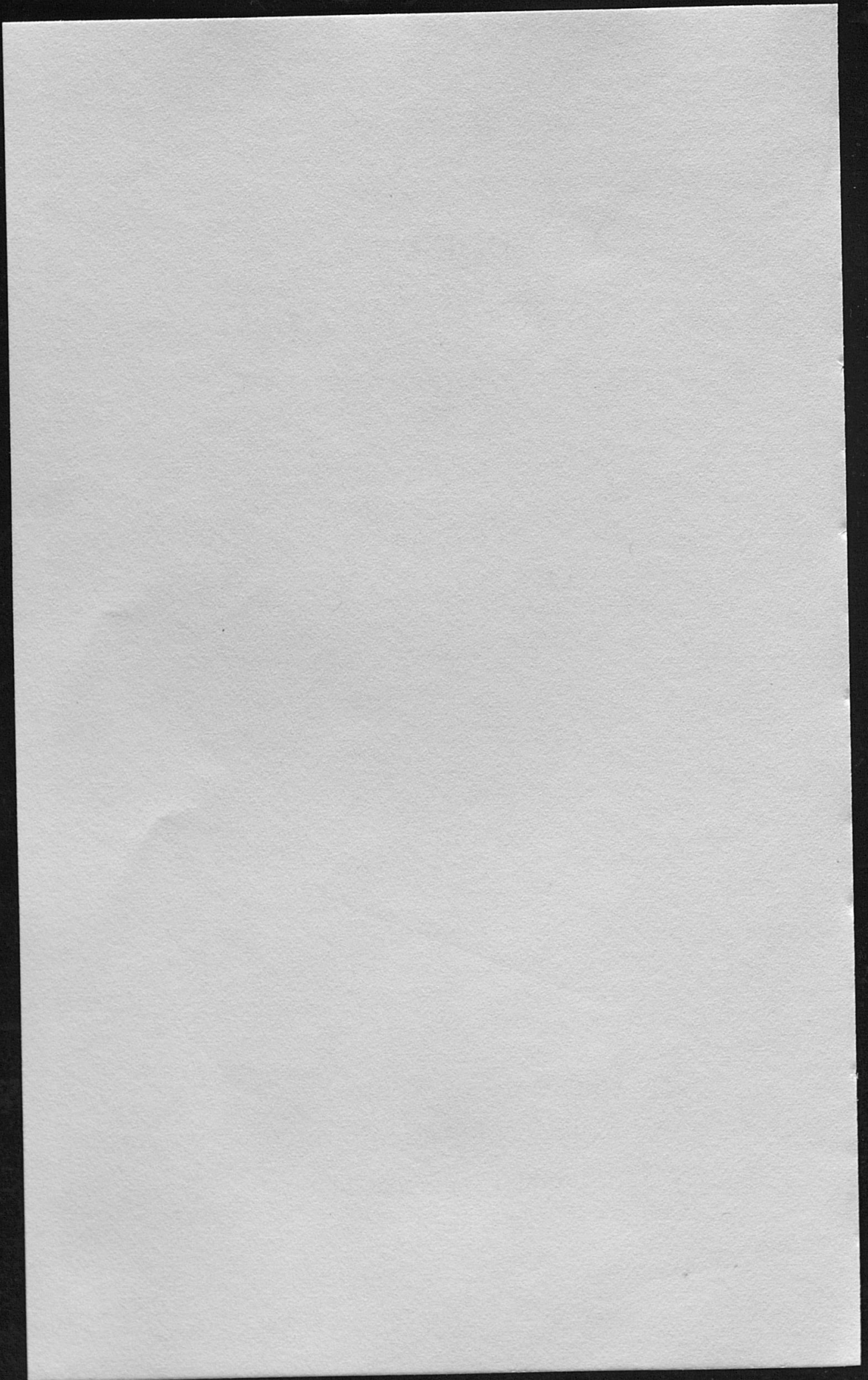
Regulatory Bulletin 211

**REPORT OF  
ANALYSES OF OFFICIAL  
FERTILIZER SAMPLES**

JULY 1971-JUNE 1972



University of Kentucky  
College of Agriculture  
Agricultural Experiment Station  
Lexington



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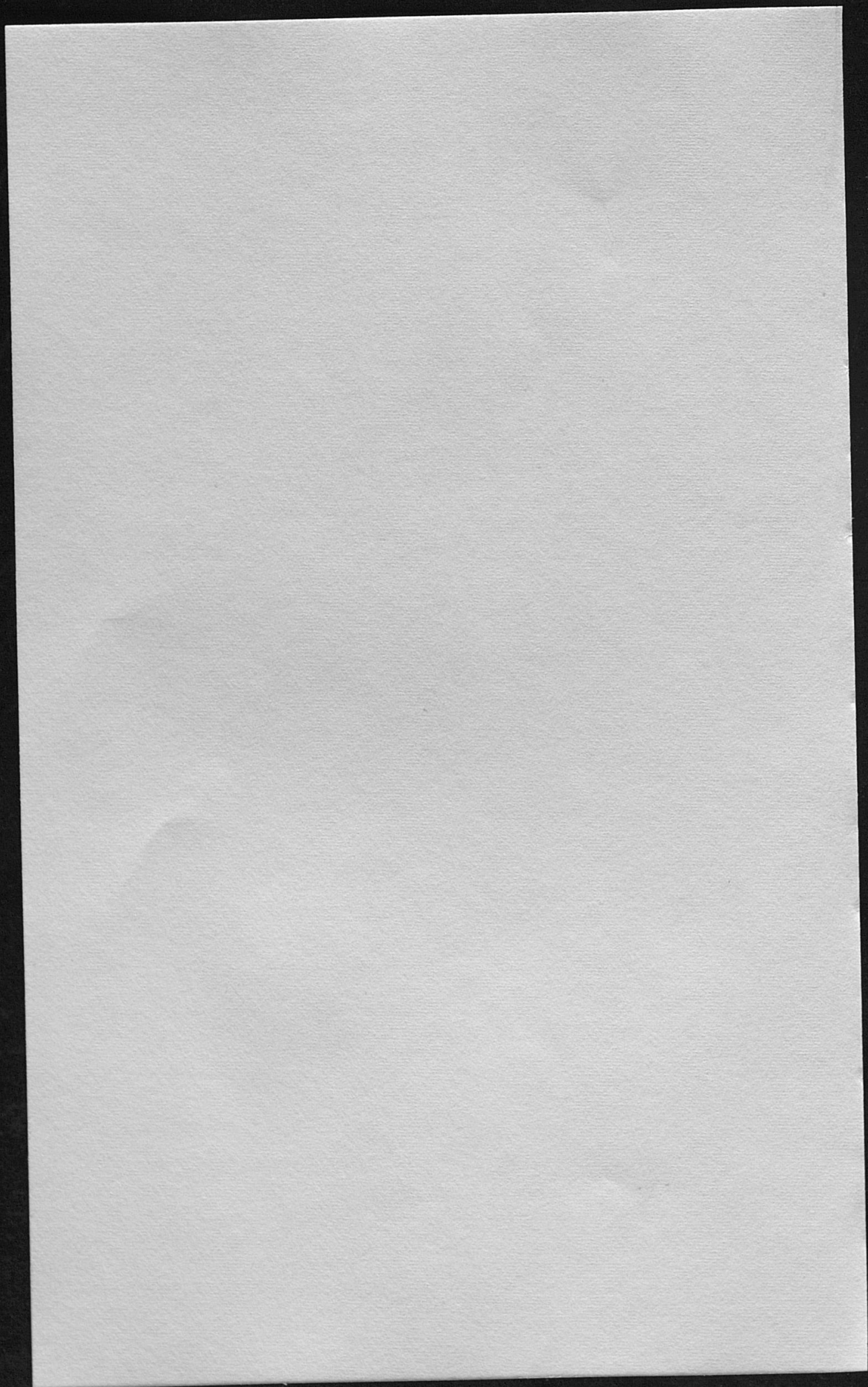
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This bulletin contains the results of analyses of 1,976 official samples of commercial fertilizer made during the period July 1, 1971 through June 30, 1972.

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

#### 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 fertilizer is guaranteed to contain 5 units of nitrogen, 10 units of available phosphoric acid ( $P_2O_5$ ) and 15 units of potash ( $K_2O$ ). Factors for computing the relative value of these plant foods are: 3 for nitrogen, 2 for available phosphoric acid and 1 for potash. Thus the combined guaranteed value of the product represented is calculated:

5.0 Units of Nitrogen	x 3 = 15.0
10.0 Units of Available Phosphoric Acid	x 2 = 20.0
15.0 Units of Potash	x 1 = <u>15.0</u>
Total computed guaranteed value	50.0

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

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

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

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

(Continued)

1. These tolerances are calculated by an electronic computer and applied to the laboratory analyses before these data are rounded off to the nearest tenth of a percent. In the above example, the laboratory found 9.66% for one sample and 9.74% for the other. The first one would be starred as deficient.

2. The grade is written by using the largest whole number in the guarantee of each ingredient. For example, a custom-mixed lot of fertilizer may be guaranteed 0-11.9-11.2. The grade would be written 0-11-11. However, the tolerances are calculated on the 11.9% and 11.2% guarantee. If this fertilizer analyzed 11.3% A.P.A. and 10.9% potash, the 11.3% A.P.A. would be starred because this analysis is 0.6% units below the 11.9% guarantee.

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

#### EXPLANATION OF CERTAIN COLUMNS

The letters NIT after a grade means that the product is, or that it contains, Nitrate of Potash. The 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.

#### INSPECTION AND ANALYTICAL ALLOWANCE

The following table shows the amount of variation below the guarantee that is allowed before a product is considered to be deficient in a plant food element.

This variation is allowed to compensate for any variations that may occur in sampling and analysis. It does not, nor is it intended to compensate for variation in the manufacturing process. The manufacturer should compensate for variability in manufacturing techniques and fertilizer materials in calculating his formulation for a given guarantee:

Percent Guarantee in Nitrogen,  
Phosphoric Acid or Potash

Tolerance in  
Percentage Units

0-9	0.2
10-19	0.3
20-25	0.4
26-34	0.5
35-39	0.6
40-49	0.7
50-59	0.8
60 or more	0.9

## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Agricultural Supply Co.  
Industrial Drive  
Hopkinsville, Kentucky 42240

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

T. R. Akridge & Son  
Fredonia, Kentucky 42411

A & L Farm Service, Inc.  
Lawrenceburg, Kentucky 40342

Allensville Crop Service  
Allensville, Kentucky 42204

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

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

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

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

Ballard County Coop.  
LaCenter, Kentucky 42056

Big Four Feed & Implement Co.  
Scottsville, Kentucky 42164

Black Leaf Products Co.  
667 North State St.  
Elgin, Illinois 60120

Bluegrass Plant Foods, Inc.  
Cynthiana, Kentucky 41031

Burley Belt Fertilizer Co.  
Box 5150  
Lexington, Kentucky 40505

Burley Belt Chemical Co.  
Box 7  
London, Kentucky 40741

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

Caudill Seed Co.  
P. O. Box 348  
Shelbyville, Kentucky 40065

CF Industries  
100 South Wacker Drive  
Chicago, Illinois 60606

Chevron Chemical Company  
940 Hensley St.  
Richmond, California 94801

Christian County Supply Co.  
Skyline Drive  
Hopkinsville, Kentucky 42240

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

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

Commercial Solvents Corp.  
245 Park Ave.  
New York, New York 10017

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

Elanco Products Co.  
740 S. Alabama St.  
Indianapolis, Indiana 46206

Elkton Crop Service  
Route 2  
Guthrie, Kentucky 42234

E-Z Flo Chemical Company  
701 Koderly Drive  
Columbus, Ohio 43228

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



## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

Farmers Fertilizer Co.  
Smith Grove, Kentucky 42171

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

Farmers Supply & Produce Co.  
Monticello, Kentucky 42633

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

Federal Chemical Co.  
646 Starks Building  
Louisville, Kentucky 40202

Franklin Crop Service  
Route 3  
Franklin, Kentucky 42134

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

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

Glasgow Fertilizer Co.  
Industrial Avenue  
Glasgow, Kentucky 42141

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

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

Green Valley Farm Supply Co.  
Island, Kentucky 42350

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

Hancock County Farm Supply  
Hawesville, Kentucky 42348

Elford Hayes  
Russell Springs, Kentucky 42642

Howe-Hilliard Grain Co.  
Mayfield, Kentucky 42066

Hutson Chemical Co.  
103 Maple Street  
Murray, Kentucky 42071

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

Jon-T Chemicals, Inc.  
100 S. Fifth St.  
Brownfield,  
Texas 79316

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

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

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

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

McCauley Brothers Seed Co.  
111 Broadway  
Versailles,  
Kentucky 40383

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

Meacham Nitrogen Service  
Route #3  
Morganfield, Kentucky 42437

Meade Farmers Supply  
Brandenburg, Kentucky 40108

Miles Farms Supply  
Route 3  
Owensboro,  
Kentucky  
42301

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

Moore-Hutcheson Co.  
Morgantown, Kentucky 42261

M-S Farm Service  
Rt. #3  
Box 387  
Henderson, Kentucky 42420

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

North American Fertilizer Company  
Preston & Bergman  
Louisville, Kentucky 40217

Occidental Chemical Co.  
Box 180  
Springfield, Ohio 45501

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

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

J. Petty Co.  
Route 1  
Gracey, Kentucky 41143

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

Prices Mill Farm Supply  
Route #2  
Franklin,  
Kentucky 42134

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

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

Sacramento Feed Mill  
Sacramento,  
Kentucky 42372

Sandusky Mill, Inc.  
Harrodsburg, Kentucky 40330

Schochoh Crop Service  
Route #5  
Russellville, Kentucky 42276

O. M. Scott & Sons  
Marysville,  
Ohio 43040

Smith-Douglas Div.  
Borden Chemicals  
Box 438  
Russellville, Kentucky 42276

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

Southeast Chemical Co.  
Box 130  
London, Kentucky 40741

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

Spencer Farm Service  
Taylorsville, Kentucky 40071

Springfield Farmers Service  
Springfield, Kentucky 40069

Stanley Crop Service  
Stanley, Kentucky 42375

Stewart Fertilizer Service  
Mt. Vernon, Kentucky 40456

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

Teater & Cassity Farm Service  
Nicholasville,  
Kentucky  
40356

Tobacco States Chemical Co.  
Box 479  
Lexington, Kentucky 40501

Todd County Grain Co.  
Elkton, Kentucky 42220

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

Union Fertilizer Co.  
Morganfield,  
Kentucky 42437

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

Willchemco, Inc.  
National Bank of Tulsa Bldg.  
Tulsa, Oklahoma 74103

Williams Fertilizer Service  
Glasgow, Kentucky 42141

Winchester Sales, Inc.  
Box 723  
Winchester, Kentucky 40391

## COMPUTING COEFFICIENT OF VARIATION

The listing on pages 54 thru 63 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 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 32 such samples in the mixed fertilizer samples reported. As a basis for excluding these samples, the following rules were followed:

1. Throw out any samples more than 120% or less than 80% in relative value except:
  - a. The sample is within  $\pm 20\%$  of the average sample value.
  - b. The variation of all the sample values is such that the samples more than  $\pm 20\%$  appear to fit a normal distribution pattern.
2. Throw out individual samples whose ratio of ingredients differs strongly from the balance of samples of the grade. These may include samples:
  - a. Whose ratio strongly suggests an entirely different grade of fertilizer.
  - b. Two or more of whose ingredients are high or lower by 20% or more of the extreme values of the remaining normal samples.

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

AG. SUPPLY CO		HOPKINSVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
6-18- 6M	30557	6.5	19.2	6.1		106
6-18- 6M	31388	6.1	18.3	5.5*		101
AGRICU CHEMICAL COMPANY		MEMPHIS TENN				
GRADE	NUM	N	APA	POT	XS CL	RV
0-20- 0	30654	0.0	20.3	0.0		102
0-25-25M	30196	0.0	23.4*	23.7*		94*
4-16- 4S	30020	3.8	14.6*	5.2	*	95*
4-16- 4S	30197	4.1	16.5	4.7		104
5-10-10M	30219	5.4	10.3	10.2		104
5-10-15S	30269	5.1	10.2	15.4		102
5-10-15S	30435	5.1	10.4	15.5		103
5-10-15S	30567	5.0	10.2	15.1		101
5-10-15S W/ME	30195	5.3	10.5	14.6*		103
5-20-20M	30150	5.1	20.0	18.9*		99
5-20-20M	30263	4.9	20.2	19.5*		99
5-20-20M	30532	4.9	20.0	19.9		99
5-20-20M	31458	4.6*	20.8	20.0		100
6- 6-18S	30450	6.1	6.2	17.6		101
6- 6-18S	30663	6.4	6.0	18.2		102
6- 6-18S	31312	5.9	5.8	19.0		100
6-12-12M	30019	6.0	13.0	12.8		105
6-12-12M	30194	6.2	12.4	11.8		102
6-12-12M	30595	5.9	12.2	12.5		101
6-24-24M	30017	6.6	23.1*	21.7*		97*
6-24-24M	30262	6.1	25.0	22.8*		101
6-24-24M	31058	6.1	24.3	23.6		100
8- 8-18S	30451	8.0	8.4	18.1		101
10-10-10M	30018	9.6*	10.3	10.7		100
10-10-10M	30147	10.0	10.3	10.7		102
10-10-10M	30268	9.3*	10.4	10.7		99
10-10-10M	30616	10.1	10.5	10.5		103
10-10-10M	30846	10.4	10.4	11.0		105
10-10-10M	31459	10.2	10.8	11.1		105
10-10-20S	30662	10.4	10.8	20.0		104
10-10-20S W/ME	30452	10.3	10.9	19.9		103
12- 4- 8M W/ME	30569	12.6	4.1	7.8		104
16- 8- 8M	30136	16.4	8.1	8.3		102
16- 8- 8M	30149	16.0	8.8	8.7		103
16- 8- 8M	30190	16.2	8.1	8.2		101
16- 8- 8M	30453	14.2*	8.9	9.0		96*
16- 8- 8M	30533	16.2	8.4	8.5		102
T.R. AKRIDGE & SON		FREDONIA KY				
GRADE	NUM	N	APA	POT	XS CL	RV
6-27-13M	29760	7.6	27.5	10.5*		100
7-30-20M	31376	7.1*	30.9	21.1		100
9- 9- 9M	30440	10.1	10.5	9.5		110
9-27-24M	31375	9.1	26.3	23.4*		101
13-15-29M	30441	12.3*	15.0	32.3		98
18-16-21M	31374	17.8*	16.7	23.2		99
24-10-19M	31373	23.5*	10.2	21.5		100
A & L FARM SERVICE INC		LAWRENCEBURG KY				
GRADE	NUM	N	APA	POT	XS CL	RV
5-21-21M	31087	6.0	22.8	21.6		104
8- 6-16S	31090	8.2*	6.4	17.2		97*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

A & L FARM SERVICE INC		LAWRENCEBURG KY				
GRADE	NUM	N	APA	POT	XS CL	RV
13-13-13M	31089	11.8*	13.8	14.4		94*
14-14-14M	31086	13.7*	14.0*	17.7		98
22- 9- 9M	31088	21.9	10.0	9.5		101
ALLENSVILLE CROP SERVICE		ALLENSVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-25-25M	30822	0.0	27.0	26.1		107
5-23-23M w/ME	30817	5.6	27.8	20.9*		107
6-24-24M	30821	6.4	24.9	23.8		103
12-12-12M	30330	11.1*	11.5*	12.9		96*
12-12-12M	30332	10.5*	12.0	13.2		95*
ARCO CHEMICAL CO		FORT MADISON IOWA				
GRADE	NUM	N	APA	POT	XS CL	RV
6-24-24M	30443	7.1	24.5	26.7		108
6-24-24M	30556	7.0	24.2	24.0		104
12-12-12M	30442	12.0	12.0	12.8		101
ARKLA CHEMICAL CORP.		LITTLE ROCK ARK.				
GRADE	NUM	N	APA	POT	XS CL	RV
6-18-36M	31478	6.2	17.7	34.0*		98
6-24-24M	30284	6.8	24.9	24.2		105
6-24-24M	30555	6.6	26.8	23.3*		107
7-28-28M	31479	6.7	28.1	27.6		99
14-14-14M	30554	13.7	16.6	14.9		106
E M BAILEY DISTRIBUTING CO		BANDANA KY				
GRADE	NUM	N	APA	POT	XS CL	RV
20- 8- 8M	31284	21.8	6.7*	4.5*		99
20- 8- 8M	31476	20.2	7.5*	8.6		100
E M BAILEY DISTRIBUTING CO		MAYFIELD KY				
GRADE	NUM	N	APA	POT	XS CL	RV
20- 8- 8M	31480	18.7*	10.3	9.3		102
20-10-10M	31283	19.6	10.3	7.8*		97*
BALLARD COUNTY COOP		LA CENTER KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-21-21M	31075	8.2	20.4*	19.9*		104
BIG FOUR FEED & IMPLEMENT CO		SCOTTSVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-30-19M	31034	0.0	30.2	20.5		101
5-19-16M	31037	6.0	19.4	20.0		107
6-12-18M	31035	6.9	11.8	17.9		104
17-17-17M	31036	16.9	12.5*	21.3		95*
BLACK LEAF PRODUCTS CO		ELGIN ILL				
GRADE	NUM	N	APA	POT	XS CL	RV
12- 6- 6S w/ME	31494	12.2	6.3	6.6		103
BLUEGRASS PLANT FOODS, INC.		CYNTHIANA KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-60M	30505	0.0	0.0	59.6		99
0-20-20M	29961	0.0	16.0*	19.0*		85*
0-20-20M	30025	0.0	20.5	17.7*		98
0-20-30M	30692	0.0	20.9	29.6		102
2- 5- 8S	30691	3.6	5.8	10.3		112
4-16- 4S	30023	4.7	13.2*	4.2		93*
5-10-15S	29556	8.0	10.7	17.2	*	125
5-10-15S	30656	5.3	9.9	15.6		102
5-10-15S	31242	4.9	9.9	15.4		99

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

BLUEGRASS PLANT FOODS, INC.		CYNTHIANA		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
5-10-15S	31392	5.1	9.8	15.6				101
5-10-15S	31420	5.4	8.4*	14.7				95*
5-20-20M	29962	5.2	18.9*	17.4*				94*
5-20-20M	30026	6.1	18.7*	23.5				105
5-20-20M	30688	6.0	22.7	20.5				112
5-27-14M	30690	5.0	27.3	16.9				102
6- 6-18S	30655	5.9	6.3	16.1*				96*
6-12-12M	29960	5.9	12.0	13.6				102
6-12-12M	29963	5.9	10.6*	7.5*				86*
6-12-12M	30027	6.1	13.0	12.2				104
6-12-18S	30689	5.4*	12.2	17.1*				96*
8-10-15S	30504	7.5*	8.6*	15.2				93*
8-10-15S	30657	7.8	8.0*	15.5				93*
8-10-15S	31320	5.9*	8.0*	17.0				86*
8-10-15S	31321	5.9*	9.1*	17.4				90*
8-10-15S	31421	10.8	12.6	12.3*	*			118
10-10-10M	29964	10.1	10.7	8.0*				99
10-10-10M	30218	10.1	11.6	8.8*				104
10-10-10M	31243	9.2*	9.9	9.6*				95*
10-10-10M	31422	9.4*	7.3*	7.4*				84*
10-20-20S	30695	10.1	20.6	19.7				101
12-11-11M	31423	11.2*	10.6*	10.2*				91*
12-12-12M	31245	12.3	12.8	13.7				106
16-16-16M	31244	14.4*	13.0*	17.0				90*
22- 0-20M	30687	22.2	0.0	20.4				101
BLUEGRASS PLANT FOODS, INC.		DANVILLE		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-10-30M	30402	0.0	9.8	23.8*				87*
0-20- 0	30780	0.0	18.9*	0.0				95*
0-20-20M	30082	0.0	14.0*	20.6				81*
0-20-20M	30033	0.0	18.9*	17.4*				92*
0-20-20M	30084	0.0	16.0*	22.1				90*
0-20-20M	30085	0.0	19.5*	14.8*				90*
0-20-20M	30085	0.0	16.8*	17.2*				84*
0-20-20M	30276	0.0	21.2	18.3*				101
0-20-20M	30583	0.0	19.1*	19.2*				96*
0-20-20M	30834	0.0	18.8*	18.6*				93*
0-25-25M	30133	0.0	22.7*	23.9*				92*
0-25-25M	31208	0.0	20.9*	15.8*				77*
4-12- 8M	30449	4.0	12.1	6.0*				95*
4-12- 8M	30572	5.7	9.5*	10.3				105
4-12- 8M	30835	6.8	20.6	5.3*				152
4-16- 4S	30130	4.5	11.8*	4.3				86*
5-10-15S	29995	5.3	7.5*	13.4*				38*
5-10-15S	30131	5.1	9.9	14.7				100
5-10-15S	30248	5.5	10.2	14.4*				102
5-10-15S	30272	5.2	9.5*	14.7				98
5-10-15S	30273	5.2	9.5*	14.0*				97*
5-10-15S	30401	5.3	10.4	14.7	*			103
5-10-15S	30403	5.2	9.4*	14.3*				97*
5-10-15S	30477	4.7*	9.3*	14.5*				94*
5-10-15S	30478	5.3	12.9	14.7	*			113
5-10-15S	30484	5.8	9.9	14.9	*			104
5-10-15S	30703	4.1*	8.9*	15.6				91*
5-10-15S	30782	5.6	10.8	13.8*				104
5-10-15S	30833	5.0	7.8*	9.6*	*			80*
5-10-15S	31081	4.8	9.9	14.5*				97*



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

BLUEGRASS PLANT FOODS, INC.		DANVILLE		KY.		
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15S	31209	5.0	10.0	15.0		99
5-10-15S	31501	5.2	10.3	12.3*		96*
5-10-15S	31515	8.2	14.0	14.1*		133
5-20-20M	29598	4.0*	17.3*	18.4*		87*
5-20-20M	29753	3.1*	21.6	20.0		97*
5-20-20M	30087	5.8	18.6*	20.6		100
5-20-20M	30088	5.4	18.3*	16.6*		93*
5-20-20M	30134	5.1	18.4*	20.4		96*
5-20-20M	30241	5.3	18.7*	20.1		98
5-20-20M	30454	5.2	19.4*	19.0*		98
5-20-20M	30474	4.8	19.1*	19.9		96*
5-20-20M	30475	5.0	18.4*	20.1		96*
5-20-20M	30479	4.8	20.0	18.2*		97*
5-20-20M	30481	4.8	20.1	19.2*		99
5-20-20M	30499	5.0	20.3	21.6		103
5-20-20M	30589	4.7*	18.9*	19.4*		95*
5-20-20M	30696	4.9	19.0*	20.3		97*
5-20-20M	30704	5.6	20.5	17.9*		101
5-20-20M	30758	5.2	19.9	18.2*		98
5-20-20M	30832	5.7	17.6*	16.6*		92*
5-20-20M	30940	5.1	21.5	17.0*		100
5-20-20M	31082	4.9	22.5	13.5*		97*
5-20-20M	31514	2.8*	15.3*	21.5		81*
6- 6-18S	31191	6.4	6.5	16.6*		101
6- 6-18S	31196	5.5*	5.9	17.4*		95*
6- 6-18S	31197	7.5	8.2	16.5*		115
6-12-12M	30089	5.8	11.4*	9.0*		91*
6-12-12M	30090	6.2	12.6	10.1*		99
6-12-12M	30091	6.1	12.5	10.0*		98
6-12-12M	30092	6.2	13.1	10.5*		102
6-12-12M	30132	5.8	10.8*	12.5		95*
6-12-12M	30148	5.6*	8.9*	10.6*		83*
6-12-12M	30274	5.9	10.8*	11.5*		94*
6-12-12M	30400	5.9	11.4*	11.5*		96*
6-12-12M	30457	5.8	11.3*	11.5*		95*
6-12-12M	30476	6.0	10.8*	11.4*		94*
6-12-12M	30483	6.0	11.2*	11.7		96*
6-12-12M	30496	5.9	11.5*	12.5		99
6-12-12M	30584	5.7*	11.9	13.0		100
6-12-12M	30757	5.6*	11.5*	12.7		97*
6-12-12M	30779	5.8	11.4*	12.3		97*
6-12-12M	30781	5.5*	11.5*	12.4		96*
6-12-12M	30783	5.3*	10.5*	12.6		91*
6-12-12M	30974	6.7	11.9	11.8		103
6-12-18S	30447	5.2*	10.2*	20.4		94*
8- 8-13S	31193	8.3	8.4	7.4*		90*
8-10-15S	31195	7.9	9.8	15.2	*	99
10-10-10M	29754	8.8*	11.6	11.8		102
10-10-10M	29865	10.4	12.1	8.2*		106
10-10-10M	30024	10.3	10.3	10.6		103
10-10-10M	30247	9.0*	9.7*	9.7		93*
10-10-10M	30250	9.8	10.1	10.3		100
10-10-10M	30275	9.7*	10.2	10.5		100
10-10-10M	30448	10.7	11.2	8.3*		104
10-10-10M	30482	9.6*	9.6*	9.9		96*
10-10-10M	30831	10.0	10.2	10.3		101
10-10-10M	30973	8.9*	10.7	10.9		98

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

BLUEGRASS PLANT FOODS, INC.		DANVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10M	31192	12.4	12.3	6.9*			114
10-10-10M	31210	7.3*	7.9*	15.4			88*
10-10-10M	31441	9.9	10.9	13.5			108
10-10-10M	31442	12.7	13.6	10.5			126
10-10-15S	31194	7.1*	6.9*	19.6			84*
12-12-12M	31294	10.0*	12.0	13.6			94*
13- 9-24M	30975	12.3*	9.0	27.6			100
16-16-16M	30446	14.8*	18.7	14.2*			100
16-16-16M	31540	15.4*	15.5*	13.3*			94*
25- 0-13M	30976	21.3*	0.0	21.8			95*
BLUEGRASS PLANT FOODS INC		PARIS		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	30674	5.7	8.0*	13.1*			92*
6-12-18S	30670	6.2	12.0	16.4*			98
8- 6-18S	30673	7.9	6.0	18.1			99
8-10-15S	30672	7.6*	10.0	15.8			99
10-10-10M	30671	9.6*	7.5*	11.2			92*
BURLEY BELT FERTILIZER CO.		LEXINGTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	30066	0.0	20.4	17.9*			98
4-16- 4S	30061	4.1	15.2*	4.3			98
4-16- 4S	30217	4.9	15.4*	5.1			105
5-10-10M	30771	5.5	10.0	7.9*			99
5-10-15S	30064	5.2	9.9	15.2			101
5-10-15S	30175	5.3	9.6*	15.3			101
5-10-15S	30178	4.9	9.8	15.0			98
5-10-15S	30683	5.5	10.7	15.2			106
5-10-15S	31188	5.1	10.0	15.2			101
5-10-15S	31413	4.7*	9.3*	14.5*			94*
5-10-15S	31413	4.7*	9.3*	14.5*			95*
5-20-20M	29710	5.3	18.2*	19.3*			97*
5-20-20M	30067	5.0	19.3*	19.4*			100
5-20-20M	30179	6.0	19.3*	18.9*			100
5-20-20M	30685	4.9	19.8	20.4			100
6- 6-18S	31225	5.3*	6.4	16.9*			95*
6- 6-18S	31226	5.6*	6.2	16.9*			96*
6- 6-18S	31227	5.5*	6.5	17.4*			98
6-12-12M	30188	5.9	11.2*	11.8			96*
6-12-12M	30682	6.2	11.9	12.9			103
6-12-18S	30772	5.9	12.1	18.2			100
6-12-18S	30177	6.1	11.6*	18.0			99
6-12-18S	w/ME 30410	5.9	12.1	17.4*			99
8-10-15S	30062	8.5	9.9	14.4*			101
8-10-15S	30068	7.9	9.3*	15.3			98
8-10-15S	30684	8.3	9.9	15.7			102
10-10-10M	29626	9.9	9.8	10.3			99
10-10-10M	29627	10.0	9.5*	10.0			98
10-10-10M	29684	9.3*	10.6	9.9			98
10-10-10M	29709	9.7	10.7	10.5			101
10-10-10M	29939	9.6*	10.0	11.3			100
10-10-10M	30063	10.1	10.4	9.6*			101
10-10-10M	30176	9.6*	10.1	9.4*			97*
10-10-10M	30180	9.7	10.0	10.2			99
10-10-10M	30404	9.4*	9.9	9.9			96*
10-10-10M	30681	10.4	7.9*	10.7			96*
10-10-10M	30776	10.1	9.4*	8.7*			96*
10-10-10M	31415	9.7	10.1	9.0*			97*
10-10-10M	31496	9.5*	9.9	9.6*			96*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

BURLEY BELT FERTILIZER CO.		LEXINGTON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
10-10-20S	31414	9.3*	9.0*	19.6	*	93*	
12-12-12M	29938	12.0	11.4*	12.2		98	
12-12-12M	30181	12.3	12.1	12.7		102	
12-12-12M	30189	12.0	11.9	12.1		100	
12-12-12M	30405	11.7	12.0	11.8		98	
13-10-14M	30686	14.1	10.6	14.4*		102	
28-28- 0	29681	25.1*	32.1	0.0		100	
BURLEY BELT CHEMICAL CO.		LONDON		KY.			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20-20M	29932	0.0	20.0	20.0		100	
0-20-20M	30222	0.0	20.2	19.1*		99	
0-20-20M	30636	0.0	20.3	19.3*		100	
0-20-20M	30721	0.0	19.7	19.1*		97*	
0-20-20M	31434	0.0	19.8	20.3		100	
0-20-20M W/ME	29934	0.0	20.2	17.5*		96*	
3- 9- 6M	29936	3.3	9.1	7.3		106	
3- 9- 6M	30667	3.0	7.8*	6.0		93*	
3- 9- 6M	30862	3.4	9.0	7.4		107	
3- 9- 6M	30863	2.8	7.0*	6.0		86*	
4-12- 8M	29933	3.9	11.3*	9.2		99	
4-12- 8M	30138	4.1	11.2*	8.1		97*	
4-12- 8M	30635	4.2	11.4*	8.7		100	
4-12- 8M	30855	3.9	10.7*	8.8		95*	
4-16- 4S	30151	7.1	13.6*	7.8		117	
5-10- 5M	30338	5.6	10.2	6.8		109	
5-10- 5M	30719	5.7	10.9	12.0		127	
5-10- 5M	31268	7.7	10.9	11.3		140	
5-10-10M	29931	4.6*	8.7*	9.9		91*	
5-10-10M	30640	4.8	10.4	10.0		100	
5-10-10M	31269	4.7	9.0*	9.7		93*	
5-10-10M	31432	4.6*	8.8*	10.1		92*	
5-10-15S	29885	5.1	9.9	15.0		100	
5-10-15S	29927	5.2	10.0	14.9		101	
5-10-15S	29935	4.9	9.9	15.1		99	
5-10-15S	29969	5.1	10.1	15.3		102	
5-10-15S	30239	5.1	9.5*	14.6		97*	
5-10-15S	30637	5.7	10.5	14.5*		105	
5-10-15S	30856	5.2	9.9	14.7		100	
5-10-15S	31425	4.9	10.0	15.0		99	
5-10-15S	31433	4.7*	9.8	15.4		98	
5-20-20M	29620	5.2	18.1*	21.1		97*	
5-20-20M	29644	4.5*	18.9*	20.3		95*	
5-20-20M	29811	4.6*	16.8*	20.5		91*	
5-20-20M	29884	4.8	19.0*	20.2		97*	
5-20-20M	29926	4.7*	19.3*	19.9		97*	
5-20-20M	29937	4.9	19.9	19.9		99	
5-20-20M	30093	5.1	18.1*	20.3		96*	
5-20-20M	30237	5.0	17.9*	21.0		96*	
5-20-20M	30468	5.2	18.3*	19.6		96*	
5-20-20M	30639	5.2	18.6*	20.2		97*	
5-20-20M	30720	4.9	18.4*	20.2		96*	
5-20-20M	30843	4.4*	19.0*	20.5		95*	
5-20-20M	30854	4.4*	20.0	19.9		98	
5-20-20M	31078	4.9	18.9*	19.7		96*	
6-12-12M	29930	5.9	12.1	12.6		101	
6-12-12M	30221	5.8	11.1*	12.2		96*	
6-12-12M	30238	6.1	11.9	12.8		101	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

BURLEY BELT CHEMICAL CO.		LONDON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-12M	31256	5.4*	11.1*	11.6*			92*
6-12-12M	31266	6.4	11.5*	11.5*			99
6-12-18S W/ME	29967	5.7	11.4*	18.4			97*
6-12-18S W/ME	30700	6.0	12.0	18.2			100
9-10-15S	29929	8.9	10.0	14.4*	*		98
10-10-10M	29645	9.7	10.2	10.3			100
10-10-10M	29779	9.9	10.2	11.1			102
10-10-10M	29812	9.5*	10.3	11.8			101
10-10-10M	29968	9.9	10.1	9.6*			99
10-10-10M	30094	10.5	9.7*	9.4*			100
10-10-10M	30638	10.0	9.4*	9.9			98
10-10-10M	30853	9.6*	10.0	9.6*			97*
10-10-10M	31424	10.0	10.0	9.1*			98
10-10-10M	31435	9.8	10.1	9.6*			98
10-20-20M	29778	9.7	21.1	19.9			101
12-12-12M	29928	12.0	12.2	12.2			101
12-12-12M	30220	10.9*	12.0	11.8			95*
12-12-12M	30470	11.3*	12.0	12.0			97*
12-12-12M	30641	11.4*	12.4	12.3			99
12-12-12M	30842	11.8	12.0	11.9			99
12-12-12M	31257	11.3*	12.4	11.7*			98
12-12-12M	31267	10.6*	12.9	11.4*			96*
15-15-15M	30469	14.2*	15.3	15.0			98
15-15-15M	30701	14.8	15.5	15.1			100
BURLEY BELT CHEMICAL CO.		FERGUSON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	29815	0.0	19.4*	20.8			99
0-20-20M	30394	0.0	20.0	19.7			99
0-20-20M	30587	0.0	19.2*	18.4*			95*
5-10-15S	29944	5.0	9.4*	14.6*			97*
5-10-15S	31464	4.4*	9.3*	14.3*			92*
5-20-20M	29592	5.4	18.2*	19.3*			96*
5-20-20M	30044	4.9	18.9*	19.9			96*
5-20-20M	30393	5.0	18.4*	19.9			96*
5-20-20M	30586	5.2	19.2*	18.7*			97*
6-12-12M	29958	5.7	11.9	12.1			98
6-12-12M	30391	6.0	11.7	11.5*			98
6-12-12M	30850	5.8	10.8*	13.0			96*
6-12-12M	31463	5.1*	11.3*	12.7			94*
6-12-12M	31465	5.5*	11.3*	12.0			94*
6-12-18S W/ME	30043	5.9	11.5*	17.9			97*
10-10-10M	29883	9.4*	9.9	10.6			98
10-10-10M	30045	9.8	9.5*	10.3			98
10-10-10M	30588	9.6*	9.7*	9.6*			96*
10-10-10M	31211	9.6*	9.5*	11.0			98
10-10-10M	31456	9.4*	9.8	10.2			97*
10-10-10M	31462	10.0	9.8	10.5			100
10-20-20M	30392	9.5*	20.2	19.7			98
15-15-15M	29943	14.0*	13.3*	15.6			93*
15-15-15M	31212	14.7	14.1*	15.1			97*
CAMPBELLSVILLE CROP SERVICE		CAMPBELLSVILLE KY.		XS CL	RV		
GRADE	NUM	N	APA			POT	
6-26-25M	30965	5.5*	21.7*	32.4			94*
6-26-26M	31338	6.4	22.2*	29.8			96*
10- 9-14S	31337	11.8	9.7	14.8	*		104
10-10-15S	30960	10.3	10.1	15.8			101
10-30-20M	30201	8.8*	25.7*	27.0			94*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

CAMPBELLSVILLE CRUP SERVICE		CAMPBELLSVILLKY.				
GRADE	NUM	N	APA	POT	XS CL	RV
11- 9-14S	30964	11.4	9.6	14.8		100
12-16- 8M	30961	13.6	14.7*	9.2		101
17-17-17M	30962	16.9*	15.4*	21.4		97*
17-17-17M	30963	17.7	16.4*	19.3		99
17-17-17M	31336	18.2	15.1*	18.0		97*
20-10-10M	31339	21.2	10.3	10.6		103
CAUDILL SEED CO		SHELBYVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
9- 9- 9M	31411	11.2	9.2*	8.2*		101
10-10-16S	30270	8.1*	9.1*	19.4	*	94*
11-29-19M	30995	11.1*	27.9*	22.7		98
15- 8-12M W/ME	30996	12.9*	14.3	11.9		108
15-15-15M	30271	14.9	15.0	15.5		100
19-11-15M	31410	20.3	10.6*	15.1		101
CF INDUSTRIES INC		CHICAGO ILL.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-46- 0	29871	0.0	46.9	0.0		102
CHEVRON CHEMICAL CO-ORTHO DIV		RICHMOND CAL.				
GRADE	NUM	N	APA	POT	XS CL	RV
10-20-20M	30265	10.9	20.3	19.2*		103
12- 6- 6S	31389	12.4	6.1	6.7		104
16-16-16M	29984	16.3	16.9	15.9		103
16-16-16M	29985	16.1	16.2	16.3		101
16-16-16M	30264	16.3	16.0	16.0		102
16-16-16M	30286	16.3	16.0	16.6		102
20-10-10M	30285	20.6	10.5	10.4		104
22- 4- 4M	30651	22.3	4.4	4.1		102
CHRISTIAN COUNTY SUPPLY CO.		HOPKINSVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
10-10-10M	30917	9.9	9.0*	11.6		99
12-12-18S	30918	14.2	12.4	17.5*	*	109
18-10-10M	30916	16.1*	7.8*	9.9		88*
CLINE FERTILZER COMPANY		EWING VA.2				
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-10M	30857	6.1	12.0	12.3		121
5-10-10M	31265	4.4*	9.2*	10.1		93*
6-12-12M	31264	7.1	15.1	11.6*		116
12-12-12M	31263	11.2*	23.3	10.2*		125
COMINCO AMERICAN INC		SPOKANE WASH				
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-50M	29980	0.0	0.0	60.4		101
COMMERCIAL SOLVENTS CORP.		NEW YORK N.Y.				
GRADE	NUM	N	APA	POT	XS CL	RV
33- 0- 0	29931	33.4	0.0	0.0		100
33- 0- 0	31539	33.5	0.0	0.0		100
CRAFTON & DUNCAN INC		HENDERSON KY				
GRADE	NUM	N	APA	POT	XS CL	RV
3-11-19M	31169	3.7	9.6*	20.8		93*
4-14- 9M	31167	5.0	14.4	10.1		99
17- 7-12M	29757	17.5	7.4	12.7		100
17- 7-12M	29819	17.5	6.8*	13.9		100
ELANCO PRODUCTS COMPANY		INDIANAPOLIS IND.				
GRADE	NUM	N	APA	POT	XS CL	RV
10-13-10M	29615	10.5	19.3	12.0		108
24- 6- 6M	30431	24.0	7.2	6.7		106

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

ELKTON CROP SERVICE		GUTHRIE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	30934	0.0	24.3	26.5		125
5-20-20M	31380	5.8	22.1	25.6		116
6-34-15M	31381	4.5*	32.3*	17.9		92*
11-15-20M	30933	9.5*	17.8	21.2		102
E-Z-FLO CHEMICAL CO		COLUMBUS			OHIO	
GRADE	NUM	N	APA	POT	XS CL	RV
6-18-6M	31386	6.5	17.9	6.0		102
FARMERS CHEMICAL ASSOC., INC.		HARRISON			TENN.	
GRADE	NUM	N	APA	POT	XS CL	RV
16-16-16M	29654	15.8	15.5*	15.4*		97*
16-16-16M	29711	16.6	15.9	15.9		101
16-16-16M	29743	15.9	16.0	15.9		99
16-16-16M	29747	16.8	16.1	13.9*		100
16-16-16M	29780	15.6*	15.9	17.0		99
16-16-16M	29795	15.2*	15.2*	17.4		97*
16-16-16M	29805	16.2	16.0	16.3		101
16-16-16M	29824	16.3	16.4	14.5*		100
16-16-16M	29825	16.7	16.4	14.5*		101
16-16-16M	29826	15.9	15.9	15.4*		99
16-16-16M	29827	16.5	15.9	14.8*		100
16-16-16M	29828	17.1	17.6	12.7*		103
16-16-16M	29829	17.1	17.5	13.2*		104
16-16-16M	29830	15.7	15.9	16.8		99
16-16-16M	29832	15.9	16.0	16.2		100
16-16-16M	29834	16.8	14.1*	16.3		99
16-16-16M	29841	17.3	13.3*	16.1		98
16-16-16M	29847	16.7	15.3*	15.3*		100
16-16-16M	29848	16.0	17.0	14.5*		100
16-16-16M	29853	15.5*	15.5*	16.7		98
16-16-16M	29864	16.1	15.9	16.2		100
16-16-16M	29878	16.1	16.8	15.2*		101
16-16-16M	29899	15.9	15.5*	16.0		99
16-16-16M	29910	15.7	15.9	16.6		99
16-16-16M	29914	15.7	15.8	15.9		98
16-16-16M	29947	15.9	16.0	15.9		99
16-16-16M	29953	16.1	16.6	14.9*		100
16-16-16M	29955	15.9	16.4	16.0		100
16-16-16M	29956	16.0	16.6	15.9		101
16-16-16M	29971	15.5*	15.9	15.9		98
16-16-16M	29975	15.1*	16.2	15.9		97*
16-16-16M	30004	16.3	15.9	15.3*		100
16-16-16M	30021	15.9	16.2	16.0		100
16-16-16M	30052	16.5	16.3	15.3*		101
16-16-16M	30121	16.4	16.1	15.9		101
16-16-16M	30141	15.9	16.4	15.9		100
16-16-16M	30231	16.3	16.3	15.4*		101
16-16-16M	30240	16.6	16.0	15.6		101
16-16-16M	30540	16.8	16.3	15.5*		102
16-16-16M	30565	16.1	16.9	15.9		102
16-16-16M	30762	16.0	16.7	15.6*		101
16-16-16M	31502	16.3	15.8	15.8		100
30-0-0	30978	30.2	0.0	0.0		101
34-0-0	30003	33.8*	0.0	0.0		98
FARMERS FERTILIZER COMPANY		SMITHS GROVE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
4-18-18M	30335	4.9	18.8	20.9		106
15-15-15M	30897	16.1	16.8	12.3*		105

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**

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

FARMERS FERTILIZER COMPANY		SMITHS GROVE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
20-20-0	30334	19.9	20.7	0.0		101
FARMERS GIN COMPANY		CLINTON KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
9-23-30M	31288	9.2	20.2*	32.3		97*
FARMERS SUPPLY & PRODUCE CO.		MONTICELLO KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-25-25M	30140	0.0	27.5	23.0*		102
5-21-21M	30142	6.5	19.5*	25.1		102
FARMLAND INDUSTRIES INC.		KANSAS CITY MO.				
GRADE	NUM	N	APA	POT	XS CL	RV
6-24-24M	29983	6.5	24.6	23.9		103
6-24-24M	29986	5.9	24.1	24.3		100
FEDERAL CHEMICAL COMPANY		HUMBOLDT TENN.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	30214	5.4	17.7*	19.1*		94*
6-24-24M	30650	6.6	23.7	23.5*		101
10-10-15S w/ME	30927	10.0	10.7	15.2		103
15-15-15M	30213	14.1*	13.5*	15.5		94*
FEDERAL CHEMICAL COMPANY		LOUISVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-25-25M	30456	0.0	21.8*	26.0		93*
0-25-25M	30608	0.0	21.9*	26.0		93*
0-25-25M	31460	0.0	20.7*	24.0*		87*
4-16-4S w/ME	30013	4.2	15.9	6.0		105
5-10-15M	31011	5.7	10.0	12.6*		99
5-10-15S	29892	5.1	10.9	15.1		105
5-10-15S	29905	6.6	11.1	15.0		114
5-10-15S	30011	5.3	9.9	15.3		102
5-10-15S	30230	5.6	10.1	15.8		105
5-10-15S	30530	4.9	10.1	14.9		99
5-10-15S	30615	5.1	10.0	15.8		102
5-10-15S	30625	5.5	9.8	16.6		106
5-10-15S	30735	5.4	9.9	15.0		102
5-10-15S	30736	6.3	10.0	13.0*	*	104
5-10-15S	30770	4.5*	11.6	14.8	*	103
5-10-15S	30789	5.0	9.9	17.1	*	104
5-10-15S	31102	3.9*	8.7*	16.9		92*
5-10-15S	31180	4.9	10.8	15.9*	*	100
5-10-15S	31461	4.9	10.2	14.9	*	99
5-15-30M	30935	5.0	15.3	30.1		101
5-20-20M	29564	4.5*	17.1*	21.2		92*
5-20-20M	29571	4.9	19.2*	20.0		97*
5-20-20M	29613	4.9	19.8	17.9*		96*
5-20-20M	29669	4.4*	20.9	19.0*		99
5-20-20M	29730	5.5	22.1	16.0*		102
5-20-20M	29880	5.3	21.2	18.1*		102
5-20-20M	29883	5.4	19.2*	17.2*		96*
5-20-20M	29894	5.4	19.2*	19.1*		98
5-20-20M	30154	7.9	15.1*	14.0*		90*
5-20-20M	30418	5.1	19.7	19.2*		99
5-20-20M	30502	5.1	16.8*	18.0*		89*
5-20-20M	30576	5.5	17.6*	20.9		97*
5-20-20M	30580	7.9	14.5*	14.5*		89*
5-20-20M	30581	7.8	14.9*	14.9*		91*
5-20-20M	30596	5.3	20.1	19.1*		100
5-20-20M	30597	5.7	19.6	18.1*		99
5-20-20M	30607	5.3	17.8*	22.3		98

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

FEDERAL CHEMICAL COMPANY		LOUISVILLE			KY.		
GRADE	NUM	N	APA	PCT	XS CL	RV	
5-20-20M	30614	4.9	18.8*	20.9		98	
5-20-20M	30618	5.7	22.6	16.9*		106	
5-20-20M	30634	5.6	18.1*	18.8*		96*	
5-20-20M	30733	5.7	19.8	18.7*		101	
5-20-20M	30767	5.6	18.4*	20.0		98	
5-20-20M	30795	5.0	17.7*	18.9*		92*	
5-20-20M	30848	5.7	19.9	19.0*		101	
5-20-20M	30849	5.7	20.0	18.8*		101	
5-20-20M	30898	4.9	19.9	19.3*		98	
5-20-20M	31064	5.2	19.2*	21.7		101	
5-25-15M w/ME	30226	5.8	25.2	13.8*		102	
6-12-12M	29565	6.0	12.1	11.4*		99	
6-12-12M	29729	6.2	12.8	12.0		104	
6-12-12M	29959	5.8	12.1	11.6*		98	
6-12-12M	30211	6.4	11.3*	13.7		103	
6-12-12M	30229	6.2	12.2	12.3		103	
6-12-12M	30531	5.9	12.3	12.2		101	
6-12-12M	30582	5.1*	13.5	13.0		102	
6-12-12M	30593	6.2	12.0	12.3		101	
6-12-12M	30732	7.0	12.9	14.0		112	
6-12-12M	30766	7.0	11.5*	12.6		105	
6-12-12M	30796	7.7	11.3*	11.7		106	
6-12-12M	30847	6.7	11.9	12.8		105	
6-24-24M	30010	6.0	24.2	24.0		100	
6-24-24M	30153	6.9	23.3*	20.4*		97*	
6-24-24M	30227	6.1	24.2	23.0*		99	
6-24-24M	30624	6.4	21.5*	22.1*		94*	
6-24-24M	30737	6.2	22.0*	23.9		96*	
6-24-24M	31103	6.3	20.7*	26.4		96*	
9-10-15S	30605	8.6*	11.5	14.9	*	103	
9-10-15S	30633	16.1	10.8	16.0		136	
9-10-15S	30845	9.4	9.9	15.9	*	103	
9-10-15S	31430	7.7*	11.5	14.7		98	
10-10-10M	29563	9.4*	9.6*	12.0		99	
10-10-10M	29601	10.0	10.3	10.3		101	
10-10-10M	29514	8.0*	13.8	12.5		107	
10-10-10M	29616	8.7*	11.2	11.7		100	
10-10-10M	29621	10.5	9.4*	10.1		100	
10-10-10M	29643	9.4*	10.9	10.9		101	
10-10-10M	29833	9.0*	12.7	12.0		107	
10-10-10M	29893	10.0	9.9	11.8		102	
10-10-10M	29906	9.9	11.1	11.4		105	
10-10-10M	30012	10.1	9.9	10.2		100	
10-10-10M	30228	10.0	10.0	10.4		100	
10-10-10M	30259	9.8	11.3	11.1		105	
10-10-10M	30419	8.9*	11.4	10.6		100	
10-10-10M	30455	9.7*	10.7	10.2		101	
10-10-10M	30577	9.6*	10.4	11.2		101	
10-10-10M	30768	10.2	10.2	12.3		105	
10-10-10M	30788	9.9	10.2	10.7		101	
10-10-10M	30986	10.0	10.8	12.1		106	
10-10-10M	31431	8.7*	10.3	11.0		96*	
10-10-15S w/ME	30014	9.7*	10.2	16.3		101	
10-10-15S w/ME	30225	9.7	11.1	15.7	*	103	
10-10-15S w/ME	30578	9.8	10.6	14.8	*	100	
10-10-15S w/ME	30609	9.0*	11.0	16.4	*	100	
10-10-15S w/ME	31012	9.9	10.9	15.3	*	103	



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

FEDERAL CHEMICAL COMPANY		LOUISVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
10-10-15S W/ME	31095	9.7	10.4	15.9	*	101	
12-12-12M	30187	11.7	12.0	14.4		102	
12-12-12M	30606	12.3	12.0	12.3		102	
12-12-12M	30613	11.8	12.1	13.3		101	
12-12-12M	30734	12.0	12.7	11.5*		101	
12-12-12M	30769	11.9	12.3	12.1		100	
12-12-12M	31094	11.3*	12.1	14.5		101	
12-12-12M	31255	9.6*	12.5	13.9		94*	
13-13-13M	29957	11.4*	12.0*	14.2		93*	
13-13-13M	30547	12.9	12.9	12.9		99	
13-13-13M	30579	12.7	13.0	13.2		99	
15-15-15M	30212	14.9	14.3*	15.4		99	
20-10-5M	31207	19.8	9.8	5.6		100	
FEDERAL CHEMICAL COMPANY		NASHVILLE			TENN		
GRADE	NUM	N	APA	POT	XS CL	RV	
5-10-15S	29911	5.4	11.6	14.9	*	109	
5-10-15S	30081	4.9	9.9	14.9		98	
5-10-15S	30203	5.2	9.6*	15.4		100	
5-20-20M	29576	4.6*	17.2*	22.0		104*	
5-20-20M	29726	4.9	20.2	19.0*		99	
5-20-20M	29912	5.9	18.5*	16.7*		95*	
5-20-20M	30206	5.2	19.9	19.8		100	
5-20-20M	31273	4.9	17.9*	21.0		95*	
5-20-20M	31517	5.3	20.0	18.3*		99	
6-12-12M	30205	6.3	12.0	12.4		103	
6-12-12M	30363	6.0	11.9	12.6		100	
6-24-24M	29821	6.0	24.6	23.9		101	
6-24-24M	30365	5.9	23.9	23.3*		98	
10-10-10M	29574	8.4*	14.3	13.8		113	
10-10-10M	29913	9.9	12.4	9.3*		106	
10-10-10M	30202	9.9	10.4	10.4		101	
10-10-10M	30364	9.7	9.9	10.0		98	
10-10-10M	30306	10.4	10.0	10.5		103	
10-10-15S W/ME	30362	9.6*	11.0	15.7		102	
10-10-15S W/ME	30511	9.6*	10.9	15.6		102	
15-15-15M	29725	14.3*	14.4*	14.9		96*	
15-15-15M	29849	11.2*	12.9*	13.9*		81*	
15-15-15M	30204	15.0	13.9*	15.3		98	
15-15-15M	30807	15.2	14.9	13.5*		98	
15-15-15M	30895	15.4	14.2*	14.7		99	
33-0-0	29575	34.2	0.0	0.0		102	
FRANKLIN CROP SERVICE		FRANKLIN			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
0-46-0	30534	0.0	45.2*	0.0		98	
15-16-16M	30558	21.4	11.9*	11.3*		106	
25-24-0	30537	26.8	17.7*	0.0		93*	
FRASIER SUPPLY CO.		GLASGOW			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
5-10-15S W/ME	30312	5.2	10.4	14.7		102	
5-20-20M	29585	4.9	18.3*	19.9		95*	
5-20-20M	29690	5.3	21.0	19.9		104	
5-20-20M	30311	4.3*	20.9	20.3		100	
6-12-12M	29584	6.5	13.6	11.9		109	
6-12-12M	29688	5.8	13.8	12.2		112	
6-12-12M	30037	6.4	13.2	11.9		107	
6-12-18S W/ME	30308	6.1	12.0	18.3		101	
7-25-9M	30728	6.9*	22.6*	14.2		96*	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

FRASIER SUPPLY CO.		GLASGOW		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
8-32-16M	31128	7.7	29.0*	21.3			98
10-10-7S	31127	11.7	8.5*	8.1			101
10-10-10M	29586	9.9	11.9	10.0			106
10-10-10M	29689	10.5	10.8	10.3			106
10-10-10M	30038	10.0	10.0	10.9			102
10-10-10M	30309	9.7	9.9	10.0			98
10-10-10M	30500	8.8*	9.3*	9.9			91*
10-10-10M	30727	10.3	10.4	9.0*			101
10-10-10M	31125	10.1	10.1	11.5			103
12-24-24M	30310	10.2*	20.1*	30.1			93*
12-24-24M	30562	13.5	28.2	19.0*			107
15-15-15M	31104	14.6	15.2	16.0			100
16- 6- 6M	30729	15.2*	7.7	9.0			101
17- 5- 8M	31126	17.9	5.4	9.1			102
20-20- 0	29979	20.2	20.0	0.0			101
GENES AG SUPPLY		STURGIS		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-10M	31360	5.2	10.0	10.3			102
5-15-25M	29661	5.7	15.0	26.4			105
5-15-30M	29742	5.4	13.8*	31.3			100
9-12-12M	29659	10.6	12.3	20.3			122
12- 8-16M	31053	11.6*	8.8	17.0			102
12-12-12M	29658	12.5	11.4*	14.1			103
15-10-10M	29657	15.0	10.2	11.8			103
20- 8- 8M	31359	19.4*	8.2	9.7			100
GLASGOW FERTILIZER CO.		GLASGOW		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	30381	0.0	21.0	17.6*			99
0-20-20M	30384	0.0	20.3	20.0			101
0-20-20M	30745	0.0	20.8	18.9*			101
5-10-15S	30297	5.7	10.1	15.3			105
5-10-15S	30298	5.8	9.4*	15.5			103
5-10-15S	30387	4.9	11.3	15.6			106
5-10-15S	30388	5.6	10.1	15.4			104
5-10-15S	31069	4.3*	10.2	14.3*			95*
5-10-15S	31316	5.3	10.7	14.7			104
5-10-15S	31317	6.0	11.5	13.7*			109
5-10-15S	31491	5.6	10.1	15.7			105
5-10-15S	30039	5.3	9.2*	15.9			100
5-10-15S	31072	5.3	10.0	16.8			105
5-10-15S	31492	4.5*	10.1	15.9			99
5-20-20M	29578	5.7	21.8	20.1			108
5-20-20M	29735	6.3	19.1*	19.9			103
5-20-20M	30207	4.0*	19.4*	18.9*			95*
5-20-20M	30295	6.1	19.3*	19.0*			101
5-20-20M	30380	4.4*	18.6*	21.8			96*
5-20-20M	30383	6.0	19.5*	18.4*			100
5-20-20M	30747	6.0	18.3*	19.3*			98
5-20-20M	31315	4.9	19.7	20.8			100
6-12-12M	30301	6.8	11.1*	11.8			101
6-12-12M	30389	6.6	11.6*	11.9			101
6-12-12M	31071	6.9	11.1*	11.9			101
6-24-24M	29670	8.2	30.1	19.4*			116
6-24-24M	29705	9.0	30.8	17.5*			118
6-24-24M	29804	7.7	29.2	22.7*			116
8-26-26M	30296	8.2	26.4	25.9			101
8-26-26M	31490	8.1	26.9	25.1*			101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

GLASGOW FERTILIZER CO.		GLASGOW			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
8-32-16M	30302	8.3	32.1	16.3		101
8-32-16M	30896	7.4*	31.1*	18.1		98
9- 8-12M	31048	8.0*	8.7	14.6		96*
9- 8-12S	31049	10.5	9.0	13.1		107
10-10-10M	29579	10.4	9.5*	11.0		102
10-10-10M	29990	10.0	10.0	9.9		99
10-10-10M	30300	10.3	9.5*	11.3		102
10-10-10M	30379	9.8	10.3	10.2		100
10-10-10M	30385	10.3	9.9	9.7*		100
10-10-10M	31050	7.9*	9.9	11.7		92*
10-10-10M	31070	9.8	9.9	10.2		99
10-10-10M	31314	10.1	11.0	9.5*		103
10-15-15S	30293	10.4	15.1	15.3		102
12-24-24M	30208	13.6	28.6	18.6*		108
12-24-24M	30292	11.6*	23.4*	25.5		99
12-24-24M	30294	13.9	27.8	18.5*		107
12-24-24M	30382	11.8	24.2	24.1		100
12-24-24M	30746	12.8	26.3	21.2*		104
15-15-15M	30209	13.7*	15.1	17.0		98
15-15-15M	30299	14.8	16.3	15.1		102
15-15-15M	30378	16.1	15.8	13.2*		103
15-15-15M	30386	15.3	16.3	15.6		105
15-15-15M	31313	15.0	15.4	14.3*		100
16- 8- 8M	29591	14.9*	11.2	9.4		106
16- 8- 8M	29672	17.6	10.3	4.7*		108
16- 8- 8M	29776	18.0	9.8	7.2*		112
16- 8- 8M	29803	16.1	8.2	9.1		102
W R GRACE & CO-AGR PROD DIV		CADIZ			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
7-21- 7M	30921	7.4	21.7	7.2		104
15-10- 6M	30920	16.6	9.9	6.7		105
W R GRACE & CO AGRI PROD DIV		EKRON			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
10-10-10M	31119	8.8*	6.8*	13.6		89*
10-10-10M	31120	8.0*	8.5*	11.8		87*
W R GRACE & CO-AGR PROD DIV		GUTHRIE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-15-25M	31383	4.6*	14.4*	26.2		98
6-18-18M	29785	8.1	13.1*	14.1*		90*
9-27- 0	29766	8.9	24.3*	0.0		93*
13-10- 6M	30233	14.0	9.3*	6.5		101
W R GRACE & CO AGRI CHEM GROUP		MAYFIELD			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
9-10-15S	31472	9.1	10.5	16.0	*	103
15-11-11M	30925	16.5	9.6*	10.4*		100
W R GRACE & CO-AGR PROD DIV		HOPKINSVILLE			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
3-11-19M	31475	3.6	11.5	19.9		99
4-12-20M	30915	4.1	12.2	18.3*		98
5-15-25M	29560	8.3	26.1	1.8*		113
5-15-25M	29566	4.6*	13.7*	25.2		95*
5-15-25M	29567	5.5	13.9*	24.6		98
5-15-25M	30913	5.3	14.8	25.7		102
5-15-25M	30914	5.0	15.0	25.4		100
5-15-25M	30923	5.4	15.1	24.9		102
5-15-25M	31074	5.0	15.0	22.0*		95*
5-15-25M	31474	4.6*	14.8	27.1		100

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

W R GRACE & CO-AGR PROD DIV		HOPKINSVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
5-15-25M	31542	4.9	15.1	24.8		100
9-10-15S	31471	9.2	8.8*	10.6*		90*
9-10-15S	31473	9.7	8.9*	14.6*		99
9-10-15S	31477	8.5*	10.9	14.2*		100
9-27- 0	29559	8.2*	24.5*	0.0		91*
9-27- 0	29568	9.0	26.6	0.0		99
9-27- 0	30912	9.0	27.0	0.0		100
9-27- 0	30922	8.9	26.2*	0.0		98
30- 0- 0	29561	28.5*	0.0	0.0		95*
30- 0- 0	29569	29.7	0.0	0.0		99
30- 0- 0	30924	27.4*	0.0	0.0		91*
30- 0- 0	31285	29.4*	0.0	0.0		98
W R GRACE & CO AGRI CHEM GROUP		MEMPHIS			XS CL	RV
GRADE	NUM	N	APA	POT		
0-20- 0	30319	0.0	19.3*	0.0		96*
0-20-20M	30318	0.0	20.3	19.0*		99
3-10-30M	30107	4.0	10.5	30.4		107
4-16- 4S	30015	4.0	16.0	5.9	*	104
4-16- 4S	30313	4.4	15.6*	5.4	*	104
5-10-15S	29949	5.0	10.8	15.4	*	104
5-10-15S	30108	4.9	9.9	14.2*		97*
5-10-15S	30124	5.7	10.0	15.7		105
5-10-15S	30314	4.8	10.0	13.9*		97*
5-10-15S	30326	5.0	10.5	15.6		103
5-10-15S	30507	4.9	9.4*	15.4		98
5-10-15S	30982	5.3	10.9	15.0	*	105
5-10-15S	31296	4.8	11.6	15.6	*	107
5-20-20M	29640	4.8	19.4*	17.1*		93*
5-20-20M	29656	5.5	22.5	17.2*		105
5-20-20M	29685	4.8	20.0	19.9		99
5-20-20M	29722	5.3	20.1	18.5*		99
5-20-20M	29749	5.5	20.0	20.8		103
5-20-20M	29806	5.4	20.6	19.7		103
5-20-20M	30049	5.4	20.5	21.5		105
5-20-20M	30109	5.2	19.0*	21.8		101
5-20-20M	30123	5.7	20.3	22.4		107
5-20-20M	30200	5.6	20.8	22.0		107
5-20-20M	30316	5.2	20.1	21.1		102
5-20-20M	30322	5.1	20.1	20.2		101
5-20-20M	30399	4.9	21.3	18.0*		100
5-20-20M	30498	4.9	20.1	20.8		101
5-20-20M	30759	4.9	20.6	19.7		101
5-20-20M	30980	4.9	20.9	20.2		102
5-20-20M	30985	5.5	19.8	20.6		102
6-12-12M	29750	6.0	14.5	12.5		110
6-12-12M	29775	5.6*	12.4	12.4		100
6-12-12M	29946	6.1	12.2	13.8		104
6-12-12M	30110	5.6*	12.2	14.0		102
6-12-12M	30315	5.9	12.4	14.0		104
6-12-12M	30325	6.1	13.2	12.9		107
6-12-12M	30485	6.5	11.9	13.0		104
6-12-12M	30508	6.3	11.9	14.2		105
6-12-12M	31136	6.7	12.2	12.7		106
6-12-18S	30279	5.9	12.4	18.4	*	101
6-12-18S	30323	6.0	12.0	18.6		101
6-24-24M	29774	5.9	24.0	24.3		100
6-24-24M	29807	5.9	21.8*	23.3*		94*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per-  
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W R GRACE & CO AGRI		CHEM GROUP	MEMPHIS		TENN	XS CL	RV
GRADE	NUM	N	APA	POT			
6-24-24M	29918	5.9	24.0	25.0			101
6-24-24M	29993	5.6*	24.0	24.7			99
6-24-24M	30104	6.4	24.0	24.2			102
6-24-24M	30112	6.0	23.3*	25.3			100
6-24-24M	30324	5.6*	24.0	24.2			99
6-38- 6M	31173	5.4*	38.0	6.8			99
10-10-10M	29641	9.2*	10.4	10.4			98
10-10-10M	29655	9.3*	10.6	12.6			102
10-10-10M	29686	9.7*	10.3	11.0			101
10-10-10M	29773	9.8	9.9	10.6			100
10-10-10M	29950	9.9	10.6	10.9			103
10-10-10M	30006	9.5*	10.7	12.9			104
10-10-10M	30105	10.4	10.5	11.0			105
10-10-10M	30111	10.0	10.2	10.8			102
10-10-10M	30317	10.0	10.3	12.4			105
10-10-10M	30497	9.9	9.9	9.9			99
10-10-10M	30981	10.0	10.9	10.0			103
10-10-10M	30983	9.9	10.8	11.3			104
10-10-10M	31295	10.2	10.6	10.8			104
10-10-10M	31333	9.1*	13.2	12.9			111
10-10-15S	30199	9.8	11.4	14.7			103
10-20-20M	29612	9.7	20.3	19.2*			99
15-15-15M	30106	15.0	14.1*	16.3			100
W R GRACE & CO-AGRI		PROD DIV	NASHVILLE		TENN	XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-30M	29723	0.0	20.1	29.9			100
0-20-30M	30546	0.0	21.0	28.8*			101
5-20-20M	29602	4.7	19.6	20.5			99
6-12-12M	29972	6.4	12.1	12.8			104
6-24-24M	29992	5.7	23.3*	25.1			99
6-24-24M	31272	5.7	22.8*	24.4			97*
10-10-10M	31512	10.0	10.0	11.2			102
W R GRACE & CO-AGR		PROD DIV	NEW ALBANY		IND.	XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25M	31481	0.0	25.9	26.9			105
5-10-15S	30165	5.1	11.7	13.2*		*	103
5-10-15S	30619	5.2	11.0	15.4			106
5-10-15S	30972	5.2	10.7	16.4			107
5-10-15S	30984	5.5	10.8	14.9		*	106
5-10-15S	31327	4.6*	11.0	15.2			102
5-10-15S	31332	4.9	11.0	16.2		*	106
5-20-20M	30157	5.4	18.7*	20.8			99
5-20-20M	30166	5.7	21.0	20.7			106
5-20-20M	30969	5.0	19.7	20.2			99
5-20-20M	30970	5.4	19.8	19.8			101
6-12-12M	30794	6.6	12.4	13.6			108
6-12-18S	31190	5.4*	13.0	19.4			103
10-10-10M	30164	10.0	10.7	11.2			104
10-10-10M	30968	10.1	11.0	11.3			106
10-10-10M	30971	10.2	10.6	11.3			105
10-10-10M	31326	9.0*	10.7	10.6			98
12-12-12M	30158	12.0	12.7	12.8			103
15-15-15M	31121	14.2*	15.3	15.1			98
15-15-15M	31122	14.0*	15.4	15.2			98
GRAVES COUNTY SOIL		IMP. ASSN.	MAYFIELD		KY.	XS CL	RV
GRADE	NUM	N	APA	POT			
16-11-15M	31286	17.6	10.8*	15.4			102

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

GREEN VALLEY FARM SUPPLY		ISLAND		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-23-30M	31355	0.0	22.7	31.7			101
0-23-30M	31356	0.0	20.3*	34.0			98
0-26-26M	29721	0.0	26.6	25.9			101
5-24-18M	31357	4.4*	26.4	18.9			101
GRO-GREEN CHEMICAL CO., INC.		SHELBYVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0- 6-19M	30992	0.0	5.5*	19.4			93*
0- 9-29M	29731	0.0	15.5	24.7*			115
0- 9-29M	31000	0.0	8.8*	29.8			97*
0- 9-29M	31003	0.0	9.0*	27.0*			91*
0-32- 6S	30999	0.0	19.5*	18.3			81*
5-10-15S	30623	6.5	13.4	12.7*	*		118
5-10-15S	30739	5.2	9.8	18.0	*		107
5-10-15S	31222	4.6*	8.1*	17.2	*		94*
5-20-20M	30622	8.9	28.9	11.4*			128
6- 7-11M	31401	6.9	5.9*	16.5			108
6-12-18S	30738	5.9	11.9	21.9			106
7- 5- 7S	30998	7.0*	5.0	9.5	*		102
7- 7- 7M	31396	6.7*	5.2*	8.3			86*
7-10- 2M	31223	10.9	8.3*	9.4			128
7-10- 8S	31224	6.8*	10.2	11.6	*		104
8-10-15S	31397	7.9	6.4*	18.7	*		94*
8-12-15S	30236	6.5*	9.1*	17.8			88*
8-12-15S	30621	8.2	12.8	14.2*	*		102
8-12-15S	31402	6.4*	9.8*	17.7	*		90*
8-12-15S	31513	6.9*	10.6*	17.0			93*
8-12-15S	30785	6.9*	12.2	15.8			97*
8-24-10M W/ME	30740	9.5	25.8	9.7			110
8-24-10M W/ME	30784	7.5*	19.1*	15.0			90*
8-24-10M W/ME	31400	7.7*	6.2*	22.4	*		93*
9- 9-14S	31394	10.2	7.5*	12.6			93*
10- 9-12M	30987	7.7*	6.1*	25.6			101
10-10-10M	30987	13.5	13.7	10.5*			109
12-12-12M	30620	9.4*	9.3*	15.5			86*
12-12-12M	30997	12.0*	8.6	27.3			94*
16- 7-20M	30994	13.0*	10.6	17.9			90*
17-10-14M	30991	17.1*	6.3	20.9			100
18- 6-18M	30990	12.8*	6.4*	16.7			79*
19- 9- 9M	31395	16.1*	12.0	16.9			99
19- 9-12M	30988	11.0*	12.7	26.9			84*
19-11-19M	31393	18.5*	8.4	12.3*			96*
20- 5-16M	31393	13.4*	5.2	23.4			82*
21- 5-16M	30989	18.7*	7.6	0.0			90*
21- 7- 0	31002	24.0	13.6*	9.9			101
22-15-10M	31403						
GRO-GREEN SALES CO., LEBANON		SHELBYVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6- 8-12S	31138	12.4	9.3	14.7			143
6-16-13S	31182	6.4*	15.0*	14.4	*		96*
8- 8- 8M	29748	6.5*	9.4	9.5			92*
8-17-17M	31137	8.4	14.1*	21.0			96*
13-14-16M	31140	13.0*	14.4	17.7			99
14- 7-11S	31447	10.8*	7.8	10.4*			84*
14-14-21S	31183	14.3	13.9	25.5	*		104
17- 7-18M	31181	18.5	4.9*	18.9			97*
17-11-18S	31448	16.8*	7.8*	20.2			91*
17-17-19M	31521	15.9*	17.6	19.6			98
19- 7-15M	31446	17.5*	9.6	17.4			100

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GRO-GREEN SALES CO., LEBANON		SHELBYVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
33- 0- 0	31139	25.3*	0.0	0.0		75*
33- 0- 0	31522	28.7*	3.6	1.1		86*
GRO-GREEN CHEMICAL CO PAYNES		SHELBYVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
5- 4- 7S	31311	6.4	3.5*	10.9		113
5-10-15S	31206	4.6*	8.7*	16.9		96*
5-20-20M	30564	6.5	22.1	21.0		113
6- 6-18S	31205	6.1	6.9	17.0*		102
8-12-15S	30658	7.2*	10.7*	17.0	*	95*
12- 4-13M	30902	11.3*	5.5	12.2*		95*
12-12-12M	30563	8.8*	9.0*	14.9		82*
13- 0-34M	31204	13.6	0.0	34.4		102
19- 0-21M	31391	17.3*	0.0	24.6		97*
21- 7-11M	30903	18.3*	9.1	13.7		95*
27- 0-10M	31390	25.3*	0.0	14.7		97*
HANCOCK COUNTY FARM SUPPLY		HAWESVILLE KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
8- 7-11S	31281	8.0	7.6	11.4		98
10- 8-12S	31282	10.5	8.0	11.8	*	99
ELFORD HAYES		RUSSELL SPRNGKY			XS CL	RV
GRADE	NUM	N	APA	POT		
0-20-20M	30139	0.0	18.3*	20.3		95*
4-12- 8M	30944	3.7*	9.0*	7.3*		82*
5-20-20M	30125	4.3*	15.0*	21.8		86*
5-20-20M	30390	4.8	18.0*	20.3		94*
HOWE-HILLIARD GRAIN CO.		MAYFIELD KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
9-23-30M	31249	8.0*	20.7*	34.5		97*
19- 9-18M	31248	17.9*	12.4	21.2		102
HUTSON CHEMICAL COMPANY		MURRAY KY.			XS CL	RV
GRADE	NUM	N	APA	POT		
4-16-30M	31289	4.5	16.2	30.4		103
5-20-20M	29724	5.8	24.7	18.4*		114
6-12-12M	30509	6.1	12.0	13.0		102
6-24-24M	30510	6.4	24.1	24.6		102
6-24-24M	30928	6.2	23.8	25.0		101
6-24-24M	31358	5.6*	23.0*	25.9		99
10-10-10M	30645	10.5	9.9	10.5		103
10-10-10S	30648	10.4	11.6	10.8		108
15-15-15M	30824	14.2*	14.9	17.0		99
30- 0- 0	30649	30.3	0.0	0.0		101
INTERNATIONAL MIN & CHEM CORP		CHICAGO HGHTS ILL.			XS CL	RV
GRADE	NUM	N	APA	POT		
6-12-12M	31258	6.2	11.9	12.3		101
INTERNATIONAL MIN & CHEM CORP		SKOKIE ILL.			XS CL	RV
GRADE	NUM	N	APA	POT		
0- 0-60M	29907	0.0	0.0	60.8		101
INTERNATIONAL MIN & CHEM CORP		FLORENCE ALA.			XS CL	RV
GRADE	NUM	N	APA	POT		
8- 8- 8M W/ME	29736	8.7	8.4	8.8	*	107
JON-T CHEMICALS INC		BROWNFIELD TEX.			XS CL	RV
GRADE	NUM	N	APA	POT		
11-37- 0	30926	11.4	34.0*	0.0		96*
KAISER AGRICULTURAL CHEMICALS		SAVANNAH GA.			XS CL	RV
GRADE	NUM	N	APA	POT		
10-34- 0	29991	10.1	34.3	0.0		101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

KENTUCKY FERTILIZER WORKS		WINCHESTER			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
4-16- 4S	30193	4.2	14.5*	4.9		96*	
4-16- 4S	30249	4.3	15.7	4.8	*	102	
5-10-10M	30192	4.5*	9.0*	11.3		95*	
5-10-10M	30600	4.9	11.6	11.2		109	
5-10-10M	30668	4.9	9.4*	10.7		98	
5-10-10M	30774	5.5	8.8*	9.9		98	
5-10-15S	30601	6.0	10.4	15.1	*	108	
5-10-15S	30669	5.0	9.9	15.0		99	
5-10-15S	30765	4.8	10.3	15.0		100	
5-10-15S	30938	5.0	9.8	14.6*		98	
5-10-15S	31027	5.0	9.5*	15.5		99	
5-10-15S	31028	5.0	9.9	15.1		100	
5-10-15S	31417	4.6*	9.9	15.8		98	
5-20-20M	30414	4.7	16.4*	21.1		91*	
5-20-20M	31024	5.4	17.9*	20.8		97*	
5-20-20M	31436	4.2*	17.0*	20.9		90*	
6- 6-18S	31029	6.3	5.9	18.5		103	
6- 6-18S	31184	5.6*	6.8	18.0		100	
6- 6-18S	31185	5.0*	6.1	19.4		97*	
10-10-10M	30055	9.7	8.1*	10.3		92*	
10-10-10M	30191	9.6*	10.5	11.1		101	
10-10-10M	30775	9.9	13.2	11.3		112	
10-10-10M	30939	9.5*	10.4	10.8		100	
10-10-10M	31025	10.0	6.9*	8.7*		87*	
10-10-10M	31026	9.7	10.3	10.0		100	
10-10-10M	31232	9.9	9.9	10.7		100	
10-10-10M	30773	7.1*	13.8	19.9		95*	
KERR-MCGEE FARM CENTER		CADIZ			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
20-15-15M	31077	19.9	15.5	16.6		102	
KERR-MCGEE FARM CENTER		GUTHRIE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
0-30-20M	30936	0.0	30.3	19.6		100	
6-24-24M	30937	7.2	24.2	24.0		104	
6-24-24M	31379	5.9	23.8	24.5		100	
16-12-12M	29789	14.0*	13.1	12.0		95*	
KERR-MCGEE FARM CENTER		PEMBROKE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
5-19-26M	31382	5.4	19.3	27.4		102	
5-20-20M	30628	6.0	21.0	20.4		107	
6-24-24M	29637	6.6	26.4	20.2*		103	
6-24-24M	30235	6.0	24.8	21.1*		99	
6-24-24M	30629	7.2	25.0	22.4*		104	
8-12-20S	29594	4.7*	12.5	19.7		86*	
8-12-20S	29595	5.7*	12.2	20.2		91*	
10-10-10M	30234	10.1	11.0	9.4*		103	
11-30- 0	30630	10.3*	32.1	0.0		100	
15-10- 7M	29638	15.0	13.8	6.4*		106	
LOUISVILLE CHEMICAL CO		LOUISVILLE			KY		
GRADE	NUM	N	APA	POT	XS CL	RV	
6-18- 6M	30632	6.2	17.9	6.2		101	
6-18- 6M	31387	6.5	18.0	7.1		104	
6-18- 6M	31445	6.1	18.0	6.3		101	
MCCAULEY BROS SEED CO		VERSAILLES			KY		
GRADE	NUM	N	APA	POT	XS CL	RV	
0- 0-22S	30909	0.0	0.0	22.2		101	
0- 0-50S	30908	0.0	0.0	49.8		100	



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

MCCAULEY BROS SEED CO		VERSAILLES			KY			
GRADE	NUM	N	APA	POT	XS	CL	RV	
0- 0-60M	30910	0.0	0.0	60.5			101	
0-23-30M	30660	0.0	21.0*	28.8*			93*	
0-46- 0	30905	0.0	45.8	0.0			100	
5-10-16S	31203	5.0*	9.9*	18.1			94*	
6- 8-16S	31199	6.6	5.4*	17.3			91*	
8- 5-15S W/ME	30659	9.3	5.9	14.5*			105	
11- 0- 0	31495	10.4*	0.0	0.0			94*	
12- 4-13S	31201	11.1*	3.8*	14.2			94*	
12-10-20S	31200	11.6*	8.1*	22.3			96*	
13- 8-25S	31198	13.2	7.3*	25.4			96*	
15- 0-19M	31202	13.4*	0.0	21.2			95*	
18-46- 0	30907	18.1	45.9	0.0			100	
22- 0-20M	30661	22.1	0.0	21.2			101	
33- 0- 0	30906	34.1	0.0	0.0			102	
45- 0- 0	30904	46.0	0.0	0.0			102	
MARSHALL COUNTY SOIL IMP ASSN		BENTON			KY.			
GRADE	NUM	N	APA	POT	XS	CL	RV	
9-18-27S	31247	8.7	17.6*	27.9			98	
23-11-11M	31246	22.9	12.1	12.5			101	
MEACHEM NITROGEN SER		MORGANFIELD			KY			
GRADE	NUM	N	APA	POT	XS	CL	RV	
82- 0- 0	31506	82.1	0.0	0.0			100	
MEADE FARMERS SUPPLY		BRANDENBURG			KY			
GRADE	NUM	N	APA	POT	XS	CL	RV	
5-20-20M	31118	6.3	21.8	21.7			108	
MILES FARMS		DWENSBORO			KY.			
GRADE	NUM	N	APA	POT	XS	CL	RV	
0-16-39M	30748	0.0	16.7	38.2*			100	
0-23-30M	29674	0.0	24.5	27.9*			101	
6-15-40M	30749	5.5*	13.3*	43.5			98	
6-16-21M	29673	4.1*	16.4	25.9			96*	
6-20-30M	31362	5.3*	21.9	31.7			104	
6-26-26M	31361	5.9	25.9	26.4			100	
6-26-26M	31363	4.6*	22.1*	31.0			93*	
14-14-21S	30750	13.7*	16.1	23.2			104	
15-10-15S	31364	15.6	9.6*	18.3			101	
MONSANTO AGRI. CENTERS, INC.		SLAUGHTERS			KY.			
GRADE	NUM	N	APA	POT	XS	CL	RV	
0-14-40M	31159	0.0	15.9	40.9			103	
0-18-36M	29783	0.0	25.3	28.0*			108	
4-18-18M	29653	4.6	17.4*	19.4			103	
5-10-15S	31160	4.7*	12.4	15.8			109	
5-20-20M	30548	5.1	19.3*	21.9			101	
5-20-30M	31163	4.5*	20.3	30.0			99	
6-24-24M	31161	6.3	25.8	23.7			104	
6-26-26M	29572	4.6*	23.0*	31.3			95*	
6-26-26M	30550	6.1	26.9	25.3*			102	
7-15-22M	31162	8.5	15.7	16.3*			97*	
14-36- 9M W/ME	30549	14.1	35.8	9.5			100	
18-14-14M	31164	16.3*	17.7	14.6			100	
MOORE-HUTCHESON CO		MORGANTOWN			KY			
GRADE	NUM	N	APA	POT	XS	CL	RV	
6-12-18S	31451	6.3	12.3	17.7		*	102	
6-12-18S	31453	6.3	12.6	17.5*		*	102	
12-23-23M	31454	12.6	24.5	22.6*			101	
18-17-17M	31452	18.3	16.4*	16.9			99	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

M-S FARM SERVICE		HENDERSON		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-23-30M	31170	0.0	23.7	30.5			102
0-23-30M	31482	0.0	20.1*	36.1			100
NA-CHURS PLANT FOOD COMPANY		MARION		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
3-18-18M	31319	5.3	18.7	14.9*			108
3-18-18M	31412	3.5	19.0	17.6			105
9-18-9M	31318	8.9	18.5	9.4			102
NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-18-36M	30647	0.0	18.0	36.4			100
0-25-25M	31005	0.0	23.4*	25.9			97*
4-12-8M	31177	6.7	12.8	15.1			138
4-16-4S	30307	4.7	15.1*	5.3			103
5-10-15S	30665	4.6*	10.2	16.1			101
5-10-15S	30791	5.0	9.8	15.9			101
5-10-15S	31006	4.1*	10.2	16.4			98
5-10-15S	31063	6.3	9.8	15.0			107
5-10-15S	31176	4.9	10.2	16.1			102
5-10-15S	31220	5.9	10.0	16.0			107
5-10-15S	31354	5.2	10.0	15.9			103
5-20-20M	30666	4.4*	18.8*	22.0			97*
5-20-20M	31016	5.0	20.8	19.5*			101
5-20-20M	31353	4.0*	17.8*	22.8			94*
5-20-20M	31409	3.9*	17.1*	22.3			91*
5-20-20S	30646	5.4	18.5*	22.3			100
6-6-18S	30793	5.8	8.2	17.5*			107
6-12-12M	29903	6.7	12.8	11.9			106
6-12-12M	30731	6.8	12.9	11.6*			107
6-12-12M	30792	7.4	10.7*	11.7*			102
6-12-12M	31008	7.1	11.5*	12.4			105
8-10-15S	30741	5.6*	9.4*	15.1			86*
8-10-15S	31221	6.6*	10.2	16.4			96*
9-9-17S w/ME	29904	9.1	9.8	17.0	*		103
10-10-10M	29635	10.0	11.0	10.0			99
10-10-10M	30664	9.5*	10.0	11.1			86*
10-10-10M	30787	8.5*	6.8*	12.9			88*
10-10-10M	30790	9.2*	6.4*	12.6			104
10-10-10M	30979	10.4	10.9	9.7*			105
10-10-10M	31062	10.0	11.9	9.1*			104
10-10-10M	31219	10.5	10.9	9.3*			100
10-10-10M	31407	9.9	10.3	10.1			100
10-10-10M	31408	9.4*	10.0	11.9			102
14-8-8M	31010	13.8	7.9	10.0			102
15-14-9M w/ME	31007	14.5*	15.6	12.8			100
15-15-15M	29902	14.7	14.9	16.0			104
15-15-15M	31004	16.1	15.8	13.6*			93*
15-15-15M	31406	13.3*	13.2*	17.3			98
20-10-10M	31009	18.3*	10.3	12.6			
OCCIDENTAL CHEMICAL CO.		SPRINGFIELD		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
0-46-0	29982	0.0	47.0	0.0			102
OHIO VALLEY FERTILIZER, INC.		MAYSVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	30408	5.7	11.2	15.4			109
5-10-15S	30426	5.0	8.9*	15.5			96*
5-10-15S	31324	5.8	9.3*	15.5			103
5-10-20S	30412	4.4*	10.8	17.2*			95*

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cent or less indicated by asterisk.

OHIO VALLEY FERTILIZER, INC.		MAYSVILLE			KY.		
GRADE	NUM	N	APA	POT	XS CL	RV	
5-20-20M	30427	6.1	25.3	15.6*		113	
6- 6-18S	30411	10.0	11.2	16.7*		144	
7- 9-14S	31021	7.4*	5.2*	15.8		82*	
9- 9-19S	31023	8.5*	8.6*	19.6		90*	
9-13-18M	31020	5.9*	12.8*	15.2*		81*	
10- 8-12S	31322	8.0*	8.2	13.9		90*	
10-10-10M	30407	10.8	9.0*	10.1		100	
10-10-10M	31022	10.5	9.3*	11.7		103	
10-10-20S	30001	9.2*	13.2	14.0*	*	97*	
10-10-20S	30413	10.0	12.2	17.8*		103	
10-10-20S	31019	8.9*	9.8	20.2		95*	
10-10-20S	31323	6.8*	6.6*	23.3		81*	
16- 8- 8M	30409	11.8*	11.9	10.0		96*	
GLIN CORP AGRI DIV		LITTLE ROCK			ARK.		
GRADE	NUM	N	APA	POT	XS CL	RV	
6-24-24M	29600	6.7	24.9	25.3		106	
6-24-24M	29609	6.5	25.4	24.8		105	
6-24-24M	30028	6.1	24.2	24.7		101	
J PETTY CO		GRACEY			KY		
GRADE	NUM	N	APA	POT	XS CL	RV	
6-20-20M	30919	6.7	22.4	17.0*		105	
PHELPS FARM SERVICE		PADUCAH			KY		
GRADE	NUM	N	APA	POT	XS CL	RV	
0-23-30M	31470	0.0	25.1	28.7*		104	
PRICES MILL FARM SUPPLY		FRANKLIN			KY		
GRADE	NUM	N	APA	POT	XS CL	RV	
16-16-17M	31039	16.7	17.0	17.5		100	
22-12-12M	31038	23.7	9.5*	12.7		99	
RICH POND CROP SERVICE		BOWLING GREENKY					
GRADE	NUM	N	APA	POT	XS CL	RV	
0-23-30M	31250	0.0	19.9*	33.2		96*	
0-23-30M	31252	0.0	19.0*	34.9		96*	
6-24-24M	31254	6.5	24.7	24.6		104	
14-20-15M	31251	11.8*	20.5	18.3		96*	
ROYSTER COMPANY		NORFOLK			VA.		
GRADE	NUM	N	APA	POT	XS CL	RV	
0-20- 0	29665	0.0	20.0	0.0		100	
0-25-25M	30244	0.0	24.4*	25.3		99	
0-25-25M	30697	0.0	24.4*	25.6		99	
5-10-15S	29580	5.1	10.0	15.8		102	
5-10-15S	31426	4.9	10.5	11.9*		95*	
5-10-15S W/ME	29606	5.3	10.1	14.9		102	
5-10-15S W/ME	29608	4.9	9.9	15.2		99	
5-10-15S W/ME	29797	5.1	10.0	15.0		100	
5-10-15S W/ME	30417	4.9	10.0	15.3		100	
5-10-15S W/ME	31303	4.9	10.8	16.1		105	
5-10-15S W/ME	31304	4.9	10.9	16.3		106	
5-20-20M	29607	3.9*	18.9*	21.8		95*	
5-20-20M	29831	4.4*	26.7	15.7*		110	
5-20-20M	29887	5.1	18.3*	21.2		97*	
5-20-20M	29940	4.7	18.3*	24.5		100	
5-20-20M	30242	5.0	19.0*	21.0		99	
5-20-20M	30416	4.5*	19.4*	21.2		98	
5-20-20M	30466	4.7	18.8*	22.3		99	
5-20-20M	30590	5.5	20.0	16.7*		97*	
5-20-20M	30644	5.5	20.4	20.1		103	
5-20-20M	30841	5.1	20.2	21.2		102	

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

ROYSSTER COMPANY		NORFOLK			VA.		XS CL	RV
GRADE	NUM	N	APA	POT				
6- 6-21M	29851	6.4	10.5	22.7			123	
6-12-12M	30467	5.7*	11.9	13.1			100	
9-18-18M	30643	8.0*	14.9*	20.3			91*	
10-10-10M	29941	9.6*	10.4	9.9			99	
10-10-10M	30243	9.4*	10.8	10.8			101	
10-10-10M	30591	10.3	11.0	10.0			105	
10-10-10M	30642	9.9	10.4	9.9			101	
10-10-10M	31427	9.1*	9.2*	10.0			93*	
10-10-10M W/ME	29647	10.9	12.7	8.5*			111	
10-10-15S W/ME	30592	9.4*	10.2	14.1*			96*	
12-24-24M	29646	13.2	27.2	20.2*			106	
12-24-24M	30840	11.4*	22.8*	25.6			97*	
ROYSSTER FARM SERVICE		GLASGOW			KY		XS CL	RV
GRADE	NUM	N	APA	POT				
5-10-15S W/ME	30120	5.4	10.6	14.6*			104	
5-10-15S W/ME	30303	5.7	10.1	16.3			107	
5-10-15S W/ME	30495	5.7	10.2	14.9			104	
5-10-15S W/ME	30875	5.5	10.4	15.2			105	
5-20-20M	30119	4.0*	21.9	19.5*			100	
5-20-20M	30305	5.4	14.4*	18.6*			85*	
5-20-20M	30494	3.1*	20.1	19.9			92*	
5-20-20M	30561	5.0	17.6*	23.9			99	
6-27- 0	31046	7.1	30.5	0.0			108	
9-18-18M	29581	9.2	19.1	16.7*			102	
9-18-18M	30493	5.1*	15.3*	18.7			80*	
10-10-10M	30118	10.3	10.6	10.2			103	
10-10-10M	30304	9.4*	10.6	9.6*			98	
10-10-10M	30492	8.8*	9.3*	11.0			93*	
10-10-10M	30874	7.8*	13.4	10.2			101	
10-10-15S W/ME	30873	9.9	10.9	15.2			102	
12-12-12M	30560	10.1*	9.6*	13.7			88*	
30- 0- 0	30306	28.9*	0.0	0.0			96*	
ROYSSTER COMPANY		UTICA			KY		XS CL	RV
GRADE	NUM	N	APA	POT				
3-10-30M	30333	3.2	10.4	30.2			103	
3-10-30M	30751	3.0	10.1	29.2*			99	
3-10-30M	30828	3.3	10.7	29.5			103	
4-13-26M	31509	4.0	14.2	27.0			105	
6-20-20M	31371	5.3*	19.0*	20.4			95*	
6-20-20M	31510	5.6*	18.7*	21.0			96*	
6-20-20M	31511	5.4*	18.9*	20.8			96*	
ROYSSTER FARM SERVICE CENTER		WINCHESTER			KY		XS CL	RV
GRADE	NUM	N	APA	POT				
0-26-26M	31033	0.0	23.9*	29.7			99	
5-10-15S	30611	4.2*	7.6*	17.0			89*	
5-10-15S	30802	4.5*	8.6*	14.1*			89*	
5-10-15S	30814	4.9	8.3*	15.2			93*	
5-10-15S	31236	4.6*	10.1	14.5*			97*	
5-10-15S	31239	4.3*	10.5	13.0*			92*	
5-10-15S	31419	5.0	9.2*	15.6			98	
5-10-15S W/ME	30610	5.5	10.4	14.4*		*	103	
5-20-20M	31237	2.0*	13.6*	18.5*			69*	
6-24-24M	31030	6.5	23.8	24.6			102	
10-10-10M	30612	9.6*	9.2*	11.2			97*	
10-10-10M	31235	8.2*	8.5*	9.4*			85*	
10-10-15S	31032	10.0	10.1	14.8			100	
13- 9-24M	31238	12.8*	10.0	24.6			100	

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**

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

ROYSER FARM SERVICE CENTER			WINCHESTER		KY		
GRADE	NUM	N	APA	POT	XS	CL	RV
28- 0- 0	31031	29.5	0.0	0.0			105
SACRAMENTO FEED MILL			SACREMENTO		KY		
GRADE	NUM	N	APA	POT	XS	CL	RV
5-20-30M	31158	4.7*	19.3*	31.5			99
5-20-30M	31504	4.8	18.9*	31.8			99
13- 8-12S	31060	13.2	7.0*	15.6			103
SANDUSKY MILLS INC			HARRODSBURG		KY		
GRADE	NUM	N	APA	POT	XS	CL	RV
7-17-11S	31439	6.6*	14.1*	14.5			91*
8- 3-23S	31346	6.7*	2.2*	29.3	*		94*
10-10-15S	31438	9.8*	8.6*	20.6			102
10-11-22S	31347	7.7*	9.3*	30.5	*		95*
20- 0-23M	31147	19.5*	0.0	25.0			98
22- 0-20M	30280	21.0*	0.0	21.6			97*
22- 0-20M	31150	21.2*	0.0	21.2			97*
SCHUCHOH CROP SERVICE			RUSSELLVILLE		KY.		
GRADE	NUM	N	APA	POT	XS	CL	RV
6-24-24M	31135	6.3	23.3*	24.0			99
16-12-12M	31134	18.5	12.0*	12.2			104
D. M. SCOTT & SONS			MARYSVILLE		OHIO		
GRADE	NUM	N	APA	POT	XS	CL	RV
16- 4- 4M	30357	15.4*	3.9	4.5			97*
22- 5- 5M	30283	21.9	5.2	5.2			100
23- 7- 7M	30356	22.4*	6.9	8.6			100
SMITH-DOUGLAS DIV			RUSSELLVILLE		KY		
GRADE	NUM	N	APA	POT	XS	CL	RV
0-25-25M	30350	0.0	32.4	15.7*			106
4-16- 4S	30095	4.8	15.7	5.4	*		106
4-16- 4S	30331	4.2	16.4	4.8	*		104
4-16- 4S	30337	4.4	16.9	6.0	*		110
4-16- 4S	30366	4.0	16.5	5.2	*		104
5-10-15S	30346	5.2	10.4	15.2			103
5-10-15S	30713	5.6	10.6	14.5*	*		105
5-20-20M	29663	4.8	19.3*	20.8			98
5-20-20M	29715	4.4*	20.4	20.8			100
5-20-20M	29751	4.7	20.3	20.5			100
5-20-20M	29788	5.0	19.9	20.1			100
5-20-20M	29802	4.5*	22.4	18.5*			102
5-20-20M	30328	6.7	21.4	13.3*			101
5-20-20M	30341	6.0	22.1	15.9*			104
5-20-20M	30347	6.1	20.4	18.4*			103
5-20-20M	30714	5.9	20.4	19.4*			104
5-20-20M	30809	5.3	19.2*	20.8			100
5-20-20M	30815	6.1	19.4*	18.9*			101
5-20-20M	30819	5.8	18.7*	18.9*			98
5-20-20M	31527	5.3	22.8	18.0*			106
6-12-12M	29617	5.1*	15.2	13.0			108
6-12-12M	29687	5.6*	12.5	13.3			102
6-12-12M	29752	5.5*	13.8	14.7			109
6-12-12M	29766	5.6*	12.7	13.5			103
6-12-12M	29801	5.4*	13.1	14.2			105
6-12-12M	30348	5.7	13.9	12.7			107
6-12-12M	30716	5.8	13.0	12.4			103
6-12-12M	31528	5.5*	13.4	13.4			105
6-12-18S	30339	6.5	12.8	16.8*	*		103
6-12-18S	31131	7.1	12.2	16.6*			104
6-12-18S W/ME	30345	7.2	15.3	16.2*	*		114

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

SMITH-DOUGLAS DIV		RUSSELLVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-18S W/ME	30818	7.0	12.6	17.0*		105
6-21-18M W/ME	31526	7.0	21.8	16.9*		104
6-21-18M W/ME	31532	6.9	22.2	16.8*		105
6-24-24M	30075	6.7	24.6	24.7		104
6-24-24M	30340	6.3	24.0	24.7		102
6-24-24M	31505	4.8*	24.8	21.9*		95*
6-24-24M	31525	6.3	22.7*	25.6		100
6-24-24M W/ME	30329	6.6	24.0	24.0		102
6-24-24M W/ME	30718	7.2	24.1	25.6		106
7-21-10M W/ME	30717	6.3*	18.9*	9.7		91*
7-21-10M W/ME	30810	6.9	19.8*	11.2		98
10-10-10M	29664	7.0*	11.2	12.8		94*
10-10-10M	29787	7.5*	11.9	13.5		99
10-10-10M	29996	9.0*	10.3	11.6		98
10-10-10M	30349	8.0*	11.4	10.9		96*
10-10-10M	30715	7.8*	11.8	11.6		97*
10-10-10M	30808	8.1*	12.1	12.4		101
10-10-10M	30816	8.3*	11.5	11.6		99
10-10-10M	30820	8.7*	10.8	11.7		99
10-10-10M	30344	12.2	24.3	18.4*		96*
12-24-24M	30811	18.7	46.2	0.0		102
18-46-0	31253	17.9	45.9	0.0		100
18-46-0						
SMITHS GROVE FERTILIZER CO		SMITHS GROVE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-19-19M	30559	0.0	13.8*	24.2		88*
5-20-20M	30336	5.8	22.5	17.9*		107
5-20-20M	31493	4.9	19.0*	19.9		97*
SOUTHEAST CHEMICAL CO		LONDON KY				
GRADE	NUM	N	APA	POT	XS CL	RV
33-0-0	29850	33.7	0.0	0.0		100
SOUTHERN STATES COOP., INC.		LOUISVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-15-30M	29582	0.0	15.1	30.9		102
0-15-30M	31520	0.0	14.5*	31.9		101
4-16-4S	29893	4.5	14.9*	4.8		100
4-16-4S	29908	4.5	16.1	4.5		105
4-16-4S	30126	4.5	16.0	4.6		104
4-16-4S	30135	4.3	14.8*	4.5		98
4-16-4S	30255	4.3	14.7*	4.7		98
4-16-4S	29810	5.3	9.9	15.0		101
5-10-15S	29810	5.3	9.9	15.0		109
5-10-15S	29897	5.4	11.7	15.1		104
5-10-15S	29994	5.4	9.9	16.0		104
5-10-15S	30947	5.2	10.0	15.8		103
5-10-15S	31405	5.0	10.2	15.1		101
5-20-20M	29895	4.9	20.1	20.6		100
6-12-12M	30051	6.2	12.3	12.4		103
6-12-12M	30267	6.2	11.7*	11.8		99
8-10-15S	29896	8.1	9.9	15.2		101
8-10-15S	30617	8.0	10.4	15.7		102
10-10-10M	30266	9.9	10.4	10.5		101
10-10-10M	31404	10.1	10.1	10.9		102
SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	30282	0.0	19.9	19.8		99
4-12-8M	30053	4.1	11.9	9.2		103
5-10-15S	29818	5.2	9.9	16.3		103
5-10-15S	29869	5.1	10.3	14.9		101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
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SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15S	29889	5.2	10.0	16.0		103
5-10-15S	29917	5.2	10.6	14.3*		102
5-10-15S	29919	5.4	10.0	16.2		105
5-10-15S	29970	5.2	9.9	15.4		101
5-10-15S	30070	5.4	10.7	16.2		108
5-10-15S	30122	5.4	9.9	16.3		104
5-10-15S	30260	5.5	10.1	15.0		103
5-10-15S	30424	5.2	9.9	17.0		104
5-10-15S	30699	5.5	9.8	15.8		104
5-10-15S	31455	5.6	8.9*	15.7		101
5-15- 5M	30763	6.6	14.8	6.0		111
5-20-20M	29603	4.9	19.6*	19.7		98
5-20-20M	29680	5.3	19.5*	20.7		101
5-20-20M	29693	5.0	19.9	20.0		100
5-20-20M	29737	5.6	21.2	16.6*		101
5-20-20M	29813	5.3	20.5	18.0*		100
5-20-20M	29852	5.1	19.4*	20.6		100
5-20-20M	29867	5.3	20.3	18.8*		100
5-20-20M	29876	5.1	20.2	19.2*		100
5-20-20M	29890	5.6	20.0	19.9		102
5-20-20M	29901	5.4	20.0	19.9		101
5-20-20M	29915	5.4	19.1*	21.4		101
5-20-20M	29921	5.6	20.2	18.5*		101
5-20-20M	29922	5.3	20.7	18.5*		101
5-20-20M	29976	5.2	20.2	19.1*		100
5-20-20M	30261	5.3	19.9	19.6		100
5-20-20M	30480	4.9	20.5	19.6		100
5-20-20M	30653	5.5	20.8	17.9*		101
5-20-20M	30702	5.2	22.3	16.6*		102
5-20-20M	30946	5.0	19.9	19.1*		98
5-20-20M	31299	5.0	20.3	19.3*		100
6-12-12M	29694	6.1	12.4	11.9		102
6-12-12M	29720	6.2	12.5	12.0		103
6-12-12M	29800	6.3	12.2	10.5*		100
6-12-12M	29842	6.2	11.9	13.0		102
6-12-12M	29854	6.0	11.6*	13.3		101
6-12-12M	29868	6.0	11.3*	10.7*		95*
6-12-12M	29870	6.3	12.4	10.5*		100
6-12-12M	29875	6.1	12.1	11.9		100
6-12-12M	29916	6.1	11.9	12.7		101
6-12-12M	29989	6.3	11.5*	12.6		100
6-12-12M	30152	6.4	12.1	11.2*		101
6-12-12M	30231	6.1	12.2	12.4		102
6-12-12M	30726	6.2	12.4	12.4		103
6-12-18S	29988	6.0	12.1	18.3		101
6-12-18S	30423	5.8	11.5*	19.3		100
6-12-18S	30566	6.1	11.9	18.4		101
6-12-18S	30652	6.3	11.9	18.6		102
6-12-18S	31076	6.1	12.4	17.1*		100
6-12-18S	31297	5.9	12.5	16.5*		98
6-24-24M	29719	5.9	23.9	25.0		100
6-24-24M	29858	6.1	23.2*	24.0		99
6-24-24M	29860	5.9	22.9*	24.7		98
6-24-24M	29879	5.9	22.4*	23.9		96*
6-24-24M	29920	6.2	24.0	24.8		101
6-24-24M	29923	6.2	24.9	22.1*		101
6-24-24M	29948	6.1	22.9*	24.0		98

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

SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY.				XS CL	RV
GRADE	NUM	N	APA	POT			
6-24-24M	29952	6.0	24.5	23.1*		100	
6-24-24M	30520	5.8	25.1	24.2		102	
10-10-10M	29604	10.1	10.1	10.8		102	
10-10-10M	29625	10.1	10.3	10.1		101	
10-10-10M	29642	9.7	10.3	9.7		99	
10-10-10M	29667	9.9	10.3	9.9		100	
10-10-10M	29692	9.7*	10.4	10.4		100	
10-10-10M	29738	10.4	10.6	7.5*		100	
10-10-10M	29767	10.7	10.5	7.8*		101	
10-10-10M	29798	10.1	10.0	10.1		100	
10-10-10M	29835	9.4*	10.0	12.2		100	
10-10-10M	29843	9.8	10.1	10.8		101	
10-10-10M	29859	10.3	10.7	9.4*		103	
10-10-10M	29877	9.4*	10.5	9.6*		98	
10-10-10M	29900	10.0	10.6	9.9		102	
10-10-10M	29909	10.2	11.0	8.8*		102	
10-10-10M	29924	10.3	10.7	9.9		103	
10-10-10M	29977	9.9	10.4	11.0		102	
10-10-10M	29978	9.4*	9.9	11.2		99	
10-10-10M	30022	10.1	10.5	9.5*		101	
10-10-10M	30050	9.7	10.4	11.0		101	
10-10-10M	30069	10.0	10.1	10.7		101	
10-10-10M	30941	10.2	10.1	10.8		102	
10-10-10M	31097	9.5*	10.5	11.7		102	
SOUTHERN STATES COOP., INC.		WINCHESTER KY.				XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	29809	5.2	9.9	15.6		102	
5-10-15S	30002	5.3	9.9	15.6		103	
5-10-15S	30174	5.3	10.1	15.7	*	103	
5-10-15S	31302	5.0	9.9	16.4	*	102	
5-10-15S	31497	4.9	9.8	15.9		100	
5-20-20M	29663	4.9	21.0	19.9		102	
5-20-20M	30465	5.1	20.0	20.2		101	
6- 6-18S	31187	6.0	6.3	18.3		101	
6- 6-18S	31443	6.0	6.1	18.8		102	
8-10-15S	30173	8.1	10.4	15.4		103	
10-10-10M	29891	9.8	10.1	10.2		100	
10-10-10M	30005	10.2	10.2	10.3		102	
10-10-10M	30172	9.9	10.1	10.2		100	
S. S. BARDSTOWN COOP.		BARDSTOWN KY.				XS CL	RV
GRADE	NUM	N	APA	POT			
0-33-16M	31096	0.0	34.3	16.1		102	
6-26-26M	31093	6.7	26.7	26.0		102	
8-23-15M	31330	8.4	23.0	15.2		100	
12- 9-25M	31093	11.4*	10.2	28.3		103	
12- 9-26M	31092	11.5*	9.3	28.2		101	
12-11-19M	31328	11.0*	11.8	22.2		100	
12-12-18S	31331	10.5*	12.1	22.6		98	
13-11-17S	31329	12.2*	11.8	20.8		100	
S S COOP-CALDWELL SERVICE		PRINCETON KY.				XS CL	RV
GRADE	NUM	N	APA	POT			
4-13- 8M	29784	5.0	14.3	8.3*		108	
27- 4- 6M	30823	26.4*	5.7	6.4		99	
S. S. CAMPBELLSVILLE COOP.		CAMPBELLSVILLE KY.				XS CL	RV
GRADE	NUM	N	APA	POT			
13- 8-26S	30958	13.0*	9.1	25.9		100	
14-14-21S	31335	14.0	15.5*	22.7		98	



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S. S. CAMPBELLSVILLE COOP.		CAMPBELLSVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
17-12-18M	30956	15.7*	14.9	18.0*		100
17-17-17M	30957	17.9	20.6	17.7		105
17-17-17M	31334	17.2*	19.2	18.0		101
18-11-17S	30959	20.1	10.7*	15.3*		102
S S CYNTHIANA COOP		CYNTHIANA KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
10-10-10M	30693	15.0	15.1	14.4		149
13- 0-36M	30694	13.2	0.0	36.9		101
S. S. FLEMINGSBURG COOP.		FLEMINGSBURG KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
7-15-22S	31240	8.6	11.2*	29.7	*	103
14-14-14M	31241	14.3*	12.7*	12.9*		91*
S S GEORGETOWN COOP		GEORGETOWN KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
12-12-18S	31309	12.4	12.4	18.6		101
14-10-16M	31307	14.9	11.2	15.0*		103
15- 6-19M	31310	16.5	6.8	18.4*		103
18- 0-21S	31308	19.9	0.0	20.6*		103
S. S. GLASGOW COOP.		GLASGOW KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
7-15-22S	30891	7.5	15.8	22.5		102
7-15-22S	30893	7.8	14.8	23.5		101
8-26- 2M	30889	8.8	27.4	3.9		107
12-10-26S	30892	11.8*	9.4*	28.4		97*
12-24- 6S	30894	8.6*	14.4*	22.5		85*
23-11-11M	30890	23.0*	13.5	12.5		103
S. S. GREENVILLE SERVICE		GREENVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
8- 8-13S	31487	9.9	10.7	14.3	*	116
10-27-24M	31489	10.5	26.9*	25.6		100
11-24-23M	31488	11.8	23.9	24.0		99
S S COOP-HARDINSBURG SERVICE		HARDINSBURG KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
13-20-20S	31113	10.1*	12.2*	29.9		84*
16-16-16M	31114	16.4	16.2	14.8*		100
S S HARRRODSBURG COOP		HARRRODSBURG KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
4-23-21M	31148	5.6	23.2	21.1		103
16-16-16M	30977	16.3	16.2	16.1		101
25- 8- 8M	31149	22.2*	7.9	8.0		91*
S. S. HENDERSON COOP.		HENDERSON KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-15-40M	31486	0.0	17.8	37.8*		104
0-23-30M	31166	0.0	23.4	30.7		102
12-13-12M	29756	10.8*	14.3	9.6*		90*
23-11-11M	31165	23.6	12.5	11.2*		103
S. S. HOPKINSVILLE COOP.		HOPKINSVILLE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
14-14-21S	31468	13.0*	11.8*	24.4		94*
16-17-16S	31467	16.5	14.8*	18.1		97*
S. S. HORSE CAVE COOP.		HORSE CAVE KY.				
GRADE	NUM	N	APA	POT	XS CL	RV
0-24-24M	30518	0.0	24.2*	26.4		101
0-25-25M	30519	0.0	29.6	21.9*		105
0-25-25M	30527	0.0	24.6*	25.1		99
0-26-26M	30517	0.0	29.0	23.1*		104
0-29-19M	30520	0.0	30.0	19.9		101

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per cent or less indicated by asterisk.

S. S. HORSE CAVE COOP.		HORSE CAVE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
4-19-19M	30884	6.1	23.3	27.8			130
5-20-20M	31129	5.8	21.6	21.5			106
5-22-22M	30883	6.0	23.8	29.6			112
13-27- 0	31152	13.7	28.0	0.0			100
16-14-10M	31130	16.2	15.4	10.4*			102
17-17-17M	30885	16.4*	16.6*	21.8			99
20-13- 6M	31151	19.9	13.3	7.5			99
S. S. IRVINGTON SERVICE		IRVINGTON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
17-17-17M	31123	18.8	16.3*	16.9			103
S. S. LEBANON COOP.		LEBANON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
13-15-23S	31345	13.3	15.2	22.5*			100
14-14-14M	31343	15.6	14.8	14.2*			102
17- 7-20M	31449	17.2	8.5	18.4*			100
17-12-18S	31344	17.0	12.7	18.9			100
17-19- 3S	31450	20.6	15.8*	3.2			102
S. S. LEITCHFIELD COOP.		LEITCHFIELD		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-12-34M	31099	8.8	17.5	27.3*			114
S S MADISONVILLE COOP		MADISONVILLE		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-15-40M	31271	0.0	16.2	38.3*			100
0-18-36M	31270	0.0	19.0	35.0*			101
0-21-32M	31052	0.0	18.9*	36.4			99
6-18- 6M	29808	6.6	18.3	4.9*			102
6-18- 6M	30113	6.8	19.3	7.5			110
6-18- 6M	31469	5.9	17.7	7.3			101
6-26-25M	30838	7.4	29.4	22.6*			107
6-26-26M	29639	6.7	26.8	24.9*			101
6-26-26M	30839	6.7	25.9	27.1			102
17-17-17M	30837	18.4	18.4	16.7*			103
S. S. MORGANFIELD COOP		MORGANFIELD		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-31-18M	31054	0.0	35.5	15.5*			106
3-26- 8M	29700	4.6	29.5	8.1			114
4-18-18M	29699	5.8	21.7	22.2			122
S. S. OWENSBORO COOP.		OWENSBORO		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
6-27-27M	30752	6.7	26.2*	30.0			98
6-27-27M	30756	6.8	26.9*	29.3			100
9-15-15M	29755	10.2	18.1	16.6			111
15- 6-10S	31369	14.7*	6.5	10.7			97*
S. S. RUSSELLVILLE COOP.		RUSSELLVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
5-20-20M	29863	5.1	20.0	19.4*			100
6-12-12M	29861	6.1	12.0	12.0			100
10-10-10M	29862	9.9	10.3	10.2			101
S. S. SHELBYVILLE COOP.		SHELBYVILLE		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-10-46M	31398	0.0	14.7	41.2*			105
0-17-35M	31015	0.0	19.7	33.5*			103
5-21-21M	31014	5.2	24.2	20.3*			102
7-15-22S	31017	7.5	16.7	21.4*			102
14-14-14M	31013	14.0	15.0	15.3			102
18- 8-17M	31399	18.4	9.2	17.0			102
23- 0-20M	31018	22.4*	0.0	20.4			98

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

S. S. SIMPSON COOP.		FRANKLIN KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
4-18-18M	29713	6.0	22.5	19.5			122
11-24-24M	31040	12.2	24.7	24.5			102
17-12-18S	31044	17.5	10.5*	19.2			98
18-11-17S	31043	17.9	13.0	17.4			102
19-12-12M	31041	18.8*	13.0	13.0			98
19-15-15M	31042	19.5	16.5	15.7			101
S. S. SOMERSET COOP.		SOMERSET KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
5-21-21M	30948	6.7	22.1	20.6*			103
9-18-18M	30950	10.0	19.6	17.5*			102
17- 8-17M	30949	18.9	8.7	16.1*			102
S. S. TODD SERVICE		ELKTON KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-30-20M	29629	0.0	31.5	19.9			102
6-25-26M	31518	7.0	26.8	25.9			103
7- 9-13S	30932	7.2*	9.7	15.1			103
SPENCER FARM SERVICE		TAYLORSVILLE KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
21- 9- 9M	31085	21.1	10.5	10.1			103
SPRINGFIELD FARMERS SERVICE		SPRINGFIELD KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
11-13-19S	31144	11.2	11.9*	20.6			99
12-12-18S	31145	12.1	11.0*	19.8			97*
14-14-14M	31143	15.0	14.6	14.1*			99
20-10-10M	31142	22.8	10.6	10.0*			107
23- 0-19M	31146	22.9	0.0	18.4*			98
STANLEY CROP SERVICE		STANLEY KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
6-24-24M	31365	5.6*	24.2	22.9*			98
6-26-26M	31366	5.9	26.6	26.1			101
9-10-15S	30901	10.0	10.0*	19.0			106
11- 9-14S	30929	12.8	8.8*	12.6*			100
14-14-21S	30753	14.3	12.9*	22.3			99
STEWART FERTILIZER SERVICE		MT. VERNON KY.			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	29555	0.0	20.8	20.4			103
4-19-19M	30709	5.4	21.0	18.7*			107
5-10-15S	30046	6.0	12.6	14.2*			114
5-10-15S	30072	5.4	9.9	14.0*			100
5-10-15S	30706	5.5	11.0	14.5*	*		106
5-10-15S	31079	5.6	11.0	15.4	*		108
5-20-20M	29965	4.2*	18.1*	21.8			94*
5-20-20M	30047	6.9	25.1	17.2*			118
5-20-20M	30461	5.2	20.1	20.3			102
5-20-20M	30708	5.7	23.6	20.1			112
5-20-20M	30710	13.7	20.4	3.8*			114
5-20-20M	30711	13.7	20.8	3.6*			115
5-20-20M	31080	5.5	20.4	18.1*			101
6- 6-18S	30073	6.3	6.6	17.9			104
6- 6-18S	30707	4.8*	6.3	19.7			97*
6-12-12M	30277	6.5	12.7	12.4			106
6-12-18S	30071	6.3	11.9	17.2*			100
6-12-18S	30459	6.0	13.8	19.0			107
10-10-10M	30048	9.4*	8.8*	10.1			93*
10-10-10M	30054	8.9*	7.9*	12.3			91*
10-10-10M	30278	10.1	10.4	10.8			103
10-10-10M	30458	4.4*	8.9*	20.3			85*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

STEWART FERTILIZER SERVICE		MT. VERNON		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10M	30460	6.2*	9.2*	17.2			90*
10-10-10M	31189	9.6*	9.9	9.8			97*
10-10-10M	31218	9.6*	9.9	10.0			97*
10-10-20M	29966	9.5*	8.7*	20.7			95*
15-15-15M	31298	15.0	15.9	13.6*			100
18-46-0	29662	17.5*	45.9	0.0			99
SWIFT AGRI CHEM CORP		CHICAGO		ILL		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25M	30246	0.0	26.0	22.8*			100
0-25-25M	30251	0.0	30.2	18.9*			106
3-12-12M	31262	3.6	12.5	10.7*			103
4-12-8M	31259	3.8	10.6*	8.4			93*
4-16-4S	30254	5.2	11.5*	5.4			91*
5-10-10M	31260	4.4*	10.0	10.4			97*
5-10-15S	30253	4.3*	12.2	15.6	*		106
5-10-15S	31293	4.8	10.6	16.4	*		104
5-20-20M	29777	4.6*	21.7	19.9			103
5-20-20M	30128	4.4*	21.4	20.6			102
5-20-20M	30245	4.9	19.8	17.9*			96*
5-20-20M	30252	5.3	20.0	20.1			101
5-20-20M	30464	5.0	23.4	17.4*			106
6-12-12M	29886	4.5*	9.1*	8.6*			74*
6-12-12M	30129	7.3	15.2	15.0			124
6-12-18S W/ME	29942	5.7*	12.1	18.4	*		99
6-12-18S W/ME	30945	5.9	12.5	16.9	*		102
10-10-10M	30127	9.3*	9.9	11.5			98
10-10-10M	30463	10.3	10.4	9.9			103
10-10-10M	30836	9.3*	12.4	12.7			109
10-10-10M	30943	10.6	11.8	11.4			111
10-10-10M	31300	9.8	10.0	10.1			99
10-10-10M	31305	10.0	16.2	10.1			121
10-20-10M	30462	9.9	20.8	9.9			101
10-20-20M	31261	9.4*	19.8	20.5			98
12-24-24M	29648	10.5*	21.6*	23.5*			91*
12-40-0	31291	11.9	41.3	0.0			102
SWIFT AGRICULTURAL CHEM CORP		CINCINNATI		OHIO		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25M	31228	0.0	21.4*	19.5*			83*
5-10-15S	30698	4.9	12.5	16.7	*		112
5-10-15S	31230	4.7*	10.2	15.8			100
10-10-10M	31229	9.8	12.3	12.0			110
SWIFT FARM CENTER		CLINTON		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
11-28-6M	31290	11.7	24.8*	5.7*			94*
SWIFT FARM CENTER		E BERNSTADT		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25M	31498	0.0	26.9	23.3*			103
5-20-20M	31499	5.0	20.3	21.0			102
10-10-15S	31500	9.5*	10.3	13.3*			96*
16-16-16M	30712	16.7	19.0	15.0*			107
20-12-12M	31301	19.2*	12.4	12.9			97*
SWIFT AGRICULTURAL CHEM CORP		E ST LOUIS		ILL		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10M	31101	10.3	10.2	11.2			104
12-12-12M	30287	12.4	13.1	12.3			105
15-15-15M	31100	14.1*	13.1*	16.0			94*

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cent or less indicated by asterisk.

SWIFT AGRICULTURAL CHEM CORP		HOPKINSVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
4-12- 8M	30513	3.9	12.0	8.1		100
4-16- 4S W/ME	30368	4.9	14.6*	4.4		100
5-10-15S	29855	6.3	11.5	14.2*		112
5-10-15S	30078	7.7	11.1	10.5*	*	112
5-10-15S	30436	7.6	11.3	11.4*	*	113
5-10-15S	30515	4.7*	9.9	13.5*		95*
5-10-15S	31537	6.0	11.0	15.7		111
5-20-10M	30438	4.4*	17.0*	10.4		89*
5-20-20M	29623	5.8	20.6	18.0*		102
5-20-20M	29678	4.0*	19.9	20.1		96*
5-20-20M	29768	7.2	25.0	20.2		101
5-20-20M	29856	6.1	25.4	21.6		116
5-20-20M	30223	5.0	18.6*	20.4		97*
5-20-20M W/ME	29618	3.6*	15.8*	19.7		83*
5-20-20M W/ME	30096	5.1	18.8*	19.6*		97*
5-20-20M W/ME	30370	5.9	22.1	19.2*		108
6-12-12M	29558	7.0	15.5	11.2*		117
6-12-12M	29624	4.8*	10.5*	12.8		89*
6-12-12M	29679	7.6	16.7	13.6		129
6-12-12M	29762	5.9	12.4	11.9		101
6-12-12M	29857	6.6	15.0	12.8		116
6-12-18S	31536	7.1	13.3	19.3		111
6-12-18S W/ME	29987	6.3	11.1*	16.3*		95*
6-12-18S W/ME	30355	5.0*	8.9*	17.8		84*
6-12-18S W/ME	30812	7.3	13.3	18.0		110
6-12-18S W/ME	30930	6.0	14.6	17.9	*	108
6-18-12M	29622	6.2	21.6	10.9*		110
6-18-12M	29761	6.2	18.0	12.0		101
6-18-12M	30224	6.3	16.7*	12.4		98
6-24-18M	29677	4.6*	19.5*	18.5		85*
6-24-24M	30354	6.0	22.5*	20.5*		92*
6-24-24M	30437	5.6*	23.4*	25.2		98
6-24-24M	31377	5.6*	23.9	27.7		103
6-24-24M	31466	6.1	23.9	23.9		100
6-24-24M	31535	6.6	22.5*	21.5*		96*
6-24-24M W/ME	30552	7.7	26.7	14.0*		100
8-32-16M	30367	7.8	29.2*	16.8		95*
10-10-10M	29557	10.8	12.1	9.5*		110
10-10-10M	29727	9.8	13.2	10.4		110
10-10-10M	29763	11.9	12.6	12.3		122
10-10-10M	30077	10.5	11.2	10.6		108
10-10-10M	30097	10.6	11.2	9.0*		105
10-10-10M	30369	10.2	9.9	10.3		101
10-10-10M	30553	9.4*	7.2*	12.3		91*
10-10-10M	30825	9.8	8.5*	11.1		96*
10-10-10M W/ME	31534	10.5	12.2	12.6		114
10-10-15S W/ME	30931	10.7	9.9	15.5		103
10-10-15S W/ME	31378	8.2*	8.4*	13.2*		84*
10-20-20M	29728	9.6*	21.5	21.0		103
15-15-15M	30514	14.9	14.2*	15.1		98
TEATER & CASSITY FARM SERVICE		NICHOLASVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
9- 9-26S	31444	9.0	9.5	26.9		101
16- 9-14S	31186	16.4	9.2*	14.6		98
17- 0-30M	30778	16.2*	0.0	31.8		99

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

TOBACCO STATES CHEMICAL CO.		LEXINGTON		KY.		XS	CL	RV
GRADE	NUM	N	APA	POT				
10-20-10S	30777	10.8	20.3	10.2				104
TODD COUNTY GRAIN CO		ELKTON		KY		XS	CL	RV
GRADE	NUM	N	APA	POT				
3-10-30M	31385	3.3	9.7*	27.0*				96*
USS AGRI-CHEMICALS, INC.		ATLANTA		GA.		XS	CL	RV
GRADE	NUM	N	APA	POT				
0-20- 0	30359	0.0	20.3	0.0				102
0-25-25M	29816	0.0	23.0*	26.0				96*
0-25-25M	30040	0.0	22.4*	26.6				95*
0-25-25M	30358	0.0	23.5*	24.8				96*
0-46- 0	29554	0.0	44.3*	0.0				96*
3-12- 6M	30860	4.3	12.7	9.5				122
5-10- 5S	30103	4.8	10.9	8.8		*		113
5-10- 5S	30232	5.9	9.7*	7.3		*		111
5-10- 5S	30376	5.8	9.9	5.7				107
5-10- 5S	30377	5.9	9.2*	6.4				106
5-10- 5S	30861	5.0	11.0	7.8		*		112
5-10-10M	30102	5.3	10.6	10.5				106
5-10-15S	29817	5.6	10.6	16.7		*		109
5-10-15S	29836	5.5	9.7*	14.2*				100
5-10-15S	29866	5.4	10.5	17.0		*		108
5-10-15S	30098	5.2	11.3	14.9				106
5-10-15S	30137	5.3	10.6	16.2				107
5-10-15S	30321	5.2	11.0	15.3				106
5-10-15S	30488	5.0	10.9	15.9				105
5-10-15S	30491	4.9	10.1	14.4*		*		98
5-10-15S	30503	6.1	10.2	13.6*		*		104
5-10-15S	31067	5.3	10.3	14.5*				102
5-10-15S	31429	5.0	11.0	16.3				106
5-20-20M	29590	5.1	18.9*	19.5*				97*
5-20-20M	29945	5.1	19.5*	20.4				99
5-20-20M	30042	5.3	19.4*	20.6				100
5-20-20M	30101	5.3	18.6*	20.1				97*
5-20-20M	30472	4.8	19.1*	22.9				100
5-20-20M	30786	4.9	18.0*	22.9				98
6-12-12M	29739	6.0	12.2	11.0*				99
6-12-12M	29997	7.0	10.9*	12.6				103
6-12-12M	30146	6.4	11.0*	11.7				98
6-12-12M	30487	6.0	11.5*	15.1				104
6-12-12M	30501	5.9	11.3*	13.3				99
6-12-12M	30799	6.9	10.6*	13.8				103
6-12-12M	30858	6.5	12.1	12.6				104
6-12-12M	31068	5.8	12.2	13.2				102
6-12-18S	29702	5.9	11.9	18.4				100
6-12-18S	29837	6.1	11.9	18.0				100
6-12-18S	29881	6.0	12.1	17.9				100
6-12-18S	30100	6.7	12.3	17.3*		*		103
6-12-18S	30473	6.4	11.3*	17.7		*		99
6-12-18S	30489	6.0	12.3	18.5		*		102
6-12-18S	30570	6.1	12.3	18.0				101
6-12-18S	30764	5.7	11.8	17.7				97*
6-12-18S	30800	6.2	12.7	17.7				103
6-12-18S	31065	6.9	11.0*	17.0*		*		99
6-12-18S	31214	5.3*	11.9	18.6				97*
6-12-18S	31215	5.6*	11.7	18.7				98
6-24-24M	29682	5.7	25.5	21.3*				99
8-10-15S	30486	7.9	10.0	15.3				100

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

USS AGRI-CHEMICALS, INC.		ATLANTA		GA.		XS CL	RV
GRADE	NUM	N	APA	POT			
8-16-16M	29998	6.9*	16.8	19.0			102
8-16-16M	30360	6.9*	13.7*	13.7*			86*
8-16-16M	30471	8.9	16.1	14.8*			102
8-16-16M	31457	8.9	16.0	15.5*			103
8-32-16M	30900	8.9	32.9	16.6			105
10-10-10M	29589	9.9	10.9	12.2			106
10-10-10M	29703	9.9	10.9	12.6			106
10-10-10M	29707	9.9	10.8	1.6			104
10-10-10M	29708	9.9	11.7	13.5			111
10-10-10M	29740	8.9*	11.5	9.9			99
10-10-10M	29840	9.9	10.7	10.5			102
10-10-10M	29999	9.4*	10.9	12.0			103
10-10-10M	30041	9.9	10.9	10.8			104
10-10-10M	30490	8.8*	10.9	15.1			105
10-10-10M	30571	9.9	10.5	11.4			103
10-10-10M	30573	9.5*	10.9	13.7			106
10-10-10M	30585	9.7	11.0	12.3			106
10-10-10M	30859	10.9	9.8	8.7*			102
10-10-10M	31066	10.2	10.7	11.1			105
10-10-10M	31141	9.2*	10.9	11.6			101
10-10-10M	31213	9.2*	13.4	12.3			111
10-10-10M	31428	9.8	9.2*	12.2			100
10-10-20S	29706	9.1*	9.9	18.7*	*		94*
10-10-20S	29796	8.9*	9.9	20.1	*		95*
10-20-10S	31541	10.2	20.0	16.0			108
12-12-12M	29619	11.7	11.6*	12.6			98
12-12-12M	30801	14.0	9.0*	11.2*			99
12-12-18S	30099	10.8*	11.6*	19.0			96*
12-24-24M	31073	10.6*	19.3*	28.9			92*
30- 0- 0	31440	25.8*	0.0	0.0			86*
USS FARM SERVICE CENTER		CAMPBELLSVILLKY				XS CL	RV
GRADE	NUM	N	APA	POT			
18-13-12M	30967	17.0*	12.3*	16.3			98
19-10-10M	31342	17.8*	11.5	13.9			98
21-13-13M	30966	20.0*	12.4*	18.1			98
USS AGRI-CHEMICALS, INC.		CHEROKEE		ALA.		XS CL	RV
GRADE	NUM	N	APA	POT			
7-28-28M	29593	7.5	28.4	27.8			102
7-28-28M	29605	7.6	30.0	24.6*			102
7-28-28M	29631	7.1	27.7	28.2			100
7-28-28M	29633	7.1	28.2	27.3*			100
7-28-28M	29651	7.0	28.3	25.8*			98
7-28-28M	29714	7.3	28.0	27.9			101
7-28-28M	29771	7.2	27.9	26.7			99
7-28-28M	29772	7.5	31.3	24.0*			104
7-28-28M	29793	7.5	28.4	25.0*			99
7-28-28M	29882	7.2	28.9	25.4*			100
7-28-28M	29973	6.9	27.6	27.9			99
7-28-28M	29974	7.6	27.0*	27.9			100
7-28-28M	30036	7.5	27.5	27.9			100
7-28-28M	30114	8.1	28.1	25.4*			101
7-28-28M	30215	7.2	28.8	26.9*			101
7-28-28M	30289	7.6	28.2	26.8*			101
7-28-28M	30342	7.1	28.8	25.7*			99
7-28-28M	30626	7.2	27.9	27.2*			100
7-28-28M	30899	7.0	26.8*	27.1*			97*
7-28-28M	31133	7.0	27.4*	27.8			99

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 percent or less indicated by asterisk.

USS AGRICHEMICALS, INC.		CHEROKEE		ALA.		XS CL	RV
GRADE	NUM	N	APA	POT			
7-28-28M	31437	7.2	27.1*	28.8			99
7-28-28M W/ME	31529	7.4	28.0	27.9			101
8-32-16M	30374	8.7	32.9	15.8			104
14-14-14M	29630	14.4	15.5	13.7			105
14-14-14M	29769	14.1	14.8	14.6			103
14-14-14M	29770	12.8*	15.4	13.4*			98
14-14-14M	29782	13.4*	13.9	14.7			98
14-14-14M	29792	14.1	15.9	13.3*			104
14-14-14M	29838	14.5	14.2	14.7			103
14-14-14M	30210	14.6	13.9	15.1			103
14-14-14M	30327	14.8	15.3	14.1			106
14-14-14M	31179	13.9	14.8	14.8			102
14-14-14M	31216	14.5	11.4*	19.2			98
14-14-14M	31340	14.2*	15.2	16.2			100
14-14-14M	31341	13.4*	14.5	18.0			98
14-14-14M W/ME	30627	13.6*	14.8	14.9			101
15-40-5M	29839	16.3	43.5	4.9			108
15-40-5M	30035	15.7	40.1	5.9			102
15-40-5M	30372	16.1	40.2	5.2			103
18-46-0	29704	17.2*	44.7*	0.0			97*
82-0-0	31483	81.4	0.0	0.0			99
USS AGRICHEMICALS		FRANKLIN		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
11-22-22M	31045	13.0	21.3*	21.4*			99
20-14-14M	30343	21.5	13.1*	12.8*			101
USS AGRICHEMICALS INC		HARDINSBURG		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
4-20-20M	31111	5.7	18.4*	22.4			102
7-16-10M	31112	7.7	16.0*	11.0			102
10-10-10M	31109	10.9	10.0	13.1			106
10-10-10M	31110	10.3	10.1	13.9			106
USS AGRICHEMICALS, INC.		JEFFERSONVILLIND.		POT	XS CL	RV	
GRADE	NUM	N	APA				
5-10-5S	30060	5.6	10.6	7.7	*	114	
5-10-10M	30183	5.2	11.7	12.3		114	
5-10-10M	30602	5.7	9.6*	10.6		104	
5-10-15S	29666	4.9	9.9	15.5		100	
5-10-15S	30056	5.0	10.1	14.3*		99	
5-10-15S	30155	5.9	11.6	15.9		114	
5-10-15S	30159	5.2	11.5	15.0		107	
5-10-15S	30163	5.2	10.5	16.2		105	
5-10-15S	30168	6.1	10.1	14.3*	*	105	
5-10-15S	30415	4.9	9.9	14.0*		97*	
5-10-15S	30598	5.3	9.9	15.3		102	
5-10-15S	30680	5.9	11.0	16.6	*	113	
5-10-15S	30744	5.2	10.3	16.0		104	
5-10-15S	31105	5.7	9.9	14.8		104	
5-20-20M	29873	5.4	19.4*	20.5		101	
5-20-20M	30160	5.2	19.7	19.9		100	
5-20-20M	30170	5.5	20.3	19.1*		101	
5-20-20M	30184	5.0	19.9	21.4		102	
5-20-20M	30420	5.4	19.9	22.3		104	
5-20-20M	30430	5.2	19.1*	19.7		98	
5-20-20M	30604	5.0	18.3*	23.0		99	
5-20-20M	30797	5.3	19.1*	20.8		100	
5-20-20M	31091	5.8	20.3	18.8*		102	
5-20-20M	31325	4.9	18.6*	20.6		97*	



**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

USS AGRI-CHEMICALS, INC.		JEFFERSONVILLIND.				
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-12M	29718	5.9	12.1	11.0*		98
6-12-12M	30182	6.4	12.1	11.4*		101
6-12-12M	30428	6.8	11.1*	13.1		103
6-12-12M	30594	6.2	11.5*	12.9		101
6-12-18S	30058	5.9	12.1	16.2*		97*
6-12-18S	30161	6.3	13.1	16.7*		103
6-12-18S	30171	6.1	11.9	18.5		101
6-12-18S	30599	6.2	11.9	17.5*		100
6-12-18S	30677	6.1	11.8	18.2		100
6-12-18S	30678	6.0	12.0	18.4		101
6-12-18S	30742	6.2	12.0	18.1		101
6-12-18S	31083	6.1	12.2	18.7		102
6-24-24M	30167	5.9	24.6	21.4*		98
6-24-24M	30257	5.6*	25.0	23.6		100
7-40- 5M	30798	7.1	38.2*	7.0		99
7-40- 5M	31107	6.7	38.6*	5.8		97*
8-16-16M	30382	7.9	15.9	17.0		101
10-10-10M	29588	10.1	11.0	14.6		111
10-10-10M	29820	9.2*	10.5	10.7		99
10-10-10M	30059	10.0	12.0	11.6		109
10-10-10M	30117	11.2	10.5	9.9		107
10-10-10M	30156	9.9	11.4	11.3		106
10-10-10M	30169	8.7*	11.5	15.1		107
10-10-10M	30186	9.9	10.5	12.1		105
10-10-10M	30421	8.7*	10.4	12.2		98
10-10-10M	30603	10.9	10.5	9.6*		106
10-10-10M	30675	9.1*	10.5	10.1		97*
10-10-10M	30679	10.7	10.9	10.0		106
10-10-10M	30743	10.8	10.3	10.7		106
10-10-10M	31084	8.7*	10.9	16.2		107
10-10-10M	31106	10.3	10.5	10.2		103
10-10-20S	30057	9.2*	10.4	21.4		100
10-10-20S	30676	10.0	8.3*	19.5*		95*
12-12-12M	29587	11.6*	11.8	11.9		97*
12-12-12M	29874	11.3	12.0	13.1		101
12-12-12M	30195	11.9	12.2	13.4		102
12-12-12M	30256	11.4*	12.0	12.6		98
12-12-12M	30429	10.7*	11.9	13.4		96*
12-12-18S	30162	11.4*	12.7	17.9	*	99
13-13-13M	30425	12.3*	13.6	14.2		100
30- 0- 0	31530	30.0	0.0	0.0		100
USS AGRI-CHEMICALS INC		LAGRANGE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
6-12-18S	30422	6.1	12.9	16.7*		101
USS AGRI-CHEMICALS, INC.		NASHVILLE TENN				
GRADE	NUM	N	APA	POT	XS CL	RV
3-12-24M	30371	3.0	13.7	23.9		106
3-12-24M	31384	3.3	11.8	23.4*		99
5-10- 5M	30880	6.0	9.9	8.0		114
5-10- 5S	30116	5.9	10.5	7.3		115
5-10- 5S	30723	5.7	10.0	6.4		109
5-10-10M	29732	5.2	10.2	10.8		104
5-10-10M	29734	5.2	10.3	11.0		105
5-10-10M	30722	5.6	10.0	10.3		105
5-10-15M	31132	6.2	9.4*	14.6		104
5-10-15S	30373	5.5	9.9	14.5*		102
5-10-15S	30529	5.2	9.2*	15.7		99

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USS AGRI-CHEMICALS, INC.		NASHVILLE		TENN		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15S	30879	5.9	9.5*	14.7			103
5-20-20M	29716	5.4	19.6*	20.8			101
6-12-12M	29562	6.0	12.5	11.7			101
6-12-12M	29632	6.3	11.8	11.5*			99
6-12-12M	30291	6.8	11.6*	11.9			103
6-12-12M	30878	6.4	12.0	12.8			104
6-12-12M	31178	5.7*	11.9	12.2			98
6-12-12M	31350	6.0	11.9	11.4*			98
6-12-18S	30288	6.2	12.0	17.6			100
6-12-18S	30724	6.1	11.8	17.4*			99
6-12-18S	30830	6.2	12.4	17.4*			101
6-24-24M	29733	6.1	22.4*	23.9			97*
8-24-24M	30115	8.8	20.2*	20.7*			91*
8-24-24M	30432	8.6	20.2*	23.6			93*
8-24-24M	30433	8.5	20.5*	23.2*			93*
8-24-24M	30434	8.2	23.5*	23.2*			99
8-24-24M	30725	8.8	22.7*	21.1*			97*
8-24-24M	30829	8.6	24.3	24.4			103
8-24-24M	31051	8.7	25.5	22.8*			104
10-10-10M	29577	10.3	11.5	10.5			107
10-10-10M	29717	10.4	9.9	9.9			102
10-10-10M	30290	10.2	10.2	9.8			101
10-10-10M	30528	9.1*	11.2	13.2			104
12-16-16M	30536	11.7	16.7	17.0			99
16-16-16M	30535	16.8	17.5	16.8			101
17-17-17M	29712	18.7	15.2*	15.9*			99
33- 0- 0	29781	33.8	0.0	0.0			101
USS AGRI-CHEMICALS INC		SCIENCE HILL KY				XS CL	RV
GRADE	NUM	N	APA	POT			
4-20-20M	31217	4.3*	17.1*	27.6			99
17-17-17M	30516	16.3*	15.9*	19.4			98
USS FARM SERVICE CENTER		UTICA		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-26-26M	31372	0.0	24.9*	27.6			99
UNION FERTILIZER CO		MORGANFIELD		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-18-36M	29649	0.0	23.7	30.4*			107
0-23-29M	31056	0.0	21.4*	33.9			100
0-26-26M	31059	0.0	24.2*	30.1			101
0-27-23M	31057	0.0	25.6*	28.4			100
0-27-26M	29764	0.0	28.4	25.0*			101
0-29-21M	30538	0.0	29.4	22.2			101
8-21-16M	30539	9.2	21.3*	18.2			104
WARNER FERTILIZER COMPANY		SUMERSET		KY.		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20M	29671	0.0	19.0*	21.4			99
0-20-20M	30575	0.0	20.9	19.1*			101
0-25-25M	30951	0.0	24.2*	24.9			98
5-10-15M	30952	5.8	9.9	11.7*			98
5-10-15S	29846	6.4	11.7	15.4			116
5-10-15S	30143	6.4	11.7	14.8			115
5-10-15S	30851	5.7	9.8	13.5*			100
5-20-20M	29814	5.2	17.9*	18.3*			93*
5-20-20M	30008	4.9	18.8*	20.8			97*
5-20-20M	30395	3.0*	11.7*	22.0			72*
5-20-20M	30760	5.7	24.4	17.8*			112
5-20-20M	30942	5.7	18.2*	20.3			98

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WARNER FERTILIZER COMPANY		SOMERSET			KY.	
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20M	30953	5.8	25.6	19.0*		117
6-12-12M	29746	9.3	21.7	10.7*		152
6-12-12M	30009	6.3	13.0	10.5*		102
6-12-12M	30145	6.8	11.9	11.9		104
6-12-12M	30398	5.8	11.6*	13.0		99
6-12-12M	31306	3.3*	12.0	13.7		88*
6-12-18S	29844	9.0	17.7	19.9		137
8-12-16S W/ME	30761	10.5	15.0	17.8	*	124
10-10-10M	29745	10.0	9.9	13.6		105
10-10-10M	29845	8.7*	6.8*	9.2*		81*
10-10-10M	30007	9.6*	7.3*	9.1*		87*
10-10-10M	30144	10.1	9.9	8.1*		97*
10-10-10M	30396	10.2	10.3	10.9		103
10-10-10M	30954	12.2	11.4	11.6		118
10-10-10M	30955	12.1	12.3	10.3		119
10-10-20S	30844	6.8*	19.2	23.6	*	118
10-20-20M	29701	12.7	26.7	15.2*		118
12-24-12M	30574	10.3*	18.7*	14.8		86*
15-15-15M	30852	15.4	17.5	14.6*		106
16-16-16M	30397	18.3	20.8	13.1*		114
WILLCHEMCO INC		TULSA			OKLA	
GRADE	NUM	N	APA	POT	XS CL	RV
6-24-24M	30076	6.0	23.9	23.9		100
6-24-24M	30080	6.2	23.2*	24.0		99
6-24-24M	30544	6.0	24.1	24.0		100
15-15-15M	29583	15.3	16.9	14.9		105
15-15-15M	29759	15.1	15.6	14.9		102
15-15-15M	30079	14.7	14.0*	16.9		99
15-42-6M	30353	15.0	42.7	6.7		102
WILLCHEMCO INC		IRVINGTON			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
4-12-7M	31115	4.6	12.8	6.5*		105
12-12-16S W/ME	30258	12.1	12.4	16.3		102
15-15-15M	31116	14.3*	13.7*	16.6		96*
30-0-0	31117	29.8	0.0	0.0		99
WILLCHEMCO INC		BOWLING GREEN			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
9-19-19M	31175	10.3	23.3	21.5		115
12-40-0	31174	14.7	40.7	0.0		107
WILLCHEMCO INC		CECILIA			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-26-26M	30866	0.0	24.2*	29.2		99
0-31-15M	30867	0.0	30.8*	16.3		98
1-12-11M	30872	1.7	14.0	12.2		114
5-10-15S	30030	5.1	9.7*	15.6		100
5-10-15S	30865	5.1	9.8	14.4*		99
5-19-20M	30868	5.1	18.9*	21.9		100
5-19-20M	30870	4.9	18.8*	20.9		98
5-20-20M	30032	6.6	23.1	15.4*		109
5-20-20M	30361	5.6	21.0	19.3*		104
6-12-12M	30034	6.8	12.0	12.2		104
10-10-9M	30871	10.5	10.7	11.0		107
10-10-10M	30031	10.4	10.3	9.3*		101
12-24-24M	30352	11.3*	24.9	20.6*		96*
15-15-15M	30033	15.8	15.3	14.0*		102
15-15-15M	30351	15.1	15.0	15.1		100
16-19-19M	30864	11.3*	12.8*	11.2*		66*

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

WILLCHEMCO INC		CLARKSON			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
4-18-18M	30876	5.2	20.0	14.0*		103
5-10-15S	31348	4.9	10.6	15.3		102
5-20-20M	30877	4.8	16.6*	24.5		96*
5-20-20M	31349	4.8	20.4	20.7		101
5-20-20M	31523	5.3	21.0	21.0		105
10-10-10M	31524	10.7	12.0	9.9		110
11-12-12M	31124	7.1*	7.8*	7.6*		62*
15-15-15M	30512	16.2	16.3	13.3*		105
WILLCHEMCO INC		CLAY			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
7-18-36M	31274	7.0	18.5	37.1		102
7-18-36M	31276	7.2	18.2	36.9		102
13-21-14M	31275	13.4	21.3	16.5		102
19-19-19M	29741	18.9	22.5	17.2*		104
WILLCHEMCO INC		HARTFORD			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-28-22M	31351	0.0	28.5	22.2*		99
0-28-23M	31352	0.0	28.8	22.6		99
WILLCHEMCO INC		HENDERSON			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20M	31531	0.0	15.0*	24.5		90*
5-10-15S	30827	5.6	10.6	16.0	*	108
5-10-30M	29599	4.4*	8.2*	32.2		95*
5-20-20M	29652	5.7	23.2	13.8*		103
5-20-30M	31484	4.1*	20.7	26.8*		95*
6-24-24M	29758	6.3	23.4*	23.0*		99
6-24-24M	30543	5.8	23.3*	23.2*		97*
6-24-24M	31277	5.9	25.8	22.3*		102
6-24-24M	31485	5.3*	23.9	25.0		98
7-18-36M	29611	8.2	21.6	32.0*		107
7-18-36M	31278	5.7*	16.5*	36.5		93*
7-18-36M	31538	6.3*	16.4*	35.7		94*
12-36-13M	31279	12.3	36.6	9.7*		99
15-15-15M	30439	14.5*	14.7	7.4*		89*
15-15-15M	30551	14.6*	16.3	15.1		101
15-15-15M	30826	13.6*	15.9	16.9		99
WILLCHEMCO INC		HODGENVILLE			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
20-20-17M	30568	19.8*	20.1	19.4		100
WILLCHEMCO INC		HORSE CAVE			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-25-25M	30522	0.0	20.1*	31.1		95*
3-19-20M	30521	3.3*	21.9	32.3		119
4-16-16M	30523	4.0	15.0*	23.2		104
4-19-19M	30524	4.0*	14.2*	25.0		92*
4-19-19M	30526	4.6	18.4*	32.0		113
5-10-15M	31154	4.9	9.4*	19.8		106
8-33-16M	31156	5.9*	30.2*	21.2		92*
9-35-0	30525	10.9	34.1*	0.0		102
16-7-10S	31155	14.1*	7.0	17.2		99
16-14-14M	30888	16.2	9.3*	19.8		94*
19-19-19M	31153	19.7	18.3*	20.7		102
WILLCHEMCO INC		MORGANFIELD			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-24-27M	30541	0.0	24.1*	29.5		101
0-26-26M	30542	0.0	27.0	26.0		102
3-9-9M	31280	3.3	9.1	9.3		104

**TABLE 1.—Analyses of Inspection Samples of Fertilizers (July 1971 - June 1972)**  
Analyses deficient more than tolerance and relative values of 97 per-  
cent or less indicated by asterisk.

WILLCHEMCO INC		MORGANFIELD KY				
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-10M	31507	4.9	10.1	10.1		100
6-18- 6M	31508	6.0	17.7	6.1		99
10- 5- 5M	29660	10.1	5.3	4.9		102
12- 5- 5M	31055	11.9	5.6	4.8		101
19-19-19M	29650	19.8	22.2	16.1*		103
WILLCHEMCO INC		OWENSBURD KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-23-30M	29790	0.0	25.9	27.2*		104
6-15-40M	31367	6.2	16.5	39.5		103
6-24-24M	29610	4.8*	24.1	22.8*		95*
6-24-24M	29636	5.2*	24.1	22.5*		96*
6-24-24M	29675	4.8*	27.1	19.0*		97*
6-24-24M	29765	4.0*	28.3	23.3*		102
6-24-24M	30754	6.8	22.8*	26.1		102
6-26-26M	31503	6.2	24.9*	28.0		100
10-10-10M	31157	8.6*	12.7	12.2		105
11-31-18M	30755	10.4*	31.6	18.4		98
15-15-15M	29676	11.3*	13.8*	21.3		92*
15-15-15M	30444	14.6	15.7	16.2		102
15-15-15M	30445	15.0	16.3	14.1*		102
15-15-15M	31368	14.5*	15.0	17.4		101
WILLCHEMCO INC		RUSSELLVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
4-25-26M	30805	5.4	25.7	28.0		104
5-20-20M	31171	5.0	22.1	17.0*		102
10-10-15S	31172	10.4	7.2*	14.0*		91*
11-34- 0	30804	16.9	28.4*	0.0		105
27-16-10M	31533	26.9	17.3	11.8		101
WILLCHEMCO INC		SACRAMENTO KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-23-30M	30545	0.0	22.9	31.3		101
9- 9- 9M	29698	9.5	9.7	8.6*		96*
10-10-11M	29799	10.4*	11.4	13.3		102
11-11-11M	29697	11.9	13.5	15.6		115
WILLCHEMCO INC		WALNUT RIDGE ARK				
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15S	31108	5.5	10.2	15.7		105
12-12-16S W/ME	30631	12.3	12.8	16.0		103
WILLIAMS FERTILIZER SERVICE		GLASGOW KY				
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15S	31047	4.0*	14.9	30.8	*	145
16-17-17M	30730	19.8	17.5	14.1*		106
WINCHESTER SALES INC		WINCHESTER KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-10-30M	31418	0.0	14.6	25.3*		109
0-20-30M	31416	0.0	20.4	30.1		101
4- 8-12S	31231	4.8	6.4*	11.3*		93*
10- 0-29M	30803	6.8*	0.0	33.4		89*
11- 0-16M	31233	10.4*	0.0	17.2		98
17-11-11S	31234	17.4	9.9*	9.9*		94*

**TABLE 2.—Average Analysis and Coefficients of Variation of Samples Analyzed. July 1971–June 1972.**

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	4-16-4	2	4.0	15.6	5.0	5.4	8.6	7.1
	5-10-15	3	5.1	10.3	15.3	1.1	1.1	1.4
	5-20-20	4	4.9	20.3	19.6	4.2	1.9	2.6
	6- 6-18	3	6.1	6.0	18.3	4.1	3.3	3.9
	6-12-12	3	6.0	12.5	12.4	2.5	3.3	4.2
	6-24-24	3	6.3	24.1	22.7	4.6	4.0	4.2
	10-10-10	6	9.9	10.5	10.8	4.1	1.8	2.1
	16- 8- 8	5	15.8	8.5	8.5	5.7	4.5	3.8
ALL GRADES	37	% OF GUAR.			CV			
		100.5	102.1	101.0	4.0	3.4	3.5	
BLUEGRASS PLANT FOOD INC. Cynthiana, Kentucky	0-20-20	2	---	18.3	8.4	---	17.4	5.0
	5-10-15	4	5.2	9.5	15.3	4.3	7.7	2.8
	5-20-20	3	5.8	20.1	20.5	8.6	11.2	14.9
	6-12-12	3	6.0	11.9	11.1	1.9	10.2	28.8
	8-10-15	4	6.8	8.4	16.3	15.0	6.3	6.7
	10-10-10	4	9.7	9.9	8.5	4.8	18.8	11.3
	ALL GRADES	32	% OF GUAR.			CV		
			98.6	96.5	100.0	7.0	11.7	11.4
Danville, Kentucky	0-20-20	8	---	18.0	18.5	---	12.7	12.0
	0-25-25	2	---	21.8	19.9	---	5.8	28.9
	4-12- 8	2	4.9	10.8	8.2	24.8	17.0	37.3
	5-10-15	15	5.2	9.9	14.4	7.8	11.5	5.4
	5-20-20	20	4.9	19.3	18.9	15.8	8.5	10.3
	6- 6-18	3	6.5	6.9	16.8	15.5	17.4	2.9
	6-12-12	18	5.9	11.4	11.5	5.3	8.0	9.6
	10-10-10	13	9.8	10.5	10.5	12.2	11.1	21.16
	16-16-16	2	15.1	17.1	13.8	2.8	13.2	4.6
	ALL GRADES	93	% OF GUAR.			CV		
		97.6	96.1	96.3	11.2	10.9	12.9	
BURLEY BELT FERTILIZER CO. Lexington, Kentucky	4-16- 4	2	4.5	15.3	4.7	12.6	0.9	12.0
	5-10-15	6	5.1	9.9	15.1	5.6	4.8	2.0
	5-20-20	4	5.3	19.2	19.5	9.4	3.5	3.3
	6- 6-18	3	5.5	6.4	17.1	2.8	2.4	1.7
	6-12-12	2	6.1	11.6	12.4	3.5	4.3	6.3
	6-12-18	2	6.0	11.9	17.7	2.4	3.0	2.4

**TABLE 2.—Average Analysis and Coefficients of Variation of Samples Analyzed. July 1971–June 1972.**

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, Kentucky	8-10-15	3	8.2	9.7	15.1	3.7	3.6	4.4
	10-10-10	13	10.0	9.9	9.9	3.2	7.1	7.1
	12-12-12	4	12.0	11.9	12.2	2.0	2.6	3.1
	ALL GRADES	45	% OF GUAR.			CV		
			99.2	99.1	98.9	4.8	4.0	4.7
BURLEY BELT CHEMICAL CO. London, Kentucky	0-20-20	5	---	20.0	19.6	---	1.3	2.8
	3- 9- 6	4	3.1	8.2	6.7	8.8	12.3	11.7
	4-12- 8	4	4.0	11.2	8.7	3.7	2.8	5.2
	5-10- 5	3	6.3	10.7	10.0	18.7	3.8	28.1
	5-10-10	4	4.7	9.2	9.9	2.1	8.6	1.7
	5-10-15	9	5.1	10.0	14.9	5.5	2.7	2.0
	5-20-20	14	4.8	18.7	20.2	4.9	4.5	2.2
	6-12-12	5	5.9	11.5	12.1	6.3	4.0	4.8
	6-12-18	2	5.9	11.7	18.3	3.6	3.6	0.8
	10-10-10	9	9.9	10.0	10.0	2.9	2.8	8.8
	12-12-12	7	11.3	12.3	11.9	4.3	2.7	5.6
	15-15-15	2	14.5	15.4	15.1	2.9	0.9	0.5
	ALL GRADES	72	% OF GUAR.			CV		
			99.4	97.1	102.3	5.7	4.1	5.6
	Ferguson, Kentucky	0-20-20	3	---	19.5	19.6	---	2.1
5-10-15		2	4.7	9.4	14.5	9.0	0.8	1.5
5-20-20		4	5.1	18.7	19.5	4.3	2.5	3.0
6-12-12		5	5.6	11.4	12.3	6.1	3.7	4.9
10-10-10		6	9.6	9.7	10.4	2.4	1.7	4.5
15-15-15		2	14.4	13.7	15.4	3.5	4.1	2.3
ALL GRADES		24	% OF GUAR.			CV		
		96.3	95.4	99.8	4.8	2.5	3.9	
FARMERS CHEMICAL ASS'N. Harrison, Tennessee	16-16-16	42	16.2	16.1	15.6	3.1	4.6	5.9
	ALL GRADES	42	% OF GUAR.			CV		
		101.0	100.3	97.6	3.1	4.6	5.9	
FEDERAL CHEMICAL CO. Louisville, Kentucky	0-25-25	3	---	21.5	25.3	---	3.1	4.6
	5-10-15	14	5.2	10.2	15.3	13.0	6.9	7.3
	5-20-20	27	5.6	18.9	18.6	16.3	10.6	11.1

**TABLE 2.—Average Analysis and Coefficients of Variation of Samples Analyzed. July 1971–June 1972.**

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION		
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
FEDERAL CHEMICAL CO. (Cont'd.) Louisville, Kentucky	6-12-12	12	6.4	12.2	12.5	10.7	5.4	6.5
	6-24-24	6	6.3	22.7	23.3	5.1	6.5	8.7
	9-10-15	3	8.6	11.0	15.2	9.9	8.4	4.2
	10-10-10	19	9.6	10.7	11.2	6.7	9.9	7.0
	10-10-15	6	9.6	10.7	15.7	3.3	3.4	3.9
	12-12-12	7	11.5	12.2	13.1	7.8	2.2	9.1
	13-13-13	3	12.3	12.6	13.4	6.6	4.4	5.1
	ALL GRADES	106	% OF GUAR.			CV		
			101.1	98.5	100.3	9.7	6.8	7.3
	Nashville, Tennessee	5-10-15	3	5.2	10.4	15.1	4.9	10.4
5-20-20		6	5.1	19.0	19.5	8.8	6.7	9.8
6-12-12		2	6.2	12.0	12.5	3.5	0.6	1.2
6-24-24		2	6.0	24.3	23.6	1.2	2.0	1.8
10-10-10		5	9.7	11.4	10.8	7.8	16.8	16.1
10-10-15		2	9.6	11.0	15.7	0.0	0.7	0.4
15-15-15		5	14.2	14.1	14.5	12.2	5.3	5.1
ALL GRADES		26	% OF GUAR.			CV		
			98.5	99.8	100.0	6.3	6.9	6.2
FRASIER SUPPLY CO. Glasgow, Kentucky		5-20-20	3	4.8	20.1	20.0	10.4	7.6
	6-12-12	3	6.6	13.5	12.0	3.2	2.3	1.4
	10-10-10	7	9.9	10.3	10.2	5.6	8.0	7.8
	12-24-24	2	11.9	24.2	24.6	19.7	23.7	32.0
	ALL GRADES	24	% OF GUAR.			CV		
		100.7	101.0	106.3	8.8	9.5	9.3	
GLASGOW FERTILIZER CO. Glasgow, Kentucky	0-20-20	3	---	20.7	18.8	---	1.8	6.4
	5-10-15	8	5.4	10.4	15.0	10.3	6.7	4.8
	5-10-15 ME	3	5.0	9.8	16.2	9.2	5.1	3.2
	5-20-20	8	5.5	19.5	19.8	13.6	5.4	5.7
	6-12-12	3	6.8	11.3	11.9	2.3	2.6	0.5
	6-24-24	3	8.3	30.0	19.9	7.9	2.7	13.3
	8-26-26	2	8.2	26.7	25.5	0.9	1.3	2.2
	8-32-16	2	7.9	31.6	17.2	8.1	2.2	7.4
	10-10-10	8	9.8	10.0	10.4	8.3	4.8	7.7



**TABLE 2.—Average Analysis and Coefficients of Variation of Samples Analyzed. July 1971–June 1972.**

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
GLASGOW FERTILIZER CO. (Cont'd.) Glasgow, Kentucky	12-24-24	5	12.7	26.1	21.6	8.1	8.6	14.7
	15-15-15	5	15.0	15.8	15.0	5.8	3.4	9.5
	16- 8- 8	4	16.7	9.9	7.6	8.6	12.7	28.5
	ALL GRADES	57	% OF GUAR. 104.7 104.5 98.0			CV 8.1 5.1 8.7		
W. R. GRACE & CO., AGRI. CHEMICAL GROUP Hopkinsville, Kentucky	5-15-25	9	5.4	15.9	22.4	21.0	24.1	35.0
	9-10-15	3	9.3	9.5	13.1	6.6	12.4	16.8
	9-27- 0	4	8.8	26.1	---	4.4	4.2	---
	30- 0- 0	4	28.8	---	---	3.6	---	---
	ALL GRADES	22	% OF GUAR. 99.5 101.4 90.3			CV 10.4 15.2 28.3		
Memphis, Tennessee	4-16- 4	2	4.2	15.8	5.6	6.7	1.8	6.3
	5-10-15	8	5.1	10.4	15.1	6.1	6.7	4.6
	5-20-20	17	5.2	20.4	20.1	5.8	3.8	7.9
	6-12-12	9	6.1	12.5	13.3	6.1	6.6	5.4
	6-12-18	2	6.0	12.2	18.5	1.2	2.3	0.8
	6-24-24	7	5.9	23.6	24.5	4.6	3.5	3.1
	10-10-10	14	9.8	10.6	11.3	3.9	7.5	9.2
ALL GRADES	66	% OF GUAR. 100.3 102.1 103.9			CV 5.1 5.1 6.0			
New Albany, Indiana	5-10-15	6	5.1	11.0	15.2	6.0	3.2	7.5
	5-20-20	4	5.4	19.8	20.4	5.3	4.8	2.3
	10-10-10	4	9.8	10.8	11.1	5.7	1.6	3.0
	15-15-15	2	14.1	15.4	15.2	1.0	0.5	0.5
ALL GRADES	20	% OF GUAR. 99.7 104.5 104.3			CV 4.9 2.7 3.8			
GRO-GREEN CHEMICAL CO. Shelbyville, Kentucky	0- 9-29	3	---	11.1	27.2	---	34.3	9.4
	5-10-15	3	5.4	10.4	16.0	17.9	25.9	17.9
	8-12-15	4	7.0	10.6	16.7	11.8	15.2	10.1

**TABLE 2.—Average Analysis and Coefficients of Variation of Samples Analyzed. July 1971–June 1972.**

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 CHEMICAL CO. (Cont'd.) Shelbyville, Kentucky	8-24-10	2	8.5	22.5	11.4	16.6	21.1	20.6
	12-12-12	2	11.5	11.5	13.0	25.3	27.1	27.2
	ALL GRADES	36	% OF GUAR.			CV		
			88.1	94.3	120.6	17.4	24.5	16.3
KENTUCKY FERTILIZER WORKS Winchester, Kentucky	4-16-4	2	4.3	15.1	4.9	1.7	5.6	1.5
	5-10-10	4	5.0	9.7	10.8	8.3	13.3	5.9
	5-10-15	7	5.1	10.0	15.2	8.8	3.1	2.6
	5-20-20	3	4.8	17.1	20.9	12.7	4.4	0.7
	6-6-18	3	5.6	6.3	18.6	11.6	7.5	3.8
	10-10-10	7	9.8	9.9	10.4	1.9	20.2	8.4
	ALL GRADES	27	% OF GUAR.			CV		
			97.0	96.8	105.4	7.3	9.6	4.2
NORTH AMERICAN FERTILIZER CO. Louisville, Kentucky	5-10-15	7	5.1	10.0	15.9	14.6	1.8	2.8
	5-20-20	4	4.3	18.6	21.7	11.5	8.6	6.8
	6-12-12	4	7.0	12.0	11.9	4.5	8.9	3.0
	8-10-15	2	6.1	9.8	15.8	11.6	5.8	5.8
	10-10-10	9	9.7	9.8	19.5	6.5	19.5	13.3
	15-15-15	3	14.7	14.6	15.6	9.5	9.0	12.1
	ALL GRADES	38	% OF GUAR.			CV		
			97.9	98.4	106.5	9.6	9.5	7.5
OHIO VALLEY FERTILIZER, INC. Maysville, Kentucky	5-10-15	3	5.5	9.8	15.5	7.9	12.5	0.4
	10-10-10	2	10.7	9.2	10.9	2.0	2.3	10.4
	10-10-20	4	8.7	10.5	18.8	15.6	28.1	20.9
	ALL GRADES	17	% OF GUAR.			CV		
			94.9	105.3	97.6	9.3	15.8	11.1

**TABLE 2.—Average Analysis and Coefficients of Variation of Samples Analyzed. July 1971–June 1972.**

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
THE ROYSTER CO. Norfolk, Virginia	0-25-25	2	---	24.4	25.5	---	0.4	0.8
	5-10-15	2	5.0	10.3	13.9	2.8	3.5	19.9
	5-10-15ME	6	5.0	10.3	15.5	3.4	4.3	3.8
	5-20-20	10	4.8	20.0	20.6	10.4	12.4	12.6
	10-10-10	5	9.7	10.4	10.1	4.8	6.7	3.8
	12-24-24	2	12.3	25.0	22.9	10.4	12.4	16.7
	ALL GRADES	32	% OF GUAR.			CV		
		98.1	100.9	101.2	6.6	7.2	9.1	
ROYSTER FARM SERVICE CENTER Glasgow, Kentucky	5-10-15	4	5.6	10.3	15.3	2.7	2.2	4.9
	5-20-20	4	4.4	18.5	20.5	23.6	17.6	11.5
	10-10-10	4	9.1	11.0	10.3	11.6	15.8	5.6
	ALL GRADES	17	% OF GUAR.			CV		
			96.1	101.0	102.0	12.6	11.8	7.3
Winchester, Kentucky	5-10-15	6	4.6	9.1	14.9	7.0	12.2	9.2
	10-10-10	2	8.9	8.9	10.3	11.1	5.6	12.4
	ALL GRADES	14	% OF GUAR.			CV		
			97.9	94.5	101.9	8.5	9.8	10.4
SMITH DOUGLAS DIV. BORDEN CHEMICAL Russellville, Kentucky	4-16- 4	4	4.4	16.4	5.4	7.9	3.1	9.4
	5-10-15	2	5.4	10.5	14.9	5.2	1.4	3.3
	5-20-20	13	5.4	20.5	18.8	13.3	6.3	11.6
	6-12-12	8	5.5	13.5	13.4	3.8	6.4	5.6
	6-12-18	2	6.8	12.5	16.7	6.2	3.4	0.8
	6-12-18ME	2	7.1	14.0	16.6	2.0	13.7	3.4
	6-21-18	2	7.0	22.0	16.9	1.0	1.3	0.4
	6-24-24	4	6.0	24.0	24.2	13.9	3.9	6.6
	6-24-24ME	2	6.9	24.1	24.8	6.2	0.3	4.6
	7-21-10	2	6.6	19.4	10.5	6.4	3.3	10.2
	10-10-10	8	8.1	11.4	12.0	7.9	5.3	6.9
	18-46- 0	2	18.3	46.1	---	3.1	0.4	---
	ALL GRADES	53	% OF GUAR.			CV		
			98.9	104.6	99.7	7.2	4.5	6.5

**TABLE 2.—Average Analysis and Coefficients of Variation of Samples Analyzed. July 1971–June 1972.**

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION			
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
SOUTHERN STATES COOPERATIVE, INC. Louisville, Kentucky	0-15-30	2	---	14.8	31.4	---	2.9	2.3	
	4-16-4	5	4.4	15.3	4.6	2.5	4.5	2.8	
	5-10-15	5	5.3	10.3	15.4	3.2	7.5	3.0	
	6-12-12	2	6.2	12.0	12.1	0.0	3.5	3.5	
	8-10-15	2	8.1	10.2	15.5	0.9	3.5	2.3	
	10-10-10	2	10.0	10.3	10.7	1.4	2.1	2.6	
	ALL GRADES	19	% OF GUAR.			CV			
			103.4	99.5	104.4	1.8	4.3	2.8	
	Russellville, Kentucky	5-10-15	12	5.3	10.0	15.8	3.0	4.5	4.8
		5-20-20	20	5.3	20.2	19.2	4.3	3.5	6.5
6-12-12		13	6.2	12.0	11.9	2.0	3.2	7.9	
6-12-18		6	6.0	12.1	18.0	2.9	3.1	5.7	
6-24-24		9	6.0	23.8	24.0	2.4	4.0	3.8	
10-10-10		22	10.0	10.4	10.1	3.5	2.7	11.2	
ALL GRADES		85	% OF GUAR.			CV			
		102.2	100.9	99.7	3.1	3.4	7.0		
Winchester, Kentucky	5-10-15	5	5.1	9.9	15.8	3.5	1.1	2.1	
	5-20-20	2	5.0	20.5	20.1	2.8	3.5	1.1	
	6-6-18	2	6.0	6.2	18.6	0.0	2.3	1.9	
	10-10-10	3	10.0	10.1	10.2	2.1	0.6	0.6	
	ALL GRADES	13	% OF GUAR.			CV			
		100.8	101.3	103.3	2.3	1.7	1.5		
STEWART FERTILIZER SERVICE Mt. Vernon, Kentucky	5-10-15	4	5.6	11.1	14.5	4.7	10.0	4.2	
	5-20-20	5	5.5	21.5	19.5	17.7	13.2	9.4	
	6-6-18	2	5.6	6.5	18.8	19.1	3.3	6.8	
	6-12-18	2	6.2	12.9	18.1	3.5	10.5	7.0	
	10-10-10	7	8.3	9.3	12.9	25.9	9.1	32.2	
	ALL GRADES	26	% OF GUAR.			CV			
			96.6	103.4	104.6	15.4	9.6	13.8	

**TABLE 2.—Average Analysis and Coefficients of Variation of Samples Analyzed. July 1971–June 1972.**

COMPANY AND PLANT	GRADE	NO. SAMPLES	AVERAGE ANALYSIS			COEFFICIENT OF VARIATION			
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
SWIFT AGRICULTURAL CHEMICAL CORP. Chicago, Illinois	0-25-25	2	---	28.1	20.9	---	10.6	13.2	
	5-10-15	2	4.6	11.4	16.0	7.8	9.9	3.5	
	5-20-20	5	4.8	21.3	19.2	7.3	6.9	7.5	
	6-12-18	2	5.8	12.3	18.7	2.4	2.3	1.9	
	10-10-10	6	9.9	11.8	11.0	5.3	20.3	10.1	
	ALL GRADES	25	% OF GUAR.			CV			
			97.5	105.1	99.3	5.8	10.9	7.6	
	Hopkinsville, Kentucky	5-10-15	5	6.5	11.0	13.1	19.2	5.7	16.1
		5-20-20	5	5.6	21.5	20.1	21.4	12.2	6.5
		5-20-20ME	3	4.9	18.9	19.5	24.0	16.7	1.4
6-12-12		4	6.1	13.4	12.2	15.9	17.5	6.4	
6-12-18		4	6.2	12.0	17.5	15.4	20.9	4.6	
6-18-12		3	6.2	18.8	11.8	0.9	13.5	6.6	
6-24-24		5	6.0	23.2	23.7	6.9	3.0	12.4	
10-10-10		8	10.4	10.7	10.7	7.5	19.3	11.1	
10-10-15		2	9.5	9.2	14.4	18.7	11.6	11.3	
ALL GRADES		49	% OF GUAR.			CV			
		104.4	101.6	98.3	14.1	13.4	8.8		
USS AGRI-CHEMICALS, INC. Atlanta, Georgia	0-25-25	3	---	23.0	26.8	---	2.4	3.6	
	5-10- 5	5	5.5	10.1	7.2	9.8	7.7	16.8	
	5-10-15	11	5.3	10.6	15.4	6.3	4.5	7.3	
	5-20-20	6	5.1	18.9	21.1	4.0	2.9	7.0	
	6-12-12	8	6.3	11.5	12.9	7.3	5.5	9.8	
	6-12-18	12	6.1	11.9	18.0	7.4	3.9	2.9	
	8-16-16	4	7.9	15.7	15.8	14.6	8.6	14.5	
	10-10-10	17	9.7	10.9	11.3	5.2	7.8	25.8	
	10-10-20	2	9.0	9.9	19.4	1.6	0.1	5.1	
	12-12-12	2	12.9	10.3	11.9	12.7	17.9	8.3	
	ALL GRADES	80	% OF GUAR.			CV			
			99.9	99.7	105.0	7.3	5.9	11.1	
	Cherokee, Alabama	7-28-28	21	7.3	28.2	26.8	4.0	3.6	5.0
14-14-14		12	14.1	14.6	15.2	4.2	8.1	12.0	
15-40- 5		3	16.0	41.3	4.7	1.9	6.7	9.6	

**TABLE 2.—Average Analysis and Coefficients of Variation of Samples Analyzed. July 1971–June 1972.**

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. Cherokee, Alabama (Cont'd.)  Jeffersonville, Indiana	ALL GRADES	65	% OF GUAR.			CV			
			100.7	101.2	104.8	5.7	5.0	8.8	
	5-10-10	2	5.5	10.7	11.5	6.5	13.9	10.5	
	5-10-15	11	5.4	10.4	15.3	8.0	6.2	5.6	
	5-20-20	10	5.3	19.5	20.6	5.1	3.5	6.5	
	6-12-12	4	6.3	11.7	12.1	6.0	4.2	8.7	
	6-12-18	8	6.1	12.1	17.8	2.0	3.4	5.1	
	6-24-24	2	5.8	24.8	22.5	3.7	1.1	6.9	
	7-40-5	2	6.9	38.4	6.4	4.1	0.7	13.3	
	10-10-10	14	9.9	10.8	11.7	8.8	4.7	18.0	
	10-10-20	2	9.6	9.4	20.5	5.9	15.8	6.6	
	12-12-12	5	11.5	12.0	12.9	4.2	1.2	5.0	
		ALL GRADES	65	% OF GUAR.			CV		
				100.7	101.2	104.8	5.7	5.0	8.8
Nashville, Tennessee	3-12-24	2	3.1	12.8	23.7	6.7	10.5	1.5	
	5-10-5	2	5.8	10.3	6.9	2.4	3.5	9.3	
	5-10-10	3	5.3	10.2	10.7	4.3	1.5	3.4	
	5-10-15	3	5.5	9.5	15.0	6.4	3.7	4.3	
	6-12-12	6	6.2	12.0	11.9	6.2	2.5	4.4	
	6-12-18	3	6.2	12.1	17.5	1.0	2.5	0.7	
	9-24-24	7	8.6	22.4	22.7	2.4	9.6	5.9	
	10-10-10	4	10.0	10.7	10.9	6.1	7.2	14.7	
		ALL GRADES	38	% OF GUAR.			CV		
				105.4	98.4	100.0	4.4	5.2	5.7
	WARNER FERTILIZER CO. Somerset, Kentucky	0-20-20	2	---	20.0	20.3	---	6.7	8.0
5-10-15		3	6.2	11.1	14.6	6.6	9.9	6.7	
5-20-20		5	5.5	21.0	19.2	7.2	17.7	6.7	
6-12-12		4	5.6	12.1	12.3	28.0	5.0	11.4	
10-10-10		6	10.7	10.2	10.6	10.7	16.7	18.2	
		ALL GRADES	27	% OF GUAR.			CV		
				105.0	106.7	98.8	13.0	11.9	10.7

**TABLE 2.—Average Analysis and Coefficients of Variation of Samples Analyzed. July 1971–June 1972.**

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
WILLCHEMCO, INC. Cecilia, Kentucky	5-10-15	2	5.1	9.8	15.0	0.0	0.8	5.7
	5-19-20	2	5.0	18.9	21.4	2.8	0.4	3.3
	5-20-20	2	6.1	22.1	17.4	11.6	6.7	15.9
	15-15-15	2	15.5	15.2	14.6	3.2	1.4	5.3
	ALL GRADES	15	% OF GUAR.			CV		
			105.1	102.2	100.2	4.4	2.3	7.6
Henderson, Kentucky	6-24-24	4	5.8	24.1	23.4	7.1	4.8	4.9
	7-18-36	3	6.7	18.2	34.7	19.4	16.4	6.9
	15-15-15	3	14.2	15.6	13.1	3.9	5.3	38.4
	ALL GRADES	16	% OF GUAR.			CV		
			97.0	100.4	95.5	10.0	8.7	16.2
Owensboro, Kentucky	6-24-24	5	5.1	25.3	22.7	20.2	9.1	11.1
	15-15-15	4	13.9	15.7	17.3	12.4	7.1	17.5
	ALL GRADES	14	% OF GUAR.			CV		
				91.4	104.8	101.3	16.5	8.2

**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>					
30016	Agrinite 7-0-0	7.1	0.0	0.0	102
30198	Agrinite 7-0-0	6.9	0.0	0.0	99
<u>Burley Belt Fertilizer Co.</u>					
30065	Burlorganic 7-0-0	8.1	0.0	0.0	116
<u>Ohio Valley Fertilizer, Inc.</u>					
	Organic Plant Food 7-0-0	8.2	0.0	0.0	117
<u>Southern States Cooperative, Inc.</u>					
29691	Organic Top Dresser 7-0-0	7.7	0.0	0.0	109
79744	Organic Top Dresser 7-0-0	7.7	0.0	0.0	109
29872	Organic Top Dresser 7-0-0	6.8	0.0	0.0	97*
30375	Organic Top Dresser 7-0-0	7.3	0.0	0.0	104
<u>USS Agri-Chemical, Inc.</u>					
30881	Vertorganic 5-5-0	4.1	4.8	0.0	101

**TABLE 4.—Results of Analysis of Boron in Fertilizer Samples Reported in Table 1. (An asterisk \* indicates the sample was deficient and "M" indicates misbranded.)**

COMPANY AND PLANT	SAMPLE NUMBER	GRADE	GUARANTEE	FOUND
Bluegrass Plant Foods, Inc. Danville, Ky.	30133	0-25-25	0.57	0.62
	30402	0-10-30	1.01	1.00
	31208	0-25-25	0.00	0.41
Burley Belt Fertilizer Co. Lexington, Ky.	29934	0-20-20	0.57	0.35 *
W. R. Grace & Co. Agr. Prod. Div. Lexington, Ky.	31475	3-11-19	0.66	0.67
Gro-Green Chemical Co., Inc. Shelbyville, Ky.	29731	0- 9-29	0.56	0.48 *
	30992	0- 6-19	0.46	0.45
	31000	0- 9-29	0.39	0.40
	31003	0- 9-29	0.39	0.51
Gro-Green Chemical Co. (Paynes) Shelbyville, Ky.	31204	13- 0-34	0.58	0.53



**TABLE 4.—Results of Analysis 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
Smith-Douglas Div. Russellville, Ky.	30350	0-25-25	1.70	0.16 *
Smiths Grove Fertilizer Co. Smiths Grove, Ky.	30559	0-19-19	0.27	0.80 M
Southern States Coop., Inc. Louisville, Ky.	29582	0-15-30	0.45	0.47
	29895	5-20-20	0.34	0.45
	31520	0-15-30	0.45	0.55
S. S. Horse Cave Coop. Horse Cave, Ky.	30519	0-25-25	0.23	0.30
	30527	0-25-25	0.67	1.00
S. S. Shelbyville Coop. Shelbyville, Ky.	31015	0-17-35	0.47	0.64
Willchemco, Inc. Horse Cave, Ky.	30524	4-19-19	0.54	1.60 M
	30526	4-19-19	0.33	1.70 M

## Fertilizer Manufacturers Doing Business in Kentucky

AG. SUPPLY CO	INDUSTRIAL DR	HOPKINSVILLE KY	42240 C
AGRICO CHEMICAL COMPANY	5050 POPLAR AVENUE	MEMPHIS TENN	38101 C
T.R. AKRIDGE & SON		FREDONIA KY	42411 C
ALFCO ROKEBY COMPANY	BOX 267	MARIETTA OHIO	45750 C
A & L FARM SERVICE INC		LAWRENCEBURG KY	40342 C
ALLENSVILLE CROP SERVICE		ALLENSVILLE KY.	42204 C
ALLIED CHEMICAL CORP.	P.O. DRAWER 61	HOPEWELL VA.	23860 C
ALLIED CHEMICAL CORP.	P.O. BOX 98	IRONTON OHIO	45638 C
ALLIED CHEMICAL CORP.		SOUTH POINT OHIO	45680 C
AMERICAN CYANAMID CO.	P. O. BOX 400	PRINCETON N.J.	08540 C
AMERICAN CYANAMID CO.	859 BERDAN AVENUE	WAYNE N.J.	07470 C
THE ANDERSONS, SPECIALTIES DIV	BOX 119	MAUMEE OHIO	43537 C
ANDERSON PEAT CO		IMLAY CITY MICH	48444 C
ANVIL MINERAL PRODUCTS CORP.	BOX Q	BAY SPRINGS MISS	39422 C
ARCO CHEMICAL CO	155 N WACKER DR	CHICAGO ILL	60608 C
ARCO CHEMICAL CO	BOX 328	FORT MADISON IOWA	52627 C
ARKLA CHEMICAL CORP.	400 E CAPITOL ST	LITTLE ROCK ARK.	72203 C
ASKEW FARM SERVICE	ROUTE 1	HOPKINSVILLE KY	42240 C
AJR WAY STORES	SEE KNOX FERTILIZER		C
E M BAILEY DISTRIBUTING CO.	1000 S 8TH ST	PADUCAH KY	42001 C
E M BAILEY DISTRIBUTING CO		BANDANA KY	42022 C
E M BAILEY DISTRIBUTING CO		MAYFIELD KY	42066 C
E M BAILEY CO	C/O OBION GRAIN CO	OBION TENN	38240 C
BALLARD COUNTY COOP		LA CENTER KY.	42056 C
BIG FOUR FEED & IMPLEMENT CO	BOX 453	SCOTTSDALE KY	42164 C
BIOCHEMICAL RES & DEV CORP	7700 CHEVY CHASE DR	AUSTIN TEX	78752 C
BLACK LEAF PRODUCTS CO	667 N STATE ST	ELGIN ILL	60120 C
BLUEGRASS PLANT FOODS, INC.	447 N. MAIN ST.	CYNTHIANA KY.	41031 C
BLUEGRASS PLANT FOODS, INC.	P. O. BOX 113	DANVILLE KY.	40422 C
BLUEGRASS PLANT FOODS INC		PARIS KY	40361 C
EARL M. BOLIN	ROUTE 4	CLINTON KY	42031 C
BORDEN INC SMITH-DOUGLASS	PO BOX 419 R B WILES	NORFOLK VA	23501 C
BOURBON FARM SERVICE		PARIS KY	40361 C
BOYLE-MIDWAY INC	SOUTH AVE & HALE ST	CRANFORD NJ	07016 C
BRANDT CHEMICAL CO		PLEASANT PLNS ILL	62677 C
RAY BRYANT & SON	130 THOMAS AVE	BOWLING GREEN KY	42101 C
BUNTON SEED COMPANY	939 E. JEFFERSON	LOUISVILLE KY.	40206 C
BURKHARTS FEED MILL		AUBURN KY	42206 C
BURKESVILLE FERTILIZER PLANT		BURKESVILLE KY	42717 C
BURLEY BELT FERTILIZER CO.	BOX 5150	LEXINGTON KY.	40505 C
BURLEY BELT CHEMICAL CO.	BOX 130	LONDON KY.	40741 C
BURLEY BELT CHEMICAL CO		FERGUSON KY	42533 C
H. D. CAMPBELL COMPANY	CAMPBELL BLDG.	ROCHELLE ILL.	61068 C
CAMPBELLSVILLE CROP SERVICE	P O BOX 7	CAMPBELLSVILLE KY.	42718 C
CANADIAN INDUSTRIES LTD	BOX 1900	COURTRIGHT ONT	CANADAC
CARLISLE FERTILIZER CO.		BARDWELL KY.	42023 C
CAUDILL SEED CO	BOX 348	SHELBYVILLE KY	40065 C
CAYCE LIME & FERTILIZER	ROUTE 4	FULTON KY.	42041 C
CF INDUSTRIES INC	100 SO. WACKER DR.	CHICAGO ILL.	60606 C
CHEM-LAWN CORP	1810 MACKENZIE ST	COLUMBUS OHIO	43220 C
CHURCH & DWIGHT CO INC	TWO PENNSYLVANIA PL	NEW YORK NY	10001 C
CHEVRON CHEMICAL COMPANY	P.O. BOX 282	FORT MADISON IOWA	52627 C

## Fertilizer Manufacturers Doing Business in Kentucky

CHEVRON CHEMICAL CO-ORTHO DIV	940 HENSLEY ST	RICHMOND	CAL.94801 C
CHILEAN NITRATE SALES CORP.	120 BROADWAY	NEW YORK	N.Y.10005 C
CHRISTIAN COUNTY SUPPLY CO.	SKYLINE DRIVE	HOPKINSVILLE	KY. 42240 C
CITIES SERVICE CO	BOX 3269	TAMPA	FLA 33601 C
CLINE FERTILIZER COMPANY	P. O. BOX 67	EWING	VA.24248 C
COASTAL CHEMICAL CORP.		YAZOO CITY	MISS39194 C
COMINCO AMERICAN INC	818 W RIVERSIDE AVE	SPokane	WASH99201 C
COMMERCIAL SOLVENTS CORP.	245 PARK AVENUE	NEW YORK	N.Y.10017 C
COOK UNITED CORP	BOX 246 W BUCYRUS ST	CRESTLINE	OHIO44827 C
CRAFTON & DUNCAN INC	1228 2ND ST	HENDERSON	KY 42420 C
CRITTENDEN CO FARM & HOME SUP.		MARION	KY 42064 C
JACK EDGE		FORDVILLE	KY 42343 C
E I DUPONT DENEMOURS CO	6054 DUPONT BLDG	WILMINGTON	DEL 19898 C
ELANCO PRODUCTS COMPANY	740 SO. ALABAMA ST.	INDIANAPOLIS	IND.46206 C
ELKTON CROP SERVICE	ROUTE 2	GUTHRIE	KY. 42234 C
ENCAP PRODUCTS CO	BOX 278	MT PROSPECT	ILL 60056 C
ENVIRONMENTAL PRODUCTS CO	R R #1	HUNTINGTON	IND 46750 C
E-Z-FLO CHEMICAL CO	701 KODERLY DR	COLUMBUS	OHIO43228 C
FAESY & BESTHOFF INC	143 RIVER RD	EDGEWATER	NJ 07020 C
FARMERS CHEMICAL ASSOC., INC.	BOX 87	HARRISON	TENN37341 C
FARMERS FERTILIZER COMPANY		SMITHS GROVE	KY. 42171 C
FARMERS GIN COMPANY	BOX 95	CLINTON	KY. 42031 C
FARMERS SUPPLY & PRODUCE CO.		MONTICELLO	KY. 42633 C
FARMLAND INDUSTRIES INC.	P. O. BOX 7305	KANSAS CITY	MO. 64116 C
FAYETTE SEED CO	630 SO BROADWAY	LEXINGTON	KY 40508 C
FEDERAL CHEMICAL COMPANY		HUMBOLDT	TENN38343 C
FEDERAL CHEMICAL COMPANY	646 STARKS BLDG.	LOUISVILLE	KY. 40202 C
FEDERAL CHEM. CO.-LAWN & GARD	646 STARKS BLDG.	LOUISVILLE	KY. 40202 C
FEDERAL CHEMICAL COMPANY	P. O. BOX 7605	NASHVILLE	TENN37209 C
FELTY FARM SERVICE INC		BEAVER DAM	KY 42320 C
FERRO CORPORATION	4150 E 56TH ST	CLEVELAND	OHIO44105 C
FRANKLIN CROP SERVICE	ROUTE 3	FRANKLIN	KY. 42134 C
FRASIER SUPPLY CO.	505 W. MAIN ST.	GLASGOW	KY. 42141 C
FREE FLOW FERTILIZER CO	BOX 119	MAUMEE	OHIO43537 C
GAMALIEL BULK FERTILIZER INC	RT #1	TOMPKINSVILLE	KY 42167 C
GENES AG SUPPLY	BOX 187	STURGIS	KY 42459 C
GLASGOW FERTILIZER CO.	BOX 198	GLASGOW	KY. 42141 C
GLASGOW TRADING CENTER		GLASGOW	KY 42141 C
W R GRACE & CO-DAV CHEM DIV		BARTOW	FLA.33830 C
W R GRACE & CO-AGR PROD DIV	R R #4	BOWLING GREEN	KY 42101 C
W R GRACE & CO-AGR PROD DIV		CADIZ	KY. 42211 C
W R GRACE & CO	BOX 148	COLUMBUS	OHIO43216 C
W R GRACE & CO AGRI PROD DIV		EKRON	KY 40117 C
W R GRACE & CO-AGR PROD DIV		GUTHRIE	KY. 42234 C
W R GRACE & CO	BOX 257	LACENTER	KY 42056 C
W R GRACE & CO AGRI CHEM GROUP	HICKORY MAIL BOX 311	MAYFIELD	KY 42066 C
W R GRACE & CO-AGR PROD DIV		HOPKINSVILLE	KY. 42240 C
W R GRACE & CO AGRI CHEM GROUP	100 N MAIN ST	MEMPHIS	TENN38103 C
W R GRACE & CO-AGR PROD DIV	P O BOX 7665	NASHVILLE	TENN37203 C
W R GRACE & CO-AGR PROD DIV	P. O. BOX 350	NEW ALBANY	IND.47150 C
W R GRACE & CO AGR PROD DIV	BOX 742	NEW ALBANY	IND 47150 C
GRAVES COUNTY SOIL IMP. ASSN.		MAYFIELD	KY. 42066 C
THE GREAT A&P TEA CO.	P O BOX 300	LOUISVILLE	KY 40201 C
GREENLIFE PRODUCTS COMPANY		WEST POINT	VA. 23181 C
GREEN THUMB PRODUCTS	4401 LAGRANGE ST	TOLEDO	OHIO43612 C
GREEN VALLEY FARM SUPPLY		ISLAND	KY. 42350 C
GRO-GREEN CHEMICAL CO., INC.	BOX 388	SHELBYVILLE	KY. 40065 C
GRO-GREEN SALES CO., LEBANON	BOX 388	SHELBYVILLE	KY. 40065 C
GRO-GREEN CHEMICAL CO PAYNES	BOX 388	SHELBYVILLE	KY 40065 C
GROVE COMPOST CO INC	BOX 242	GRAFTON	WIS 53024 C
GRDWERS CHEMICAL CORPORATION		MILAN	OHIO44846 C

## Fertilizer Manufacturers Doing Business in Kentucky

GUTHRIE FARM SERVICE		EMINENCE	KY 40019 C
HANCOCK COUNTY FARM SUPPLY		HAWESVILLE	KY 42348 C
HAWKEYE CHEMICAL CO		CLINTON	IOWA25732 C
ELFORD HAYES		RUSSELL SPRNGKY	42642 C
HERCULES INCORPORATED	910 MARKET STREET	WILNINGTON	DEL.19899 C
HERITAGE HOUSE PRODUCTS, INC.	300 UNION COM. BLDG	CLEVELAND	OHIO44115 C
HIGHLAND DISTRIBUTORS INC		SADLERSVILLE	TENN37154 C
HILLENMEYER NURSERIES	RR6-SANDERSVILLE RD	LEXINGTON	KY. 40505 C
A. H. HOFFMAN, INC.		LANDISVILLE	PA. 17538 C
HOWE-HILLIARD GRAIN CO.		MAYFIELD	KY. 42066 C
HUSTONVILLE FARM SERVICE		HUSTONVILLE	KY 40437 C
HUTSON CHEMICAL COMPANY	103 MAPLE ST.	MURRAY	KY. 42071 C
HYDROPONIC CHEM CO	P O BOX 4300	COPELY	OHIO44321 C
ICI AMERICA INC	24 RICHMOND HILL	AVESTAMFORD	CONN06904 C
INTERNATIONAL MIN & CHEM CORP	16TH & STATE STS	CHICAGO HGHTS	ILL 60411 C
INTERNATIONAL MIN & CHEM CORP	OLD ORCHARD ROAD	SKOKIE	ILL.60076 C
INTERNATIONAL MIN & CHEM CORP		AMORY	MISS38821 C
INTERNATIONAL MIN & CHEM CORP		CULLMAN	ALA 35055 C
INTERNATIONAL MIN & CHEM CORP	1230 TERRACE ST	FLORENCE	ALA 35630 C
INTERNATIONAL MIN & CHEM CORP	BOX 950	TUPELO	MISS28801 C
INTERNATIONAL MIN & CHEM CORP	2550 W. SECOND AVE	DENVER	COLO80217 C
JET-X CORP.	110 SO FIFTH ST	BROWNFIELD	TEX 79316 C
JON-T CHEMICALS INC	1014 VINE ST	CINCINNATI	OHIO45201 C
JUBILEE PROD INC-R.M. HOLMAN	P O BOX 158	NORTH BEND	OHIO45052 C
KAISER AGRICULTURAL CHEMICALS	P O BOX 246	SAVANNAH	GA. 31402 C
KAISER AGRICULTURAL CHEMICALS	AMF BOX 30209	MEMPHIS	TENN38130 C
KAISER AGRI CHEMICALS	525 KENTUCKY ST.	QUINCY	ILL.62301 C
KALO INOCULANT CO.		BRISTOL	ILL.60512 C
KEN-BRIS FARMS		WINCHESTER	KY. 40391 C
KENTUCKY FERTILIZER WORKS	222 COOK AVE.	CADIZ	KY. 42211 C
KERR-MCGEE FARM CENTER		GUTHRIE	KY. 42234 C
KERR-MCGEE FARM CENTER		OKLAHOMA CITY	OKLA73125 C
KERR-MCGEE CHEMICAL CORP	KERR-MCGEE BLDG	PEMBROKE	KY. 42266 C
KERR-MCGEE FARM CENTER		KNOX	IND 46534 C
KNOX FERTILIZER CO	BOX 116	KENOSHA	WISC53140 C
KOOS INC	4500 13TH CT.	DETROIT	MICH
S. S. KRESGE		BLUE POINT	N.Y.11715 C
LAWN-A-MAT CHEM. & EQUIP. CO.	KENNEDY AVE.	STANFORD	KY. 40484 C
LINCOLN FARM SERVICE		SMITHLAND	KY. 42081 C
LIVINGSTON COUNTY COOP.		LORETTO	KY 40037 C
LORETTO FERTILIZER SALES & SER		LOUISVILLE	KY 40202 C
LOUISVILLE CHEMICAL CO	601-605 JEFFERSON ST	VERSAILLES	KY 40383 C
MCCAULEY BROS SEED CO	111 BROADWAY	BENTON	KY. 42025 C
MARSHALL COUNTY SOIL IMP ASSN	BOX 127	ROANOKE	ILL.61561 C
MARTIN BROS. IMPLEMENT CO.		BURBANK	CAL 91504 C
J. J. MAUGET CO INC	2808 N. NAOMI ST	PRINCETON	KY. 42445 C
MAYS OIL & ALLIED CHEMICAL CO.	BOX 347	MORGANFIELD	KY 42437 C
MEACHEM NITROGEN SER	RT 3	BRANDENBURG	KY 40108 C
MEADE FARMERS SUPPLY		OWENSBORO	KY. 42301 C
MILES FARMS	ROUTE 3	YAZOO CITY	MISS29194 C
MISSISSIPPI CHEMICAL CORP.	P. O. BOX 388	CHARLESTON	MO. 63834 C
MONSANTO CO. AGR. CENTER 222	P. O. BOX 370	SLAUGHTERS	KY. 42456 C
MONSANTO AGRI. CENTERS, INC.		ST. LOUIS	MO. 63166 C
MONSANTO COMPANY	800 N LINDBERGH	MORGANTOWN	KY 42261 C
MOORE-HUTCHESON CO		HODGENVILLE	KY. 42748 C
MORRISON FARM SERVICE		HENDERSON	KY 42420 C
M-S FARM SERVICE	RT #3 BOX 387	MARION	OHIO43302 C
NA-CHURS PLANT FOOD COMPANY	421 MONROE STREET	VINE GROVE	KY 40175 C
NALL BROTHERS		LOUISVILLE	KY. 40217 C
NORTH AMERICAN FERTILIZER CO.	PRESTON & BERGMAN	SPRINGFIELD	OHIO45501 C
OCCIDENTAL CHEMICAL CO	BOX 180	MAYSVILLE	KY. 41056 C
OHIO VALLEY FERTILIZER, INC.	BOX 36		

## Fertilizer Manufacturers Doing Business in Kentucky

OLDHAM BROTHERS		SHAWNEETOWN	ILL 62984 C
OLIN CORP AGRI DIV		LAKE CHARLES	LA. 70601 C
OLIN CORP AGRI DIV	P. O. BOX 991	LITTLE ROCK	ARK.72203 C
ORGANIC COMPOST COMPANY		GERMANTOWN	WIS.53022 C
ORGRD PRODUCTS CO	BOX 453	DAYTON	OHIO45401 C
OTASCO	BOX 885	TULSA	OKLA74102 C
PAYGRO DIV MEAD CORP	118 W FIRST ST	DAYTON	OHIO45402 C
J C PENNEY CO	1301 AVE OF AMERICAS	NEW YORK	NY 10019 C
ROBERT B. PETERS, INC.	2833 PENNSYLVANIA	STALLENTOWN	PA. 18104 C
J PETTY CO	ROUTE 1	GRACEY	KY 41143 C
PHELPS FARM SERVICE	424 S THIRD ST	PADUCAH	KY 42001 C
PHILLIPS PETROLEUM CO	4165 MILLERSVILLE RD	INDIANAPOLIS	IND 46205 C
PHILLIPS PETROLEUM CO	CENT INVOICE-FERT	BARTLESVILLE	OKLA74004 C
PLANT MARVEL LABORATORIES	624 W 119TH ST.	CHICAGO	ILL.60628 C
PRICES MILL FARM SUPPLY	ROUTE #2	FRANKLIN	KY 42134 C
PRO-TEL PRODUCTS INC	1933 S BROADWAY	LOS ANGELES	CAL 90007 C
RA-PID-GROW CORPORATION	88 OSSIAN STREET	DANSVILLE	N.Y.14437 C
RHODIA INC CHIPMAN DIV	BOX 2009	NEW BRUNSWICK	NJ 08903 C
RICHMOND FARM SUPPLY INC	BOX 567	RICHMOND	KY 40475 C
RICH POND CROP SERVICE	R. 4	BOWLING GREEN	KY 42101 C
ROBIN JONES PHOSPHATE CO	BOX 50236	NASHVILLE	TENN27205 C
ROCKLAND CHEMICAL CO	BOX 204	CALDWELL	NJ 07006 C
ROSS DANIELS INC	1720 FULLER RD	W DES MOINES	IOWA50265 C
ROYSTER FARM SERVICE		ALBANY	KY 42602 C
ROYSTER FARM SERVICE		CECILIA	KY 42724 C
ROYSTER COMPANY	BOX 1940	NORFOLK	VA. 23501 C
ROYSTER FARM SERVICE	HIWAY 31E BYPASS	GLASGOW	KY 42141 C
ROYSTER COMPANY	P O BOX 21107	INDIANAPOLIS	IND 46221 C
ROYSTER COMPANY	HIGHWAY 431	UTICA	KY 42375 C
ROYSTER FARM SERVICE CENTER	28 HILL ST	WINCHESTER	KY 40391 C
SACRAMENTO FEED MILL		SACRAMENTO	KY 42372 C
SANDUSKY MILLS INC		HARRODSBURG	KY 40330 C
SCHOCHOH CROP SERVICE	ROUTE 5	RUSSELLVILLE	KY. 42276 C
SCHULTZ COMPANY	11730 NORTHLINE	MARYLAND HGTS	MD. 63043 C
SCOTTSVILLE FERTILIZER CO		SCOTTSVILLE	KY 42164 C
D. M. SCOTT & SONS	ATTN-HC DOELLINGER	MARYSVILLE	OHIO43040 C
SEABOARD SEED COMPANY		BRISTOL	ILL.60512 C
SEARS, ROEBUCK & COMPANY	925 S HOMAN AVE.	CHICAGO	ILL.60651 C
SEWERAGE COM., CITY MILWAUKEE	BOX 2079	MILWAUKEE	WISC53201 C
SHELL CHEMICAL COMPANY	100 BUSH STREET	SAN FRANCISCO	CAL.94106 C
SHERWIN-WILLIAMS CHEMICALS	BOX 6520	CLEVELAND	OHIO44101 C
SIVERO ENTERPRISES INC.	BOX 155	DOLTON	ILL.60419 C
SMITH-DOUGLAS DIV	P O BOX 438	RUSSELLVILLE	KY 42276 C
SMITHS GROVE FERTILIZER CO	BOX E	SMITHS GROVE	KY 42171 C
SOUTH FULTON LIME & FERT INC	BOX 66	SOUTH FULTON	TENN42041 C
SOUTHEAST CHEMICAL CO	BOX 130	LONDON	KY 40741 C
SOUTHERN STATES COOP., INC.	BOX 3469 CURTIS BAY	BALTIMORE	MD. 21226 C
SOUTHERN STATES COOP., INC.		BRISTOL	VA. 05443 C
SOUTHERN STATES COOP., INC.	7TH AND MAIN ST	RICHMOND	VA. 23213 C
SOUTHERN STATES COOP., INC.	BOX 13065 C. T. STA.	LOUISVILLE	KY. 40513 C
SOUTHERN STATES COOP., INC.	BOX 408	RUSSELLVILLE	KY. 42276 C
SOUTHERN STATES COOP., INC.	BOX 516	WINCHESTER	KY. 40391 C
S. S. BARDSTOWN COOP.	403 CATHEDRAL MANOR	BARDSTOWN	KY. 40004 C
S S BOWLING GREEN COOP		BOWLING GREEN	KY 42101 C
S S COOP-CALDWELL SERVICE		PRINCETON	KY 42445 C
S. S. CAMPBELLSVILLE COOP.	611 E. FIRST ST	CAMPBELLSVILLE	KY 42718 C
S S CARLISLE COOP		CARLISLE	KY 40311 C
S. S. CLARK COOP.		WINCHESTER	KY. 40391 C
S S CYNTHIANA COOP		CYNTHIANA	KY 41031 C
S. S. FLEMINGSBURG COOP.	P.O. BOX 167	FLEMINGSBURG	KY. 41041 C
S. S. FRANKFORT COOP.	DAILEY AVENUE	FRANKFORT	KY. 40601 C

## Fertilizer Manufacturers Doing Business in Kentucky

S. S. FULTON SERVICE	201 CENTRAL AVENUE	FULTON	KY. 42041 C
S S GEORGETOWN COOP		GEORGETOWN	KY 40324 C
S. S. GLASGOW COOP.	504 W. FRONT ST.	GLASGOW	KY. 42141 C
S. S. GRAYSON COOP.	P.O. BOX 547	GRAYSON	KY. 41143 C
S. S. GREENVILLE SERVICE	W. DEPOT ST.	GREENVILLE	KY. 42345 C
S. S. HARDIN COOP.	RFD #2	ELIZABETHTOWN	KY 42701 C
S S COOP-HARDINBURG SERVICE		HARDINBURG	KY 40143 C
S S HARRODSBURG COOP		HARRODSBURG	KY 40330 C
S. S. HENDERSON COOP.	146 MCKINLEY ST.	HENDERSON	KY. 42420 C
S S HENRY COOP		EMINENCE	KY 40019 C
S. S. HOPKINSVILLE COOP.	501 E. 13TH ST.	HOPKINSVILLE	KY. 42240 C
S. S. HORSE CAVE COOP.	206 S. DIXIE HWY.	HORSE CAVE	KY. 42749 C
S. S. IRVINGTON SERVICE		IRVINGTON	KY. 40146 C
S. S. LAGRANGE COOP.	2ND & WASHINGTON STS	SLA GRANGE	KY. 40031 C
S. S. LEBANON COOP.	215 DEPOT STREET	LEBANON	KY. 40033 C
S. S. LEITCHFIELD COOP.	118 W. WHITE OAK ST.	LEITCHFIELD	KY. 42754 C
S. S. LEXINGTON COOP.	949 PINE STREET	LEXINGTON	KY. 40508 C
S. S. LONDON COOP.	P.O. BOX 604	LONDON	KY. 40741 C
SS LOUISVILLE COOP	BOX 13231 C T STA	LOUISVILLE	KY 40213 C
S S MADISONVILLE COOP	130 N SEMINARY ST	MADISONVILLE	KY 42431 C
S S MAYSVILLE COOP		MAYSVILLE	KY 41056 C
S. S. MORGANFIELD COOP	304 N. TOWNSEND ST.	MORGANFIELD	KY. 42437 C
S. S. OWENSBORO COOP.	800 CRABTREE AVE.	OWENSBORO	KY. 42301 C
S S PENDLETON COOP		FALMOUTH	KY 41040 C
S S COOP-RICHMOND SERVICE		RICHMOND	KY 40475 C
S. S. RUSSELLVILLE COOP.	P.O. BOX 309	RUSSELLVILLE	KY. 42276 C
S. S. SHELBYVILLE COOP.	7TH & BRADSHAW STS.	SHELBYVILLE	KY. 40065 C
S. S. SIMPSON COOP.	301 FINN STREET	FRANKLIN	KY. 42134 C
S. S. SOMERSET COOP.	P.O. BOX 492	SOMERSET	KY. 42501 C
S. S. TODD SERVICE	P.O. BOX 278	ELKTON	KY. 42220 C
SPARTA FERTILIZER INC		SPARTA	KY 41086 C
SPENCER FARM SERVICE		TAYLORSVILLE	KY. 40071 C
SPRINGFIELD FARMERS SERVICE		SPRINGFIELD	KY 40069 C
THE STADLER FERTILIZER CO	BOX 82	GRAND RAPIDS	OHIO 43522 C
STANLEY CROP SERVICE		STANLEY	KY 42375 C
STERNS NURSERIES INC	404 WILLIAM STREET	GENEVA	N.Y. 14456 C
STEWART FERTILIZER SERVICE		MT. VERNON	KY. 40456 C
STIM-U-PLANT LABORATORIES	2077 PARKWOOD AVE.	COLUMBUS	OHIO 43219 C
SWIFT AGRI CHEM CORP	111W JACKSON BLVD	CHICAGO	ILL 60604 C
SWIFT FARM CENTER	% BUGG BROS	CLINTON	KY 42031 C
SWIFT AGRICULTURAL CHEM CORP	BOX 448	COLLINSVILLE	ILL 62234 C
SWIFT FARM CENTER		E BERNSTADT	KY 40729 C
SWIFT AGRICULTURAL CHEM CORP	2501 KINGS HIGHWAY	E ST LOUIS	ILL 62201 C
SWIFT AGRICULTURAL CHEM CORP	BOX 548	HOPKINSVILLE	KY 42240 C
SWIFT AGRICULTURAL CHEM CORP	S ESTILL AVE	RICHMOND	KY 40475 C
TAYLOR SEED COMPANY		GEORGETOWN	KY 40324 C
TEATER & CASSITY FARM SERVICE		NICHOLASVILLE	KY 40356 C
TENNESSEE FARMERS COOP.		LAVERGNE	TENN 37086 C
TEXGAS CORPORATION	1814 E BROOKS RD	MEMPHIS	TENN 38116 C
TEXGAS CORP	216 WASHINGTON ST.	PARIS	TENN 38242 C
TEXGAS CORP		RIDGELY	TENN 38080 C
TEXGAS CORP	609 PERKINS ST.	UNION CITY	TENN 38261 C
THOMPSON SALES COMPANY	P. O. BOX 246	MONTGOMERY	ALA. 36101 C
TOBACCO STATES CHEMICAL CO.	BOX 479	LEXINGTON	KY. 40501 C
TODD COUNTY GRAIN CO		ELKTON	KY 42220 C
TOMPKINSVILLE FERTILIZER CO.		TOMPKINSVILLE	KY. 42167 C
TRIMBLE COOP INC		MILTON	KY 40045 C
TRIPLE T GRAIN & FEKT. INC.	ROUTE NO. 1	DECKER	IND. 47524 C
TYLER FERTILIZER CO	420 S JAKLAND ST	TYLER	TEX 75701 C
USS AGRI-CHEMICALS, INC.	P. O. BOX 1685	ATLANTA	GA. 30301 C
USS FARM SERVICE CENTER	ROUTE #2	ADAIRVILLE	KY 42202 C

Fertilizer Manufacturers Doing Business in Kentucky

USS AGRI-CHEMICALS, INC.		BARTOW	FLA.33830 C
USS FARM SERVICE CENTER	BOX 87	CAMPBELLSVILL	KY 42718 C
USS AGRI-CHEMICALS, INC.		CHEROKEE	ALA.35616 C
USS AGRI-CHEMICALS, INC.		CRYSTAL CITY	MO. 63019 C
USS AGRI-CHEMICALS, INC.	P. O. BOX 312	E. ST. LOUIS	ILL.62202 C
USS AGRI-CHEMICALS, INC.		FORT MEADE	FLA.33841 C
USS AGRI-CHEMICALS	400 WATER ST	FRANKLIN	KY 42134 C
USS AGRI-CHEMICALS INC		GUTHRIE	KY 42234 C
USS AGRI-CHEMICALS INC		HARDINBURG	KY 40143 C
USS AGRI-CHEMICALS, INC.	14TH & WATT ST.	JEFFERSONVILL	IND.47130 C
USS AGRI-CHEMICALS INC		LAGRANGE	KY 40031 C
USS AGRI-CHEMICALS, INC.	3967 WEAVER ROAD	MEMPHIS	TENN38109 C
USS AGRI-CHEMICALS, INC.	P. O. BOX 7745	NASHVILLE	TENN37209 C
USS AGRI-CHEMICALS INC	BOX 90446	NASHVILLE	TENN37209 C
USS AGRI-CHEMICALS INC		SCIENCE HILL	KY 42553 C
USS FARM SERVICE CENTER	BOX 128	UTICA	KY 42376 C
U S STEEL CORP CHEMICAL DIV	BOX 599 ATT E MCGEE	FAIRFIELD	ALA 35064 C
UNION FERTILIZER CO	BOX 87	MORGANFIELD	KY. 42437 C
UNIVERSAL METAL PRODUCTS		COOPERSVILLE	MICH49404 C
VISTRON CORP.	BOX 628	LIMA	OHIO45802 C
VOLUNTARY PURCHASING GROUPS	BOX 460	BONHAM	TEX.75418 C
WABASH VALLEY SERVICE CO		GRAYVILLE	ILL 62844 C
WARNER FERTILIZER COMPANY	P. O. BOX 707	SOMERSET	KY. 42501 C
WEGRO INC.	THIRD ST.	GRAND RAPIDS	OHIO43522 C
WEST AGRO-CHEMICAL INC	BOX 146	EIGHTY FOUR	PA 15330 C
WESTERN AUTO SUPPLY KAN CITY	646 STARKS BLDG	LOUISVILLE	KY 40202 C
WILLCHEMCO INC	NATL BK TULSA BLDG	TULSA	OKLA74103 C
WILLCHEMCO INC	BOX 65	IRVINGTON	KY 40146 C
WILLCHEMCO INC	BOX 873	BOWLING GREEN	KY 42101 C
WILLCHEMCO INC	BOX 7	CECILIA	KY 42724 C
WILLCHEMCO INC	BOX 8	CLARKSON	KY 42726 C
WILLCHEMCO INC	BOX 395	CLAY	KY 42404 C
WILLCHEMCO INC		FREDONIA	KY 42411 C
WILLCHEMCO INC	BOX 145	HARTFORD	KY 42347 C
WILLCHEMCO INC	BOX 25	HENDERSON	KY 42420 C
WILLCHEMCO INC	BOX 3	HENDERSON	KY 42420 C
WILLCHEMCO INC NITROGEN DIV	307 W MAIN ST	HODGENVILLE	KY 42748 C
WILLCHEMCO INC	BOX 575	HORSE CAVE	KY 42749 C
WILLCHEMCO INC	BOX 86	MORGANFIELD	KY 42437 C
WILLCHEMCO INC	108 RIVER RD	OWENSBORO	KY 42302 C
WILLCHEMCO INC	BOX 284	RUSSELLVILLE	KY 42276 C
WILLCHEMCO INC		SACRAMENTO	KY 42372 C
WILLCHEMCO INC	BOX 266	STURGIS	KY 42459 C
WILLCHEMCO INC	403 E MAIN ST	UNION CITY	TENN38261 C
WILLCHEMCO INC		WALNUT RIDGE	ARK 72476 C
WILLIAMS FERTILIZER SERVICE		GLASGOW	KY 42141 C
WINCHESTER SALES INC	BOX 723	WINCHESTER	KY 40391 C
XL HARDWARE STORES		ST LOUIS	MO 63155 C
ZEP MANUFACTURING CO	BOX 2015	ATLANTA	GA 30301 C

3.5M-- 11-72