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ANNUAL REPORT
ANALYSES OF OFFICIAL
FERTILIZER SAMPLES

JULY 1975 - JUNE 1976



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College of Agriculture
Agricultural Experiment Station
Division of Regulatory Services
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DIVISION OF REGULATORY SERVICES
KENTUCKY AGRICULTURAL EXPERIMENT STATION

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Edward R. Lindstrom, Assistant Director
D. L. Terry, Coordinator
Fertilizer Program
Henry Spencer, Auditor

INSPECTION STAFF

Wilson M. Routt
Coordinator, Field Inspection Staff

ewey S. Coffey
en W. Cox
aude E. Hensley

Noel Johnston
Wallace L. King
Ellis Hugh Ray

William K. Robertson
Samuel D. Whitehead
David T. Buckingham

LABORATORY

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and Coordinator Chemical Laboratories

Robert Beine
Elizabeth Brown
Len Denniston
e Herald
orma Holbrook

Robert Kiser
Dominique Lam
Tasanee Thitakamol
David Tompkins

Robert N. Price, In Charge,
Fertilizer Analysis
Alan P. Thio, In Charge,
Pesticide Laboratory

DATA PROCESSING

Charles Boyd, Data Processing Specialist
Brenda Johnson, Data Processing Assistant

This report was compiled and prepared by D. L. Terry with the assistance of the Inspection, Laboratory, and Data Processing Staffs. Appreciation is expressed to Mrs. Linda Lawson for her assistance in typing and assembling the manuscript.

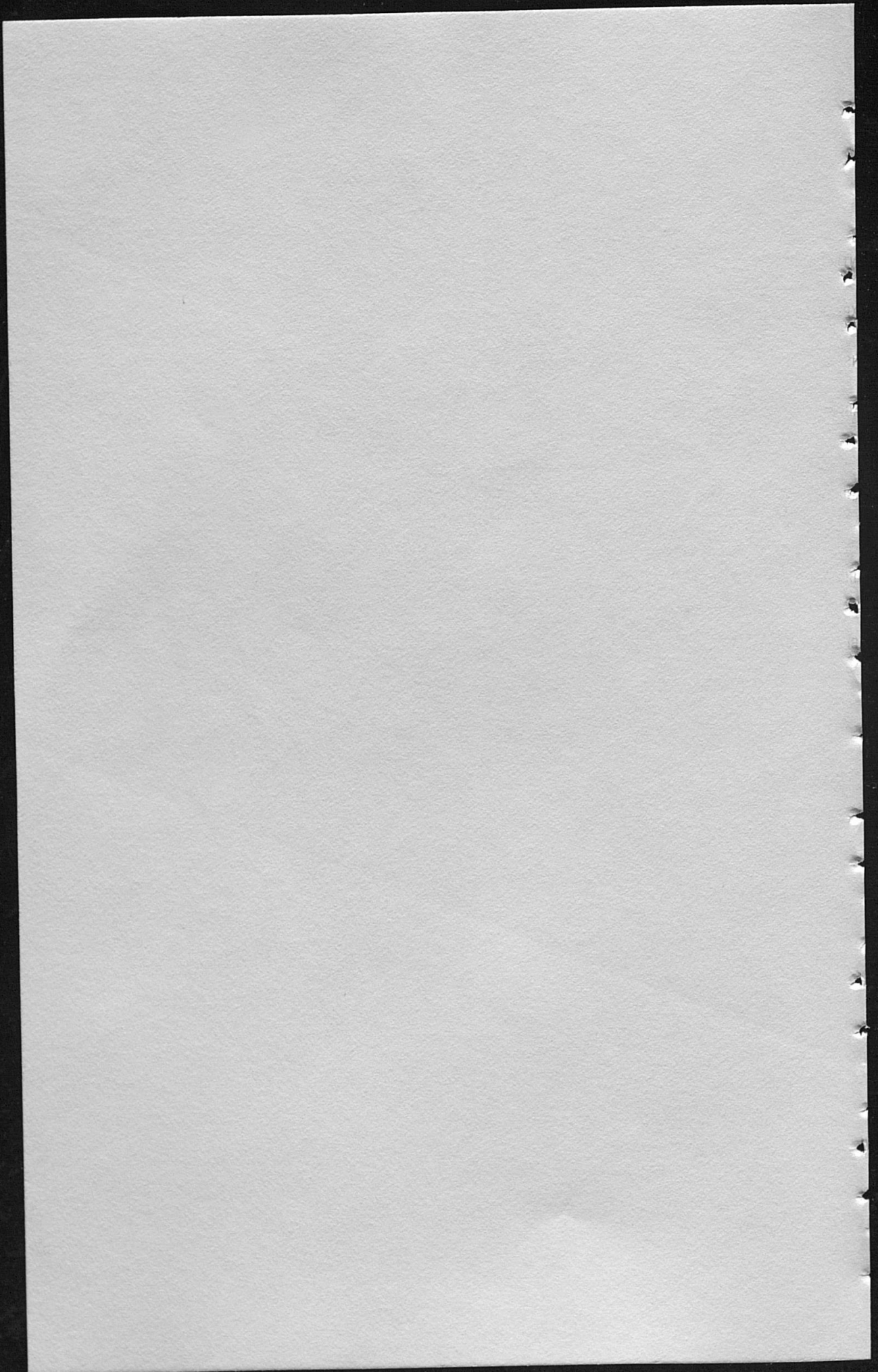


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INTRODUCTION

This bulletin presents the results of analyses of 2,448 official samples of commercial fertilizer taken during the period July 1, 1975 through June 30, 1976 by the field inspection staff. These samples represented approximately 33,000 tons of fertilizer out of the approximately 1,000,000 tons sold during this period. The regulatory laboratory made 2,268 nitrogen, 2,270 phosphorus, 2,232 potassium, and about 940 chloride, secondary, and minor element analyses on these samples. The results of N, P₂O₅, and K₂O analyses of samples of mixed fertilizers and fertilizer materials are in Table 1. An indication of the variation of the N, P₂O₅, and K₂O found among the samples from a specific grade of a specific manufacturer is in Table 2. Table 3 contains the results of secondary and minor element analyses and Table 4 is a listing of fertilizer registrants for Kentucky as of June 30, 1976.

EXPLANATION OF TABLES

TABLE 1.

Every official sample taken during the year is listed in this table. A comparison of the "GRADE" with the laboratory analysis for nitrogen (N), available phosphoric acid (APA), and potash (POT) will show how closely the manufacturer met his chemical guarantee. An additional way of comparing guaranteed with the found analysis is with the relative value shown in the column headed RV. The following example illustrates how this relative value is calculated.

A 5-10-15 fertilizer is guaranteed to contain 5% N, 10% P₂O₅, and 15% K₂O. A "Guaranteed Value" and a "Found Value" are computed for this fertilizer by assigning arbitrary values to the individual nutrients as follows: 2 for N, 2 for P₂O₅, and 1 for K₂O. Thus, the "Guaranteed Value" of the 5-10-15 is calculated as follows:

Element	Guaranteed, %		Factor	=	Value
N	5.0	X	2	=	10.0
P ₂ O ₅	10.0	X	2	=	20.0
K ₂ O	15.0	X	1	=	15.0
Total "Guaranteed Value"				=	45.0

The same procedure is followed for the "Found Value", thus:

Element	Found, %		Factor	=	Value
N	5.1	X	2	=	10.2
P ₂ O ₅	10.2	X	2	=	20.4
K ₂ O	15.1	X	1	=	15.1
Total "Found Value"				=	45.7

The relative value (RV) is then computed by dividing the "Found Value" by the "Guaranteed Value" and multiplying by 100:

$$RV = (45.7/45) \times 100 = 101.6\%$$

The RV is rounded to the nearest whole percent before being printed in the bulletin.

Those results marked with an asterisk (*) are deficient under the criteria stated in the Inspection and Analytical Tolerance section. Occasionally an analysis may be found that appears to be inconsistent in its marking. For example, two samples that are guaranteed 10% P_2O_5 (APA) may both be shown as containing 9.3%. One of these may have an asterisk (*) and the other not. There are two situations which may cause this apparent difference:

(1) The tolerances are calculated by computer and applied to the laboratory analyses before the data are rounded to the nearest tenth of a percent and printed. In the above example, the laboratory found 9.27% for one sample and 9.33% for the other. Only the first one would be marked (*) as deficient.

(2) The grade as printed is the largest whole number in the guarantee of each ingredient. For example, a custom-mixed lot of fertilizer may be guaranteed 11.9% P_2O_5 and 11.2% K_2O . The grade would be printed 0-11-11. However, the tolerances are calculated on the 11.9% and 11.2% guarantees. If this custom mixed fertilizer analyzed 11.0% P_2O_5 and 10.9% K_2O , the 11.0% P_2O_5 would be marked (*) because this analysis is below the 11.9% guarantee by more than the tolerance.

The column headed "NUM" lists the laboratory number of the particular sample. In the column headed "XS CL", an asterisk (*) indicates that the chlorine content of the sample exceeded the maximum chlorine guarantee of the field crop tobacco fertilizer.

Table 2.

The data in this table show the average analysis (AA) and coefficient of variation (CV) for certain grades and the average percentage of guarantee (% of GUAR.) and appropriate CV for all grades sampled for certain companies. An entry was made in this table for a company when one grade was sampled 5 or more times or 10 or more total samples were obtained.

The coefficient of variation is proposed as a useful means for describing variation among samples. The method for doing this will be found in textbooks on statistics and will be illustrated for 10 analyses of a material guaranteed to contain 5% nitrogen:

The formula for computing the coefficient of variation (CV) is:

$$CV = (S/M) \times 100$$

where S = standard deviation

M = average found analysis

The formula for computing S is:

$$S = \sqrt{\frac{\sum X^2 - (\sum X)^2/n}{n - 1}}$$

where X = an individual found analytical result

n = number of analyses

\sum means "Sum of"

Now in our example $n = 10$ and let's assume that the 10 X's are 5.6, 5.5, 5.4, 5.7, 5.5, 5.8, 5.0, 6.0, 5.5, and 5.3.

$$\begin{aligned}\sum X^2 &= 5.6^2 + 5.5^2 + \dots + 5.3^2 = 306.49 \\ (\sum X)^2 &= (55.3)^2 = 3058.09 \\ S &= \sqrt{(306.49 - 3058.09/10)/9} = 0.275\end{aligned}$$

The average found analysis, M, is computed as follows:

$$M = (5.6 + 5.5 + \dots + 5.3)/10 = 5.53$$

Using S and M, the CV can now be computed:

$$CV = (0.275/5.53) \times 100 = 5\%$$

If, in this example, there had been less variation or "scatter", the resulting percentage (CV) would have been smaller. If there had been more variation, it would have been larger. The CV varies directly with the range in values of analyses and inversely with the average analysis.

No matter how much care is exerted in a fertilizer plant, an occasional "wild" batch may appear and subsequently be sampled. Such batches 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 that they have not been included in these statistical determinations. There were 11 samples reported in Table 1 that were excluded from the CV computations reported in Table 2. As a basis for excluding these samples, the following rules were generally followed.

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

TABLE 3 and 4. (Self Explanatory)

INSPECTION AND ANALYTICAL TOLERANCE

A tolerance is allowed for variations that may occur in sampling and chemical analyses. It does not, nor is it intended to allow for variation in the manufacturing process. The manufacturer should compensate for variability in manufacturing techniques and materials when calculating the formula for a given analysis.

The following formula was used to identify those samples of mixed fertilizers which were considered to be deficient in N, P_2O_5 , and K_2O .

IF "FOUND" \leq "GUARANTEE" - "TOLERANCE" THEN "FOUND IS DEFICIENT"

where: "TOLERANCE" = "GUARANTEE" \times 0.03 + 0.4

In words this is: If the "FOUND" analysis is less than or equal to the "GUARANTEED" analysis minus the "TOLERANCE" then the "FOUND" analysis is deemed deficient. The "TOLERANCE" was equal to 3% of the "GUARANTEE" plus 0.4. For example, the tolerance on a 12% guarantee is $12 \times 0.03 + 0.4 = 0.76$. Any found value of 11.24% or less was declared deficient ($12 - 0.76 = 11.24\%$). The relative value (RV) was considered deficient when it was more than 2.5% below 100%. Specifically, if the RV was less than 97.5% it was considered deficient.

Fertilizers sold for use on field crop tobacco must carry a maximum chlorine guarantee which can be no more than 1.5%. Samples were considered excessive in chlorine (XS CL) if they analyzed more than 0.5 above the maximum guaranteed percentage.

A product was considered deficient in calcium (Ca), magnesium (Mg), sulfur (S), boron (B), and iron (Fe) if the sample analyzed less than or equal to $0.9 \times$ "GUARANTEE"; and, deficient in copper (Cu), manganese (Mn), molybdenum (Mo), and zinc (Zn) if the sample analyzed less than or equal to $0.8 \times$ "GUARANTEE". The product was considered misbranded "M" if the sample analyzed as much or more than $2 \times$ "GUARANTEE" for all these elements.

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

TABLE 1. RESULTS OF NITROGEN (N), AVAILABLE PHOSPHORIC ACID (APA), SOLUBLE POTASH (POT), AND EXCESS CHLORIDE (XS CL) ANALYSES OF OFFICIAL FERTILIZER SAMPLES. Deficiencies in N, APA, POT, and RV and excessive chloride are noted with an asterisk (*).

AG/GRC FERTILIZER CO.		WINCHESTER KY			XS CL	RV
GRADE	NUM	N	APA	POT		
0-26-26	40003	0.0	25.0	28.0		100
5-10-15	38501	5.0	9.0*	16.2		98
5-10-15	38630	5.6	11.9	14.1*		108
5-10-15	39012	5.0	9.9	15.9		101
5-10-15	39528	5.4	11.0	15.7		108
5-10-15	39906	5.1	9.2*	15.6		98
5-10-15	39907	5.4	10.7	15.0		105
5-10-15	40269	4.8	9.1*	15.2		96*
5-10-15	40270	5.6	10.6	14.8		105
5-10-15	40272	5.3	10.8	14.9		104
5-10-15	38629	5.2	21.1	21.0		105
5-20-20	39905	5.2	20.0	20.3		101
5-20-20	39913	4.7	18.8*	21.5		98
5-20-20	40168	5.4	19.7	20.3		101
6-12-12	38631	5.6	11.5	13.3		99
10-10-10	39904	9.2*	8.5*	12.7		96*
10-10-10	39908	10.2	10.3	10.1		102
10-10-15	40136	10.3	10.1	16.5		104
10-20-20	38632	9.1*	18.8*	21.0		96*
33- 0- 0	39529	33.8	0.0	0.0		101
AG. SUPPLY CO		HOPKINSVILLE KY			XS CL	RV
GRADE	NUM	N	APA	POT		
6-18- 6	39555	6.7	19.4	6.2		108
AGRI-CHEMICAL INC.		HOPKINSVILLE KY			XS CL	RV
GRADE	NUM	N	APA	POT		
0-23-27	40196	0.0	23.4	29.6		102
7- 9-13	39679	7.8	9.4	14.7		102
10-26-26	39146	10.7	26.9	25.5		102
10-26-26	39147	10.3	26.7	26.1		102
11-28-18	39148	12.2	30.4	18.1		105
19-11-21	39678	22.4	13.7	21.5		112
19-17-16	39676	19.8	18.1	16.6		103
24-13-14	39677	24.8	14.1	15.5		101
AGRICO CHEMICAL CO		TULSA OK			XS CL	RV
GRADE	NUM	N	APA	POT		
0- 0-50	39304	0.0	0.0	49.5		99
0- 0-60	38401	0.0	0.0	60.1		100
0- 0-61	38208	0.0	0.0	61.1		100
0-46- 0	38403	0.0	45.6	0.0		99
11-37- 0	39816	10.9	35.9	0.0		97*
18-46- 0	38402	18.0	46.2	0.0		100
28- 0- 0	38209	27.6	0.0	0.0		98
28- 0- 0	39113	28.0	0.0	0.0		100
45- 0- 0	38207	47.1	0.0	0.0		105
46- 0- 0	39031	45.4	0.0	0.0		99
82- 0- 0	39561	82.0	0.0	0.0		100
AGRICO CHEMICAL CO		WASHINGTON CHOH			XS CL	RV
GRADE	NUM	N	APA	POT		
18-46- 0	38646	18.3	46.0	0.0		100
AGRICO CHEMICAL CO		BOWLING GREENKY			XS CL	RV
GRADE	NUM	N	APA	PCT		
0-25-25	38166	0.0	27.1	26.3		106
3-14-14	38146	6.2	22.3	16.7		144
10-10-10	38137	9.0*	10.4	12.2		102

TABLE 1. (Continued)

AGRICC CHEMICAL CO		CECILIA		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
4-23-23	38086	5.8	23.4	24.8		104
5-10-15	38777	5.5	11.1	13.3*		103
5-10-15	38876	5.6	11.6	15.0		110
5-10-15	39173	5.4	9.7	15.7		102
5-10-15	39361	5.0	9.5	14.9		98
5-10-15	40052	4.8	9.5	15.4		98
5-20-20	38778	4.9	18.6*	17.5*		92*
5-20-20	39360	5.3	20.9	18.1*		100
6-12-12	39174	8.1	14.9	12.4		122
6-12-12	39359	5.7	12.0	14.0		103
10-10-10	38310	9.9	9.9	9.8		98
10-10-10	38421	12.5	12.9	12.9		127
10-10-10	38546	9.9	9.7	10.6		100
10-10-10	38776	10.5	9.3	8.4*		96*
10-10-10	39357	10.0	9.8	10.2		100
10-10-10	39358	10.4	9.8	9.8		100
10-10-10	38874	9.4	8.6*	10.2		92*
12-19-18	39961	11.2*	16.5*	25.0		98
15-15-15	38875	15.7	14.6	13.4*		99
15-15-15	39172	15.8	17.1	14.8		107
15-15-15	40053	17.5	16.1	12.3*		106
18-18-18	39960	18.0	18.7	18.6		101
19-16-21	39959	21.3	16.1	20.1*		100
26-13- 8	39963	26.3	12.4*	10.3		100
34-19- 0	39962	35.6	18.3	0.0		101
AGRICC CHEMICAL CO		CLARKSON		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
4-16-16	38094	4.1	19.5	17.7		114
9-18-27	40241	11.8	18.2	26.1*		104
11-30-20	39233	11.8	31.3	20.3		101
16-16-21	40239	14.2*	14.7*	25.6		96*
17-14-21	40240	16.6*	14.5	23.6		100
19-19-19	39232	17.6*	19.0	21.2		99
AGRICC CHEMICAL CO		CLAY		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0-14-40	38069	0.0	13.5	42.6		102
7-18-36	38067	7.8	20.1	35.8		107
7-18-36	39386	7.3	18.2	38.1		103
7-18-36	39742	7.9	21.0	34.1*		107
11-16-32	39387	11.5	17.6	33.1		104
AGRICC CHEMICAL CO		FREDONIA		KY		
GRADE	NUM	N	APA	PCT	XS CL	RV
6-18-36	40356	8.8	21.7	32.2*		111
7- 7- 7	38026	12.3	10.7	4.6*		127
17-23-18	39570	20.3	27.9	12.6*		107
25- 9-19	39571	26.8	10.5	19.4		105
26-18-11	39569	21.5*	22.5	14.1		101
AGRICC CHEMICAL CO		HARTFORD		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0-23-30	39955	0.0	23.8	30.5		102
5-23-23	39545	7.4	24.4	22.8*		103
9-23-30	39957	9.5	24.0	29.0*		101
18-19-19	39544	19.3	20.6	17.2*		102
24-15-15	39956	21.6*	15.5	20.3		98
AGRICC CHEMICAL CO.		HENDERSON		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-61	37997	0.0	0.0	59.7		98

TABLE 1. (Continued)

AGRICO CHEMICAL CO.		HENDERSON			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-15-40	39030	0.0	15.3	40.9		101
0-15-40	39034	0.0	14.6	42.3		102
0-23-30	39032	0.0	24.6	28.9		103
0-23-30	39731	0.0	27.0	22.4*		101
0-44-0	37996	0.0	45.4	0.0		103
4-25-25	38070	4.9	27.5	25.6		106
6-24-24	38071	5.5	24.0	28.8		104
15-15-15	39383	12.7*	12.1*	19.6		92*
16-20-0	40349	16.7	19.2	0.0		100
18-46-0	37998	17.6	47.2	0.0		101
28-0-0	37905	28.0	0.0	0.0		100
28-0-0	37926	28.9	0.0	0.0		103
28-0-0	37943	28.5	0.0	0.0		102
82-0-0	37946	81.8	0.0	0.0		100
82-0-0	37961	81.4	0.0	0.0		99
82-0-0	38145	82.0	0.0	0.0		100
AGRICO CHEMICAL CO		HODGENVILLE			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
12-24-24	39134	13.3	25.1	24.5		102
19-19-19	39135	18.2	19.1	21.8		101
19-19-19	40054	19.0	20.4	20.1		101
19-19-19	40055	20.0	20.0	17.4*		100
AGRICO CHEMICAL CO		HORSE CAVE			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
3-14-14	38089	3.5	13.6*	19.5		107
8-21-26	39468	7.5*	17.6*	29.4		92*
9-23-23	39471	8.7	20.6*	28.5		97*
10-10-10	38088	8.8*	10.8	19.2		109
19-19-19	39469	16.9*	20.0	22.3		99
25-9-14	40231	21.5*	11.5	19.2		99
29-6-10	40232	22.0*	8.6	17.3		94*
29-9-13	39470	25.4*	10.2	18.2		97*
AGRICO CHEMICAL CO		IRVINGTON			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-19	39112	0.0	20.2	18.9*		99
10-20-21	39114	10.3	20.4	21.4		101
14-37-11	38044	13.2*	35.8*	14.2		97*
AGRICO CHEMICAL CO		MADISONVILLE			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-28	37989	0.0	21.9	27.4		103
3-14-14	38159	4.1	14.1	17.1		107
8-21-14	38160	9.0	21.6	12.9*		100
9-23-30	39515	7.6*	20.9*	32.4		95*
9-23-30	39516	7.8*	19.8*	34.7		96*
10-10-10	40198	11.8	11.9	11.4		118
AGRICO CHEMICAL CO		MORGANFIELD			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-13-43	38924	0.0	14.2	42.1		101
0-15-39	38188	0.0	16.6	39.9		104
0-18-35	38186	0.0	22.3	32.6*		107
0-23-29	38204	0.0	18.7*	36.2		95*
0-24-24	38152	0.0	21.0*	31.2		99
2-6-10	38187	2.0	6.0	10.5		102
7-22-30	38032	7.2	22.4	32.0		99
8-8-10	38153	7.9	6.3*	9.5		90*
12-24-24	38923	11.7	24.4	26.7		100
14-6-11	39814	12.8*	9.6	10.7*		100

TABLE 1. (Continued)

AGRICC CHEMICAL CO		MORGANFIELD KY				
GRADE	NUM	N	APA	POT	XS CL	RV
19-19-19	38926	21.2	19.3	17.6*		101
AGRICC CHEMICAL CO		CWENSBORO KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-23-30	38920	0.0	25.8	28.0*		105
0-23-30	38921	0.0	22.4	32.2		101
0-23-30	39578	0.0	24.3	29.7		103
5-20-20	37910	6.0	22.2	12.7*		99
5-23-23	38821	7.0	26.5	21.8*		110
6-24-24	38157	5.2*	24.4	20.9*		95*
6-24-24	38158	4.4*	24.9	24.2		98
9-23-30	39579	9.0	23.2	30.7		101
9-23-30	40037	8.4	20.8*	33.0		97*
14-14-14	40038	15.6	18.8	18.8		120
AGRICC CHEMICAL CO		RUSSELLVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
5-20-20	39350	5.8	20.2	20.9		104
10-10-10	39349	8.6*	10.8	10.3		98
10-10-15	40086	10.0	9.4	14.0*		96*
21-10-10	39830	21.9	12.0	10.5		104
23- 6- 6	38565	21.2*	7.7	9.2		102
AGRICC CHEMICAL CO		STURGIS KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-33	38106	0.0	19.4	34.8		100
0-21-32	38928	0.0	21.1	33.0		100
0-21-32	39385	0.0	17.5*	38.8		99
12-12-12	38191	12.5	13.5	17.2		113
AIR PRODUCTS & CHEMICALS INC.		PENSACOLA FL				
GRADE	NUM	N	APA	POT	XS CL	RV
33- 0- 0	38750	33.4	0.0	0.0		100
ALLEN CO. FARMERS SERVICE		SCOTTSDALE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
11-14-20	38899	15.4	16.7	20.4		118
15-13-20	40103	14.6*	14.1	22.5		103
15-16-16	38898	15.6	16.6	16.5		102
ALLIED CHEM CORP-UNION TX PET		HOUSTON TX				
GRADE	NUM	N	APA	POT	XS CL	RV
21- 0- 0	38647	21.4	0.0	0.0		102
AMERICAN CYANAMID CO.		PRINCETON NJ				
GRADE	NUM	N	APA	POT	XS CL	RV
18-46- 0	40234	18.8	46.6	0.0		102
34- 0- 0	38639	34.3	0.0	0.0		101
34- 0- 0	38707	34.0	0.0	0.0		100
34- 0- 0	39014	34.0	0.0	0.0		100
34- 0- 0	39269	34.5	0.0	0.0		101
34- 0- 0	39331	34.6	0.0	0.0		102
THE ANDERSONS, SPECIALTIES DIV		MAUMEE OH				
GRADE	NUM	N	APA	POT	XS CL	RV
19-19-19	39109	18.4	20.2	19.9		102
ASKEW FARM SERVICE		HOPKINSVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-26-26	40068	0.0	22.6*	30.3		97*
5-20-20	40067	5.0	18.4*	19.8		95*
8- 8-13	40205	9.7	9.3	13.5		106
29-26- 0	38685	28.0*	27.1	0.0		98
AYERS SEED & FERTILIZER		MORGANTOWN KY				
GRADE	NUM	N	APA	POT	XS CL	RV
17-17-17	40375	15.9*	13.9*	23.3		93*

TABLE 1. (Continued)

JAMES C. BAILEY		MAYFIELD		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
6-16-16	39789	6.8	15.8	15.9			101
13-10-10	40066	12.2*	12.0	11.0			99
BALLARD CO. COOP.		LA CENTER		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
13-18-24	39461	13.7	18.3	27.3			103
20-18-12	40062	20.0	18.1	14.3			100
BARREN RIVER FERT. CO., INC		GLASGOW		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-60	40119	0.0	0.0	58.9			98
0-46- 0	40120	0.0	40.0*	0.0			87*
5-10-15	38973	6.2	10.0	15.6			106
5-10-15	39058	5.5	11.6	13.9*			107
5-10-15	39489	5.4	8.8*	15.6			98
5-10-15	39550	5.9	12.3	13.6*			111
5-10-15	39631	6.3	10.8	13.6*			106
5-10-15	39705	4.2*	6.9*	23.4			101
5-10-15	39706	5.7	9.1*	16.2			102
5-10-15	39805	5.8	10.8	15.3			108
5-10-15	39818	7.7	12.6	13.0*			119
5-10-15	39921	4.9	8.2*	18.8			100
5-10-15	40121	4.9	9.9	14.8			98
5-10-15	40215	4.4*	9.9	17.6			103
5-10-15	40227	5.5	9.6	11.7*			93*
5-10-15	40251	6.1	9.7	7.9*			88*
5-20-19	39018	4.5	16.4*	22.2			92*
5-20-20	39059	5.7	21.0	18.7*			103
5-20-20	39632	5.2	12.5*	20.0			79*
5-20-20	40314	5.8	23.0	14.5*			103
5-20-20	40342	5.8	21.6	18.4*			104
6-12-12	40318	9.6	13.1	9.1*			113
6-24-24	39954	6.7	23.8	23.8			101
10-10-10	38949	10.8	11.2	9.8			108
10-10-10	38974	8.3*	9.3*	11.0			92*
10-10-10	39119	9.7	10.3	13.9			108
10-10-10	39551	12.5	12.9	8.8*			119
10-10-10	39699	9.6	10.0	11.0			100
10-10-10	39724	10.7	11.7	7.0*			103
10-10-10	39725	10.2	12.4	10.5			111
10-10-10	39804	9.8	11.3	7.7*			99
10-10-10	39817	11.4	13.8	6.5*			114
10-10-10	40226	9.8	9.6	10.3			98
10-10-10	40399	9.9	10.6	8.7*			99
10-10-10	39017	11.8	7.8*	11.5			101
10-20-20	40252	10.1	19.9	18.2*			98
10-20-20	40402	7.7*	19.1	22.7			95*
12- 8-10	40250	11.8*	7.3*	9.1*			89*
12-24-24	39703	13.8	29.5	17.6*			109
12-24-24	39704	11.8	20.3*	27.5			95*
12-24-24	40116	16.4	24.3	16.6*			102
12-24-24	40117	13.1	25.1	21.1*			102
12-24-24	40118	13.7	25.1	20.8*			102
14-14-13	38741	13.9	9.4*	18.3			91*
15- 0- 0	40400	15.3	0.0	0.0			102
20-10-10	38110	20.4	11.1	10.1			104
46- 0- 0	40401	46.1	0.0	0.0			100

TABLE 1. (Continued)

BIG FOUR FEED & IMPLEMENT CO		SCOTTSVILLE		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
9-10-10	38901	10.1	10.5	13.8		111
11-16-24	40099	6.9*	8.7*	35.6		83*
BIG 4 FERT & CHEM CO.		BARDSTOWN		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
10-25-26	38847	10.4	27.4	26.0		103
12-30-20	39624	11.2*	29.6	22.3		98
14-13-26	39864	14.9	10.2*	28.2		96*
21-13-12	40184	21.7	12.6	15.5		101
26- 0-12	40185	25.1*	0.0	16.6		102
BISHOP CO.-DIV LEBANON CHEM		LEBANON		PA		
GRADE	NUM	N	APA	POT	XS CL	RV
18- 5- 9	39043	17.9	5.0	9.5		101
BOURBON FARM SERVICE		PARIS		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
16- 9-14	40298	16.6	10.6	13.8*		101
19- 6-16	39840	19.8	7.0	16.7		102
OTIS BRYANT & SON MILLING CO.		CANEYVILLE		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
9-23-20	38090	9.4	24.1	23.3		107
10-25-25	40384	11.9	29.4	20.6*		106
19-19-19	39770	17.6*	19.3	22.7		99
21-16-18	39237	18.5*	16.8	23.2		98
BUPKHART FEED MILL		AUBURN		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0-40- 0	39829	0.0	40.5	0.0		101
BURLEY BELT CHEMICAL CO.		LEXINGTON		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-50	38705	0.0	0.0	50.0		100
5-10-15	38585	5.1	10.4	14.8		101
5-10-15	38702	5.8	9.9	14.8		102
5-10-15	39758	6.2	12.5	9.5*		104
5-10-15	39761	5.2	10.3	15.1		102
5-20-20	38984	5.5	19.8	19.8		100
5-20-20	38998	5.4	19.5	20.0		100
5-20-20	39756	6.7	21.9	15.7*		104
6-12-12	39760	6.2	12.1	12.3		101
8-10-15	38704	8.8	8.9*	15.8		100
10- 0-20	39497	10.9	0.0	20.0		102
10-10-10	38584	10.0	10.8	10.3		104
10-10-10	38703	8.9*	10.2	9.8		96*
10-10-10	39757	12.0	17.4	5.7*		129
10-10-10	39759	8.3*	9.1*	12.6		95*
10-10-10	39763	9.5	10.5	11.1		102
10-10-20	39609	9.4	10.6	20.0		100
12-12-12	39762	11.9	12.2	12.4		101
16- 0-19	39603	14.9*	0.0	22.1		99
BURLEY BELT CHEMICAL CO.		CYNTHIANA		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15	40123	5.8	10.2	16.0		106
6-12-12	40124	6.5	13.9	10.8*		107
BURLEY BELT CHEMICAL CO.		LONDON		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0-20- 0	38652	0.0	18.8*	0.0		94*
0-20-20	38955	0.0	20.6	19.8		101
0-20-20	39192	0.0	18.0*	21.3		95*
0-20-20	39292	0.0	20.2	17.6*		96*
0-46- 0	38953	0.0	45.7	0.0		99

TABLE 1. (Continued)

BURLEY BELT CHEMICAL CO.		LONDON		KY		XS CL	RV
GPADE	NUM	N	APA	POT			
0-46- 0	39278	0.0	45.5	0.0			99
0-46- 0	39712	0.0	46.6	0.0			101
4-16- 4	38416	4.5	15.0*	4.5			99
4-16- 4	38458	4.4	15.0*	4.2			98
4-16- 4	38596	4.4	15.6	4.0			100
4-16- 4	38670	4.1	15.8	3.9			99
4-16- 4	38693	5.0	15.0*	4.7			101
4-16- 4	38951	4.3	16.0	4.5			102
5-10-10	40156	5.7	10.1	9.3	*		103
5-10-15	38039	5.0	10.1	13.8*			98
5-10-15	38202	5.3	9.8	14.9			100
5-10-15	38248	5.4	10.1	15.4			103
5-10-15	38357	4.9	9.9	15.8			101
5-10-15	38415	4.8	10.1	14.1*			98
5-10-15	38494	5.1	10.3	14.8			101
5-10-15	38500	4.7	10.6	15.1			101
5-10-15	38537	5.1	9.9	15.0			100
5-10-15	38577	5.1	10.4	14.8			101
5-10-15	38594	5.0	10.0	14.8			99
5-10-15	38598	5.3	9.7	15.1			100
5-10-15	38653	5.3	10.2	15.4			103
5-10-15	38671	5.2	10.3	15.9			104
5-10-15	38718	5.8	9.7	15.5			103
5-10-15	38720	5.0	10.4	15.9			104
5-10-15	38722	5.3	10.4	16.0			105
5-10-15	38723	4.9	10.2	14.8			100
5-10-15	38786	5.5	10.3	15.2			104
5-10-15	38832	5.0	10.7	13.9*			101
5-10-15	38913	5.0	10.5	15.9	*		104
5-10-15	38914	6.5	10.3	15.6			109
5-10-15	38954	4.9	10.6	14.8			102
5-10-15	38956	6.1	10.5	14.8			106
5-10-15	38961	5.0	10.7	15.4			104
5-10-15	39048	5.4	10.4	15.3			104
5-10-15	39079	5.5	9.9	15.1			102
5-10-15	39085	4.9	10.2	15.0			100
5-10-15	39129	5.1	10.3	15.4			102
5-10-15	39185	5.0	10.4	16.0			104
5-10-15	39207	5.0	10.5	14.8			102
5-10-15	39274	5.3	9.9	15.1			101
5-10-15	39421	5.9	10.4	15.1			106
5-10-15	39494	5.9	10.3	15.5			107
5-10-15	39582	4.9	10.0	15.1			99
5-10-15	39716	5.7	10.6	15.1			106
5-10-15	39810	4.8	10.0	14.1*			97*
5-10-15	40035	5.4	10.6	15.3			105
5-10-15	40223	5.8	10.4	15.3			106
5-10-15	40299	6.1	10.8	16.0			110
5-10-15	40324	6.1	10.2	15.7			107
5-10-15	40332	5.8	10.5	16.1			108
5-10-15	40334	5.1	10.2	15.2			102
5-10-15	40387	5.6	10.4	15.5			106
5-10-15	40406	5.7	10.6	15.5			107
5-10-15	39125	6.2	10.1	16.0			108
5-10-15	39711	5.3	11.1	14.8			106
5-10-15	40195	5.6	10.5	15.2			105
5-20-20	38231	4.9	13.8*	19.8			96*

TABLE 1. (Continued)

BURLEY BELT CHEMICAL CO.		LONDON		KY		XS CL	RV
GRADE	NUM	N	APA	PDT			
5-20-20	38296	5.5	19.1	19.2			97*
5-20-20	38495	4.9	18.7*	18.5*			94*
5-20-20	38538	5.2	18.0*	18.5*			93*
5-20-20	38593	5.4	17.6*	19.1			93*
5-20-20	38719	4.9	19.0	18.9*			95*
5-20-20	38833	5.3	18.9*	19.8			97*
5-20-20	38959	5.2	18.9*	19.8			97*
5-20-20	39184	5.1	19.2	20.5			99
5-20-20	39246	5.6	18.4*	19.8			97*
5-20-20	39289	5.8	18.6*	21.3			101
5-20-20	39914	6.1	20.3	15.0*			97*
5-20-20	40149	6.5	18.7*	17.8*			97*
5-20-20	40331	9.2	11.7*	11.4*			76*
5-20-20	38724	5.0	19.7	19.8			99
5-20-20	39126	5.2	19.2	20.1			99
6- 6-18	39809	6.9	5.6	18.9			105
6-12-12	37902	5.3*	11.1*	11.5			92*
6-12-12	38201	5.2*	11.4	11.8			94*
6-12-12	38247	5.3*	11.9	12.5			98
6-12-12	38299	5.9	11.9	11.1*			97*
6-12-12	38365	6.0	12.5	12.8			104
6-12-12	38496	5.0*	8.3*	15.2			87*
6-12-12	38578	5.5	11.9	11.9			97*
6-12-12	39078	6.0	11.8	11.8			99
6-12-12	39080	6.5	12.3	11.9			103
6-12-12	39082	6.1	11.9	11.9			100
6-12-12	39127	5.7	12.3	12.8			101
6-12-12	39308	6.3	12.5	11.3			103
6-12-12	39776	8.3	12.3	12.4			111
6-12-12	40152	5.9	12.1	11.8			99
6-12-18	38232	5.8	11.8	17.8			98
6-12-18	38297	5.9	11.9	17.5			98
6-12-18	38417	5.4*	16.5	17.5	*		114
6-12-18	39276	5.5	13.8	18.6	*		106
7- 0- 0	39176	6.9	0.0	0.0			99
7- 0- 0	39633	6.5	0.0	0.0			93*
7- 0- 0	39717	7.0	0.0	0.0			100
8-10-15	38413	8.4	9.8	13.3*			98
8-10-15	38717	6.8*	10.0	15.5			96*
8-10-15	38915	7.2*	11.2	15.7			103
8-10-15	39495	7.9	9.8	16.8			102
10-10-10	39279	9.3	10.3	9.8			98
10-10-10	37955	9.7	10.3	9.4			99
10-10-10	37987	9.8	10.2	9.9			99
10-10-10	37993	8.9*	10.7	9.8			98
10-10-10	38038	9.0*	10.0	9.9			96*
10-10-10	38058	9.2*	10.1	9.3*			96*
10-10-10	38168	9.3*	10.1	10.1			98
10-10-10	38200	9.7	9.9	9.2*			97*
10-10-10	38249	9.0*	10.1	10.1			96*
10-10-10	38358	9.2*	10.1	9.9			97*
10-10-10	38418	9.0*	10.2	9.9			96*
10-10-10	38493	10.2	10.5	10.1			103
10-10-10	38498	9.5	10.0	12.3			102
10-10-10	38580	10.3	10.7	10.0			104
10-10-10	38597	10.2	10.7	9.9			103
10-10-10	38654	10.1	10.1	10.3			101

TABLE 1. (Continued)

BURLEY BELT CHEMICAL CO. GRADE	NUM	LONDCN		KY	XS CL	RV
		N	APA	POT		
10-10-10	38692	9.0*	10.2	9.8		97*
10-10-10	38721	9.6	10.2	10.0		99
10-10-10	38725	9.9	11.7	8.9*		104
10-10-10	38787	9.9	10.8	10.2		103
10-10-10	38834	10.3	10.8	9.9		104
10-10-10	38908	9.9	10.2	10.4		101
10-10-10	38911	10.3	10.9	9.8		104
10-10-10	38960	9.2*	10.4	10.0		98
10-10-10	39047	9.3*	10.5	11.7		102
10-10-10	39081	10.1	10.0	10.8		102
10-10-10	39084	9.0*	10.3	9.8		97*
10-10-10	39128	10.0	10.5	10.6		103
10-10-10	39241	8.9*	10.4	9.9		97*
10-10-10	39245	10.8	10.2	10.4		104
10-10-10	39309	10.4	10.4	10.4		104
10-10-10	39396	10.5	10.9	11.0		108
10-10-10	39422	10.7	10.6	9.8		105
10-10-10	39496	10.6	10.6	9.9		105
10-10-10	39777	9.8	10.3	10.2		101
10-10-10	39841	10.2	10.3	11.5		105
10-10-10	39911	9.9	9.2*	11.7		100
10-10-10	40151	10.5	10.9	10.8		107
10-10-10	40157	10.2	11.2	10.3		106
10-10-10	40171	11.0	11.3	9.0		109
10-10-10	40180	9.8	9.9	10.0		99
10-10-10	40286	9.9	10.8	10.4		104
10-10-10	40290	10.2	11.2	9.9		105
10-10-10	40330	9.7	10.2	10.0		100
10-10-10	40333	10.2	10.7	10.3		104
10-10-10	38047	9.6	9.5	9.8		96*
10-10-10	39124	9.9	10.7	10.3		103
10-10-10	40194	9.9	10.4	10.9		103
10-10-15	38135	9.6	9.9	14.3		97*
10-10-15	38262	9.1*	9.9	14.9		96*
10-10-15	38263	9.1*	10.1	15.3		98
10-10-15	38264	9.4	9.4	14.8		95*
10-10-15	40034	9.5	10.3	15.2		99
10-10-20	38853	9.8	10.5	18.8*		99
10-10-20	39290	10.0	11.3	18.8*		102
10-20-20	37954	10.6	21.2	16.2*		100
10-20-20	39275	10.2	20.4	18.8*		100
12- 4- 8	38604	7.8*	12.0	8.9		121
12-12-12	38414	12.0	11.7	11.8		98
12-12-12	39083	11.5	12.5	12.1		100
12-12-12	39310	12.4	12.3	12.0		102
12-12-12	39313	12.8	12.8	11.8		105
12-12-12	40150	12.3	12.3	13.7		105
12-12-12	40182	12.2	12.4	13.1		104
12-12-12	40323	10.9*	11.7	12.7		96*
12-12-12	40335	10.5*	10.6*	10.2*		87*
15-30- 0	37953	12.9*	29.1	0.0		93*
16- 8- 8	38096	14.6*	9.1	7.3*		97*
16-13-19	40301	16.3	13.9	19.6		103
18- 6- 9	40300	19.6	6.5	9.8		104
20-40- 0	38298	20.2	40.5	0.0		101
21-53- 0	39277	20.6	53.7	0.0		100
24- 0-20	40359	24.8	0.0	19.7		102

TABLE 1. (Continued)

BURLEY BELT CHEMICAL CO.		LONDON		KY		XS	CL	RV
GRADE	NUM	N	APA	PCT				
33- 0- 0	38041	34.7	0.0	0.0				103
33- 0- 0	39098	34.7	0.0	0.0				103
33- 0- 0	39108	34.7	0.0	0.0				103
BURLEY BELT CHEMICAL CO.		FERGUSON		KY		XS	CL	RV
GRADE	NUM	N	APA	PCT				
0-14-29	39096	0.0	14.3	29.4				97*
0-20-20	39599	0.0	19.3	31.1				116
4- 0-19	39105	6.3	0.0	18.4*				104
4-16- 4	38579	4.5	15.4	3.9				99
5-10-15	38274	4.9	10.4	14.4				100
5-10-15	38326	4.9	10.2	15.4				101
5-10-15	38651	5.0	10.3	14.8				101
5-10-15	39007	5.1	10.4	14.8				101
5-10-15	39107	5.0	10.8	14.8				103
5-20-20	38019	5.2	18.5*	19.8				96*
5-20-20	38324	5.3	18.9*	19.2				96*
5-20-20	38531	5.0	18.1*	19.9				94*
5-20-20	38963	5.0	20.0	18.4*				98
5-20-20	39094	5.3	20.3	17.3*				98
5-20-20	39095	5.6	19.7	18.0*				98
5-20-20	39106	5.5	20.0	17.4*				98
5-20-20	39853	6.1	24.5	12.9*				106
6-12-12	38239	5.7	11.9	11.8				97*
6-12-12	39333	6.3	13.1	13.0				108
6-12-12	39854	5.8	13.0	11.0*				101
8- 8- 8	39097	8.1*	8.8	8.8				95*
10-10-10	38325	9.1*	10.1	10.2				97*
10-10-10	38530	9.9	9.9	11.0				101
10-10-10	39006	9.3*	10.0	9.9				97*
10-10-10	40144	10.0	10.5	10.3				103
10-10-10	39598	10.1	10.2	9.9				101
BURLEY BELT CHEMICAL CO.		GEORGETOWN		KY		XS	CL	RV
GRADE	NUM	N	APA	PCT				
5-10-15	39604	3.9*	11.1	17.9				106
10-10-10	40122	11.3	12.1	10.9				115
BURLEY BELT CHEMICAL CO.		HARRODSBURG		KY		XS	CL	RV
GRADE	NUM	N	APA	PCT				
10-13-32	39426	11.4	12.6	29.7*				96*
12- 7-10	40188	10.4*	8.3	11.7				97*
BURLEY BELT CHEMICAL CO.		RUSSELL SPRNG		KY		XS	CL	RV
GRADE	NUM	N	APA	PCT				
4- 9- 9	38057	6.0	10.5	10.2				118
5-11-11	38799	6.8	13.5	11.9				116
5-20-20	39378	5.3	19.2	21.0				99
7- 9-13	39431	7.2	9.4	13.8				101
10-10-10	38800	10.0	10.9	10.7				105
10-10-10	39379	10.9	11.6	10.8				108
10-10-10	39380	10.1	10.1	10.8				101
CAMPBELLSVILLE CROP SERVICE		CAMPBELLSVILLE		KY		XS	CL	RV
GRADE	NUM	N	APA	PCT				
6-26-25	38979	6.5	26.6	25.9				101
18-17-17	38980	18.0	17.5	17.4				99
CARLISLE FERTILIZER		BARDWELL		KY		XS	CL	RV
GRADE	NUM	N	APA	PCT				
9-23-30	39796	8.8	21.8*	31.0				98

TABLE 1. (Continued)

DONALD CARNEY & SON		SPRINGFIELD KY			XS CL	RV
GRADE	NUM	N	APA	POT		
9- 7-11	39890	8.8	7.6	9.5*		93*
15-13-20	39889	15.9	12.5*	20.3		99
CAUDILL SEED CO.		SHELBYVILLE KY			XS CL	RV
GRADE	NUM	N	APA	POT		
0-23-25	39983	0.0	20.6*	28.6		97*
0-23-30	38587	0.0	24.9	28.8		103
5-10-15	38588	4.5	9.8	15.5		98
6-17-37	39614	5.2*	12.9*	43.4		93*
6-23-24	39982	11.9	17.7*	26.4		101
10- 0-43	39615	8.4*	0.0	46.8		97*
10-10-10	38589	10.0	10.5	10.6		103
13-13-13	38590	12.7	12.0*	13.0		96*
18- 9- 9	39984	19.1	7.6*	10.0		100
23-15-16	38850	23.9	15.0*	17.8		100
C.F. CHEMICALS, INC.		BARTOW FL			XS CL	RV
GRADE	NUM	N	APA	POT		
0-44- 0	38199	0.0	41.8*	0.0		95*
0-44- 0	38302	0.0	45.5	0.0		103
0-44- 0	39247	0.0	44.1	0.0		100
18-46- 0	38301	18.1	46.7	0.0		101
CHEVRON CHEMICAL CO-ORTHO DIV		RICHMOND CA			XS CL	RV
GRADE	NUM	N	APA	POT		
8- 8- 8	37915	8.5	8.5	8.8		106
12- 6- 6	37887	12.4	6.2	6.2		104
24- 4- 8	38163	25.2	4.4	8.0		105
33- 0- 0	39533	34.1	0.0	0.0		102
CHILEAN NITRATE SALES CORP.		NEW YORK NY			XS CL	RV
GRADE	NUM	N	APA	POT		
16- 0- 0	39487	15.8	0.0	0.0		99
CHRISTIAN CO. SUPPLY CO.		HOPKINSVILLE KY			XS CL	RV
GRADE	NUM	N	APA	POT		
0-20-20	37990	0.0	10.3*	14.1*		58*
0-20-20	38813	0.0	20.0	16.9*		95*
0-40- 0	38814	0.0	42.4	0.0		106
3-14-14	38061	4.4	14.7	15.3		107
5-10-15	39894	6.5	12.6	14.0*		116
5-20-20	39895	5.0	19.9	22.1		103
6-12-18	39149	10.4	12.4	21.3	*	124
10-10-10	38062	9.3	14.0	7.7*		109
10-10-10	38815	9.4	13.4	14.9		121
10-10-10	38816	11.9	9.8	7.6*		102
10-20-20	38063	9.4	19.2	18.2*		94*
CIRCLE O FARM CENTER		MARION KY			XS CL	RV
GRADE	NUM	N	APA	POT		
4-12-16	38027	4.0	13.9	17.2		110
10- 5- 5	38266	8.1*	3.0*	4.0*		75*
10- 5- 5	38267	10.6	5.1	5.4		105
10-34- 0	38130	11.1	33.3	0.0		101
10-34- 0	38360	10.1	34.8	0.0		102
10-34- 0	38361	10.1	35.2	0.0		103
12- 6- 6	37879	11.2*	5.7	6.4		95*
13- 8-12	39733	13.5	8.0	10.3*		99
14- 3- 0	38556	12.7*	8.1	0.0		118
16-10-10	39734	15.6	8.9*	10.1		95*
CIRCLE O FARM CENTER		STURGIS KY			XS CL	RV
GRADE	NUM	N	APA	POT		
3-10-25	39684	3.1	11.2	25.1		105

TABLE 1. (Continued)

CIRCLE C FARM CENTER		STURGIS		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
5-11-19	39815	6.3	13.5	19.5		107
8-12-24	38931	8.3	11.9	23.6		100
8-25-0	40348	8.2	26.5	0.0		105
10-5-5	38932	10.2	4.8	5.4		101
10-34-0	40190	10.5	33.2	0.0		99
10-34-0	38562	9.9	35.0	0.0		102
13-0-0	38560	13.4	1.9	0.0		108
13-6-0	38559	12.4*	9.3	0.0		111
COMMERCIAL SOLVENTS CCRP.		NEW YORK		NY		
GRADE	NUM	N	APA	POT	XS CL	RV
33-0-0	38863	34.0	0.0	0.0		101
33-0-0	39138	33.4	0.0	0.0		100
CRAFTON & DUNCAN INC.		HENDERSON		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
16-6-11	40045	15.4*	6.6	11.7		95*
16-7-11	39813	16.4	6.9	12.5		98
20-5-8	38125	23.9	3.4*	4.1*		99
CRITTENDEN CO. FARM SUPPLY		MARION		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
6-26-26	39143	6.8	25.7	26.6		100
7-19-17	38023	8.3	20.7	17.0		102
22-15-11	39144	22.4	15.6	11.7		102
FARMERS CHEMICAL CO.		HARRISON		TN		
GRADE	NUM	N	APA	POT	XS CL	RV
28-0-0	37904	28.2	0.0	0.0		101
28-0-0	38095	27.2	0.0	0.0		97
28-0-0	38242	28.8	0.0	0.0		103
28-0-0	39064	27.7	0.0	0.0		99
28-0-0	39328	28.1	0.0	0.0		100
28-0-0	39425	28.7	0.0	0.0		103
28-0-0	39435	28.4	0.0	0.0		101
28-0-0	39559	27.9	0.0	0.0		100
34-0-0	37988	34.2	0.0	0.0		99
34-0-0	37994	34.6	0.0	0.0		100
34-0-0	37995	34.3	0.0	0.0		99
34-0-0	38128	34.9	0.0	0.0		101
34-0-0	38172	34.5	0.0	0.0		100
34-0-0	40058	34.0	0.0	0.0		99
34-0-0	38198	34.7	0.0	0.0		100
FARMERS FEED & FERTILIZER		SCOTTSVILLE		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
3-7-8	38167	5.2	9.1	8.9		117
16-0-30	39224	16.3	0.0	30.8		99
FARMERS FERTILIZER COMPANY		SMITHS GROVE		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0-0-50	39486	0.0	0.0	52.8		106
0-0-60	39485	0.0	0.0	60.5		101
11-11-17	40253	8.5*	7.3*	18.8		80*
11-54-0	37968	11.7	55.0	0.0		103
15-15-15	38897	14.2	14.5	14.8		96*
19-19-19	40307	16.4*	14.9*	26.3		93*
33-19-0	39484	33.2	19.1	0.0		99
FARMERS GIN COMPANY		CLINTON		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
9-23-30	39790	8.0*	20.7*	33.1		96*

TABLE 1. (Continued)

FARMERS SUPPLY & PRODUCE CO.		MONTICELLO		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25	39439	0.0	28.6	20.1*			101
5-21-21	39438	5.4	21.1	21.1			100
14-14-14	39436	12.8*	16.4	15.6			101
14-14-14	39437	14.7	15.3	14.5			102
14-14-14	39653	14.2	16.2	12.4*			100
15-13-13	39440	13.9*	15.3	14.5			100
FARMLAND INDUSTRIES INC.		KANSAS CITY		MO		XS CL	RV
GRADE	NUM	N	APA	POT			
6-24-24	38433	6.2	23.8	23.8			100
6-24-24	38684	6.3	24.1	24.7			102
6-24-24	38760	6.3	24.3	23.8			101
6-24-24	38892	6.4	23.9	24.3			101
6-24-24	39037	6.3	24.0	23.8			100
6-24-24	39268	6.4	23.9	24.2			101
6-24-24	39594	6.3	23.8	23.9			100
12-12-12	39593	12.2	12.3	13.2			103
34-C-0	39505	34.1	0.0	0.0			100
FEDERAL CHEMICAL CO		LOUISVILLE		KY		XS CL	RV
GRADE	NUM	N	APA	PCT			
0-9-27	38661	0.0	12.2	22.0*			103
4-16-4	38270	4.4	16.1	5.1			105
4-16-4	38388	7.3	16.9	6.2			124
4-16-4	38505	4.2	18.1	4.5			111
4-16-4	38509	4.6	14.9*	5.6			101
4-16-4	38735	7.3	15.5	6.1			117
4-16-4	38887	7.2	15.9	7.3			121
4-16-4	39039	7.5	15.4	6.6			119
5-10-15	38017	5.2	10.1	15.3			102
5-10-15	38268	5.1	9.0*	16.1			98
5-10-15	38281	4.6	8.5*	16.3			94*
5-10-15	38462	5.1	10.6	14.9			103
5-10-15	38479	4.9	10.8	14.3			102
5-10-15	38480	5.5	10.8	15.8			107
5-10-15	38504	6.2	10.0	14.1*	*		103
5-10-15	38510	8.6	11.0	14.8			120
5-10-15	38660	5.0	9.8	14.9			99
5-10-15	38807	6.8	11.2	14.0*	*		111
5-10-15	38958	4.7	9.5	14.9			96*
5-10-15	39004	5.5	10.2	15.1			103
5-10-15	39164	5.4	11.6	14.8			108
5-10-15	39170	5.6	10.5	15.5			106
5-10-15	39317	5.0	10.2	15.4			102
5-10-15	39661	5.1	10.5	14.8			102
5-10-15	39713	4.6	12.0	14.8			106
5-10-15	39754	4.6	9.8	16.1			100
5-10-15	39780	5.3	7.9*	15.9			94*
5-10-15	40064	6.0	11.8	14.8			112
5-10-15	40173	5.2	10.0	15.2			101
5-10-15	40213	5.0	10.9	14.8			104
5-10-15	40281	5.1	10.4	14.9			102
5-10-15	40321	4.8	11.0	15.5			104
5-20-20	37985	5.7	16.5*	19.0*			90*
5-20-20	38107	5.0	21.8	18.9*			103
5-20-20	38129	5.5	17.0*	22.5			97*
5-20-20	38228	4.9	19.8	19.1			98
5-20-20	38235	4.9	20.0	22.0			102
5-20-20	38246	5.2	19.5	20.5			100

TABLE 1. (Continued)

FEDERAL CHEMICAL CO GRADE	NUM	LOUISVILLE		KY		XS CL	RV
		N	APA	PCT			
5-20-20	38254	4.9	19.4	20.7			99
5-20-20	38478	6.7	16.3*	18.5*			92*
5-20-20	38502	4.7	20.7	19.8			101
5-20-20	38508	4.8	19.8	21.7			101
5-20-20	38893	5.0	20.8	19.8			102
5-20-20	38967	6.7	20.1	18.6*			103
5-20-20	39005	4.9	19.5	22.8			102
5-20-20	39286	5.3	19.7	21.0			101
5-20-20	39451	5.2	19.7	20.1			100
5-20-20	39665	5.1	19.4	21.4			101
5-20-20	40172	5.6	19.3	20.8			101
5-20-20	40392	6.9	19.8	21.1			106
5-20-20	40405	5.5	20.5	19.3			102
5-20-20	40209	5.8	19.3	21.1			102
6-12-12	37375	5.9	17.3	15.2			128
6-12-12	37932	6.3	12.2	11.8			101
6-12-12	38463	6.4	13.1	13.1			109
6-12-12	38506	5.8	12.2	13.2			102
6-12-12	38836	6.3	13.7	13.0			110
6-12-12	39318	5.9	12.0	13.4			102
6-12-12	39335	5.9	12.0	13.2			102
6-12-12	39454	7.0	12.1	13.0			107
6-12-12	39657	6.2	13.4	12.5			107
6-12-12	40169	5.9	13.5	12.7			107
6-24-24	37931	6.6	23.1	23.9			99
6-24-24	38395	6.1	23.2	21.8*			96*
6-24-24	38558	6.6	18.7*	17.4*			81*
6-24-24	38680	6.8	23.9	23.3			101
6-24-24	38808	5.9	23.1	24.5			98
6-24-24	39452	7.0	23.6	23.1			100
6-24-24	38220	7.4	22.4*	24.4			100
9-10-15	38233	8.5	11.2	14.4			101
9-10-15	38327	8.4	10.6	14.9			99
9-10-15	38507	8.3*	10.3	15.1			98
9-10-15	39336	8.3*	10.5	14.8		*	99
9-10-15	39715	8.7	11.6	13.9*		*	103
9-10-15	40283	9.6	11.8	14.9			109
10-10-10	37874	10.0	10.3	11.2			104
10-10-10	37913	10.1	10.1	11.0			102
10-10-10	37933	10.7	11.1	9.8			106
10-10-10	37980	9.8	10.2	9.4			99
10-10-10	38046	8.3*	13.9	12.9			115
10-10-10	38234	9.9	10.1	9.8			99
10-10-10	38245	9.9	9.8	9.9			99
10-10-10	38269	10.0	10.4	10.2			102
10-10-10	38328	9.4	10.8	10.7			102
10-10-10	38461	10.0	10.7	11.2			105
10-10-10	38481	10.3	10.8	10.8			106
10-10-10	38482	9.9	10.7	10.3			103
10-10-10	38503	9.7	9.9	11.3			101
10-10-10	38511	10.2	10.0	10.1			101
10-10-10	38655	10.3	10.5	9.9			103
10-10-10	38659	10.5	10.8	10.8			107
10-10-10	38734	11.0	13.0	12.2			120
10-10-10	38785	9.9	10.5	11.0			104
10-10-10	38805	10.3	11.0	10.8			106
10-10-10	38957	9.7	10.7	10.3			102

TABLE 1. (Continued)

FEDERAL CHEMICAL CO		LOUISVILLE		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10	38993	9.4	10.2	10.9			100
10-10-10	38999	10.0	10.5	9.9			102
10-10-10	39000	9.5	9.7	10.3			97*
10-10-10	39001	10.0	10.1	10.3			101
10-10-10	39118	9.4	10.3	11.0			101
10-10-10	39165	10.8	10.4	11.6			108
10-10-10	39171	9.4	10.3	10.0			98
10-10-10	39334	9.7	9.9	10.6			99
10-10-10	39402	10.0	10.3	12.0			105
10-10-10	39453	10.5	10.7	10.5			106
10-10-10	39658	9.9	10.1	10.2			100
10-10-10	39660	9.9	10.9	10.5			104
10-10-10	39698	9.9	11.4	11.8			109
10-10-10	39714	9.1*	10.7	11.4			102
10-10-10	39723	9.4	10.5	11.1			102
10-10-10	39747	9.7	10.6	10.0			101
10-10-10	39753	9.9	10.7	10.5			103
10-10-10	39774	10.3	10.1	10.8			103
10-10-10	39910	7.1*	9.5	13.6			93*
10-10-10	40148	9.6	10.5	11.7			104
10-10-10	40257	10.0	11.4	10.8			107
10-10-10	40282	10.4	10.3	11.5			106
10-10-10	40315	9.1*	12.5	9.9			106
10-10-10	40373	9.8	10.5	10.8			102
10-10-10	40407	8.8*	11.9	10.4			103
10-10-15	39035	10.6	9.4	15.7			101
12-12-12	38483	12.0	12.6	10.7*			100
12-12-12	38835	11.9	12.4	12.3			101
12-12-12	39316	12.3	12.4	12.1			102
12-12-12	39722	11.9	12.6	11.8			101
12-12-12	38329	12.0	13.2	13.0			106
13-13-13	37934	12.5	13.3	13.3			100
13-13-13	37969	12.2*	12.7	15.1			100
13-13-13	38179	12.1*	14.7	13.5			103
13-13-13	38896	13.0	13.3	14.0			103
13-13-13	40063	13.0	14.5	13.4			105
13-13-13	40242	11.7*	12.8	14.2			97*
13-13-13	40304	12.2*	14.3	13.6			102
13-13-13	39680	12.4	14.2	13.4			102
15-10-10	39741	15.0	10.3	10.8			102
FRANKLIN CROP SERVICE		FRANKLIN		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
5-19-24	37869	13.1	16.5*	26.4			115
20-12-12	38754	19.1	11.8	12.9			98
FRASIER SUPPLY CO.		GLASGOW		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-20-20	39056	0.0	23.4	17.1*			106
0-41-0	40056	0.0	40.3	0.0			98
5-10-15	38736	4.3*	9.8	15.0			98
5-10-15	38865	3.3*	8.7*	19.7			97*
5-10-15	40077	2.0*	6.7*	26.5			93
5-10-15	40078	3.1*	8.1*	20.8			96*
5-10-15	40083	6.3	11.4	10.0*			101
5-10-15	40105	3.8*	7.6*	19.7			94*
5-10-15	40363	4.4*	10.3	14.8			98
5-20-20	38391	5.3	20.5	21.0			103
5-20-20	38571	7.3	20.1	15.8*			101

TABLE 1. (Continued)

FRASIER SUPPLY CO.		GLASGOW			KY		
GRADE	NUM	N	APA	POT	XS CL	RV	
5-20-20	39057	4.9	19.8	20.8		100	
5-20-20	39556	6.4	18.2*	18.3*		96*	
5-20-20	39871	5.2	19.3	20.6		99	
5-20-20	39946	4.2*	17.4*	23.2		95*	
6-12-12	38864	5.6	9.1*	13.5		80*	
6-12-12	39021	6.1	12.9	11.8		104	
6-12-12	40102	5.3*	13.1	15.7		110	
6-12-18	40106	4.6*	9.6*	22.8		95*	
8- 8- 8	38744	6.0*	5.4*	9.9		78*	
10- 8-12	40256	9.1*	8.2	17.3	*	106	
10-10-10	38390	9.1*	11.0	10.8		102	
10-10-10	38944	7.8*	7.3*	12.2		85*	
10-10-10	38947	10.4	9.6	8.8*		98	
10-10-10	39022	10.8	10.2	10.1		104	
10-10-10	39363	9.4	9.0*	10.4		94*	
10-10-10	39552	9.9	9.7	10.1		98	
10-10-10	39822	12.2	11.9	6.7*		110	
10-10-10	39869	9.7	9.1*	10.6		96*	
10-10-10	39944	9.4	9.1*	11.1		96*	
10-10-10	39966	9.0*	8.8*	10.2		91*	
10-10-10	40079	7.6*	7.5*	10.9		92*	
10-10-10	40084	8.0*	7.6*	12.9		89*	
10-10-10	40107	8.9*	8.6*	11.2		92*	
10-10-10	40236	9.6	9.1*	10.8		97*	
10-10-10	40379	10.3	10.1	11.1		104	
10-10-10	40403	8.9*	12.1	10.2		104	
12-24-24	40100	12.0	23.8	23.1		99	
14- 6-10	40255	13.8	6.1	13.4		102	
14-14-14	39870	14.0	13.5	14.5		99	
14-14-14	39945	14.0	15.1	10.6*		98	
14-14-14	38292	12.8*	16.4	15.9		106	
15-15-15	40235	15.9	14.8	13.2*		99	
33- 0- 0	40101	34.5	0.0	0.0		103	
33- 0- 0	39351	33.4	0.0	0.0		101	
33- 0- 0	40254	33.8	0.0	0.0		101	
33- 0- 0	40408	33.4	0.0	0.0		101	
GAMALIEL BULK FERTILIZER INC		TOMPKINSVILLE KY					
GRADE	NUM	N	APA	POT	XS CL	RV	
15-15-15	39823	15.2	14.2	15.1		98	
GARDINIER BIG RIVER INC.		TAMPA			FL		
GRADE	NUM	N	APA	POT	XS CL	RV	
34- 0- 0	38946	34.1	0.0	0.0		100	
GARRARD FARM SERVICE		LANCASTER			KY		
GRADE	NUM	N	APA	POT	XS CL	RV	
0-24-25	39507	0.0	23.6	26.8		100	
GENES AG SUPPLY		STURGIS			KY		
GRADE	NUM	N	APA	POT	XS CL	RV	
4-12-18	38028	4.3	10.5*	22.0		103	
4-12-18	38156	4.0	9.6*	24.0		102	
4-12-18	38192	4.5	10.4*	19.9		99	
5-10-20	39384	5.1	9.3	20.4		98	
5-15-23	38927	5.4	15.2	22.8		102	
5-15-23	38930	5.1	14.5	23.8		100	
6-20-20	38929	6.2	19.2	21.5		100	
6-20-20	39374	6.1	18.8*	20.6		98	
10-10-10	38029	10.4	10.5	9.8		103	
18- 9- 9	38190	17.4	9.5	7.0*		96*	

TABLE 1. (Continued)

GLASGCW FERTILIZER CO.		GLASGOW		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
0-0-61	37938	0.0	0.0	59.7		98
0-20-20	39362	0.0	19.7	18.9*		97*
4-16-4	38569	4.1	17.5	4.8		109
5-10-15	38393	5.0	9.7	16.7		102
5-10-15	38394	5.7	10.3	14.8		104
5-10-15	38608	5.1	9.7	16.4		102
5-10-15	38746	6.4	11.8	12.4*		108
5-10-15	39069	7.1	11.8	9.4*		105
5-10-15	39226	4.9	9.9	16.4		102
5-10-15	39364	5.1	11.4	14.8		106
5-10-15	39371	4.9	9.0*	15.9		97*
5-10-15	39372	7.0	10.2	13.7*		107
5-10-15	39819	5.9	11.1	11.4*		101
5-20-20	38250	5.9	19.1	20.7		101
5-20-20	39373	5.9	21.2	19.8		106
6-12-12	38575	5.9	11.9	12.2		99
6-12-12	39365	6.2	12.5	11.8		102
7-15-0	37957	7.6	15.0	0.0		103
7-15-0	37939	7.8	14.6	0.0		102
10-10-10	38568	9.4	10.0	11.6		101
10-10-10	38769	9.7	10.0	10.1		99
10-10-10	38862	9.7	10.2	10.6		101
10-10-10	39070	12.0	9.5	7.6*		101
10-10-10	39368	10.0	10.0	9.9		100
10-10-10	39370	9.4	9.9	15.0		107
10-20-20	37884	12.0	19.5	16.4*		99
10-20-20	38165	10.5	22.0	21.7		108
11-8-8	40289	12.4	9.1	7.3*		109
11-15-15	39369	15.2	17.1	14.8		117
12-24-23	38745	15.5	31.2	14.0*		112
12-24-24	37885	10.7*	22.7*	26.1		97*
12-24-24	39225	12.0	25.4	22.4*		101
15-15-15	38747	16.0	16.5	13.2*		104
15-15-15	39227	16.4	15.9	14.3		106
20-10-10	38002	18.7*	10.4	9.6		97*
21-53-0	38251	20.7	53.0	0.0		100
W. R. GRACE & CO.-AGR PROD. DIV		CADIZ		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
4-12-20	40069	4.0	11.5	21.1		100
4-12-20	40070	4.1	11.6	20.1		99
5-15-15	39587	5.2	14.5	14.3		99
W. R. GRACE & CO.		CECILIA		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
18-10-13	39965	19.6	9.9	13.5		102
W R GRACE & CO-AGR PROD DIV		GUTHRIE		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
82-0-0	37947	81.9	0.0	0.0		100
W R GRACE & CO		LA CENTER		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
4-12-20	40060	4.3	11.7	21.7		103
W. R. GRACE & CO.		HOPKINSVILLE		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
0-0-50	39352	0.0	0.0	51.1		102
5-15-20	38122	4.9	14.5	20.3		99
5-15-20	39390	5.4	15.2	12.0*		88*
5-15-25	38126	5.3	14.3	24.8		98
5-15-25	38226	6.0	26.4	16.1*		124

TABLE 1. (Continued)

W. R. GRACE & CO.		HOPKINSVILLE KY					XS CL	RV
GRADE	NUM	N	APA	PDT				
5-15-25	38284	4.9	15.1	24.1			99	
5-15-25	40061	4.8	14.6	25.4			99	
6-18-18	38022	5.9	17.4	19.4			100	
6-38- 6	39343	5.9	38.0	6.2			100	
9-10-15	39893	9.6	8.6*	17.8			102	
9-10-15	40065	8.8	10.2	13.2*			96*	
9-27- 0	38227	9.4	18.3*	0.0			77*	
9-27- 0	38282	9.2	26.3	0.0			98	
9-27- 0	38283	9.2	26.5	0.0			99	
14- 9-12	39391	14.6	9.4	14.9			108	
92- 0- 0	37945	79.8	0.0	0.0			97	
W P GRACE & CO AGRI		MEMPHIS TN					XS CL	RV
GRADE	NUM	N	APA	PDT				
0- 0-60	38870	0.0	0.0	60.3			100	
0- 0-60	38879	0.0	0.0	61.1			102	
0- 0-60	40092	0.0	0.0	60.7			101	
0-25-25	38708	0.0	27.3	21.9*			102	
0-46- 0	38868	0.0	45.9	0.0			100	
0-46- 0	40320	0.0	46.0	0.0			100	
4-16- 4	38681	4.1	14.4*	3.0*			91*	
4-16-28	37886	4.0	15.8	25.2*			95*	
4-16-28	40350	4.9	15.9	24.0*			97*	
4-19-19	37959	4.5	19.3	21.2			103	
5-10-15	38376	5.0	9.9	16.2			102	
5-10-15	38424	4.5	11.5	14.1*			103	
5-10-15	38429	6.0	10.8	14.8			107	
5-10-15	38635	5.3	9.8	14.8			100	
5-10-15	38714	5.3	11.2	15.4			107	
5-10-15	38877	5.3	10.4	16.0			105	
5-10-15	38938	5.3	11.2	15.1			107	
5-10-15	39115	5.4	10.6	15.2			105	
5-10-15	39293	5.1	10.3	14.8			101	
5-10-15	39307	5.5	11.2	15.9			110	
5-10-15	39366	5.4	9.6	14.9			100	
5-10-15	39553	5.2	10.7	16.6			107	
5-10-15	39771	4.8	10.8	15.6			104	
5-10-15	39953	4.9	12.4	17.5	*		116	
5-10-15	40057	5.1	10.6	14.8			103	
5-10-15	40277	4.9	9.5	14.9			97*	
5-10-15	40383	4.9	10.9	16.5			107	
5-10-15	38867	5.4	11.3	15.3			108	
5-20-20	38378	5.4	18.4*	22.2			100	
5-20-20	38675	5.4	19.5	21.0			101	
5-20-20	38709	6.3	18.7*	20.4			100	
5-20-20	38710	5.4	20.7	20.0			103	
5-20-20	38712	5.0	21.8	19.1*			102	
5-20-20	38878	5.1	20.6	20.5			103	
5-20-20	39595	5.2	19.4	19.8			98	
5-20-20	39635	5.4	19.1	21.1			100	
5-20-20	39116	5.6	20.5	19.0*			102	
6-12-12	38940	6.1	11.5	11.0*			96*	
6-24-24	38150	5.8	23.0	23.8			97*	
6-24-24	38933	5.5	24.3	23.4			99	
6-24-24	39199	6.0	22.9*	23.9			97*	
6-24-24	39294	7.9	18.5*	19.4*			86*	
6-24-24	39597	5.9	22.9*	21.7*			94*	
6-38- 6	39824	5.9	36.5*	6.6			97*	

TABLE 1. (Continued)

W R GRACE & CC AGRI		CHEM GROUP		MEMPHIS		TN		XS CL	RV
GRADE	NUM	N	APA	PCT					
10-0-0	38682	10.5	0.0	0.0				105	
10-0-0	39063	11.0	0.0	0.0				110	
10-10-10	37956	10.2	9.9	10.2				101	
10-10-10	38195	10.0	9.6	10.2				99	
10-10-10	38345	10.0	10.7	10.8				104	
10-10-10	38377	10.3	10.7	10.7				105	
10-10-10	38428	11.0	10.3	11.0				107	
10-10-10	38574	9.9	10.0	9.9				99	
10-10-10	38674	9.9	10.6	11.5				105	
10-10-10	38937	11.4	10.2	11.7				110	
10-10-10	38939	10.4	10.7	10.7				106	
10-10-10	39104	11.0	12.2	10.0				113	
10-10-10	39139	10.0	9.8	10.1				99	
10-10-10	39306	10.0	10.7	11.0				105	
10-10-10	39327	9.9	10.2	10.9				102	
10-10-10	39549	10.4	10.7	10.6				106	
10-10-10	39636	10.7	10.8	9.8				106	
10-10-10	39702	9.9	10.6	11.0				104	
10-10-10	39752	10.4	10.5	10.4				104	
10-10-10	39964	9.3*	10.6	10.4				100	
10-10-10	40114	9.0*	11.2	10.7				102	
10-10-10	40278	10.2	9.9	10.6				102	
10-10-10	38869	10.3	10.4	11.9				106	
10-52-8	40211	10.4	50.9	8.5				99	
12-12-12	38532	9.8*	12.9	13.7				98	
12-12-12	39591	11.2*	12.2	12.3				98	
12-12-12	40219	11.7	11.8	11.9				98	
12-12-12	40368	10.8*	13.4	13.3				103	
12-12-18	40076	11.0*	12.6	20.2				102	
15-15-15	39238	14.6	13.7*	16.6				97*	
15-15-15	39240	14.8	14.6	15.3				99	
15-15-15	39443	13.9*	15.8	15.2				99	
15-15-15	39592	14.3	15.5	16.0				101	
18-46-0	37958	17.6	46.9	0.0				101	
28-0-0	37881	27.0	0.0	0.0				97	
28-0-0	38258	27.9	0.0	0.0				100	
28-0-0	38273	28.8	0.0	0.0				103	
28-0-0	38880	28.0	0.0	0.0				100	
33-0-0	38711	33.5	0.0	0.0				100	
33-0-0	38713	34.4	0.0	0.0				103	
33-0-0	40322	34.4	0.0	0.0				103	
W. R. GRACE & CO.		NASHVILLE		TN		XS CL	RV		
GRADE	NUM	N	APA	PCT					
0-14-40	38117	0.0	13.5	40.9			100		
0-23-30	38073	0.0	24.2	26.5*			98		
0-23-30	39264	0.0	23.6	27.8*			99		
5-10-15	39255	5.3	9.7	14.8			99		
5-20-20	38076	5.3	19.2	19.8			98		
5-20-20	38127	5.2	19.7	19.2			99		
5-20-20	40381	5.3	20.4	19.0*			101		
6-24-24	38362	6.0	22.7*	24.5			97*		
6-24-24	38561	5.7	24.2	21.7*			97*		
6-24-24	38803	5.8	23.7	22.3*			97*		
6-24-24	39254	5.7	22.8*	23.0			95*		
6-24-24	40200	6.2	21.4*	22.9*			93*		
6-24-24	40258	5.7	21.6*	23.8			93*		
10-10-10	38804	10.0	10.0	9.8			100		

TABLE 1. (Continued)

W. R. GRACE & CO.		NASHVILLE		TN	XS	CL	RV
GRADE	NUM	N	APA	POT			
10-10-10	39740	9.7	10.7	9.9			101
10-10-10	40371	9.4	10.9	9.8			101
W R GRACE & CO AGR PROD DIV		NEW ALBANY		IN	XS	CL	RV
GRADE	NUM	N	APA	POT			
0- 0-60	38321	0.0	0.0	60.1			100
0-46- 0	38320	0.0	45.8	0.0			100
3-10-30	39168	3.7	10.1	30.1			103
5-10-15	38857	5.3	10.4	17.4			108
5-10-15	39262	5.4	10.1	15.9			104
5-20-20	38013	4.9	21.5	18.8*			102
5-20-20	38020	4.6	20.5	20.2			101
5-20-20	38060	5.0	20.9	20.8			103
5-20-20	39131	5.5	20.5	19.8			103
5-20-20	39169	5.0	20.1	20.9			102
6-24-24	38012	6.1	23.2	23.2			97*
6-24-24	39616	6.0	22.4*	23.8			96*
6-24-24	39673	5.8	24.2	21.9*			97*
10-10-10	38021	10.2	10.3	10.9			104
10-10-10	39132	10.5	10.5	10.9			105
12-12-12	38856	11.9	12.5	13.0			103
12-12-12	39617	10.8*	12.6	12.6			99
18-46- 0	38319	18.3	46.4	0.0			101
GRAVES CO. SOIL IMP. ASSN.		MAYFIELD		KY	XS	CL	RV
GRADE	NUM	N	APA	POT			
4-22-30	40163	4.0	20.6*	33.6			99
21-14-13	40164	20.2	14.1	16.8			102
GREEN CO. FARM SUPPLY		GREENSBURG		KY	XS	CL	RV
GRADE	NUM	N	APA	POT			
17-12-18	39718	15.0*	10.8*	22.4			95*
17-17-17	38043	17.4	19.5	16.8*			102
GREEN VALLEY FARM SUPPLY		CALHOUN		KY	XS	CL	RV
GRADE	NUM	N	APA	POT			
0-18-34	38118	0.0	21.3	31.4*			103
0-22-30	38119	0.0	21.7	31.0			101
0-46- 0	37967	0.4	44.5	0.0			98
9-23-30	39520	9.0	24.0	29.7			102
9-23-30	40380	9.4	23.6	29.8			102
GREEN VALLEY FARM SUPPLY		ISLAND		KY	XS	CL	RV
GRADE	NUM	N	APA	POT			
0-23-29	39562	0.0	21.1*	34.5			100
6-26-26	40352	6.7	24.4*	27.3			99
GRO-GREEN CHEMICAL CO., INC.		SHELBYVILLE		KY	XS	CL	RV
GRADE	NUM	N	APA	POT			
0- 0-13	38971	0.0	0.0	12.1*			88*
0-15-40	38970	0.0	12.5*	36.8*			88*
0-20-20	39161	0.0	26.5	15.9*			115
2- 5- 7	39986	1.9*	4.3*	17.5			132
4-19-19	39620	4.5	15.3*	25.0			96*
5-10-15	38471	6.1	9.2*	15.4			102
5-10-15	38522	6.0	9.7	15.8			105
5-20-20	38518	7.3	13.9*	18.0*			86*
6- 3- 3	39162	6.9	4.3	4.0			106
6- 6- 6	39619	4.6*	4.9*	5.8			93*
6- 6-18	38827	9.5	6.4	17.8			118
6- 6-18	38837	7.3	6.1	17.7			106
7- 7- 7	38406	6.7	8.0	8.6			105
8- 7-21	38849	6.7*	10.0	19.9*			103

TABLE 1. (Continued)

GRO-GREEN CHEMICAL CO., INC.		SHELBYVILLE KY			XS CL	RV
GRADE	NUM	N	APA	POT		
8-10-15	38521	8.3	9.5	15.5		100
8-10-15	39163	10.5	8.9*	18.6	*	113
8-12-13	39989	9.7	13.3	14.9		109
8-12-15	38520	16.0	9.0*	10.2*		109
8-12-15	38791	7.9	12.8	15.0		102
8-12-15	39420	7.8	12.6	14.8		101
8-12-15	39924	8.3	12.3	16.9		105
8-16-23	38972	8.9	16.0	21.9*		98
8-24-10	39610	8.4	23.3	12.2		102
8-24-10	39611	7.9	18.8*	13.6		91*
9- 4-18	39490	6.9*	6.1	21.0		101
10- 9-13	39987	9.1*	9.8	15.8		102
10-10-10	38472	10.3	13.6	11.7		119
10-10-10	38519	8.7*	10.5	10.4		97*
10-10-10	38586	11.0	9.6	10.0		102
10-10-10	38790	9.3	12.2	10.0		106
10-10-10	38826	7.9*	6.4*	11.8		81*
10-10-10	38407	9.6	8.4*	9.8		91*
11-13-17	39988	15.2	13.1	21.6		115
12-12-12	38852	12.8	11.8	13.0		103
13- 8- 8	39160	15.9	13.0	8.2		125
18-15-15	39618	18.0	17.0	14.9		103
GRO-GREEN SALES CO.		LEBANON KY			XS CL	RV
GRADE	NUM	N	APA	POT		
0- 0-60	37898	0.0	0.0	60.8		101
0-46- 0	37897	0.0	43.6*	0.0		95*
6-25-25	35417	5.3*	27.7	21.5*		98
8- 8-13	39925	11.0	5.8*	11.4*		94*
13-14-22	39926	14.2	11.0*	21.8		91*
18-46- 0	37896	17.6	46.8	0.0		101
20-16-11	39419	20.5	17.7	11.1		101
25- 0-12	39927	23.7*	0.0	14.0		97*
26- 8-14	39418	23.4*	11.5	15.5		101
33- 0- 0	37895	33.9	0.0	0.0		101
45- 0- 0	37899	45.1	0.0	0.0		100
GRO-GREEN PAYNES, INC.		LEXINGTON KY			XS CL	RV
GRADE	NUM	N	APA	POT		
5-10-15	40187	8.2	13.8	8.2*	*	116
7-10-30	39979	8.0	8.4*	35.7		105
8- 5-20	40186	5.3*	3.1*	20.8		78*
12-10-12	39994	9.1*	9.4	17.8		96*
15- 0-23	39978	12.1*	0.0	32.9	*	102
20- 0-24	39977	17.8*	0.0	36.1		111
HANCOCK COUNTY FARM SUPPLY		HAWESVILLE KY			XS CL	RV
GRADE	NUM	N	APA	POT		
5-13-41	39898	5.3	13.6	43.1		100
10-26-26	39899	10.3	26.5	26.0		101
HAWKEYE SUPPLY CO.		JEFFERSONVILLIN KY			XS CL	RV
GRADE	NUM	N	APA	POT		
6-18- 6	40325	6.4	17.9	6.0		101
10- 0- 0	38658	6.2*	0.0	0.0		62*
HOBBS FEED & SUPPLY CO.		FANCY FARM KY			XS CL	RV
GRADE	NUM	N	APA	POT		
20-10- 8	39788	19.9	10.2	8.5		99
CLIFTON HOLLINGSWORTH		MT. HERMON KY			XS CL	RV
GRADE	NUM	N	APA	POT		
13-22-22	39821	14.0	22.7	20.0*		98

TABLE 1. (Continued)

HOWE-HILLIARD GRAIN CO.		MAYFIELD		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
17-15-20	40162	14.1*	15.5	26.0		101
10-12-16	39792	19.9	9.3*	20.1		97*
HUSTONVILLE FARM SERVICE		HUSTONVILLE		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0-21-30	39416	0.0	23.6	29.0		106
11- 8-16	39879	9.8*	6.3*	18.6		89*
14-14-21	39877	14.5	14.3	22.4		101
15-13-20	39878	16.2	16.6	18.9*		107
19-11-16	39876	18.5	11.4	18.0		101
HUTSON CHEMICAL COMPANY		MURRAY		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0-23-30	40166	0.0	20.7*	32.7		97*
5-10-15	40044	5.0	9.5	16.6		101
5-20-20	39296	4.8	19.3	21.9		100
5-20-20	40309	6.9	23.7	19.2		115
6-12-12	39297	6.3	11.7	13.3		102
6-24-24	39295	6.4	25.0	23.8		103
6-24-24	39791	4.9*	19.5*	27.7		91*
6-24-24	40085	4.0*	15.3*	30.3		82*
15-15-15	40075	14.9	14.9	15.9		100
18-46- 0	40391	18.1	46.5	0.0		101
19-13-17	40165	19.6	12.7	18.4		100
19-19-19	40393	19.8	19.8	19.1		102
26-13-13	40167	26.0	14.2	14.9		102
THE HYPONEX COMPANY, INC.		COPLEY		OH		
GRADE	NUM	N	APA	POT	XS CL	RV
7- 6-19	37894	8.1	7.2	20.1		113
7- 6-19	37920	8.4	7.6	20.5		117
INDIANA FARM BUREAU COOP.		INDIANAPOLIS		IN		
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15	38991	4.9	11.3	15.9	*	107
INTERNATIONAL MIN & CHEM CORP		FLORENCE		AL		
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-50	38648	0.0	0.0	50.6		101
0- 0-60	37940	0.0	0.0	59.9		100
5-10-15	39203	5.3	10.3	15.6		104
5-10-15	39682	6.1	10.1	15.6		107
5-10-20	38055	5.4	10.1	21.0		104
8-24-24	39681	8.4	25.6	23.6		104
10-10-10	38313	10.5	10.0	10.1		102
INTERNATIONAL SPIKE INC		LEXINGTON		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
16- 8- 8	38291	17.4	11.4	8.8		118
16- 8- 8	38139	16.8	9.6	13.0		117
KAISER AGRICULTURAL CHEMICALS		SAVANNAH		GA		
GRADE	NUM	N	APA	POT	XS CL	RV
6- 8-16	40192	6.0	7.9	18.4		105
KENTUCKY FERTILIZER WORKS		WINCHESTER		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-60	39321	0.0	0.0	59.9		100
0-20-20	39272	0.0	19.5	16.1*		92*
0-46- 0	39322	0.0	45.1	0.0		98
4-16- 4	38952	4.6	14.1*	5.8		98
4-16- 4	39013	4.9	14.3*	5.0		98
5-10-15	38451	4.9	9.6	15.6		99
5-10-15	38633	4.5*	8.1*	16.4		92*
5-10-15	39180	5.6	11.1	14.8		107

TABLE 1. (Continued)

KENTUCKY FERTILIZER WORKS		WINCHESTER		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15	39182	5.1	10.5	14.8			102
5-10-15	39273	5.0	9.5	16.8			102
5-10-15	39886	5.0	9.4	16.3			100
5-10-15	40360	5.1	10.6	14.9			103
5-20-20	40177	5.4	18.6*	20.4			97*
6- 6-18	39319	6.8	7.7	13.7*			101
6- 6-18	39324	6.0	7.3	17.8			105
6- 6-18	39685	5.6	5.5	19.2			99
6- 6-18	38664	11.3	12.5	6.7*			108
10-10-10	39686	7.4*	9.1*	11.1			88*
10-10-10	39969	8.5*	9.0*	23.9			98
10-10-20	39969	8.5*	9.0*	23.9			98
11- 4-14	40004	10.7*	5.6	16.1			103
12-12-12	39181	12.0	12.9	12.9			104
12-12-12	39243	11.8	12.1	12.6			101
12-12-12	39323	12.0	11.2*	12.3			98
33- 0- 0	39320	34.7	0.0	0.0			103
33- 0- 0	39885	34.7	0.0	0.0			104
KERR-MCGEE FARM CENTER		CADIZ		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
13-33-17	40071	12.4	31.7*	20.1			99
17-17-17	40072	15.7*	10.0*	25.7			91*
21-13-13	40073	20.4*	11.3*	18.6			98
KERR-MCGEE CHEMICAL CORP.		CROFTON		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
10-26-26	39675	10.5	26.3	25.6			100
22- 8-12	40036	21.6	8.5	13.7			100
KERR-MCGEE FARM CENTER		FREDONIA		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
6-17-37	39736	7.4	19.2	36.2*			102
8-26-26	39735	9.7	28.7	23.4*			106
14-10-10	38161	16.6	12.0	13.8			118
17-17-17	39527	18.0	18.3	17.4			103
22-11-13	39572	23.3	14.0	13.0			107
KERR-MCGEE CHEMICAL CORP.		OKLAHOMA CITY OK		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
18-46- 0	38004	18.1	46.7	0.0			101
18-46- 0	38206	18.6	46.9	0.0			102
18-46- 0	38317	17.3	43.7*	0.0			95*
18-46- 0	38444	18.4	46.5	0.0			101
18-46- 0	38445	18.4	46.4	0.0			101
KERR-MCGEE FARM CENTER		PEMBROKE		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-28-23	39389	0.0	28.2	24.0			100
7-30-20	38812	7.8	29.7	21.3			99
10-10-10	38811	12.7	8.5*	11.0			106
10-25-25	38809	10.9	26.9	25.9			105
10-26-23	40204	10.2	24.9*	25.2			98
10-27-23	39388	10.5	25.8*	26.2			97*
10-27-24	38810	10.9	26.8	24.3			98
11-24-24	38121	12.6	20.4*	26.3			95*
14-25- 0	37966	16.2	24.2*	0.0			100
S. S. KRESGE CO.		TRCY		MI		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10	38860	10.4	9.6	11.0			102
10-10-10	39970	11.7	11.5	8.5*			110
20-10- 5	38861	20.2	10.2	5.8			102
23- 7- 7	39971	24.1	7.2	7.5			104

TABLE 1. (Continued)

LINCOLN FARM SERVICE		STANFORD		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0-17-35	38595	0.0	20.5	33.6*		107
0-22-30	39415	0.0	25.2	25.5*		103
6-24-24	39413	5.3*	26.5	20.2*		99
9-18-27	39412	6.9*	13.8*	32.9		91*
14-12-18	40129	15.3	13.7	18.4		105
15-13-19	40130	15.0	13.8	21.3		101
15-13-20	40131	15.7	15.0	20.2		104
17-17-17	39414	17.8	18.6	17.8		101
MCCAULEY BROS SEED CO		VERSAILLES		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-22	38838	0.0	0.0	22.5		102
0- 0-50	38945	0.0	0.0	52.2		104
0- 0-60	38839	0.0	0.0	60.6		101
0-46- 0	38842	0.0	44.2*	0.0		96*
5- 5-15	39607	4.7	4.7	16.4		101
7- 5- 7	39995	5.7*	3.9*	8.9		82*
8- 8-13	39996	7.6*	7.3*	13.6		90*
14- 0-16	38840	13.4*	0.0	16.7		93*
17- 0-30	39606	11.0*	0.0	39.4		96*
18-46- 0	38841	18.3	46.9	0.0		102
19- 0-25	38846	17.6*	0.0	28.1		99
21- 0- 0	38844	21.6	0.0	0.0		103
21- 0-18	39997	15.7*	0.0	23.8		89*
34- 0- 0	38843	34.0	0.0	0.0		100
MAPCO INC.		ATHENS		IL		
GRADE	NUM	N	APA	POT	XS CL	RV
32- 0- 0	40189	32.7	0.0	0.0		102
MARSHALL CTY SOIL IMP. ASSOC.		BENTON		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
6-25-26	40160	5.8	24.1*	28.3		99
9-23-25	40161	8.9	22.2	26.2		99
12-10-31	39786	12.4	10.2	32.0		100
34- 0- 0	40221	34.5	0.0	0.0		101
MARTREX, INC.		CHANHASSEN		MN		
GRADE	NUM	N	APA	POT	XS CL	RV
34- 0- 0	38091	34.0	0.0	0.0		98
MAYFIELD MILLING CO		MAYFIELD		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
18- 7- 7	39787	18.7	7.2	8.0		99
MEADE FARMERS SUPPLY		BRANDENBURG		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
6-26-26	39639	7.0	26.3	24.9		100
11-17-17	39638	10.4*	17.6	17.5		98
METCALFE CO. FARMERS SUPPLY		EDMONTON		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
10-10-10	39637	7.5*	7.7*	12.9		86*
18-46- 0	39629	18.2	45.2	0.0		99
MID-OHIO CHEMICAL COMPANY, INC		MT. STERLING		OH		
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-10	39405	4.6	9.3*	9.9		94*
5-10-15	39403	5.0	9.8	14.8		99
10-20-20	40326	9.8	19.5	20.9		99
12-12-12	39404	11.3	12.0	11.9		97*
MILES FARM SUPPLY		OWENSBORO		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
0-19-18	38079	0.0	19.9	21.9		114
0-22-29	38077	0.0	19.0*	35.7		99

TABLE 1. (Continued)

MILES FARM SUPPLY		OWENSBORO		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
0-22-30	39669	0.0	22.9	29.9		102
5-10-15	38363	5.2	9.9	15.3		101
6-15-40	39257	5.7	14.7	41.8		101
6-25-25	39668	6.7	28.3	23.0*		104
6-25-25	39670	6.6	28.9	26.0		109
6-25-26	40248	5.3*	24.8	28.3		101
8-22-31	39258	8.6	22.1	31.9		101
8-22-31	39671	8.7	22.2	31.8		101
9-23-30	40247	8.7	21.5*	32.9		99
14-14-14	38078	14.8	14.1	17.6		103
MINN MINING & MFG CO		ST PAUL		MINN	XS CL	RV
GRADE	NUM	N	APA	POT		
6-18- 6	37891	6.6	19.1	6.3		107
8-11- 5	37880	8.3	11.3	5.1		103
12- 6- 6	37948	12.7	6.5	6.1		106
MISSISSIPPI CHEMICAL CORP		YAZOO CITY		MS	XS CL	RV
GRADE	NUM	N	APA	POT		
8-24-24	38389	7.6	23.5	25.0		99
8-24-24	38219	8.2	23.4	24.4		99
34- 0- 0	38018	34.3	0.0	0.0		101
MONSANTO AGRI CENTER		SLAUGHTERS		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
0-23-30	39510	0.0	24.2	29.8		103
0-23-30	39511	0.0	24.0	29.8		102
4-38- 9	39514	4.7	36.7*	11.9		98
6-26-26	39512	6.3	25.0	26.4		99
6-26-26	40201	6.1	21.4*	26.4		91*
14-36- 9	39513	14.0	36.3	9.9		101
21-11-15	40199	21.2	13.4	16.5		106
MOORE-HUTCHESON CO.		MORGANTOWN		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
10-26-25	38904	9.8	25.4	27.8		99
MORRISON FARM SVC		HODGENVILLE		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
0-28-21	40049	0.0	28.1	21.9		100
17-17-17	40047	18.2	18.4	16.9		101
17-17-17	40048	16.9*	18.6	19.2		101
21-14-14	40046	20.0*	14.4	16.9		101
22-14-10	40050	22.7	15.2	11.5		101
NA-CHURS PLANT FOOD COMPANY		MARION		OH	XS CL	RV
GRADE	NUM	N	APA	POT		
2-14-14	37918	2.9	14.4	14.0		106
3-18-18	37917	3.5	18.1	17.7		101
10-10-10	39798	10.2	10.5	10.0		103
NORTH AMERICAN FERTILIZER CO.		LOUISVILLE		KEY	XS CL	RV
GRADE	NUM	N	APA	POT		
3-13-39	38474	3.4	13.6	37.7		101
3-13-39	40217	3.3	12.5	39.3		100
4-16- 4	38945	4.4	16.6	5.6		108
5-10-15	38434	4.5	10.8	15.6		103
5-10-15	38475	6.9	8.1*	14.2		98
5-10-15	38477	5.8	8.6*	16.4		100
10-10-10	38476	10.2	9.7	8.2*		96*
15-15-15	38473	15.8	19.3	13.8*		112
19-19-19	39947	17.8*	18.9	20.6		99

TABLE 1. (Continued)

OCCIDENTAL CHEMICAL CO.		FT. WAYNE		IN		
GRADE	NUM	N	APA	POT	XS CL	RV
0-44-0	40317	0.0	46.5	0.0		106
OCCIDENTAL CHEMICAL CO.		SIOUX FALLS		SD		
GRADE	NUM	N	APA	POT	XS CL	RV
0-45-0	38111	0.0	46.0	0.0		102
OHIO VALLEY FERTILIZER, INC.		MAYSVILLE		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-10	40260	4.7	16.5	12.2		136
5-10-15	38419	9.6	9.9	10.0*	*	109
5-10-15	38539	6.0	11.3	14.8		109
5-10-15	38919	5.4	9.7	14.9		100
5-10-15	39395	5.5	9.1*	15.2		98
5-10-15	39531	5.8	9.4	15.1		101
5-10-15	39532	5.4	9.4	15.9		101
5-10-15	39537	5.7	8.8*	15.4		98
5-10-15	39539	5.3	10.1	14.9		101
5-10-15	40261	5.2	9.7	15.2		100
5-10-15	40294	6.2	9.3*	11.4*		94*
5-20-20	39535	6.8	27.6	17.7*		123
6-12-18	38916	6.6	17.4	16.9*		120
10-10-10	38540	9.7	10.3	10.3		100
10-10-10	38918	9.9	10.6	10.3		102
10-10-10	39536	9.6	10.3	10.2		100
10-10-10	39538	9.4	10.1	9.9	*	98
10-10-10	40293	10.3	13.4	9.1*		113
10-10-20	38917	9.4	10.1	20.8		99
10-10-20	39530	15.0	16.3	18.5*		135
17-9-9	40295	21.1	11.1	8.8		118
17-9-9	40296	19.3	12.0	10.6		118
18-46-0	39534	18.2	46.3	0.0		101
CLIN CORP.		STAMFORD		CT		
GRADE	NUM	N	APA	POT	XS CL	RV
0-40-C	39834	0.0	40.2	0.0		100
CLIN CORP AGRI DIV		LITTLE ROCK		AR		
GRADE	NUM	N	APA	POT	XS CL	RV
6-24-24	38364	6.3	23.8	25.5		102
6-24-24	38762	6.8	24.4	24.1		103
6-24-24	39567	7.1	24.9	23.9		104
6-24-24	39672	7.0	24.2	23.8		103
13-13-13	38056	13.2	13.2	13.3		102
13-13-13	39566	13.3	14.0	13.5		105
13-13-13	38116	13.2	13.5	13.9		103
PHELPS FARM SERVICE		PADUCAH		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
14-7-11	39785	14.2	7.9	12.4		104
16-10-21	40159	12.0*	10.3	26.2	*	95*
PIPES FEED & FERTILIZER INC		WINCHESTER		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
8-6-18	40002	8.7	7.4	16.5*		106
10-4-12	40005	10.8	3.7*	9.2*		87*
10-6-10	40006	10.0	6.3	8.8*		95*
10-8-12	39923	10.1	6.9*	12.9		95*
POORES FERT & CHEMICALS INC		ALBANY		KY		
GRADE	NUM	N	APA	POT	XS CL	RV
5-10-15	38527	4.9	9.6	16.4		100
6-12-12	40029	5.9	11.9	11.2*		97*
10-10-10	37907	9.7	9.3	10.6		97*
10-10-10	38355	9.2*	9.5	12.1		99

TABLE 1. (Continued)

PCORES FERT & CHEMICALS INC		ALBANY		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
10-10-10	38528	10.3	9.3	9.8		98	
10-10-10	38576	10.4	10.3	9.9		103	
10-10-10	39251	9.5	10.1	11.0		100	
10-10-10	39922	9.4	9.2*	11.5		98	
10-10-15	38314	9.3	9.2*	18.0		100	
10-10-15	38356	10.0	9.7	16.6	*	102	
10-10-15	38529	10.3	10.2	15.9		103	
10-10-15	38645	9.4	9.2*	17.4		99	
10-10-15	38650	10.4	10.2	13.9*		100	
10-10-15	40361	10.2	10.9	15.7	*	105	
15-15-15	39773	13.8*	14.4	17.7		99	
20-10-10	40028	19.1	11.8	14.8		109	
28- 0- 0	40027	27.9	0.0	0.0		100	
PRINCETON GRAIN & SUPPLY CO.		PRINCETON		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
12- 6- 6	39568	12.6	5.6	5.9		101	
12- 8-16	39526	11.9	7.5	15.8		97*	
17- 8- 8	39812	19.4	9.2	4.4*		98	
RA-PID-GROW CORPORATION		DANVILLE		NY			
GRADE	NUM	N	APA	POT	XS CL	RV	
23-19-17	37909	23.2	21.3	17.3		105	
23-19-17	37906	22.7	21.2	16.9		104	
23-19-17	37924	23.6	21.3	17.4		106	
RHODES FEED MILL		MAYFIELD		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
10-25-26	39793	10.3	26.9	23.8*		100	
RICH POND CROP SERVICE		BOWLING GREEN		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
3-12-13	38138	5.3	17.5	14.3		133	
23- 9-12	38748	23.2	13.4	11.6*		108	
WILLIAM RUDY & SON		BANDANA		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
27-13-13	39462	27.3	11.9*	12.1*		96*	
28- 0- 0	39463	28.4	0.0	0.0		101	
SACRAMENTO FEED MILL, INC.		SACRAMENTO		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-23-30	38120	0.0	22.6	30.9		100	
0-23-30	40351	0.0	25.0	27.6*		102	
5-20-20	40197	4.9	19.6	16.7*		94*	
9-23-30	39573	9.1	23.4	29.8		101	
SCHOCHOH CROP SERVICE		RUSSELLVILLE		KY			
GRADE	NUM	N	APA	POT	XS CL	RV	
0-26-26	38140	0.0	22.6*	30.0		96*	
O. M. SCOTT & SONS		MARYSVILLE		OH			
GRADE	NUM	N	APA	POT	XS CL	RV	
18-24- 6	37914	19.4	23.4	6.9		103	
23- 7- 7	37883	22.9	7.2	7.5		101	
SEARS, ROEBUCK & COMPANY		CHICAGO		IL			
GRADE	NUM	N	APA	POT	XS CL	RV	
20-10- 5	38859	22.2	10.1	5.7		108	
SEWERAGE COM., CITY MILWAUKEE		MILWAUKEE		WI			
GRADE	NUM	N	APA	POT	XS CL	RV	
6- 2- 0	39801	6.9	1.8	0.0		109	
6- 2- 0	39802	7.1	1.8	0.0		111	
SEYMOUR CHEMICAL COMPANY		SEYMOUR		IN			
GRADE	NUM	N	APA	POT	XS CL	RV	
5-10-15	39897	5.3	10.9	14.8		104	

TABLE 1. (Continued)

SEYMOUR CHEMICAL COMPANY		SEYMOUR			IN	XS	CL	RV
GRADE	NUM	N	APA	POT				
6-24-24	39284	6.6	24.2	23.8				102
8-32-16	38369	8.0	31.9	16.2				100
10-10-10	39259	9.7*	10.8	9.9				102
12-12-12	39285	12.7	12.4	12.0				103
SMITH-DOUGLAS DIV		RUSSELLVILLE KY						
GRADE	NUM	N	APA	POT		XS	CL	RV
0- 0-60	38034	0.0	0.0	58.8				98
0-10-30	39457	0.0	9.1*	27.5*				91*
0-10-30	39644	0.0	10.8	26.8*				97*
0-46- 0	38033	0.0	44.1*	0.0				96*
4-16- 4	38404	6.0	16.9	10.5				128
4-16-16	37937	5.8	17.0	14.1*				107
5-10-15	38260	6.1	10.5	10.9*				98
5-10-15	38405	6.0	11.4	15.8				113
5-10-15	38447	5.9	10.6	14.8				106
5-10-15	38517	6.7	11.7	16.5	*			118
5-10-15	38772	6.1	10.3	17.1				111
5-10-15	40095	6.7	9.7	15.1				106
5-20-20	37944	6.2	19.6	18.9*				101
5-20-20	37950	5.8	20.8	18.3*				102
5-20-20	38449	5.7	20.3	20.2				103
5-20-20	39456	2.2*	15.1*	20.7				79*
5-20-20	39643	6.4	25.7	14.1*				112
5-20-20	39697	5.8	20.5	18.4*				101
5-20-20	40043	6.5	13.7*	19.8				86*
5-20-20	38442	6.1	22.6	23.9				116
6-12-12	37935	7.9	14.4	12.0				118
6-12-12	38035	7.0	15.9	10.8*				117
6-12-12	38346	8.0	16.6	13.3				130
6-12-12	39952	6.5	15.3	13.6				119
6-12-12	39948	6.2	12.7	12.6				105
6-12-18	39831	6.9	12.7	18.0				106
6-12-18	40091	6.6	13.3	18.7				108
6-12-18	40312	6.6	12.0	17.7				102
6-12-18	40344	5.8	12.2	17.8				100
6-21-18	40378	6.5	20.8	21.4				106
6-24-24	38080	5.1*	18.9*	30.9				94*
6-24-24	38081	6.3	22.7*	24.1				98
6-24-24	38222	5.9	22.4*	25.0				97*
6-24-24	38322	5.9	20.0*	18.8*				84*
6-24-24	38737	6.0	23.7	25.0				100
6-24-24	38771	6.0	22.4*	21.3*				93*
6-24-24	39302	6.4	22.5*	23.0				96*
6-24-24	39337	6.8	22.5*	23.8				98
6-24-24	39338	6.5	23.3	23.8				99
6-24-24	39392	6.5	22.2*	23.8				97*
6-24-24	39951	7.3	23.3	23.1				100
6-24-24	40313	6.3	23.8	22.8*				99
6-24-24	40343	6.3	22.3*	24.9				98
6-24-24	37973	6.6	22.7*	24.1				98
6-24-24	38112	6.5	24.6	23.4				102
6-24-24	38446	5.9	23.7	24.6				100
6-24-24	38567	6.5	23.4	22.6*				98
6-24-24	38738	6.4	22.7*	23.0				97*
6-24-24	38740	6.4	22.3*	24.1				97*
6-24-24	38753	6.3	23.3	22.5*				97*
6-24-24	39198	6.3	22.5*	24.1				97*

TABLE 1. (Continued)

SMITH-DOUGLAS DIV		RUSSELLVILLE KY				XS CL	RV
GRADE	NUM	N	APA	POT			
6-24-24	39217	5.8	23.9	24.5		100	
6-24-24	39218	6.3	22.9*	23.7		98	
6-24-24	39509	6.0	22.1*	24.1		96*	
6-24-24	39838	6.4	26.1	21.3*		103	
6-24-24	40096	7.1	23.8	22.2*		100	
6-24-24	40306	6.0	22.2*	24.4		96*	
6-24-24	40319	6.5	22.1*	24.8		97*	
7-21-10	37912	7.0	21.8	11.7		105	
7-21-10	38229	6.6	22.4	11.5		105	
7-21-10	39339	5.9*	24.4	10.2		107	
7-21-10	39558	6.4	21.5	11.3		102	
10-10-10	38113	9.8	12.9	10.8		112	
10-10-10	38259	10.3	14.8	11.8		124	
10-10-10	38448	10.0	9.9	12.0		103	
10-10-10	38516	9.7	12.7	11.7		113	
10-10-10	38770	9.1*	10.7	12.0		103	
10-10-10	38773	10.5	10.1	10.2		103	
10-10-10	39208	9.2*	11.7	13.3		110	
10-10-10	39303	9.7	10.3	13.8		108	
10-10-10	39367	8.8*	8.6*	14.7		99	
10-10-10	39459	9.7	9.4	11.0		98	
10-10-10	39557	9.7	10.6	13.2		107	
10-10-10	39640	8.5*	8.3*	11.6		90*	
10-10-10	39645	11.3	10.1	12.5		110	
10-10-10	40345	10.5	10.2	11.8		106	
10-10-10	40353	10.0	10.4	10.5		102	
10-10-10	37919	12.9*	18.8	13.6		110	
14-14-14	37936	12.7*	18.9	13.2		109	
14-14-14	37942	13.0*	17.7	14.4		108	
14-14-14	38223	12.6*	17.7	14.2		107	
16- 8- 8	38822	14.8*	11.0	9.6		109	
16- 8- 8	39696	14.5*	10.6	10.0		107	
16- 8- 8	39950	13.6*	8.4	12.6		101	
18-46- 0	39458	17.8	45.2	0.0		98	
18-46- 0	39642	17.7	45.2	0.0		98	
18-46- 0	38144	17.6	45.2	0.0		98	
28- 0- 0	39828	28.5	0.0	0.0		102	
33- 0- 0	39641	34.4	0.0	0.0		103	
33- 0- 0	38443	34.7	0.0	0.0		103	
33- 0- 0	39340	34.8	0.0	0.0		104	
82- 0- 0	38783	81.8	0.0	0.0		100	
SMITH-DOUGLASS, BORDEN INC.		NORFOLK VA				XS CL	RV
GRADE	NUM	N	APA	POT			
33- 0- 0	38261	34.3	0.0	0.0		102	
33- 0- 0	39455	33.8	0.0	0.0		102	
46- 0- 0	37962	45.6	0.0	0.0		99	
SMITHS GROVE FERTILIZER CO		SMITHS GROVE KY				XS CL	RV
GRADE	NUM	N	APA	POT			
14-14-14	38050	14.5	16.5	13.1*		101	
SMYLES LABORATORIES, INC.		MINNEAPOLIS MN				XS CL	RV
GRADE	NUM	N	APA	POT			
2- 2- 2	37927	4.9	3.7	3.1		204	
SOUTHERN STATES COOP., INC.		BALTIMORE MD				XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-15	38303	5.8	10.8	15.1		107	
5-10-15	38350	5.3	10.8	15.0		104	
5-10-15	38465	5.3	10.3	15.7		104	

TABLE 1. (Continued)

SOUTHERN STATES COOP., INC.		BALTIMORE		MD		XS	CL	RV
GRADE	NUM	N	APA	POT				
5-10-15	38605	5.3	10.2	15.0				102
5-10-15	38830	5.4	10.3	15.5				104
5-10-15	38976	5.2	9.7	15.3				100
5-10-15	38989	5.3	9.8	15.1				101
5-10-15	39223	5.3	10.3	16.3				105
SOUTHERN STATES COOP., INC.		RICHMOND		VA		XS	CL	RV
GRADE	NUM	N	APA	POT				
0- 0-50	38008	0.0	0.0	50.5				101
0- 0-50	38215	0.0	0.0	50.4				101
0- 0-51	38210	0.0	0.0	50.7				99
0- 0-60	38164	0.0	0.0	60.0				100
0-44- 0	38211	0.0	43.5	0.0				99
5-10- 5	39345	5.5	10.2	5.8				107
10-10-10	39344	10.1	10.2	10.2				101
18-46- 0	38177	17.7	45.6	0.0				99
18-46- 0	38212	18.3	46.6	0.0				101
18-46- 0	38214	18.3	46.6	0.0				101
18-46- 0	40011	18.3	46.5	0.0				101
18-46- 0	40308	18.0	46.1	0.0				100
20- 5-10	39820	19.0	5.7	9.8				99
28- 0- 0	38900	27.2	0.0	0.0				97
28- 0- 0	39775	26.9	0.0	0.0				96
28- 0- 0	39833	28.1	0.0	0.0				100
34- 0- 0	38213	34.1	0.0	0.0				99
SOUTHERN STATES COOP., INC.		LOUISVILLE		KY		XS	CL	RV
GRADE	NUM	N	APA	PCT				
5-10-15	38278	5.5	10.8	16.5				109
5-10-15	38308	5.2	8.8*	18.4				103
5-10-15	38336	5.9	11.2	14.2				107
5-10-15	38347	5.4	9.7	16.6				104
5-10-15	38383	5.0	9.6	16.3				101
5-10-15	38399	5.5	9.2*	16.8				103
5-10-15	38454	5.3	9.6	16.0				101
5-10-15	38470	6.2	11.2	14.8				110
5-10-15	38553	5.6	10.2	15.5				105
5-10-15	38583	5.8	9.9	15.5				104
5-10-15	38591	5.8	10.1	15.4				105
5-10-15	38657	5.6	9.8	16.0				104
5-10-15	38673	5.2	10.1	13.8*				98
5-10-15	38726	6.0	11.3	14.7				110
5-10-15	38784	5.9	10.6	15.6				108
5-10-15	38792	5.8	9.9	15.2				103
5-10-15	39230	5.0	10.0	14.9				100
5-10-15	39301	5.9	11.3	14.0*				108
5-10-15	39326	5.7	11.5	14.8				109
5-10-15	39580	5.4	9.0*	15.8				99
5-10-15	39719	6.3	11.9	13.6*				111
5-10-15	39726	5.6	10.6	12.8*				100
5-10-15	39750	5.7	10.8	15.3				107
5-10-15	39755	5.5	10.3	16.7				107
5-10-15	39778	5.3	10.5	16.7				107
5-10-15	39844	5.4	11.8	13.9*				107
5-10-15	40174	5.9	10.7	15.0				107
5-10-15	40225	5.5	10.9	15.2				106
5-10-15	40228	5.2	9.4	14.2				96*
5-10-15	40366	4.9	10.1	15.4				101
5-10-15	40229	4.7	8.2*	18.7				99

TABLE 1. (Continued)

SOUTHERN STATES COOP., INC.		LOUISVILLE			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
5-20-20	38115	6.3	23.1	17.5*		109	
5-20-20	38375	5.4	20.7	18.3*		101	
5-20-20	38427	4.8	19.5	21.9		101	
5-20-20	38467	5.9	20.6	20.9		106	
5-20-20	39117	5.7	20.3	20.3		103	
5-20-20	39621	6.1	21.8	18.3*		106	
5-20-20	39646	5.7	21.8	20.8		108	
5-20-20	39779	6.0	21.9	18.9*		107	
5-20-20	40115	5.3	20.0	18.9*		99	
5-20-20	40224	5.8	21.4	20.7		107	
5-20-20	40279	5.3	20.8	15.7*		97*	
6-12-12	38426	6.6	13.1	12.5		108	
6-12-12	39781	6.7	13.3	11.8		107	
8-10-15	39652	9.0	10.4	15.3		106	
10-10-10	37890	9.6	10.2	9.9		99	
10-10-10	37979	11.2	10.4	7.8*		102	
10-10-10	38180	10.3	11.3	10.9		108	
10-10-10	38241	11.8	7.6*	8.5*		94*	
10-10-10	38307	9.9	9.6	10.8		99	
10-10-10	38309	9.9	10.4	11.0		103	
10-10-10	38337	10.1	11.0	9.9		104	
10-10-10	38374	10.5	9.1*	8.5*		95*	
10-10-10	38382	10.6	9.7	10.1		101	
10-10-10	38398	11.6	8.5*	8.1*		97*	
10-10-10	38425	11.0	10.8	8.7*		104	
10-10-10	38450	9.6	10.5	11.7		104	
10-10-10	38466	11.8	11.5	9.8		113	
10-10-10	38551	10.8	10.0	9.2*		101	
10-10-10	38962	10.6	10.9	9.8		105	
10-10-10	38985	9.9	10.8	9.9		102	
10-10-10	39120	9.0*	10.1	10.8		98	
10-10-10	39332	11.2	11.3	11.0		112	
10-10-10	39622	9.1*	11.0	10.8		102	
10-10-10	39647	10.5	10.1	10.5		103	
10-10-10	39648	11.4	11.8	8.2*		109	
10-10-10	39720	10.4	11.1	9.8		106	
10-10-10	39748	10.0	10.1	10.7		102	
10-10-10	39766	9.3*	10.9	10.1		101	
10-10-10	39782	9.1*	11.1	10.0		101	
10-10-10	39783	10.5	10.3	9.8		103	
10-10-10	40214	10.4	11.0	10.9		107	
10-10-10	40280	9.6	11.3	10.0		103	
12-12-12	38468	12.0	13.4	12.7		105	
12-12-12	38988	12.5	10.3*	13.0		97*	
15-15-15	38469	15.9	15.8	13.8*		103	
15-15-15	40176	15.1	17.0	13.8*		104	
15-15-15	40374	15.3	12.0*	17.4		96*	
18-46-0	39311	18.0	46.6	0.0		101	
SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY			XS CL	RV	
GRADE	NUM	N	APA	POT			
0-0-21	39483	0.0	0.0	21.9		102	
0-0-60	37976	0.0	0.0	59.8		100	
0-44-0	37975	0.0	43.0	0.0		98	
4-16-4	38341	4.5	16.1	4.7		104	
4-16-4	38400	4.3	16.5	4.3		105	
4-16-4	38600	4.0	16.2	4.4		102	
4-16-4	38627	4.0	16.3	4.5		102	

TABLE 1. (Continued)

SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
4-16-4	38643	4.7	15.6	4.9		103
4-16-4	39076	4.5	17.3	4.0		108
4-16-4	39200	4.4	16.6	4.5		106
5-10-15	38316	5.5	10.7	16.0		107
5-10-15	38330	5.6	9.5	16.7		104
5-10-15	38338	5.5	10.4	16.6		108
5-10-15	38349	5.6	10.3	16.1		107
5-10-15	38368	5.3	9.6	16.4		103
5-10-15	38385	5.2	9.5	17.3		104
5-10-15	38408	5.8	9.8	16.8		106
5-10-15	38464	5.5	9.8	16.4		104
5-10-15	38513	5.5	9.7	16.6		104
5-10-15	38603	4.7	10.1	15.2		100
5-10-15	38669	5.2	10.0	15.1		101
5-10-15	38764	5.2	9.9	15.8		102
5-10-15	38767	5.3	9.8	16.0		103
5-10-15	38975	5.1	9.7	17.3		104
5-10-15	39152	5.2	10.9	13.7*		102
5-10-15	39159	5.4	11.1	15.9		108
5-10-15	39201	5.4	10.0	14.8		101
5-10-15	39261	5.6	9.8	15.8		104
5-10-15	39400	5.3	9.5	15.2		99
5-10-15	39474	5.1	10.2	16.0		104
5-10-15	39630	5.3	9.3*	14.8		97*
5-10-15	39769	5.2	11.7	15.7		110
5-10-15	39811	5.4	10.6	18.0		111
5-10-15	39843	5.2	9.8	15.1		100
5-10-15	39845	5.1	10.4	14.8		102
5-10-15	40346	5.4	10.2	14.8		102
5-10-15	39460	5.4	10.1	15.0		102
5-20-20	38102	5.7	20.0	20.0		102
5-20-20	38134	5.2	21.2	18.5*		102
5-20-20	38174	5.1	19.0*	22.3		101
5-20-20	38253	5.3	20.4	20.4		102
5-20-20	38255	4.9	19.7	21.0		100
5-20-20	38573	5.5	19.6	19.8		100
5-20-20	38766	5.0	18.9*	20.9		98
5-20-20	39298	5.9	19.7	20.4		102
5-20-20	39299	5.5	20.1	20.9		103
5-20-20	39356	5.3	20.3	19.9		101
5-20-20	40059	5.5	19.9	19.1		100
5-20-20	40274	5.4	19.3	19.8		99
5-20-20	40385	4.8	19.5	19.0*		96*
5-20-20	40104	5.6	18.3*	19.7		96*
6-12-12	37865	5.0*	10.8*	12.8		92*
6-12-12	38514	6.8	12.0	13.4		106
6-12-12	38552	6.4	12.3	13.0		105
6-12-12	38602	6.4	12.2	12.5		103
6-12-12	38606	6.4	13.1	13.9		110
6-12-12	38765	6.3	12.1	12.8		103
6-12-12	38075	6.6	11.4	13.1		102
6-12-12	39523	6.2	11.3	12.7		99
6-24-24	38024	6.4	24.9	23.2		102
6-24-24	38348	6.1	24.4	23.8		101
6-24-24	38555	5.9	24.6	23.0		100
6-24-24	38820	5.5	23.8	25.6		100
6-24-24	38934	6.0	23.3	25.7		100

TABLE 1. (Continued)

SOUTHERN STATES COOP., INC.		RUSSELLVILLE KY				XS CL	RV
GRADE	NUM	N	APA	POT			
6-24-24	39263	6.6	25.6	23.9		105	
6-24-24	39650	5.9	23.5	24.0		98	
6-24-24	39826	6.0	24.4	23.8		101	
6-24-24	38051	6.1	24.3	23.8		100	
6-24-24	39026	6.3	23.8	24.6		101	
10-10-10	37866	10.2	9.9	10.5		101	
10-10-10	37986	9.9	10.7	8.1*		98	
10-10-10	38175	10.4	10.1	10.5		103	
10-10-10	38181	10.4	10.2	10.1		102	
10-10-10	38243	10.2	10.2	10.8		103	
10-10-10	38351	10.3	9.9	11.5		104	
10-10-10	38397	10.3	10.0	10.3		101	
10-10-10	38515	9.9	10.3	10.1		101	
10-10-10	38547	10.0	10.0	10.3		100	
10-10-10	38548	10.3	9.8	10.8		102	
10-10-10	38607	10.6	10.1	9.8		102	
10-10-10	38668	10.5	11.3	9.8		107	
10-10-10	39140	10.0	10.2	10.4		102	
10-10-10	39202	10.7	10.1	9.9		103	
10-10-10	39300	10.3	10.1	9.9		101	
10-10-10	39472	9.9	9.0*	12.4		100	
10-10-10	39473	10.5	9.1*	11.3		101	
10-10-10	39583	10.2	9.4	10.2		99	
10-10-10	39768	10.2	9.7	10.5		101	
10-10-10	39807	10.9	9.6	10.8		104	
10-10-10	39847	10.9	9.8	10.9		104	
10-10-10	40051	10.5	9.7	9.8		100	
12-12-12	38101	11.9	11.8	12.9		100	
12-12-12	38763	12.3	11.8	12.7		101	
12-12-12	38831	12.3	12.4	12.9		104	
12-12-12	39260	12.2	11.6	12.8		101	
12-12-12	39315	12.3	11.6	11.9		99	
12-12-12	39401	12.3	12.0	12.4		101	
34- 0- 0	37974	34.1	0.0	0.0		99	
SOUTHERN STATES COOP., INC.		WINCHESTER KY				XS CL	RV
GRADE	NUM	N	APA	POT			
0- 0-50	38344	0.0	0.0	51.5		103	
0- 0-60	38342	0.0	0.0	58.9		98	
0-12-40	38339	0.0	12.8	38.4*		100	
0-25-25	38986	0.0	28.3	22.7*		106	
0-25-25	39271	0.0	24.9	24.8		99	
0-25-25	39398	0.0	26.1	23.5*		101	
0-25-25	40338	0.0	25.5	23.8*		100	
0-44- 0	38343	0.0	44.2	0.0		100	
5-10-15	38304	5.3	9.9	17.5		106	
5-10-15	38366	6.4	10.6	15.3		109	
5-10-15	38432	5.3	9.8	15.5		101	
5-10-15	38435	4.9	8.8*	15.5		96*	
5-10-15	38536	5.2	10.2	16.0		104	
5-10-15	38582	5.5	10.6	14.8		104	
5-10-15	38691	5.5	10.3	15.9		105	
5-10-15	38758	5.4	11.1	14.8		106	
5-10-15	38759	5.8	10.2	14.9		104	
5-10-15	38910	5.3	10.9	15.3		105	
5-10-15	39073	5.5	10.6	14.8		104	
5-10-15	39077	5.1	9.7	14.8		98	
5-10-15	39222	4.9	9.8	15.8		100	

TABLE 1. (Continued)

SOUTHERN STATES COOP., INC.		WINCHESTER			KY		
GRADE	NUM	N	APA	POT	XS CL	RV	
5-10-15	39325	5.5	10.3	14.0*		101	
5-10-15	39842	5.9	11.1	14.8		108	
5-10-15	39846	5.4	10.2	15.1		103	
5-10-15	39848	5.7	10.8	15.1		107	
5-10-15	40137	5.0	9.3*	15.6		98	
5-10-15	40259	5.1	9.1*	15.3		97*	
5-10-15	40337	5.2	9.3*	17.1		102	
5-20-20	38182	5.8	20.9	19.8		105	
5-20-20	38238	6.1	19.7	20.1		102	
5-20-20	38453	5.4	19.2	20.5		99	
5-20-20	38601	5.3	18.4*	20.5		97*	
5-20-20	38987	5.6	19.7	19.8		101	
5-20-20	39074	5.3	20.6	20.1		102	
5-20-20	39110	5.8	20.9	20.3		105	
5-20-20	39183	5.9	22.0	19.5		108	
5-20-20	39244	5.6	21.1	19.8		104	
5-20-20	40271	5.1	18.7*	16.6*		92*	
6- 6-18	39849	7.3	7.1	18.1		112	
6-12-12	38656	6.0	11.3	14.1		101	
6-12-12	38990	6.5	12.5	11.8		104	
6-12-12	39186	6.2	12.6	12.8		105	
6-12-12	40336	6.3	12.3	15.7		110	
8-10-15	38690	8.3	11.9	16.8		112	
8-10-15	39749	7.8	10.2	14.8		100	
10-10-10	37922	10.6	10.7	9.9		105	
10-10-10	37965	10.2	10.5	10.7		104	
10-10-10	38535	10.1	9.8	8.8*		97*	
10-10-10	38581	9.7	9.8	10.2		98	
10-10-10	38592	9.3*	11.3	10.0		102	
10-10-10	38599	10.0	10.1	9.8		100	
10-10-10	38624	10.9	10.7	11.6		110	
10-10-10	38628	10.3	11.0	12.0		109	
10-10-10	38667	11.9	11.2	7.9*		108	
10-10-10	38672	8.7*	10.2	12.1		100	
10-10-10	38828	10.9	10.7	9.2*		105	
10-10-10	38886	10.8	10.3	9.8		104	
10-10-10	39075	10.2	9.3*	10.1		98	
10-10-10	39133	10.0	10.9	10.9		105	
10-10-10	40170	10.6	9.9	9.8		102	
10-10-10	40273	10.0	10.5	9.0*		100	
10-10-10	40292	11.0	7.8*	9.8		95*	
12-12-12	38367	12.6	12.1	10.7*		100	
12-12-12	38829	12.0	12.0	11.8		100	
12-12-12	39042	12.8	10.2*	11.8		96*	
12-12-12	39312	11.6	12.0	12.1		99	
12-12-12	39399	12.3	11.3	11.0*		97*	
19-19-19	40291	19.8	19.3	19.3		101	
S.S. BARDSTOWN COOP.		BARDSTOWN			KY		
GRADE	NUM	N	APA	POT	XS CL	RV	
0-25-24	38701	0.0	25.6	24.5		100	
0-25-25	38848	0.0	27.8	22.4*		102	
0-26-25	38697	0.0	25.7	26.6		99	
6-26-25	38698	6.4	26.7	26.0		101	
16-41- 0	38696	16.5	42.4	0.0		101	
17-17-17	38695	17.6	18.0	18.0		100	
17-17-17	38699	17.4	20.3	17.8		105	
18-18-18	39623	17.1*	18.1	18.7		99	

TABLE 1. (Continued)

S. S. BOYLE COOP.		DANVILLE			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
8-26-6	39942	8.6	26.7	9.7		102	
10-8-13	39940	9.1*	8.5	15.2		98	
14-14-22	39941	13.6	15.7	22.5		102	
20-9-13	39938	20.3	9.6	14.9		101	
21-0-15	39939	20.4	0.0	16.6		99	
SS BOWLING GREEN COOP		BOWLING GREEN KY			XS CL	RV	
GRADE	NUM	N	APA	POT			
8-8-8	38136	11.4	9.8	10.8		119	
16-19-18	38749	17.3	19.1	16.4*		98	
S. S. BRECK COOP.		HARDINSBURG			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
6-6-6	39121	7.4	6.0	7.7		112	
6-25-25	38015	5.8*	21.2*	31.6		95*	
10-26-26	39122	11.0	26.2	25.8		102	
10-26-26	39123	10.5	26.9	25.8		102	
S.S. COOP-CALDWELL SERVICE		PRINCETON			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
0-25-25	39565	0.0	26.3	25.6		103	
5-18-20	38025	5.6	19.3	20.4		102	
9-25-22	39033	10.2	25.2	25.4		102	
17-22-0	39563	17.4	22.8	0.0		102	
20-14-14	39564	20.5	15.8	14.8		102	
S. S. CAMPBELLSVILLE COOP.		CAMPBELLSVILLE KY			XS CL	RV	
GRADE	NUM	N	APA	POT			
9-8-12	40340	9.1*	7.9	15.8		101	
9-18-27	39465	8.6	17.4*	29.5		99	
11-7-11	40341	10.0*	7.1*	16.8		102	
17-17-17	39464	18.8	18.0	16.5*		101	
17-17-17	39784	17.1	18.3	18.5		100	
S. S. BULLITT COOP.		SHEPHERDSVILLE KY			XS CL	RV	
GRADE	NUM	N	APA	POT			
6-25-25	39862	6.8	27.3	23.9*		102	
7-14-22	39865	7.2	15.4	23.7		103	
17-17-17	39866	17.1	18.7	19.1		102	
23-11-11	39863	23.1	12.2	12.3		101	
S.S. CARLISLE COOP		CARLISLE			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
11-12-18	40179	13.2	10.6*	19.5		100	
25-11-0	40178	24.7*	12.4	0.0		101	
S.S. CLARK COOP		WINCHESTER			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
7-14-22	40007	7.5	14.2	23.5		100	
7-15-21	40008	7.5	15.4	22.0		101	
S.S. COOP. CLAY PETROL SVC.		CLAY			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
13-13-13	38068	13.8	14.0	15.1		106	
S.S. CYNTHIANA COOP		CYNTHIANA			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
0-35-11	40357	0.0	35.6	14.0		103	
5-21-21	40125	15.1	21.7	21.4		127	
11-11-17	40132	11.5	12.3	16.7		100	
S.S. FLEMINGSBURG COOP		FLEMINGSBURG			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
5-21-21	39687	5.3	23.2	20.6		103	
S.S. GEORGETOWN COOP.		GEORGETOWN			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
16-12-19	40026	17.4	12.8	18.6		101	

TABLE 1. (Continued)

S.S. GLASGOW COOP		GLASGOW			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
3-15-15	38049	4.0	12.6*	13.4*		98*
6-25-25	38109	7.4	27.4	23.3*		103
6-25-26	38743	6.5	25.9	26.9		101
17-17-17	38742	16.5*	17.2	18.5		96*
S.S. GRAYSON COOP		GRAYSON			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
11- 8-12	40175	10.8*	7.6*	13.5		95*
S. S. GREENVILLE SERVICE		GREENVILLE			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
6-18-18	39522	6.8	19.2	21.4		105
6-25-25	40040	5.0*	27.1	24.4*		98
6-25-26	40039	6.9	27.5	23.8*		102
10- 8-12	40355	12.9	7.9	10.5*		104
10-30-20	39521	9.6	30.4	20.7		100
17-23-15	40354	17.5	21.6*	15.4		97*
18-12-17	40041	18.6	17.0	18.1		100
19-15-15	39524	19.4	18.0	14.8*		103
19-16-15	40042	19.0	16.9	16.1		100
S.S. HARDIN COOP		ELIZABETHTOWNKY			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-25-25	38873	0.0	26.4	25.0		102
20-37- 0	38085	21.0	38.3	0.0		101
S.S. HARRODSBURG COOP		HARRODSBURG			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-22-29	39424	0.0	24.5	26.9*		102
9-18-27	40010	11.0	13.2*	27.7		92*
14-14-21	40009	14.3	13.6	22.4		99
14-14-21	40014	14.2	13.0*	22.9		98
17-12-18	40012	17.4	13.0	18.0		101
27- 0-10	40013	28.0	0.0	9.2*		100
S.S. HENDERSON COOP		HENDERSON			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20	38072	0.0	23.7	18.6*		107
0-22-30	39027	0.0	22.7	30.6		103
2-13-30	38074	3.3	20.4	20.5*		110
5-26-25	40015	16.5	15.0*	26.8		100
9- 9-13	40016	8.4*	9.7	14.4		99
9-19-30	39029	9.6	23.0	28.5*		105
10-26-25	39028	10.1	27.3	24.8		101
10-26-26	40017	9.3*	27.6	24.1*		99
S.S. HENRY COOP		EMINENCE			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-26-21	40372	0.0	30.1	17.5*		106
8-17-27	40025	9.4	18.8	27.6		103
9-18-27	40021	9.7	15.9*	29.5		97*
14-14-21	40022	12.5*	13.8*	25.5		98
15- 4-25	40020	15.0	5.0	23.2*		97*
15-13-19	40024	15.9	13.1	20.2		99
22- 3- 7	40023	21.1*	4.6	8.4		98
22- 3- 7	40023	21.1*	4.6	8.4		98
S.S. HOPKINSVILLE COOP		HOPKINSVILLE			KY	
GRADE	NUM	N	APA	POT	XS CL	RV
0-18-18	38064	0.0	21.6	21.8		116
0-25-25	39036	0.0	29.3	20.6*		104
0-30-18	39683	0.0	31.8	20.1		106
6-25-25	39892	6.6	28.2	22.1*		101

TABLE 1. (Continued)

S.S. HORSE CAVE COOP		HORSE CAVE			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
5-16-31	39560	5.9	15.7	29.9*			98
9-18-27	40237	9.9	15.8*	29.0			96*
12- 7-11	40284	12.6	7.7	11.4			102
12- 9-22	40238	10.2*	7.2*	24.9			89*
16- 7-16	40233	15.3*	7.2	17.0			97*
S.S. IRVINGTON SERVICE		IRVINGTON			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
12-15-23	39634	12.4	16.5	23.3			102
S.S. LAGRANGE COOP		LA GRANGE			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
13- 9-25	40018	15.8	10.6	21.9*			105
16-12-18	40019	15.2*	9.6*	22.9			94*
S.S. LAWRENCEBURG COOP		LAWRENCEBURG			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
0- 6- 9	39625	0.0	6.9	8.8*			99
0-14-40	39981	0.0	16.9	38.3*			104
3-39- 0	39605	4.4	38.2	0.0			99
15-10-15	40001	15.4	7.8*	18.8	*		96*
21- 0-22	39980	23.0	0.0	19.8*			100
S.S. LEBANON COOP.		LEBANON			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
6-25-25	39929	6.5	27.2	25.9			103
17-12-18	39930	16.8	12.8	19.9			101
18- 8-14	39423	20.5	10.0	11.2*			105
20-10-10	39928	19.4*	11.6	10.8			101
23-11-11	39931	23.9	11.8	11.8			101
S. S. LEITCHFIELD COOP		LEITCHFIELD			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
4-19-19	38093	5.9	22.7	22.8			116
6-27-18	39547	6.8	29.5	17.7			106
12-12-12	38092	15.7	17.9	13.1			126
17-17-17	39546	17.2	18.0	18.6			100
17-17-17	39548	16.5	19.3	17.0			103
S.S. LEXINGTON COOP		LEXINGTON			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
17- 9-13	39990	15.7*	11.3	15.1			102
19- 0-22	39993	17.3*	0.0	25.4			99
21- 8- 9	39992	21.0	9.0	9.6			101
26-10- 0	39991	25.5	11.6	0.0			101
S.S. LONDON COOP		LONDON			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
4-39- 0	39187	7.0	36.3*	0.0			98
6-26-25	39695	6.1	25.2	26.0			97*
17-17-17	39690	16.8	17.0	19.7			101
17-17-17	39693	16.4*	17.3	19.0			100
17-17-17	39694	17.9	17.8	16.3*			98
17-17-16	39772	18.3	19.7	15.3*			103
S.S. MADISONVILLE COOP		MADISONVILLE			KEY	XS CL	RV
GRADE	NUM	N	APA	POT			
0-14-39	39518	0.0	16.4	37.4*			101
0-16-36	38801	0.0	17.0	37.2			101
0-22-30	39517	0.0	23.4	28.0*			101
0-22-30	40243	0.0	22.4	30.1			101
0-22-30	40245	0.0	25.8	25.0*			104
6-25-25	40244	6.4	26.0	25.9			100
11-30-20	37901	12.2	31.6	19.1*			101
17-11-11	39519	22.7	11.8	11.8			115

TABLE 1. (Continued)

S.S. MADISONVILLE COOP		MADISONVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
17-17-17	38802	18.5	17.7	18.0		102
S.S. MAYSVILLE COOP		MAYSVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
14-14-14	40297	15.7	13.8*	14.7		101
S.S. MORGANFIELD COOP		MORGANFIELD KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-18-35	38189	0.0	20.0	33.5*		103
0-20-33	38031	0.0	19.9	33.8		99
0-22-17	38154	0.0	21.0*	13.0*		88*
0-24-26	38155	0.0	27.5	22.6*		102
S.S. CWENSBORO COOP		CWENSBORO KY				
GRADE	NUM	N	APA	POT	XS CL	RV
7-17-35	39666	6.9	19.0	35.5		103
9-23-30	39667	8.3*	21.7*	32.6		98
10-27-22	39253	11.0	28.4	21.6		102
27- 0-12	38819	26.2	0.0	14.9		100
S.S. PENDLETON COOP		FALMOUTH KY				
GRADE	NUM	N	APA	POT	XS CL	RV
9-18-27	40135	9.6	17.1*	27.4		98
12-13-24	40134	12.4	13.1	26.6		102
22-12-12	40133	23.0	12.1*	13.1		99
S. S. COOP--RICHMOND SERVICE		RICHMOND KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-25-25	39882	0.0	27.2	22.7*		101
9-21-13	39492	9.7	22.9	13.5		103
17-17-17	39491	17.8	16.9*	18.5		99
17-17-17	39883	18.6	19.0	15.6*		102
S.S. RUSSELLVILLE COOP		RUSSELLVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
7-14-14	38141	9.4	16.6	18.4		120
18-17-17	39832	17.2	12.8*	21.9		92*
S. S. COOP. SEBREE SERVICE		SEBREE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-22-29	39730	0.0	22.7	29.8		101
3-22-29	39743	3.2	19.7*	33.4		96*
S.S. SHELBYVILLE COOP.		SHELBYVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
7-18-36	39867	7.2	18.1	37.2		101
9-18-27	39868	9.2	17.2*	29.0		100
14- 6-23	39985	12.0*	5.8	26.0		94*
16-19-18	38851	16.5	19.2	20.3		101
23- 3-14	39613	19.7*	7.4	16.2		103
24- 0-17	39612	24.1	0.0	16.0*		97*
S.S. SIMPSON COOP		FRANKLIN KY				
GRADE	NUM	N	APA	POT	XS CL	RV
5-21-21	40098	5.5	24.6	17.7*		104
22- 8- 8	38752	25.0	10.2	9.6		112
S.S. SOMERSET COOP		SOMERSET KY				
GRADE	NUM	N	APA	PCT	XS CL	RV
0-26-25	38732	0.0	25.2*	25.8		97*
13-12-13	39248	14.4	17.1	11.3*		112
14-14-14	39249	14.5	16.2	13.8*		103
14-14-14	39250	15.5	14.2	14.8		102
17-17-17	38730	17.2	19.8	18.0		103
17-17-17	38731	16.2	16.7	18.1		98
26- 0- 0	40212	28.4	0.0	0.0		101

TABLE 1. (Continued)

		ELKTON			KEY	XS CL	RV
S.S. COCP-TODD SVC.	NUM	N	APA	PCT			
GRADE							
10- 7-11	40090	8.7*	7.5	14.6			96*
18-13-18	40089	20.3	10.6*	16.5*			94*
		TAYLORSVILLE			KEY	XS CL	RV
SPENCER FARM SERVICE	NUM	N	APA	PCT			
GRADE							
11-12-15	40183	10.9*	13.9	19.6			109
12- 9-21	40181	9.6*	10.5	26.1			101
		SPRINGFIELD			KEY	XS CL	RV
SPRINGFIELD FARM SERVICE	NUM	N	APA	PCT			
GRADE							
15-13-20	39584	13.9*	14.5	23.3			102
17-17-17	39585	17.5	18.0	18.2			100
17-17-17	39586	17.1	18.2	18.0			99
22-12-12	39891	23.0	10.9*	12.6			97*
		STANLEY			KEY	XS CL	RV
STANLEY CROP SERVICE	NUM	N	APA	PCT			
GRADE							
0-23-30	39746	0.0	23.4	29.9			101
6-16-21	38083	7.8	18.6	23.3			113
6-17-23	38082	8.0	19.7	24.9			111
6-24-24	39393	7.1	24.5	24.5			104
6-24-24	39949	5.6	22.0*	26.7			98
6-26-26	39744	6.0	24.0*	29.1			99
9-18-27	40202	8.9	19.7	25.6*			102
16-12-19	40203	16.3	12.7	18.9			100
21-11-15	39745	20.5	10.8	17.4			99
		GENEVA			NY	XS CL	RV
STERNS NURSERIES INC	NUM	N	APA	PCT			
GRADE							
10- 8- 7	37876	10.3	8.2	7.1			102
30-10-10	37892	31.1	14.1	9.8			111
		MT. VERNON			KEY	XS CL	RV
STEWART FERTILIZER SERVICE	NUM	N	APA	PCT			
GRADE							
5-10-15	39221	4.4*	8.2*	13.8*			86*
5-10-15	39408	6.0	11.0	16.7			112
5-10-15	39410	4.4*	9.0*	14.8			92*
5-10-15	39499	5.9	11.2	15.8			111
5-10-15	39873	4.8	9.7	13.2*			94*
5-10-15	39887	4.8	10.6	13.8*			99
5-10-15	39888	4.7	11.1	13.4*			100
5-10-15	40158	5.2	9.6	17.2			104
5-10-15	39874	4.6	8.7*	11.1*			84*
6- 8- 6	40126	8.8	9.3	4.5*			120
9-18-26	39875	9.7	18.4	26.9			100
10-10-10	39220	9.4	10.6	11.5			103
10-10-10	39406	9.4	9.2*	10.4			95*
10-10-10	39409	10.0	10.0	10.3			100
10-10-10	39498	11.0	10.9	10.8			109
10-10-10	39872	12.6	12.4	9.8			119
10-10-10	40030	11.5	10.6	8.4*			105
10-10-10	39411	9.1*	8.4*	10.6			91*
15-15-15	39407	14.9	14.2	16.0			99
		CHICAGO			IL	XS CL	RV
SWIFT AGRI CHEM CORP	NUM	N	APA	PCT			
GRADE							
5-10-15	38114	6.4	15.4	17.8			136
5-10-15	39235	4.9	9.7	15.3			99
5-10-15	40082	5.4	10.0	16.0			104
5-20-20	39234	5.5	18.5*	20.5			98
5-20-20	40080	5.3	20.9	18.8*			102
6-10- 4	39093	7.3	16.3	1.8*			136
6-10- 4	40097	6.5	10.2	5.0			107

TABLE 1. (Continued)

SWIFT AGRI CHEM CORP		CHICAGO		IL	XS CL	RV
GRADE	NUM	N	APA	POT		
6-12-12	37863	7.8	16.6	13.7		130
6-24-24	39958	6.7	26.7	23.8		108
10- 0- 0	37864	10.5	0.0	0.0		105
10-10-10	39219	9.8	10.1	11.7		103
10-10-10	39236	9.9	10.0	12.0		103
10-10-10	40081	10.1	10.1	9.8		100
10-10-15	39448	9.9	8.2*	17.3	*	97*
15-15-15	40222	15.2	13.1*	14.7		95*
SWIFT CHEMICAL CO.		CCLUMBIA		KY	XS CL	RV
GRADE	NUM	N	APA	POT		
4- 9-15	39917	5.9	6.4*	13.5*		88*
5-20-20	39156	2.7*	5.4*	28.5		64*
8- 8- 8	39158	8.4	8.9	10.4		110
9- 7-10	39918	10.9	7.7	15.0		121
10-10-10	39157	11.2	8.2*	13.4		104
28- 0- 0	39919	27.1	0.0	0.0		97
SWIFT CHEMICAL CO.		CUNNINGHAM		KY	XS CL	RV
GRADE	NUM	N	APA	POT		
16- 8- 9	39797	16.6	8.5	10.1		101
SWIFT FARM CENTER		E BERNSTADT		KY	XS CL	RV
GRADE	NUM	N	APA	POT		
5-10-15	38276	4.9	10.9	14.9		103
5-10-15	38409	7.2	6.7*	14.8		94*
5-10-15	38533	5.7	8.5*	15.4		97*
5-10-15	38613	4.1*	11.7	14.8		103
5-10-15	38614	3.4*	12.1	15.0		102
5-10-15	38615	3.6*	11.9	15.2		102
5-10-15	38616	3.4*	11.8	15.4		102
5-10-15	38617	5.3	10.7	14.8		104
5-10-15	38618	3.4*	14.1	13.1*		107
5-10-15	38620	4.2*	10.2	15.8		99
5-10-15	38640	5.2	12.1	14.8		110
5-10-15	39088	3.9*	12.2	14.8		104
5-10-15	39191	3.6*	12.1	15.8		105
5-10-15	39194	4.9	10.8	14.9		103
5-10-15	39195	5.7	10.0	15.5		104
5-10-15	39493	6.1	9.8	14.8		103
5-10-15	40031	3.8*	7.4*	16.4		86*
5-10-15	40155	5.5	7.8*	16.9		96*
5-20-20	38642	6.2	23.2	14.1*		104
5-20-20	39055	4.6	16.9*	20.9		91*
5-20-20	39189	5.0	19.9	19.7		99
5-20-20	39692	4.3*	18.3*	24.1		99
6-12-12	38909	6.0	13.4	11.9		106
6-12-12	39092	6.4	12.5	12.8		105
6-12-12	39691	5.6	11.7	13.1		99
6-12-12	40140	6.3	11.8	11.9		100
6-12-18	38275	6.3	11.5	16.4*		96*
6-12-18	38411	7.0	11.0*	16.1*		96*
6-12-18	39089	5.2*	13.3	17.2		100
10-10-10	38100	7.5*	12.1	10.2		99
10-10-10	38277	10.6	10.9	8.7*		103
10-10-10	38410	9.7	10.3	10.1		100
10-10-10	38621	9.2*	9.4	10.7		96*
10-10-10	38641	10.7	10.0	10.1		103
10-10-10	39188	10.4	11.5	10.8		109
10-10-10	39190	9.9	8.6*	11.0		96*

TABLE 1. (Continued)

SWIFT FARM CENTER		E BERNSTADT KY				
GRADE	NUM	N	APA	POT	XS CL	RV
10-10-10	39193	9.3*	12.9	11.0		111
10-10-10	39196	9.5	12.1	10.3		107
10-10-10	40032	10.1	8.9*	8.6*		93*
10-10-10	40285	9.7	10.4	8.3*		97*
10-10-10	39091	9.7	11.3	10.7		105
15-15-15	38622	14.3	22.0	15.7		118
15-15-15	39090	15.2	17.0	14.8		105
18- 6- 6	39434	14.8*	4.5*	5.8*		78*
28- 0- 0	40386	27.8	0.0	0.0		99
33- 0- 0	39197	34.0	0.0	0.0		103
SWIFT AGRICULTURAL CHEM. CORP.		E. ST. LOUIS IL				
GRADE	NUM	N	APA	POT	XS CL	RV
11-37- 0	38905	11.2	36.3	0.0		99
SWIFT AGRICULTURAL CHEM CORP		HOPKINSVILLE KY				
GRADE	NUM	N	APA	POT	XS CL	RV
0-20-20	39150	0.0	20.5	20.9		103
3-10-30	40094	4.0	12.1	27.2*	*	106
4-16- 4	38412	4.3	13.4*	6.1		94*
4-16- 4	38534	4.2	13.0*	6.3		92*
5-10-15	38623	4.6	13.0	13.6*		109
5-10-15	38686	5.3	12.2	15.9		113
5-10-15	39210	6.1	8.2*	14.8		97*
5-10-15	39348	5.3	10.7	16.0	*	106
5-10-15	40074	6.4	9.1*	16.3		105
5-10-15	40208	5.4	9.6	15.0		100
5-10-15	40409	6.9	6.4*	13.6*		89*
5-20-20	37982	4.4*	16.6*	18.6*		86*
5-20-20	38286	6.3	18.8*	17.9*		97*
5-20-20	39145	4.4*	23.5	18.3*		106
5-20-20	39206	4.3*	17.8*	19.8		91*
5-20-20	39211	5.8	17.6*	21.6		98
5-20-20	39739	6.0	28.0	16.5*		121
5-20-20	39836	4.8	20.2	21.2		102
5-20-20	40088	4.7	20.3	20.0		100
5-20-20	40287	5.3	21.4	18.4*		102
5-20-20	40316	4.9	23.7	19.8		110
5-20-20	38123	5.1	19.2	15.7*		92*
5-20-20	38124	4.9	20.3	17.1*		96*
6-12-12	38142	5.2*	7.9*	15.2		86*
6-12-12	39214	5.9	15.0	12.2		112
6-12-18	37903	6.9	10.4*	13.6*		89*
6-12-18	39209	6.5	11.5	19.4	*	102
6-12-18	40087	6.5	10.7*	19.9		101
6-12-18	40207	6.0	11.6	18.1		99
6-24-24	39738	6.9	27.4	22.7*		109
6-24-24	40310	7.3	26.3	24.4		109
6-24-24	38066	5.3*	22.3*	25.5		96*
6-24-24	38817	5.6	22.3*	20.8*		91*
6-24-24	39541	7.0	29.4	18.6*		109
10-10-10	38143	8.6*	6.3*	11.5		83*
10-10-10	38285	9.2*	5.8*	12.1		84*
10-10-10	38687	10.0	10.5	13.0		108
10-10-10	39205	10.5	10.3	13.2		109
10-10-10	39212	10.3	10.8	10.2		105
10-10-10	39213	10.9	11.0	10.6		108
10-10-10	39347	10.9	9.0*	9.9		99
10-10-10	39525	10.5	9.9	9.9		101

TABLE 1. (Continued)

SWIFT AGRICULTURAL CHEM CORP		HOPKINSVILLE KY			XS	CL	RV
GRADE	NUM	N	APA	POT			
10-10-10	39837	10.2	10.0	11.1			103
10-10-10	40206	10.3	9.1*	9.9			97*
10-10-10	40288	11.5	12.6	10.9			119
10-10-10	38065	10.8	10.9	13.0			113
10-25-26	39151	9.3	23.5*	30.6			98
15-12-12	38818	15.3	14.1	12.7			104
15-15-15	39737	14.0*	18.2	16.1			107
28-0-0	37952	28.9	0.0	0.0			103
SWIFT AGRICULTURAL CHEM CORP		RICHMOND KY			XS	CL	RV
GRADE	NUM	N	APA	POT			
9-18-27	39880	7.1*	16.0*	33.0			95*
10-7-4	39881	6.5*	7.2	9.9			93*
18-13-20	39884	10.8*	10.9*	32.1			89*
SWIFT AGRI CHEM CORP.		UTICA KY			XS	CL	RV
GRADE	NUM	N	APA	POT			
15-7-11	39674	15.4	7.5	12.0			100
15-7-12	39508	15.7	7.8	12.6			103
TEATER & CASSITY FARM SER.		NICHOLASVILLE KY			XS	CL	RV
GRADE	NUM	N	APA	POT			
34-0-0	39808	35.0	0.0	0.0			101
TEATER BROS & ELLICTT		DANVILLE KY			XS	CL	RV
GRADE	NUM	N	APA	POT			
0-20-20	38733	0.0	16.0*	20.3			87*
0-20-20	39430	0.0	20.9	18.1*			100
0-20-20	39654	0.0	19.1	18.1*			94*
4-16-4	38279	4.6	14.4*	4.8			97*
4-16-4	38352	4.4	15.1*	4.4			99
4-16-4	38371	4.3	16.8	4.6			106
5-10-15	38037	5.3	10.0	12.6*			96*
5-10-15	38132	5.3	9.8	13.9*			98
5-10-15	38133	4.9	8.9*	12.8*			89*
5-10-15	38488	7.8	10.8	9.9*			105
5-10-15	38489	6.8	11.6	11.7*			108
5-10-15	38490	7.5	9.2*	12.8*			103
5-10-15	38491	5.0	9.2*	9.0*			83*
5-10-15	38729	5.9	11.3	13.0*			105
5-10-15	38781	5.0	9.3	15.0			97*
5-10-15	38964	8.3	14.4	10.0*			123
5-10-15	39052	6.0	11.2	13.9*			107
5-10-15	39100	8.3	11.0	11.7*			112
5-10-15	39101	8.2	10.5	11.5*			108
5-10-15	39427	7.3	13.1	9.6*			112
5-10-15	39441	5.8	10.6	13.1*			102
5-10-15	39501	4.2*	7.6*	18.8			94*
5-10-15	39504	5.0	10.5	13.8*			99
5-10-15	39506	9.7	17.9	14.8			155
5-10-15	39540	7.6	10.3	12.6*			107
5-10-15	39656	5.2	8.7*	11.2*			86*
5-10-15	39663	5.0	9.2*	14.8			96*
5-10-15	39934	6.4	11.4	14.4			111
5-10-15	39943	6.7	12.5	16.6			122
5-10-15	40127	5.5	11.3	14.8			107
5-10-15	39935	4.0*	8.4*	13.9*			86*
5-20-20	38492	7.0	24.5	14.9*			111
5-20-20	39655	4.0*	19.6	12.6*			86*
5-20-20	40362	5.7	23.2	19.8			111
6-6-18	38485	7.6	7.8	13.2*			105

TABLE 1. (Continued)

TEATER BROS & ELLIOTT		CANVILLE			KY		XS CL	RV
GRADE	NUM	N	APA	POT				
6-12-12	38727	7.5	15.1	11.8			119	
6-12-12	39051	7.4	13.6	10.7*			110	
10- 6- 4	38036	10.2	6.6	6.0			110	
10-10-10	37877	8.6*	8.7*	9.9	*		89*	
10-10-10	38280	7.9*	8.5*	9.0*			83*	
10-10-10	38370	10.1	13.3	8.5*			111	
10-10-10	38373	9.8	10.3	13.1			106	
10-10-10	38459	9.9	8.9*	11.4			98	
10-10-10	38486	11.3	10.9	8.7*			106	
10-10-10	38487	9.3*	13.3	7.1*			104	
10-10-10	38715	9.4	9.0*	10.6			95*	
10-10-10	38716	9.4	10.8	10.7			102	
10-10-10	38728	10.4	12.1	7.7*			105	
10-10-10	38782	9.4	9.6	9.8			95*	
10-10-10	38907	10.3	12.1	11.6			113	
10-10-10	39049	10.0	12.2	12.1			113	
10-10-10	39099	9.2*	9.8	10.3			96*	
10-10-10	39102	6.9*	7.9*	10.3			80*	
10-10-10	39103	10.0	10.9	7.7*			99	
10-10-10	39428	10.5	9.3	11.0			101	
10-10-10	39442	9.1*	10.5	9.9			98	
10-10-10	39500	7.5*	11.0	16.3			106	
10-10-10	39503	9.0*	9.9	8.2*			92*	
10-10-10	39600	9.9	9.8	10.6			100	
10-10-10	39659	9.0*	9.4	9.8			93*	
10-10-10	39662	9.0*	10.7	10.6			100	
10-10-10	40128	10.1	10.5	17.3			117	
10-10-10	40191	10.9	11.7	11.1			112	
10-10-10	39936	9.0*	9.6	9.0*			93*	
10-10-10	39937	8.5*	9.8	9.0*			91*	
15-15-15	39429	15.8	20.7	11.8*			113	
TOBACCO STATES CHEMICAL CO.		LEXINGTON			KY		XS CL	RV
GRADE	NUM	N	APA	POT				
7-14- 7	37888	6.1*	15.1	6.3*			99	
7-14- 7	39554	7.6	15.4	7.0			108	
TOMPKINSVILLE FERTILIZER CO.		TOMPKINSVILLE			KY		XS CL	RV
GRADE	NUM	N	APA	POT				
5-20-19	40249	7.1	24.0	19.7			117	
9- 9-12	38053	9.6	10.1	11.3*			99	
14-13-13	39020	14.3	16.3	13.2			108	
UNION FERTILIZER		MORGANFIELD			KY		XS CL	RV
GRADE	NUM	N	APA	POT				
0-20-33	38925	0.0	23.2	31.6*			105	
0-21-31	38922	0.0	20.7*	34.1			100	
0-22-30	38203	0.0	21.9	31.8			100	
0-23-29	38030	0.0	24.9	28.2			102	
0-23-30	38151	0.0	21.7*	32.4			100	
9-23-29	39732	10.5	27.1	23.8*			105	
USS AGRI-CHEMICAL		ADAIRVILLE			KY		XS CL	RV
GRADE	NUM	N	APA	POT				
25-23- 0	38757	25.3	24.7	0.0			102	
USS FARM SERVICE CENTER		CAMPBELLSVILLE			KY		XS CL	RV
GRADE	NUM	N	APA	POT				
13-24-22	38983	13.8	21.1*	22.0			94*	
17-17-17	39467	18.5	15.0*	18.6			96*	

TABLE 1. (Continued)

USS AGRI-CHEMICALS GRADE	NUM	FRANKLIN KY			XS CL	RV
		N	APA	POT		
5-13-13	38224	6.1	12.9	17.2		131
6-26-26	38751	5.5*	24.7*	29.8		99
USS AGRI-CHEMICALS GRADE	NUM	GUTHRIE KY			XS CL	RV
		N	APA	POT		
12-9-14	4C093	10.6*	9.8	14.1		97*
USS AGRI-CHEMICALS GRADE	NUM	HARDINBURG KY			XS CL	RV
		N	APA	POT		
4-16-17	38173	5.1	16.4	21.7		111
13-13-13	39065	16.0	11.9*	12.4*		98
USS AGRI-CHEMICALS GRADE	NUM	JEFFERSONVILLIN			XS CL	RV
		N	APA	POT		
0-44-0	37930	0.0	44.9	0.0		102
5-10-5	37925	5.8	10.2	5.9		108
5-10-5	38430	5.2	9.6	5.9		101
5-10-5	38460	5.6	10.2	7.0		110
5-10-5	38666	5.6	9.5	6.4		104
5-10-5	38689	5.6	9.3	6.5		104
5-10-5	38978	5.9	9.5	5.1		103
5-10-5	38996	5.1	12.2	8.5		123
5-10-5	40339	6.3	10.5	7.3		117
5-10-15	37921	5.1	8.8*	14.2		94*
5-10-15	38011	5.2	10.0	14.8		100
5-10-15	38240	5.6	10.5	15.0		105
5-10-15	38272	5.3	9.9	15.9	*	103
5-10-15	38305	5.4	10.3	14.8		103
5-10-15	38331	4.9	10.2	16.0		103
5-10-15	38379	5.3	10.7	14.8		104
5-10-15	38423	4.7	10.5	15.5		102
5-10-15	38456	5.6	9.9	14.9		102
5-10-15	38499	5.7	10.0	15.5		104
5-10-15	38525	5.3	9.9	14.9		100
5-10-15	38541	4.8	10.0	15.6		100
5-10-15	38542	4.7	9.7	16.3		100
5-10-15	38543	5.5	10.0	14.9		102
5-10-15	38549	5.6	9.7	15.9		103
5-10-15	38609	5.7	10.5	15.2		105
5-10-15	38610	5.8	10.4	15.8		107
5-10-15	38625	5.3	10.0	14.8		101
5-10-15	38662	5.3	9.8	13.9*		98
5-10-15	38688	4.5	10.0	15.8		100
5-10-15	38774	5.5	10.2	14.7		103
5-10-15	38775	5.9	10.4	14.9		106
5-10-15	38779	5.4	9.7	15.0		100
5-10-15	38854	5.0	10.6	14.8		102
5-10-15	38871	5.8	9.8	14.8		102
5-10-15	38884	5.0	9.8	15.1		99
5-10-15	38948	5.8	10.0	14.8		103
5-10-15	38992	5.3	10.4	15.2		103
5-10-15	39061	6.3	9.7	13.8*		102
5-10-15	39071	5.3	10.9	15.0	*	105
5-10-15	39072	5.6	9.8	16.0		104
5-10-15	39136	5.2	9.9	16.0		103
5-10-15	39177	5.0	9.8	14.8		98
5-10-15	39231	5.0	10.4	14.8		101
5-10-15	39266	5.3	9.6	16.0		102
5-10-15	39330	5.5	10.1	15.1		103
5-10-15	39397	5.6	9.1*	16.0		101

TABLE 1. (Continued)

USS	AGPI-CHEMICALS GRADE	NUM	JEFFERSONVILLIN			XS CL	RV
			N	APA	PCT		
5-10-15	39651	5.2	9.9	15.5		101	
5-10-15	39688	4.9	10.5	15.2		102	
5-10-15	39710	5.4	10.2	14.8		102	
5-10-15	39799	5.7	9.9	14.8		102	
5-10-15	39803	5.8	10.0	14.8		103	
5-10-15	39806	5.4	10.0	14.8		101	
5-10-15	39912	6.0	9.1*	16.9	*	104	
5-10-15	39933	5.4	10.5	14.8		103	
5-10-15	40111	5.5	9.6	16.3		103	
5-10-15	40112	5.8	10.2	14.8		104	
5-10-15	40138	5.5	9.8	15.6		103	
5-10-15	40146	5.8	10.2	14.8		104	
5-10-15	40230	6.6	10.2	14.8	*	108	
5-10-15	40347	5.3	10.1	15.4		103	
5-10-15	40358	4.9	10.7	15.4		103	
5-10-15	40370	5.4	10.0	15.5		103	
5-10-15	40382	5.3	10.2	15.9		104	
5-10-15	39053	5.2	10.0	16.5		104	
5-10-15	39067	5.1	10.0	17.0		105	
5-10-15	39466	5.4	10.1	15.5		104	
5-10-30	38936	5.9	10.8	29.9		105	
5-10-30	39542	5.7	11.0	30.0		105	
5-20-20	37984	6.4	19.1	17.3*		98	
5-20-20	38010	5.9	18.8*	19.0		98	
5-20-20	38306	5.3	20.9	19.3		103	
5-20-20	38381	5.8	20.2	19.1		101	
5-20-20	38452	5.8	21.4	20.8		107	
5-20-20	38455	6.0	9.9*	14.1*		66*	
5-20-20	38497	5.9	21.2	21.3		108	
5-20-20	38524	5.2	19.4	20.9		100	
5-20-20	38526	5.0	21.6	18.9*		103	
5-20-20	38544	5.5	21.1	19.8		104	
5-20-20	38611	6.1	20.0	17.9*		100	
5-20-20	38982	5.2	18.9*	20.4		98	
5-20-20	39062	5.9	18.7*	18.2*		96*	
5-20-20	39111	5.6	21.2	17.9*		102	
5-20-20	39721	5.8	20.5	16.7*		99	
5-20-20	39764	6.0	18.4*	19.1		97*	
5-20-20	39932	5.2	20.5	20.8		103	
5-20-20	40139	5.3	19.4	22.8		103	
5-20-20	40276	6.2	19.3	19.9		101	
5-20-20	40364	4.9	20.3	20.3		101	
5-20-20	40367	5.7	21.7	20.1		107	
5-20-20	38882	6.2	18.7*	20.8		101	
5-20-20	39068	6.3	19.1	16.7*		96*	
6-12-12	37983	6.4	12.0	12.1		102	
6-12-12	38384	6.8	12.2	14.5		109	
6-12-12	38554	5.5	12.0	12.8		100	
6-12-12	39601	6.4	12.8	12.7		106	
6-24-24	37872	5.9	23.0	24.5		98	
6-24-24	38216	6.0	20.8*	26.2		95*	
6-24-24	39239	6.0	23.1	24.1		98	
6-24-24	39265	6.8	24.3	24.0		102	
6-24-24	40143	6.1	23.1	24.9		99	
6-24-24	40275	5.8	23.2	24.1		98	
7-28-28	38315	7.1	24.2*	31.9		96*	
7-28-28	38563	8.2	29.5	25.9*		103	

TABLE 1. (Continued)

USS AGRICHEMICALS	JEFFERSONVILLIN					
GRADE	NUM	N	APA	POT	XS CL	RV
7-28-28	38935	7.3	26.2*	30.2		99
7-28-28	39543	7.4	27.4	27.9		99
7-28-28	39728	8.4	29.7	25.2*		103
7-28-28	40246	8.0	26.8	28.6		100
7-28-28	38237	7.7	26.8	29.8		100
7-28-28	39025	8.0	28.3	27.3		102
7-28-28	39577	7.7	28.7	26.6*		101
8- 8- 8	37916	8.6	8.7	8.0		106
10- 6- 4	38995	10.5	8.0	6.6		121
10-10-10	38788	10.0	9.6	9.1*		97*
10-10-10	37873	9.7	10.0	10.9		101
10-10-10	38059	10.5	11.0	9.8		105
10-10-10	38084	10.6	10.7	10.5		106
10-10-10	38217	10.2	11.0	13.2		111
10-10-10	38332	9.7	10.8	10.6		103
10-10-10	38380	10.2	11.9	11.3		111
10-10-10	38422	10.3	11.6	11.8		111
10-10-10	38431	9.4	11.4	10.1		103
10-10-10	38436	9.7	8.9*	10.2		95*
10-10-10	38457	9.9	11.5	11.6		109
10-10-10	38484	9.4	10.5	10.8		101
10-10-10	38523	10.0	9.4	9.3*		96*
10-10-10	38545	9.7	11.4	10.1		105
10-10-10	38550	9.4	9.3*	10.6		96*
10-10-10	38626	9.7	9.9	11.9		102
10-10-10	38634	9.9	10.4	11.6		104
10-10-10	38780	10.0	9.8	9.8		99
10-10-10	38855	9.7	9.4	10.9		98
10-10-10	38872	7.7*	13.9	15.7		118
10-10-10	38883	10.0	8.4*	11.7		97*
10-10-10	38977	8.8*	9.7	11.9		98
10-10-10	36981	10.3	11.1	10.0		105
10-10-10	39015	10.0	10.1	10.3		101
10-10-10	39179	10.3	10.0	9.9		101
10-10-10	39229	9.9	9.9	10.4		100
10-10-10	39270	9.4	10.3	9.8		98
10-10-10	39288	9.6	9.6	11.9		100
10-10-10	39305	9.5	8.8*	7.9*		89*
10-10-10	39581	10.2	10.9	10.8		106
10-10-10	39649	9.7	9.6	10.2		97*
10-10-10	39689	9.8	9.5	10.2		97*
10-10-10	39765	10.2	10.3	11.6		105
10-10-10	39767	10.3	9.9	9.9		100
10-10-10	39800	9.5	14.1	10.1		115
10-10-10	39967	10.4	10.2	9.8		102
10-10-10	40110	10.4	10.5	10.1		104
10-10-10	40145	10.1	10.1	9.8		100
10-10-10	40365	10.4	10.9	9.9		105
10-10-10	40369	10.3	10.2	10.0		102
10-10-10	40404	10.6	10.1	11.6		106
10-10-10	38881	10.0	10.0	9.9		100
10-10-20	38665	9.8	10.1	19.8		99
10-10-20	39178	8.4*	10.6	19.8		96*
10-10-20	39709	9.9	9.9	20.0		99
10-10-20	40262	9.9	10.0	19.7		99
10-10-20	40263	9.5	9.1*	22.4		99
10-10-20	39054	9.6	9.5	20.4		98

TABLE 1. (Continued)

USS AGRICHEMICALS		JEFFERSONVILLIN				
GRADE	NUM	N	APA	POT	XS CL	RV
12- 4- 8	38994	13.9	4.2	8.6		112
12- 4- 8	40329	12.1	4.3	8.7		103
13-13-13	38420	9.0*	21.4	11.2*		111
13-13-13	38997	13.0	12.5	12.4		98
13-13-13	39329	13.2	11.7*	12.2*		96*
13-13-13	40142	13.2	13.1	13.0		101
14-14-14	39727	15.5	13.9	15.0		105
18-46- 0	37929	18.8	45.7	0.0		101
19- 5- 9	40327	18.4	5.2	9.5		99
25- 5-10	40328	24.0	8.0	11.0		107
28- 0- 0	38218	28.0	0.0	0.0		100
28- 0- 0	39066	27.3	0.0	0.0		97
28- 0- 0	39281	27.5	0.0	0.0		98
28- 0- 0	39282	27.6	0.0	0.0		96
33- 0- 0	38040	34.4	0.0	0.0		103
33- 0- 0	38099	34.0	0.0	0.0		101
33- 0- 0	38183	34.5	0.0	0.0		103
33- 0- 0	38184	34.7	0.0	0.0		103
33- 0- 0	38244	33.9	0.0	0.0		101
33- 0- 0	38271	34.4	0.0	0.0		103
33- 0- 0	39002	34.0	0.0	0.0		101
33- 0- 0	39046	34.1	0.0	0.0		102
33- 0- 0	39664	33.9	0.0	0.0		101
USS AGRICHEMICALS		NASHVILLE TN				
GRADE	NUM	N	APA	POT	XS CL	RV
0- 0-50	38437	0.0	0.0	50.2		100
0- 0-62	37971	0.0	0.0	61.1		99
0- 0-62	38007	0.0	0.0	61.3		99
0- 0-62	38221	0.0	0.0	61.6		99
0-44- 0	37960	0.0	43.9	0.0		100
0-44- 0	38006	0.0	45.1	0.0		102
0-46- 0	39024	0.0	45.0	0.0		98
5-10- 5	37878	5.0	9.9	4.8		99
5-10- 5	38162	6.0	10.0	6.7		110
5-10- 5	39041	4.6	11.1	6.0		107
5-10-15	38294	5.3	10.2	14.8		101
5-10-15	38359	5.0	9.6	16.5		102
5-10-15	38570	5.0	10.4	14.8		101
5-10-15	38768	5.0	10.3	14.8		101
5-10-15	38889	5.1	9.9	14.9		100
5-10-15	38942	5.1	10.7	15.6		105
5-10-15	39346	5.5	10.4	14.8		104
5-10-15	39596	5.3	10.3	14.8		102
5-10-15	39627	5.4	10.3	16.0		105
5-10-15	39701	5.3	10.0	15.1		101
5-10-15	40108	5.3	10.4	13.3*		99
5-10-15	40109	5.3	10.2	13.9*		99
5-20-20	37871	5.2	20.0	19.7		100
5-20-20	38103	5.4	20.4	19.0		101
5-20-20	38252	5.1	21.7	21.0		106
5-20-20	38257	5.1	20.5	19.0		100
5-20-20	38287	5.6	20.6	19.8		103
5-20-20	38677	5.4	19.8	20.0		100
5-20-20	38678	5.1	19.8	20.2		100
5-20-20	38679	5.1	20.9	19.8		103
5-20-20	39153	5.2	20.5	19.8		102
5-20-20	40303	5.0	19.2	19.8		97*

TABLE 1. (Continued)

USS	AGRI-CHEMICALS GRADE	NUM	NASHVILLE		TN	XS CL	RV
			N	APA	POT		
	5-20-20	40311	5.8	19.7	20.0		101
	5-20-20	38052	5.9	20.1	18.6*		101
	5-20-20	38178	5.5	21.3	19.2		104
	5-20-20	39204	4.6	18.9*	21.1		97*
	6-12-12	37870	6.0	12.0	12.2		101
	6-12-12	38176	5.9	12.2	13.5		103
	6-12-12	38197	6.1	12.0	12.1		100
	6-12-12	38683	6.2	12.3	12.4		103
	6-12-12	38894	6.2	12.3	13.0		104
	6-12-12	38943	6.3	12.6	12.9		105
	6-12-12	39590	6.0	11.7	12.3		99
	6-12-18	38288	6.2	12.4	17.4		101
	6-12-18	38293	5.9	12.4	17.8		101
	6-12-18	38333	6.2	12.6	17.2		101
	6-12-18	38441	6.1	11.9	18.5		101
	6-12-18	38761	5.9	12.0	17.9		99
	6-12-18	39038	6.2	12.7	17.9		103
	6-12-18	39040	6.2	12.0	18.3		101
	6-12-18	39342	6.3	12.5	17.8		103
	6-12-18	39444	6.8	12.1	17.8		103
	6-12-18	39449	5.9	12.0	17.5		98
	6-12-18	40302	5.9	11.8	17.9		98
	7-28-28	37867	8.3	31.2	23.7*		105
	7-28-28	38001	8.1	31.6	23.4*		105
	7-28-28	38054	8.9	30.3	24.1*		105
	7-28-28	38104	8.0	29.8	24.4*		102
	7-28-28	38225	7.0	25.2*	30.0		96*
	7-28-28	38557	8.1	28.8	27.8		104
	7-28-28	39216	7.0	27.5	28.4		99
	7-28-28	39341	7.7	27.8	28.2		101
	7-28-28	39446	7.6	27.8	28.4		101
	7-28-28	39447	8.0	28.9	27.8		103
	7-28-28	37970	7.8	28.5	26.9		101
	7-28-28	37978	8.1	29.2	26.1*		103
	7-28-28	37992	7.2	26.0*	30.2		98
	7-28-28	38009	8.0	29.4	25.7*		102
	7-28-28	38108	7.8	27.3	27.7		100
	7-28-28	38147	7.6	26.8	29.0		100
	7-28-28	38676	8.1	29.1	26.3*		103
	7-28-28	39589	8.1	28.4	26.7*		102
	8-24-24	39450	8.3	22.5*	22.7*		96*
	8-32-16	38440	9.2	33.4	17.0		106
	8-32-16	38756	8.5	31.1	15.9		99
	8-32-16	40377	10.1	34.9	13.9*		108
	8-32-16	38256	8.3	32.0	15.7		101
	10-10-10	37991	10.1	10.9	10.9		106
	10-10-10	38000	10.0	10.3	10.2		101
	10-10-10	38048	9.9	11.2	10.8		106
	10-10-10	38105	10.6	10.9	9.0*		104
	10-10-10	38196	10.1	10.1	10.0		101
	10-10-10	38866	10.3	9.9	10.5		102
	10-10-10	38888	10.4	10.3	10.2		103
	10-10-10	38902	10.2	10.2	10.4		102
	10-10-10	38941	10.3	10.9	9.8		104
	10-10-10	39019	10.1	10.2	10.8		103
	10-10-10	39252	10.3	8.6*	10.3		96*
	10-10-10	39445	10.5	9.5	10.8		102

TABLE 1. (Continued)

USS AGRI-CHEMICALS		NASHVILLE		TN		XS CL	RV
GRADE	NUM	N	APA	POT			
10-10-10	39626	9.4	10.8	10.9			102
10-10-10	39628	10.0	10.4	10.6			103
10-55-10	39700	10.5	56.5	10.9			103
12- 4- 8	37882	11.1*	5.1	8.0			101
14-14-14	37868	14.8	15.7	13.7			107
14-14-14	37999	14.3	15.3	13.6			104
14-14-14	38042	15.0	16.0	13.6			108
14-14-14	38295	15.0	15.2	12.7*			104
14-14-14	38438	14.9	14.0	13.2*			101
14-14-14	38566	13.4	14.3	16.8			103
14-14-14	38806	15.1	15.0	13.0*			104
14-14-14	38890	15.6	15.7	12.3*			107
14-14-14	38891	14.0	13.8	15.7			102
14-14-14	38895	14.3	14.2	15.1			103
14-14-14	38906	15.0	14.9	14.5			106
14-14-14	39588	14.7	16.3	14.3			109
14-14-14	40220	14.2	15.4	14.3			105
14-14-14	40305	14.6	15.4	13.3			105
15-40- 5	38318	15.8	42.0	3.3*			103
15-40- 5	38439	14.9	40.4	6.7			102
15-40- 5	38755	15.3	41.4	5.7			104
15-40- 5	39215	15.3	41.6	5.4			104
18-46- 0	37963	17.6	45.9	0.0			99
18-46- 0	37972	17.6	46.0	0.0			99
18-46- 0	37977	17.9	45.5	0.0			99
18-46- 0	38739	18.0	45.8	0.0			100
18-46- 0	39023	18.3	46.4	0.0			101
32- 0- 0	37951	32.2	0.0	0.0			101
33- 0- 0	38392	34.7	0.0	0.0			103
82- 0- 0	38005	81.9	0.0	0.0			100
82- 0- 0	39825	82.0	0.0	0.0			100
82- 0- 0	39827	82.1	0.0	0.0			100
USS FARM SERVICE CENTER		UTICA		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
0-22-31	38014	0.0	20.6*	33.1			99
0-22-31	38236	0.0	25.4	28.2*			105
0-22-31	39896	0.0	20.5*	35.2			101
0-23-31	39575	0.0	22.1	31.5			98
7-18-37	39576	6.2*	16.6*	39.2			96*
9-23-31	39574	8.5	21.7*	33.4			99
THE VANCE CO.		CHILHOWIE		VA		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-10	39314	5.3	11.2	11.0			110
5-10-15	39900	5.5	10.7	13.3*			102
5-10-15	39901	5.5	10.5	14.9			104
5-10-15	39902	4.9	9.5	15.5			98
5-10-15	39903	5.6	10.1	14.8			103
THE VANCE CO.		EWING		VA		XS CL	RV
GRADE	NUM	N	APA	POT			
5-10-10	38912	6.1	9.9	10.8			107
5-10-10	40141	5.6	11.0	9.0*			105
VOLUNTARY PURCHASING GROUPS		BONHAM		TX		XS CL	RV
GRADE	NUM	N	APA	POT			
12-41- 8	37893	12.4	45.2	10.9			111
WAPNER FERTILIZER CO		COLUMBIA		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
4-18-18	39381	5.1	19.7	20.3			108

TABLE 1. (Continued)

WARNER FERTILIZER CO		COLUMBIA		KY		XS CL	RV
GRADE	NUM	N	APA	POT			
4-20-20	39154	5.2	20.0	20.0			100
5-20-20	39155	5.4	20.7	20.0			103
8- 8-12	39920	10.4	9.1	12.5			108
10-10-10	39382	10.2	9.6	11.5			102
10-10-10	39432	10.1	11.1	11.6			107
WARNER FERTILIZER CO		SOMERSET		KY		XS CL	RV
GRADE	NUM	N	APA	PCT			
0- 0-60	39481	0.0	0.0	61.6			103
0- 0-60	39482	0.0	0.0	60.6			101
0-20-20	38312	0.0	21.2	19.7			103
0-20-20	39130	0.0	20.5	21.5			104
4-19-19	38045	4.9	18.7	21.9			101
4-19-19	38825	5.2	20.0	18.9			103
5-10-15	38335	5.3	10.2	14.7			102
5-10-15	38354	4.9	10.0	15.5			101
5-10-15	38793	6.0	10.5	14.8			106
5-10-15	39016	4.9	10.0	16.0			102
5-10-15	39167	8.5	14.4	9.3*			122
5-10-15	40153	5.8	11.3	14.9			109
5-10-15	40193	5.4	10.3	14.1*			101
5-10-15	40216	8.1	11.0	8.6*			104
5-20-20	38170	6.2	22.8	16.0*			106
5-20-20	38311	5.3	20.4	19.8			102
5-20-20	38334	5.8	22.2	18.3*			106
5-20-20	38353	5.7	21.5	18.6*			104
5-20-20	38637	5.8	21.8	18.9*			106
5-20-20	38794	5.6	21.7	18.1*			104
5-20-20	39479	4.7	18.5*	20.7			96*
5-20-20	39480	4.9	19.4	22.9			102
5-20-20	39478	4.5*	18.9*	20.9			96*
6-12-12	38193	6.5	11.8	11.8			101
6-12-12	38824	6.5	12.7	11.3			104
6-12-12	38965	7.9	15.6	16.3			132
6-12-12	39602	5.8	11.5	13.4			100
6-12-18	38638	6.9	12.7	17.8			106
8-12-16	38290	9.0	12.8	15.8			106
10-10-10	38171	10.5	12.4	10.2		*	112
10-10-10	38194	10.9	10.5	10.7		*	107
10-10-10	38230	10.8	10.8	10.9		*	108
10-10-10	38636	11.9	10.6	9.2*			108
10-10-10	38706	10.6	10.6	9.9			105
10-10-10	38966	11.0	10.8	8.7*			105
10-10-10	39166	11.0	11.8	10.0			111
10-10-10	39433	9.7	10.3	10.5			101
10-10-10	39968	7.2*	8.1*	11.5			84*
10-10-10	40147	10.9	10.1	10.5			105
10-10-10	40154	10.6	10.1	9.9			102
10-10-10	40210	10.8	10.3	12.0			108
10-10-10	40388	13.0	13.7	9.8			126
10-10-10	38823	9.9	13.4	10.2			114
10-10-10	39477	5.8*	8.2*	12.6			85*
10-20-20	38097	10.6	21.5	17.8*			102
15-15-15	38795	15.9	14.9	13.8*			101
19-19-19	39851	21.9	19.5	14.8*			103
28- 0- 0	39852	27.2	0.0	0.0			97

TABLE 1. (Continued)

WARNER FERTILIZER CO		RUSSELL SPRNGKY			XS CL	RV
GRADE	NUM	N	APA	POT		
0-19-19	39377	0.0	19.9	20.0		104
5-20-20	38796	5.8	16.7*	22.0		96*
5-20-20	39003	4.5	16.8*	23.2		94*
5-20-20	39860	5.9	23.5	21.9		115
10-10-10	39855	12.9	9.7	11.1		113
10-10-10	39856	11.4	10.1	12.6		111
10-10-10	39859	11.0	12.2	8.9*		111
10-10-10	39861	12.4	10.6	11.7		115
15-15-15	38797	14.7	14.8	17.0		101
15-15-15	39375	11.9*	15.9	17.0		97*
15-15-15	39376	12.8*	14.7	17.4		96*
17-13-13	39858	22.0	11.0*	12.6*		102
28- 0- 0	39857	27.7	0.0	0.0		99
42- 0- 0	38798	44.5	0.0	0.0		105
WARSAW CHEMICAL CO., INC.		WARSAW			XS CL	RV
GRADE	NUM	N	APA	POT		
10-52- 8	39835	10.7	53.4	6.7*		102
N B WHEELER & SON		SEDALIA			XS CL	RV
GRADE	NUM	N	APA	POT		
18-11-20	39794	18.3	9.4*	22.8		97*
21-11-15	39795	21.0	10.1*	16.8		98
MR. WIGGS		CLEVELAND			XS CL	RV
GRADE	NUM	N	APA	POT		
10-10-10	39280	10.2	10.2	10.8		103
WOODFORD FEED CO., INC.		VERSAILLES			XS CL	RV
GRADE	NUM	N	APA	POT		
9- 8-12	40000	7.8*	8.8	14.0		98
10- 7-11	39999	9.0*	8.4	13.5		98
10- 8-12	39976	11.4	8.5	12.3		106
14- 6-10	39974	13.1*	8.2	11.9		105
14- 8-16	39998	14.2	8.4	17.7		102
17- 0-23	39973	16.1*	0.0	26.6		100
21- 0-18	39975	19.9*	0.0	20.7		100
21- 5- 5	38858	21.7	6.3	5.3		103
24- 0-15	39608	24.0	0.0	17.3		101

TABLE 2. AVERAGE ANALYSIS (AA), OVERALL PERCENT OF GUARANTEE ACHIEVED (% OF GUAR.), AND COEFFICIENTS OF VARIATION (CV) OF OFFICIAL FERTILIZER SAMPLES OF CERTAIN GRADES AND COMPANIES.

GRADE	NUMBER SAMPLES	ANALYTICAL AND STATISTICAL FINDINGS					
		N		P ₂ O ₅		K ₂ O	
		AA	CV	AA	CV	AA	CV
AG/GRO FERTILIZER COMPANY Winchester, KY							
5-10-15	9	5.2	5.4	10.2	9.6	15.3	4.2
ALL GRADES, % OF GUAR.		102.0		99.7		104.9	
CV, %		6.3		8.2		6.5	
NUMBER OF ANALYSES		19		19		19	
AGRICO CHEMICAL COMPANY Tulsa, OK							
-----	--	--	--	--	--	--	--
ALL GRADES, % OF GUAR.		100.1		98.9		99.8	
CV, %		2.1		1.7		0.7	
NUMBER OF ANALYSES		7		3		3	
Cecilia, KY							
5-10-15	5	5.3	6.5	10.3	9.7	14.9	6.3
10-10-10	7	10.4	9.7	10.0	13.6	10.3	13.2
ALL GRADES, % OF GUAR.		106.8		101.6		102.4	
CV, %		11.7		10.3		13.8	
NUMBER OF ANALYSES		25		25		24	
Henderson, KY							
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ALL GRADES, % OF GUAR.		100.5		101.6		103.7	
CV, %		9.2		9.5		16.0	
NUMBER OF ANALYSES		11		10		8	
Morganfield, KY							
-----	--	--	--	--	--	--	--
ALL GRADES, % OF GUAR.		100.3		105.1		105.1	
CV, %		6.7		21.4		11.9	
NUMBER OF ANALYSES		6		11		11	
Owensboro, KY							
-----	--	--	--	--	--	--	--
ALL GRADES, % OF GUAR.		103.5		107.2		99.2	
CV, %		21.5		11.2		18.1	
NUMBER OF ANALYSES		7		10		10	
AMERICAN CYANAMID COMPANY Princeton, NJ							
34- 0- 0	5	34.3	0.8	--	--	--	--
ALL GRADES, % OF GUAR.		101.4		101.3		--	
CV, %		1.6		--		--	
NUMBER OF ANALYSES		6		1		--	

TABLE 2. Continued

GRADE	NUMBER SAMPLES	ANALYTICAL AND STATISTICAL FINDINGS					
		N		P ₂ O ₅		K ₂ O	
		AA	CV	AA	CV	AA	CV
BARREN RIVER FERTILIZER COMPANY Glasgow, KY							
5-10-15	14	5.6	15.7	10.0	15.5	15.1	23.6
10-10-10	12	10.4	10.9	10.9	15.3	9.7	21.6
12-24-24	5	13.8	12.2	24.9	13.2	20.7	20.6
ALL GRADES, % OF GUAR.		108.4		101.4		97.5	
CV, %		14.9		16.1		20.9	
NUMBER OF ANALYSES		45		44		44	
BURLEY BELT CHEMICAL COMPANY Lexington, KY							
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ALL GRADES, % OF GUAR.		104.3		102.7		100.2	
CV, %		12.1		8.1		13.1	
NUMBER OF ANALYSES		17		15		18	
London, KY							
4-16- 4	6	4.4	6.8	15.4	3.0	4.3	7.3
5-10-15	47	5.3	8.1	10.3	2.9	15.2	3.6
5-20-20	16	5.6	18.8	18.4	10.3	18.7	13.0
6-12-12	14	5.9	13.7	11.7	9.1	12.2	8.0
10-10-10	48	9.8	5.6	10.4	4.3	10.2	6.3
10-10-15	5	9.3	2.4	9.9	3.4	14.9	2.6
12-12-12	8	11.8	6.7	12.0	5.7	12.2	8.6
ALL GRADES, % OF GUAR.		102.5		101.5		100.6	
CV, %		10.8		7.0		7.3	
NUMBER OF ANALYSES		171		171		165	
Ferguson, KY							
5-10-15	5	5.0	1.7	10.4	2.2	14.8	2.4
5-20-20	8	5.4	6.7	20.0	9.9	17.9	12.5
10-10-10	5	9.7	4.6	10.1	2.3	10.3	4.4
ALL GRADES, % OF GUAR.		104.6		102.0		99.3	
CV, %		12.6		6.4		14.6	
NUMBER OF ANALYSES		24		25		26	
CAUDILL SEED COMPANY Shelbyville, KY							
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ALL GRADES, % OF GUAR.		108.3		92.3		107.8	
CV, %		34.4		12.6		6.1	
NUMBER OF ANALYSES		8		9		10	

TABLE 2. Continued

GRADE	NUMBER SAMPLES	ANALYTICAL AND STATISTICAL FINDINGS					
		N		P ₂ O ₅		K ₂ O	
		AA	CV	AA	CV	AA	CV
CHRISTIAN CO. SUPPLY COMPANY Hopkinsville, KY							
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ALL GRADES, % OF GUAR.		118.8		110.8		101.0	
CV, %		24.9		14.6		23.2	
NUMBER OF ANALYSES		8		10		9	
CIRCLE O FARM CENTER Sturgis, KY							
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ALL GRADES, % OF GUAR.		98.5		113.6		98.2	
CV, %		8.6		50.1		12.4	
NUMBER OF ANALYSES		10		10		6	
FARMERS CHEMICAL COMPANY Harrison, TN							
28- 0- 0	8	28.1	1.9	--	--	--	--
34- 0- 0	7	34.5	0.9	--	--	--	--
ALL GRADES, % OF GUAR.		100.9		--		--	
CV, %		1.5		--		--	
NUMBER OF ANALYSES		15		--		--	
FARMLAND INDUSTRIES Kansas City, MO							
6-24-24	7	6.3	1.1	24.0	0.8	24.1	1.4
ALL GRADES, % OF GUAR.		104.3		100.2		101.5	
CV, %		2.1		1.2		3.6	
NUMBER OF ANALYSES		9		8		8	
FEDERAL CHEMICAL COMPANY Louisville, KY							
4-16-4	7	6.1	25.9	16.1	6.7	5.9	15.8
5-10-15	24	5.4	16.1	10.3	9.4	15.1	4.0
5-20-20	20	5.4	12.2	19.4	7.1	20.5	6.2
6-12-12	9	6.2	6.1	12.7	5.7	12.9	3.8
6-24-24	7	6.6	7.7	22.6	7.8	22.7	11.1
9-10-15	6	8.6	5.8	11.0	5.7	14.7	3.1
10-10-10	44	9.8	6.5	10.6	7.1	10.8	7.6
12-12-12	5	12.0	1.4	12.6	2.6	12.0	7.0
13-13-13	8	12.4	3.6	13.7	5.8	13.8	4.4
ALL GRADES, % OF GUAR.		105.0		103.5		106.0	
CV, %		17.0		8.4		12.7	
NUMBER OF ANALYSES		132		133		133	

TABLE 2. Continued

GRADE	NUMBER SAMPLES	ANALYTICAL AND STATISTICAL FINDINGS					
		N		P ₂ O ₅		K ₂ O	
		AA	CV	AA	CV	AA	CV
FRASIER SUPPLY COMPANY Glasgow, KY							
5-10-15	7	3.9	34.5	8.9	18.4	18.2	28.7
5-20-20	6	5.6	20.1	19.2	6.2	20.0	12.8
10-10-10	16	9.4	12.4	9.4	15.0	10.5	13.0
ALL GRADES, % OF GUAR.		94.5		95.1		108.6	
CV, %		18.7		14.5		19.3	
NUMBER OF ANALYSES		45		43		42	
GENE'S AG SUPPLY Sturgis, KY							
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ALL GRADES, % OF GUAR.		103.8		94.6		105.7	
CV, %		4.4		8.7		14.0	
NUMBER OF ANALYSES		10		10		10	
GLASGOW FERTILIZER COMPANY Glasgow, KY							
5-10-15	10	5.7	15.1	10.5	9.3	14.2	17.2
10-10-10	6	10.0	9.8	9.9	2.4	10.8	22.6
ALL GRADES, % OF GUAR.		109.0		104.0		98.0	
CV, %		12.8		8.0		16.8	
NUMBER OF ANALYSES		34		35		33	
W. R. GRACE & COMPANY Hopkinsville, KY							
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ALL GRADES, % OF GUAR.		102.5		101.4		97.3	
CV, %		6.1		23.0		19.5	
NUMBER OF ANALYSES		15		14		12	
Memphis, TN							
5-10-15	18	5.2	6.4	10.7	6.8	15.5	5.4
5-20-20	9	5.4	6.9	19.9	5.6	20.2	6.0
6-24-24	5	6.2	15.4	22.3	9.9	22.4	8.5
10-10-10	21	10.2	5.3	10.5	5.3	10.7	5.3
ALL GRADES, % OF GUAR.		102.6		102.7		102.7	
CV, %		7.7		7.1		7.8	
NUMBER OF ANALYSES		79		73		73	
Nashville, TN							
6-24-24	6	5.8	3.5	22.7	4.9	23.0	4.4
ALL GRADES, % OF GUAR.		99.8		98.9		96.4	
CV, %		4.7		5.6		4.0	
NUMBER OF ANALYSES		13		16		16	

TABLE 2. Continued

GRADE	NUMBER SAMPLES	ANALYTICAL AND STATISTICAL FINDINGS					
		N		P ₂ O ₅		K ₂ O	
		AA	CV	AA	CV	AA	CV
W. R. GRACE & COMPANY (continued) New Albany, IN							
5-20-20	5	5.0	6.5	20.7	2.6	20.1	4.3
ALL GRADES, % OF GUAR.		102.1		101.9		102.7	
CV, %		7.5		3.3		6.1	
NUMBER OF ANALYSES		16		17		16	
GRO-GREEN CHEMICAL COMPANY, INC. Shelbyville, KY							
10-10-10	6	9.5	11.7	10.1	25.6	10.6	8.5
ALL GRADES, % OF GUAR.		109.8		102.6		106.6	
CV, %		23.3		20.8		14.5	
NUMBER OF ANALYSES		31		33		34	
Lebanon, KY							
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ALL GRADES, % OF GUAR.		102.6		101.8		100.3	
CV, %		14.3		23.3		11.1	
NUMBER OF ANALYSES		9		7		7	
HUTSON CHEMICAL COMPANY Murray, KY							
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ALL GRADES, % OF GUAR.		100.1		96.8		108.8	
CV, %		16.5		13.8		7.4	
NUMBER OF ANALYSES		12		13		12	
KENTUCKY FERTILIZER WORKS Winchester, KY							
5-10-15	7	5.0	6.5	9.8	10.2	15.7	5.4
ALL GRADES, % OF GUAR.		101.5		102.0		104.2	
CV, %		10.4		14.7		15.5	
NUMBER OF ANALYSES		22		22		22	
KERR MCGEE CHEMICAL CORP. Oklahoma City, OK							
18-46-0	5	18.2	2.8	46.0	2.9	--	--
ALL GRADES, % OF GUAR.		100.9		100.1		--	
CV, %		2.8		2.9		--	
NUMBER OF ANALYSES		5		5			

TABLE 2. Continued

GRADE	NUMBER SAMPLES	ANALYTICAL AND STATISTICAL FINDINGS					
		N		P ₂ O ₅		K ₂ O	
		AA	CV	AA	CV	AA	CV
MCCAULEY BROS. SEED COMPANY Versailles, KY							
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ALL GRADES, % OF GUAR.		90.3		92.3		112.9	
CV, %		13.9		9.6		11.0	
NUMBER OF ANALYSES		10		5		10	
MILES FARM SUPPLY Owensboro, KY							
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ALL GRADES, % OF GUAR.		103.1		101.8		108.0	
CV, %		7.7		8.1		9.6	
NUMBER OF ANALYSES		9		12		12	
OHIO VALLEY FERTILIZER, INC. Maysville, KY							
5-10-15	10	6.0	21.6	9.7	7.1	14.3	13.5
10-10-10	5	9.8	3.5	10.9	12.7	10.0	5.1
ALL GRADES, % OF GUAR.		113.6		112.3		98.4	
CV, %		19.4		20.4		11.8	
NUMBER OF ANALYSES		23		23		22	
POORES FERT. & CHEMICAL, INC. Albany, KY							
10-10-10	6	9.8	5.1	9.6	4.9	10.8	8.3
10-10-15	6	9.9	4.8	9.9	6.7	16.2	8.9
ALL GRADES, % OF GUAR.		97.9		98.8		110.5	
CV, %		4.3		7.2		12.1	
NUMBER OF ANALYSES		17		16		16	
SMITH-DOUGLASS DIVISION Russellville, KY							
5-10-15	6	6.2	5.7	10.7	6.9	15.0	14.6
5-20-20	8	5.6	25.0	19.8	19.5	19.3	14.3
6-12-12	5	7.1	11.4	15.0	10.1	12.5	9.0
6-24-24	28	6.3	6.7	22.8	5.7	23.7	8.3
10-10-10	15	9.8	7.3	10.7	15.9	12.1	10.4
ALL GRADES, % OF GUAR.		105.6		104.3		106.8	
CV, %		14.1		14.2		21.1	
NUMBER OF ANALYSES		88		86		83	
SOUTHERN STATES COOP., INC. Baltimore, MD							
5-10-15	8	5.4	3.4	10.3	3.9	15.4	24.9
ALL GRADES, % OF GUAR.		107.2		102.8		102.5	
CV, %		3.4		3.9		2.9	
NUMBER OF ANALYSES		8		8		8	

TABLE 2. Continued

GRADE	NUMBER SAMPLES	ANALYTICAL AND STATISTICAL FINDINGS					
		N		P ₂ O ₅		K ₂ O	
		AA	CV	AA	CV	AA	CV
SOUTHERN STATES COOP., INC. (continued) Richmond, VA							
18-46-0	5	18.1	1.5	46.3	0.9	--	--
ALL GRADES, % OF GUAR.		100.3		102.2		102.5	
CV, %		3.8		4.5		6.0	
NUMBER OF ANALYSES		12		9		7	
Louisville, KY							
5-10-15	31	5.5	6.7	10.3	8.6	15.4	8.4
5-20-20	11	5.7	7.6	21.1	4.9	19.3	9.4
10-10-10	28	10.3	7.8	10.4	8.8	9.9	10.2
ALL GRADES, % OF GUAR.		107.9		103.7		100.5	
CV, %		7.8		8.6		9.3	
NUMBER OF ANALYSES		79		79		78	
Russellville, KY							
4-16-4	7	4.3	6.1	16.4	3.2	4.5	6.4
5-10-15	27	5.3	4.1	10.1	5.4	15.8	6.1
5-20-20	14	5.3	5.9	19.7	3.6	20.1	4.8
6-12-12	8	6.3	8.7	11.9	6.0	13.0	3.4
6-24-24	10	6.1	5.0	24.3	2.8	24.1	3.8
10-10-10	22	10.3	2.8	10.0	4.9	10.4	7.8
12-12-12	6	12.2	1.3	11.9	2.5	12.6	3.1
ALL GRADES, % OF GUAR.		104.9		100.1		104.6	
CV, %		5.2		4.6		6.4	
NUMBER OF ANALYSES		95		95		96	
Winchester, KY							
5-10-15	20	5.4	6.7	10.1	6.5	15.4	5.2
5-20-20	10	5.6	5.6	20.1	5.8	19.7	5.8
10-10-10	17	10.3	7.1	10.3	8.1	10.1	11.0
12-12-12	5	12.3	3.9	11.5	7.0	11.5	5.2
ALL GRADES, % OF GUAR.		106.4		102.0		101.1	
CV, %		7.0		7.1		8.4	
NUMBER OF ANALYSES		60		66		67	
STEWART FERTILIZER SERVICE Mt. Vernon, KY							
5-10-15	9	5.0	12.1	9.9	11.4	14.4	13.3
10-10-10	7	10.4	12.5	10.3	12.4	10.3	9.4
ALL GRADES, % OF GUAR.		101.8		100.5		99.6	
CV, %		11.5		11.1		11.2	
NUMBER OF ANALYSES		18		18		18	

TABLE 2. Continued

GRADE	NUMBER SAMPLES	ANALYTICAL AND STATISTICAL FINDINGS					
		N		P ₂ O ₅		K ₂ O	
		AA	CV	AA	CV	AA	CV
SWIFT AGRI CHEM CORP. Chicago, IL							
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ALL GRADES, % OF GUAR.		108.3		109.6		104.0	
CV, %		9.7		22.3		18.9	
NUMBER OF ANALYSES		15		14		14	
East Bernstadt, KY							
5-10-15	18	4.7	23.9	10.6	18.4	15.2	5.3
10-10-10	12	9.7	8.7	10.7	12.6	10.0	9.6
ALL GRADES, % OF GUAR.		96.5		105.2		100.2	
CV, %		16.5		16.2		8.6	
NUMBER OF ANALYSES		46		44		44	
Hopkinsville, KY							
5-10-15	7	5.7	13.8	9.9	23.1	15.0	7.4
5-20-20	12	5.1	12.9	20.6	15.5	18.7	9.7
6-24-24	5	6.4	14.1	25.5	12.4	22.4	12.4
10-10-10	12	10.3	7.6	9.7	20.1	11.3	11.3
ALL GRADES, % OF GUAR.		105.0		100.1		104.2	
CV, %		11.8		17.8		16.0	
NUMBER OF ANALYSES		49		49		49	
TEATER BROS. & ELLIOTT Danville, KY							
5-10-15	24	6.1	21.7	10.4	14.9	13.0	17.4
10-10-10	26	9.5	9.1	10.5	12.7	10.4	22.7
ALL GRADES, % OF GUAR.		109.2		105.6		95.9	
CV, %		20.5		14.0		22.6	
NUMBER OF ANALYSES		61		64		64	
USS AGRI-CHEMICAL Jeffersonville, IN							
5-10- 5	8	5.6	6.8	10.1	9.3	6.6	15.8
5-10-15	57	5.4	7.1	10.0	3.9	15.3	4.3
5-20-20	23	5.7	7.6	19.6	12.0	19.2	9.9
6-24-24	6	6.1	5.9	22.9	5.0	24.6	3.4
7-28-28	9	7.8	5.6	27.5	6.4	28.1	7.5
10-10-10	42	9.9	5.3	10.4	10.8	10.7	11.7
10-10-20	6	9.5	6.0	9.9	5.2	20.4	5.1
33- 0- 0	9	34.2	0.9	--	--	--	--
ALL GRADES, % OF GUAR.		105.5		101.6		103.7	
CV, %		8.6		10.5		11.2	
NUMBER OF ANALYSES		181		169		167	

TABLE 2. Continued

GRADE	NUMBER SAMPLES	ANALYTICAL AND STATISTICAL FINDINGS					
		N		P ₂ O ₅		K ₂ O	
		AA	CV	AA	CV	AA	CV
USS AGRI-CHEMICAL (continued) Nashville, TN							
5-10-15	12	5.2	3.2	10.2	2.8	14.9	5.7
5-20-20	14	5.3	6.5	20.2	3.8	19.8	3.6
6-12-12	7	6.1	2.3	12.2	2.4	12.6	4.1
6-12-18	11	6.1	4.3	12.2	2.5	17.8	2.1
7-28-28	18	7.9	5.9	28.5	5.8	26.9	7.7
10-10-10	14	10.2	2.9	10.3	6.5	10.4	5.1
14-14-14	14	14.6	3.8	15.1	5.1	14.0	8.7
18-46-0	5	17.9	1.6	45.9	0.7	--	--
ALL GRADES, % OF GUAR.		104.8		102.8		100.5	
CV, %		6.2		5.3		8.6	
NUMBER OF ANALYSES		114		112		108	
WARNER FERTILIZER COMPANY Somerset, KY							
5-10-15	8	6.1	23.0	11.0	13.4	13.5	21.2
5-20-20	9	5.4	10.7	20.8	7.4	19.4	10.3
10-10-10	15	10.4	15.1	10.8	14.5	10.4	9.7
ALL GRADES, % OF GUAR.		110.3		106.5		99.5	
CV, %		16.0		11.4		13.6	
NUMBER OF ANALYSES		44		45		47	
Russell Springs, KY							
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ALL GRADES, % OF GUAR.		107.5		100.3		110.3	
CV, %		15.2		12.3		8.8	
NUMBER OF ANALYSES		13		12		12	

TABLE 3. RESULTS OF THE ANALYSES OF CERTAIN OFFICIAL FERTILIZER SAMPLES FOR SECONDARY AND MINOR ELEMENTS AND FOR ORGANIC NITROGEN. Deficiencies are indicated with an asterisk "*" and misbranding with an "M".

COMPANY	SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEED, %	FOUND, %		
AGRI-CHEMICAL INC. Hopkinsville, KY	40196	0-23-27	Cu	0.045	0.01*		
			Fe	0.09	2.80M		
			Mn	0.11	0.12		
			Zn	0.17	0.16		
	39148	11-28-18	B	1.32	1.43		
39678	19-11-21	Mg	1.28	1.52			
AGRICO CHEMICAL CO. Horse Cave, KY	39468	8-21-26	B	0.43	1.23M		
JAMES C. BAILEY Mayfield, KY	40066	13-10-10	Zn	0.04	0.04		
BARREN RIVER FERT. CO. Glasgow, KY	39489	5-10-15	Mg	0.50	0.66		
	39706	5-10-15	Mg	0.50	0.47		
OTIS BRYANT & SON MILLING CO. Caneyville, KY	40384	10-25-25	B	0.19	0.19		
BURLEY BELT CHEMICAL CO. Lexington, KY	39603	16- 0-19	Cu	0.13	0.11		
			Zn	0.19	0.29		
	London, KY	39192	0-20-20	B	0.57	0.33*	
		39276	6-12-18	Mg	2.0	1.04*	
		38417	6-12-18	Mg	2.0	0.78*	
		40033	7- 0- 0	N	7.0	7.4	
		38950	7- 0- 0	N	7.0	6.4*	
		39915	7- 0- 0	N	7.0	7.9	
		39291	7- 0- 0	N	7.0	6.5	
		39497	10- 0-20	Cu	0.06	0.06	
				Zn	0.09	0.04*	
		Ferguson, KY	39094	5-20-20	B	0.57	0.65
			39097	8- 8- 8	Zn	4.00	4.50
		CAUDILL SEED COMPANY Shelbyville, KY	39615	10- 0-43	B	0.75	0.73
		FEDERAL CHEMICAL COMPANY Louisville, KY	39039	4-16- 4	Mg	0.50	0.64
Cu	0.05				0.05		
Zn	0.05				0.07		
38887	4-16- 4		Mg	0.50	0.63		
			Cu	0.05	0.06		
			Zn	0.05	0.07		
38735	4-16- 4		Mg	0.50	0.70		
			Cu	0.05	0.06		
			Zn	0.05	2.75M		
38509	4-16- 4		Mg	0.50	0.04		
			Cu	0.05	0.08		
			Zn	0.05	2.82M		
38505	4-16- 4		Mg	0.50	0.05		
			Cu	0.05	0.05		
			Zn	0.05	0.07		
38388	4-16- 4	Mg	0.50	0.60			
		Cu	0.05	0.05			
		Zn	0.05	0.06			
38387	10-10-15	Mg	1.50	1.74			
		Cu	0.05	0.04			
		Zn	0.05	0.03*			

TABLE 3. Continued

COMPANY	SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEED, %	FOUND, %
FEDERAL CHEMICAL COMPANY Louisville, KY (Continued)	39035	10-10-15	Mg	1.50	1.74
			Cu	0.05	0.04
			Zn	0.05	0.04
FRASIER SUPPLY CO. Glasgow, KY	39056	0-20-20	B	0.38	0.35
			Mg	2.00	0.51*
	40106	6-12-18	Cu	0.05	0.00*
			Fe	0.10	1.51M
			Zn	0.05	0.01*
GLASGOW FERTILIZER CO. Glasgow, KY	38394	5-10-15	Mg	1.00	2.21M
			39909	10- 0- 0	N
W. R. GRACE & CO. Hopkinsville, KY	39343	6-38- 6	Mg	0.50	0.52
			Mn	0.50	0.88
			Zn	1.50	1.32
Memphis, TN	39824	6-38- 6	Mg	0.50	0.40*
			Mn	0.50	0.71
			Zn	1.50	0.89*
	39256	10- 0- 0	N	10.0	10.5
	39137	10- 0- 0	N	10.0	10.9
GRO-GREEN CHEMICAL CO. Shelbyville, KY	39620	4-19-19	B	0.79	1.38
			Mg	2.00	4.96M
	38791	8-12-15	Mg	2.00	3.56
			Mg	1.00	2.72M
			Mg	1.00	1.95
JOHNSON CITY CHEMICAL CO. Johnson City, TN	38564	7- 0- 0	N	7.0	7.3
			WIN	5.6	5.8
	39488	7- 0- 0	N	7.0	7.0
MERR-MCGEE FARM CENTER Pembroke, KY	40204	10-26-23	Cu	0.08	0.11
			Fe	0.31	3.06M
			Mn	0.23	0.23
			Zn	0.77	0.68
S. S. KRESGE CO. Troy, MI	39971	23- 7- 7	Fe	0.40	0.60
LINCOLN FARM SERVICE Stanford, KY	38595	0-17-35	B	0.33	0.23*
MCCAULEY BROS. SEED CO. Versailles, KY	38840	14- 0-16	Cu	0.11	0.92M
			Zn	0.16	0.10*
MONSANTO AGRI CENTER Slaughters, KY	39513	14-36- 9	Cu	0.10	0.07*
			Mn	0.30	0.26
			Zn	0.60	1.26M
NORTH AMERICAN FERT. CO. Louisville, KY	38474	3-13-39	Mg	1.20	1.12
			40217	3-13-39	Mg

TABLE 3. Continued

COMPANY	SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEED, %	FOUND, %
SEWERAGE COMMISSION Milwaukee, WI	39267	6- 2- 0	N	6.0	7.0
	39801	6- 2- 0	Fe	4.50	4.62
	39802	6- 2- 0	Fe	4.50	4.38
SEYMOUR CHEMICAL CO. Seymour, IN	39284	6-24-24	Mg	1.00	1.22
			Zn	1.00	0.60*
SMITH-DOUGLASS DIV. Russellville, KY	39457	0-10-30	B	0.56	0.75
	40043	5-20-20	Mg	0.50	0.12*
			Fe	0.10	0.44M
			Mn	0.05	0.08
			Zn	0.05	0.07
	39831	6-12-18	Mg	0.50	0.20*
			Fe	0.10	0.39M
			Mn	0.05	0.12M
	40091	6-12-18	Zn	0.05	0.09
			Mg	0.50	0.23*
			Fe	0.10	0.38M
	40312	6-12-18	Mn	0.05	0.11M
			Zn	0.05	0.08
			Mg	0.50	0.31*
	40344	6-12-18	Mn	0.05	0.14M
			Zn	0.05	0.09
			Mg	0.50	0.29*
	40378	6-21-18	Mn	0.05	0.06
			Zn	0.05	0.06
			Mg	0.50	0.19*
	40306	6-24-24	Mn	0.05	0.26M
			Zn	0.05	0.51M
			Mg	0.50	0.17*
	39951	6-24-24	Mn	0.05	0.05
			Zn	0.05	0.08
			Mg	0.50	0.17*
	40096	6-24-24	Fe	0.10	0.58M
			Mn	0.05	0.08
			Zn	0.05	0.28*
	39338	6-24-24	Mg	0.50	0.20*
			Fe	0.10	0.58M
			Mn	0.05	0.11M
	39218	6-24-24	Zn	0.05	0.07
Mg			0.50	0.24*	
Fe			0.10	0.48M	
38737	6-24-24	Mn	0.05	0.09	
		Zn	0.05	0.09	
		Mg	0.50	0.26*	
40313	6-24-24	Fe	0.10	0.56M	
		Mn	0.05	0.09	
		Zn	0.05	0.09	
39339	7-21-10	Mg	0.50	0.22*	
		Fe	0.10	0.58M	
		Mn	0.05	0.19M	
			Zn	0.05	0.11M
			Mn	0.05	0.09
			Zn	0.05	0.10M
			Mg	0.50	0.28*
			Fe	0.10	0.68M
			Mn	0.05	0.69M
			Zn	0.05	0.65M

TABLE 3. Continued

COMPANY	SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEED, %	FOUND, %
SMITH-DOUGLASS DIV. Russellville, KY (Continued)	39558	7-21-10	Mg	0.50	0.32*
			Fe	0.10	0.76M
			Mn	0.05	0.80M
			Zn	0.05	0.84M
SOUTHERN STATES COOP., INC. Richmond, VA	38512	7- 0- 0	N	7.0	7.5
	38663	7- 0- 0	N	7.0	7.8
	38885	7- 0- 0	N	7.0	7.0
	39242	7- 0- 0	N	7.0	8.0
Russellville, KY	39483	0- 0-21	Mg	11.00	12.22
Winchester, KY	38339	0-12-40	B	0.45	0.59
S. S. BARDSTOWN COOP. Bardstown, KY	38696	16-41- 0	Zn	0.69	0.62
S. S. GLASGOW COOP. Glasgow, KY	40175	11- 8-12	Mg	6.36	8.19
S. S. HENRY COOP. Eminence, KY	40372	0-26-21	B	0.36	0.42
			Cu	0.84	0.28*
			Zn	0.70	0.85
	40023	22- 3- 7	Mg	2.86	3.31
			Cu	0.56	0.45
Zn	0.34	0.51			
S. S. OWENSBORO COOP. Owensboro, KY	39666	7-17-35	B	0.20	0.31
Zn	0.58	0.52			
SWIFT CHEMICAL CO. East Bernstadt, KY	38533	5-10-15	Mg	0.50	0.36*
			Fe	0.10	0.27M
			Mn	0.05	0.01*
			Zn	0.05	0.19M
	38619	6-12-18	Mg	0.50	0.46
			Cu	0.05	0.00*
			Fe	0.10	0.33M
			Mn	0.05	0.12M
	38411	6-12-18	Zn	0.05	0.17M
			Mg	0.50	0.35*
			Cu	0.05	0.00*
			Fe	0.10	0.26M
	39089	6-12-18	Mn	0.05	0.14M
			Zn	0.05	0.13M
			Mg	0.50	0.38*
			Fe	0.10	0.35M
	40094	3-10-30	Mn	0.05	0.03*
			Zn	0.05	0.07
			Mg	0.50	0.25*
			Cu	0.05	0.01*
Hopkinsville, KY	38412	4-16- 4	Fe	0.10	0.36M
			Mn	0.05	0.05
			Zn	0.05	0.07
			Mg	0.50	0.64
	40094	3-10-30	Cu	0.05	0.01*
			Mn	0.05	0.11M
			Zn	0.05	0.26M
			Mg	0.50	0.25*

TABLE 3. Continued

COMPANY	SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEED, %	FOUND, %
SWIFT CHEMICAL CO. Hopkinsville, KY (Continued)	38534	4-16- 4	Mg	0.50	0.65
			Cu	0.05	0.52M
			Mn	0.05	0.15M
			Zn	0.05	0.28M
	38623	5-10-15	Mg	0.50	3.32M
			Cu	0.05	0.01*
			Fe	0.10	0.33M
			Mn	0.05	0.04*
			Zn	0.05	0.09
	40088	5-20-20	Mg	0.50	0.13*
			Cu	0.05	0.00*
			Fe	0.10	0.37M
			Mn	0.05	0.03*
			Zn	0.05	0.06
	40316	5-20-20	Mg	0.50	0.39*
			Cu	0.05	0.01*
			Mn	0.05	0.12M
			Zn	0.05	0.13M
	40087	6-12-18	Mg	0.50	0.42*
			Cu	0.05	0.00*
			Fe	0.10	0.28M
			Mn	0.05	0.01*
			Zn	0.05	0.01*
	39209	6-12-18	Mg	0.50	0.56
			Cu	0.05	0.02*
			Fe	0.10	0.36M
			Mn	0.05	0.10
			Zn	0.05	0.11M
	39207	6-12-18	Mg	0.50	0.64
			Cu	0.05	0.00*
			Fe	0.10	2.46M
			Mn	0.05	0.05
			Zn	0.05	0.06
	39213	10-10-10	Mg	0.50	0.26*
			Cu	0.05	0.02*
			Fe	0.10	0.24M
Mn			0.05	0.08	
Zn			0.05	0.10	
USS AGRI-CHEMICALS Jeffersonville, IN	38549	5-10-15	Mn	0.05	0.01*
			Zn	0.05	0.05
	38609	5-10-15	Mn	0.05	0.01*
			Zn	0.05	0.05
	38936	5-10-30	Mn	3.00	2.67
			Zn	0.05	0.07
	39542	5-10-30	Mn	3.00	3.11
			Zn	0.05	0.08
	38526	5-20-20	Mn	0.05	0.06
			Zn	0.05	0.07
	38381	5-20-20	Mn	0.05	0.10
			Zn	0.05	0.05
	39601	6-12-12	Mn	0.05	0.08
			Zn	0.05	0.06
	38384	6-12-12	Mn	0.05	0.04*
			Zn	0.05	0.38M
	38554	6-12-12	Zn	0.05	0.11M
			Mn	0.05	0.06
	39265	6-24-24	Zn	0.05	0.06
			Mn	0.05	0.07
40143	6-24-24	Mn	0.05	0.06	
		Zn	0.05	0.07	

TABLE 3. Continued

COMPANY	SAMPLE NUMBER	GRADE	ELEMENT	GUARANTEED, %	FOUND, %
USS AGRI-CHEMICALS Jeffersonville, IN (Continued)	38935	7-28-28	Mn	0.05	0.03*
			Zn	0.05	0.02*
	38563	7-28-28	Mn	0.05	0.12M
			Zn	0.05	0.05
	39728	7-28-28	Mn	0.05	0.04
			Zn	0.05	0.03*
	39543	7-28-28	Mn	0.05	0.04*
			Zn	0.05	0.04*
	40246	7-28-28	Mn	0.05	0.04*
			Zn	0.05	0.02*
	38872	10-10-10	Mn	0.05	0.06
			Zn	0.05	0.07
	39015	10-10-10	Mn	0.05	0.09
			Zn	0.05	0.12M
	39305	10-10-10	Mn	0.05	0.16M
			Zn	0.05	0.13M
	38380	10-10-10	Mn	0.05	0.04
			Zn	0.05	0.04*
	40145	10-10-10	Mn	0.05	0.05
			Zn	0.05	0.06
	40142	13-13-13	Mn	0.05	0.06
			Zn	0.05	0.08
	39727	14-14-14	Mn	0.05	0.03*
		Zn	0.05	0.03*	
Nashville, TN	40303	5-20-20	Mn	0.05	0.05
			Zn	0.05	0.09
	38894	6-12-12	Mn	0.05	0.06
			Zn	0.05	0.05
	39216	7-28-28	Mn	0.05	0.04*
			Zn	0.05	0.03*
	39341	7-28-28	Mn	0.05	0.04*
			Zn	0.05	0.05
	39447	7-28-28	Mn	0.05	0.04*
			Zn	0.05	0.05
	39446	7-28-28	Mn	0.05	0.03*
			Zn	0.05	0.08
	38756	8-32-16	Mn	0.05	0.04
			Zn	0.05	0.10M
	38440	8-32-16	Mn	0.05	0.05
			Zn	0.05	0.05
	40377	8-32-16	Mn	0.05	0.04*
			Zn	0.05	0.03*
	39445	10-10-10	Mn	0.05	0.06
			Zn	0.05	0.07
	39588	14-14-14	Mn	0.05	0.04*
			Zn	0.05	0.04
	38890	14-14-14	Mn	0.05	0.03*
		Zn	0.05	0.04*	
38906	14-14-14	Mn	0.05	0.03*	
		Zn	0.05	0.04*	
38438	14-14-14	Mn	0.05	0.04	
		Zn	0.05	0.03*	
38755	15-40- 5	Zn	1.00	0.72*	
39215	15-40- 5	Zn	1.00	0.58*	
THE VANCE CO. Chilhowie, VA	39900	5-10-15	Mg	1.5	0.72*
	39901	5-10-15	Mg	1.5	0.67*
	39902	5-10-15	Mg	1.5	0.71*
	39903	5-10-15	Mg	1.5	0.71*

TABLE 4. COMPANIES REGISTERED TO SELL FERTILIZERS IN KENTUCKY AS OF JUNE 30, 1976.

AG/GRO FERTILIZER CO. 28 HILL STREET WINCHESTER KY 40391	AGRICO CHEMICAL CO FREDDONIA KY 42411
AG. SUPPLY CO INDUSTRIAL DR HOPKINSVILLE KY 42240	AGRICO CHEMICAL CO BOX 145 HARTFORD KY 42347
AGRI-CHEMICAL INC. HOPKINSVILLE KY 42240	AGRICO CHEMICAL CO. BOX 3 HENDERSON KY 42420
AGRI-CHEMICAL CORP. 395 E. 131 ST. ST. CLEVELAND OH 44110	AGRICO CHEMICAL CO 307 W MAIN ST HODGENVILLE KY 42748
AGRI-SUL INC. P.O. BOX 188 MINEOLA TX 75773	AGRICO CHEMICAL CO BOX 575 HORSE CAVE KY 42749
AGRICO CHEMICAL CO NATL BK TULSA BLDG TULSA OK 74103	AGRICO CHEMICAL CO BOX 65 IRVINGTON KY 40146
AGRICO CHEMICAL CO WASHINGTON CH OH 43160	AGRICO CHEMICAL CO ROUTE 3 MADISONVILLE KY 42431
AGRICO CHEMICAL CO BOX 873 BOWLING GREEN KY 42101	AGRICO CHEMICAL CO MEMPHIS TN 38103
AGRICO CHEMICAL CO BOX 7 CECILIA KY 42724	AGRICO CHEMICAL CO BOX 86 MORGANFIELD KY 42437
AGRICO CHEMICAL CO BOX 8 CLARKSON KY 42726	AGRICO CHEMICAL CO 108 RIVER RD OWENSBORO KY 42302
AGRICO CHEMICAL CO BOX 395 CLAY KY 42404	AGRICO CHEMICAL CO BOX 284 RUSSELLVILLE KY 42276

TABLE 4. (Continued)

AGRICO CHEMICAL CO SACRAMENTO KY 42372	AMERICAN PELLETIZING CORP P.O. BOX 446 DAYTON OH 45459
AGRICO CHEMICAL CO SEYMCUR IN 47274	AMWAY CORP. 7575 E. FULTON ROAD ADA MI 49355
AGRICO CHEMICAL CO BOX 266 STURGIS KY 42459	THE ANDERSONS, SPECIALTIES DIV BOX 119 MAUMEE OH 43537
AGRILAWN INC. P.O. BOX 994 OWENSBORO KY 42301	ANVIL MINERAL PRODUCTS CORP. BOX Q BAY SPRINGS MS 39422
AIR PRODUCTS & CHEMICALS INC. P. O. BOX 467 PENSACOLA FL 32592	ASKEW FARM SERVICE ROUTE 1 HOPKINSVILLE KY 42240
ALBERTO-CULVER COMPANY 2525 ARMITAGE AVE. MELROSE PARK IL 60160	AVI (ASSOC. VENTURES, INC.) 1131 WARREN AVE. DOWNEY GROVE IL 60915
ALFCO INC BOX 267 MARIETTA OH 45750	AYERS SEED & FERTILIZER BOX 308 MORGANTOWN KY 42261
ALLEN CO. FARMERS SERVICE 409 EAST MAIN STREET SCOTTSVILLE KY 42164	AYR WAY STORES INDIANAPOLIS IN 46268
ALLENSVILLE CROP SERVICE ALLENSVILLE KY 42204	JAMES C. BAILEY P.O. BOX 136 LEDBETTER KY 42058
ALLIED CHEM CORP-UNION TX PET BOX 2120--AGR DEPT HOUSTON TX 77001	JAMES C. BAILEY MAYFIELD KY 42066
AMERICAN CYANAMID CO. P. O. BOX 400 PRINCETON NJ 08540	BALLARD CO. COOP. LA CENTER KY 42056

TABLE 4. (Continued)

PAPPEN RIVER FERT. CO., INC
P.O. BOX 156
GLASGOW KY 42141

BELL CO. FARM SUPPLY, INC.
BOX 89
MIDDLESBORO KY 40965

BEREA FARM SERVICE
BOX 150-PROSPECT ST.
BEREA KY 40403

BIG FOUR FEED & IMPLEMENT CO
BOX 453
SCOTTSVILLE KY 42164

BIG 4 FERT & CHEM CO.
ROUTE #1
BARDSTOWN KY 40004

BIOCHEMICAL RES & DEV CORP
313 E ANDERSON LANE
AUSTIN TX 78752

BISHOP CO.-DIV LEBANON CHEM
P. O. BOX 317
LEBANON PA 17042

BLACK GOLD COMPOST CO.
P.O. BOX 16505
TAMPA FL 33687

BLACK LEAF PRODUCTS CO
667 N STATE ST
ELGIN IL 60120

BLUEGRASS PLANT FOODS
BOX 310
CYNTHIANA KY 41031

BLUEGRASS PLANT FOODS
BOX 113
DANVILLE KY 40422

BORDEN, INC., CHEMICAL DIV.
P.O. BOX 427
GEISMAR LA 70734

BORDEN, INC. CHEMICAL DIV.
180 EAST BROOD ST.
COLUMBUS OH 43215

BOURBON FARM SERVICE
1488 SOUTH MAIN ST.
PARIS KY 40361

BRANDT CHEMICAL CO.
BOX 276
PLEASANT PLNS IL 62677

BRUKYLE INC.,
1415 EAST 12TH ST.
OWENSBORO KY 42301

OTIS BRYANT & SON MILLING CO.
CANEYVILLE KY 42721

RAY BRYANT & SON
130 THOMAS AVE
BOWLING GREEN KY 42101

BUNTON SEED CO.
939 E. JEFFERSON ST.
LOUISVILLE KY 40206

BURKHART FEED MILL
BOX 127
AUBURN KY 42206

BURKESVILLE FERTILIZER PLANT
BURKESVILLE KY 42717

BURLEY BELT CHEMICAL CO.
BOX 5150
LEXINGTON KY 40505

TABLE 4. (Continued)

BURLEY BELT CHEMICAL CO. P. O. BOX 310 CYNTHIANA KY 41031	CARLISLE FERTILIZER BOX 175 BARDWELL KY 42023
BURLEY BELT CHEMICAL CO. BOX 130 LONDON KY 40741	DONALD CARNEY & SON RT. 1 SPRINGFIELD KY 40069
BURLEY BELT CHEMICAL CO. BOX 306 FERGUSON KY 42533	CAUDILL SFED CO. BOX 348 SHELBYVILLE KY 40065
BURLEY BELT CHEMICAL CO. ROUTE 1 GEORGETOWN KY 40324	CAYCE LIME & FERTILIZER ROUTE 4 FULTON KY 42041
BURLEY BELT CHEMICAL CO. WAREHOUSE HARRODSBURG KY 40330	C & D STORE MACKVILLE KY 40040
BURLEY BELT CHEMICAL CO. WHSE PT. 2 RUSSELL SPRNG KY 42642	CENTRAL KY AERIAL SPRAY INC. BOX 509 DANVILLE KY 40422
BURLEY BELT CHEMICAL CO. WAREHOUSE STANFORD KY 40484	C.F. CHEMICALS, INC. PO BOX 1479 BARTOW FL 33830
BURLEY BELT-BAKER BOX 108 VERONA KY 41092	CF INDUSTRIES, INC. SALEM LAKE DRIVE LONG GROVE IL 60047
H. D. CAMPRELL COMPANY CAMPBELL BLDG. ROCHELLE IL 61068	CHEMICAL FERTILIZERS SERVICES P.O. BOX 18 VINCENNES IN 47591
CAMPBELLSVILLE CROP SERVICE P O BOX 7 CAMPBELLSVILL KY 42718	CHEM-LAWN CORP. 5532 SHIER-RINGS RD DUBLIN OH 43017
CARGILL, INC. 1630 CARGILL BLDG. MINNEAPOLIS MN 55402	CHEM-LAWN CORP. 450 W. WILSON BRIDGE COLUMBUS OH 43085

TABLE 4. (Continued)

CHEM-LAWN CORP. 7980 KENTUCKY DR. FLORENCE KY 41042	COMINCO AMERICAN INC 818 W RIVERSIDE AVE SPOKANE WA 99201
CHEM-LAWN CORP. LEXINGTON 731-B WERNE DR. LEXINGTON KY 40511	COMMERCIAL SOLVENTS CORP. 245 PARK AVENUE NEW YORK NY 10017
CHEM-LAWN CORP. LOUISVILLE 10100 BUNSEN WAY LOUISVILLE KY 40299	CONTINENTAL PEAT CO. P O BOX 7368 TOLEDO OH 43615
CHEVRON CHEMICAL CO. P.O. BOX 242 FORT MADISON IA 52627	COOK UNITED, INC. CLEVELAND OH 44137
CHEVRON CHEMICAL CO-ORTHO DIV 940 HENSLEY ST RICHMOND CA 94801	CRAFTON & DUNCAN INC. 1223 2ND ST. HENDERSON KY 42420
CHILEAN NITRATE SALES CORP. 1 WORLD TRADE CTR NEW YORK NY 10048	CRITTENDEN CO. FARM SUPPLY MARION KY 42064
CHRISTIAN CO. SUPPLY CO. SKYLINE DRIVE HOPKINSVILLE KY 42240	CULBAC INTERNATIONAL INC. 106 W 2950 SOUTH SALT LAKE CIT UT 84115
CIBA-GEIGY. CORP. P.O. BOX 11422 GREENSBORO NC 27409	DELTA EARTH, INC. P.O. BOX 8045 CHICAGO IL 60680
CIRCLE O FARM CENTER MARION KY 42064	DELTA CORPORATION BOX 127 WYNNBURG TN 38077
CIRCLE O FARM CENTER 2ND & MONROE ST. STURGIS KY 42459	D H & R CO., INC. P.O. BOX 333 LA PORTE IN 46350
COLUMBIA NITROGEN COOP. P. O. BOX 4462 MACON GA 31208	DOW CHEMICAL 2030 DCW CENTER MIDLAND MI 48640

TABLE 4. (Continued)

E I DUPONT DE NEMOURS CO 7056 DUPONT BLDG WILMINGTON DE 19899	FARMERS GIN COMPANY BOX 95 CLINTON KY 42031
EAGLE RICHER P.O. BOX 83 JOPLIN MO 64801	FARMERS MART P. O. BOX 247 LAGRANGE KY 40031
ELKTON CROP SERVICE ROUTE #3 GUTHRIE KY 42234	FARMERS SUPPLY & PRODUCE CO. MONTICELLO KY 42633
ENCAP PRODUCTS CO BOX 278 MT PROSPECT IL 60056	FARMLAND INDUSTRIES INC. P. O. BOX 7305 KANSAS CITY MO 64116
ENCOAT CHEMICALS CORP. 1530 CHESTNUT ST. PHILADELPHIA PA 19102	FEDERAL CHEMICAL CO HUMPHLET TN 38343
E-Z-FLO CHEMICAL CO. 701 KODERLY DRIVE COLUMBUS OH 43228	FEDERAL CHEMICAL CO 1400 SOUTH HANCOCK LOUISVILLE KY 40217
E-Z FLO CHEMICAL COMPANY 1091 WEST HIGH ST. LEXINGTON KY 40501	FEDERAL CHEMICAL CO 646 STARKS BLDG. LOUISVILLE KY 40202
FAESY & RESTHOFF INC 143 RIVER RD EDGEWATER NJ 07020	FEDERAL CHEMICAL CO P. O. BOX 7605 NASHVILLE TN 37209
FARMERS CHEMICAL CO. BOX 87 HARRISON TN 37341	FELTY CROP SERVICE BOX 281 BEAVER DAM KY 42320
FARMERS FEED & FERTILIZER BOX 527 SCOTTSVILLE KY 42164	FIRSTMISS, INC. BOX 328 FORT MADISON IA 52627
FARMERS FERTILIZER COMPANY P. O. BOX 127 SMITHS GROVE KY 42171	FRANKLIN CROP SERVICE ROUTE 2 FRANKLIN KY 42134

TABLE 4. (Continued)

FRASIER SUPPLY CO. 104 TRABUE ST. GLASGOW KY 42141	W R GRACE & CO-DAV CHEM DIV BARTOW FL 33830
FREE FLOW FERTILIZER CO. P. C. BOX 119 MAUMEE OH 43537	W R GRACE & CO-AGR PROD DIV R R #4 BOWLING GREEN KY 42101
GALLATIN CO. FARM SVC WARSAW KY 41095	W. R. GRACE & CO.-AGR PROD. DIV R. R. #1 CACIZ KY 42211
GAMALIEL BULK FERTILIZER INC RT #1 TOMPKINSVILLE KY 42167	W. R. GRACE & CO. R. #1, BOX 175 CECILIA KY 42724
GARDINIER INC BOX 3269 TAMPA FL 33601	W R GRACE & CO BOX 148 COLUMBUS OH 43216
GARDINIER BIG RIVER INC. P.O. BOX 3269 TAMPA FL 33601	W R GRACE & CO AGRI PROD DIV EKRON KY 40117
GARRARD FARM SERVICE LANCASTER KY 40444	W R GRACE & CO-AGR PROD DIV GUTHRIE KY 42234
GATEWAY SUPPLY CORP. 9560 W. BLOOMINGTON BLOOMINGTON MN 55431	W R GRACE & CO BOX 257 LA CENTER KY 42056
GENES AG SUPPLY BOX 187 STURGIS KY 42459	W. R. GRACE & CO. 1606 INDUSTRIAL DR. HOPKINSVILLE KY 42240
GLASGOW FERTILIZER CO. BOX 198 GLASGOW KY 42141	W R GRACE & CO AGRI CHEM GROUP 100 W MAIN ST MEMPHIS TN 38103
GLASGOW TRADING CENTER GLASGOW KY 42141	W. R. GRACE & CO. P.O. BOX 90166 NASHVILLE TN 37209

TABLE 4. (Continued)

W R GRACE & CO AGP PROD DIV BOX 742 NEW ALBANY IN 47150	GRO-GREEN SALES CO. BOX 493 LERANON KY 40033
GRAVES CO. SOIL IMP. ASSN. BOX 567 MAYFIELD KY 42066	GRO-GREEN PAYNES, INC. ROUTE 6 LEXINGTON KY 40507
THE GREAT A&P TEA CO. P O BOX 300 LOUISVILLE KY 40201	GROVE COMPOST CO. BOX 570 D FRANKSVILLE WI 53126
GREEN GRASS RECLAIMATION DRAKESBORO KY 42337	GROWERS CHEMICAL CORP. LOCKWOOD RD. MILAN OH 44846
GREEN CO. FARM SUPPLY 115 SOUTH MAIN ST GREENSBURG KY 42743	GUTHRIE FARM SERVICE BOX 191 EMINENCE KY 40019
GREENLIFE PRODUCTS CO. P.O. BOX 72 WEST POINT VA 23181	HANCOCK COUNTY FARM SUPPLY HAWESVILLE KY 42348
GREEN THUMB PRODUCTS DRAWER 760 APOPKA FL 32703	HAWKEYE SUPPLY CO. 1418 FABRICON BLVD JEFFERSONVILL IN 47130
GREEN VALLEY FARM SUPPLY ATTN. R.D. WOOD CALHCUN KY 42327	HELENA CHEMICAL CO. 5100 POPLAR AVE. MEMPHIS TN 38137
GREEN VALLEY FARM SUPPLY ISLAND KY 42350	HELENA CHEMICAL CO. 2441 PRODUCTION DR INDIANAPOLIS IN 46241
GREENAID CO. JONATHAN INDSTR L CTR CHASKA MN 55318	HERCULES INC 900 LIFE OF GA TOWER ATLANTA GA 30308
GRO-GREEN CHEMICAL CO., INC. BOX 388 SHELBYVILLE KY 40065	HERITAGE HOUSE PRODUCTS 300 LAKE RD MEDINA OH 44256

TABLE 4. (Continued)

HERNDON FARM & SEED CO. ROUTE #4 MURRAY KY 42071	INDIANA FARM BUREAU COOP. 47 S. PENNSYLVANIA INDIANAPOLIS IN 46204
HIGHLAND DISTRIBUTORS INC SADLERSVILLE TN 37154	INTERNATIONAL MIN & CHEM CORP P. O. BOX 158 FLORENCE AL 35630
GEO W HILL & CO INC 8010 DIXIE HIWAY FLORENCE KY 41042	INTERNATIONAL SPIKE INC 462 E HIGH ST LEXINGTON KY 40508
HOBBS FEED & SUPPLY CO. BOX 48 FANCY FARM KY 42039	JEREMY CHEMICAL CO, INC. 5 LAWRENCE ST. BLOOMFIELD NJ 07003
A. H. HOFFMAN, INC. P.O. BOX 8 LANDISVILLE PA 17538	JOHNSON CITY CHEMICAL INC. P. O. BOX 760 JOHNSON CITY TN 37601
CLIFTON HOLLINGSWORTH R#1 MT. HERMON KY 42157	JONES-WILLIS CORP. 141 E. 3RD ST. HEREFORD TX 79045
HOWE-HILLIARD GRAIN CO. MAYFIELD KY 42066	KATSER AGRICULTURAL CHEMICALS P. O. BOX 246 SAVANNAH GA 31402
HUSTONVILLE FARM SERVICE HUSTONVILLE KY 40437	KAISER AGRICULTURAL CHEMICALS P. O. BOX E SULLIVAN IL 61915
HUTSON CHEMICAL COMPANY 103 MAPLE ST. MURRAY KY 42071	KAISER AGRICULTURAL CHEMICALS P.O. BOX 494 W. DES MOINES IA 50265
THE HYPONEX COMPANY, INC. 3489 SAWMILL RD. COPLY OH 44321	KALO LABORATORIES 9233 WARD PARKWAY KANSAS CITY MO 64114
I & H FARM SUPPLY, INC. 602 N. MAGNOLIA ST. TOMPKINSVILLE KY 42167	G. T. KASEY IRVINGTON KY 40140

TABLE 4. (Continued)

KENTUCKY FERTILIZER WORKS 222 COCK AVF. WINCHESTER KY 40391	LAWN-A-MAT CHEM. & EQUIP. CORP 153 JEFFERSON AVE. MINFOLA NY 11501
KERR-MCGEE FARM CENTER P. O. BOX "K" CADIZ KY 42211	LAWN-AID INC. 1804 CARGO COURT LOUISVILLE KY 40299
KERR-MCGEE CHEMICAL CORP. P.C. BOX 3 COTTONDALE FL 32431	LEBANON CHEMICAL CO. P. O. BOX 180 LEBANON PA 17042
KERR-MCGEE CHEMICAL CORP. W. R. BOYD & SONS R1 CROFTON KY 42217	LILLY BROS. SEED CO. INC. SKYLINE DR HOPKINSVILLE KY 42240
KERR-MCGEE FARM CENTER W E BOYD & SONS R 1 FREDONIA KY 42411	LINCOLN FARM SERVICE STANFORD KY 40484
KERR-MCGEE FARM CENTER GUTHRIE KY 42234	LIVINGSTON CO. FARM & HOME SUP RFD 3 SMITHLAND KY 42081
KERR-MCGEE FARM CENTER % PIERCE & WILLIAMS HERNDON KY 42236	LIVINGSTON CO. FARM SUPPLY SMITHLAND KY 42081
KERR-MCGEE CHEMICAL CORP KERR-MCGEE BLDG OKLAHOMA CITY OK 73125	LIVINGSTON COUNTY COOP. BOX 38 SMITHLAND KY 42081
KERR-MCGEE FARM CENTER P. O. BOX 129 PEMBROKE KY 42266	LORETTO FEED & FERT. ROUTE #1 LORETTO KY 40037
KOCS, INC. 4500 13TH COURT KENDSHA WI 53140	MCCAULEY BROS SEED CO 111 BROADWAY VERSAILLES KY 40383
S. S. KRESGE CO. 3100 W. BIG BEAVER TROY MI 48084	MAG CAR, INC. R#2 BOX 76 APEX NC 27502

TABLE 4. (Continued)

MAPCO INC. INDIAN POINT DIV. ATHENS IL 62613	MILES FARM SUPPLY RT 3 OWENSBORO KY 42301
MARSHALL CTY SOIL IMP. ASSOC. 501 POPLAR BENTON KY 42025	MILES FARM SUPPLY, INC. CARTER & KELLER RDS. OWENSBORO KY 42301
J. J. MAUGET CO., INC. P.O. BOX 3422 BURBANK CA 91504	MILES FARM SUPPLY, INC. HWY 431S OWENSBORO KY 42301
MAYFIELD MILLING CO NORTH NINTH ST MAYFIELD KY 42066	MINN MINING & MFG CO 3M CENTER BLDG 209 ST PAUL MN 55101
MEACHEM NITROGEN SERVICE RT 3-BOX 188 MORGANFIELD KY 42437	MISSISSIPPI CHEMICAL CORP BOX 388 YAZOO CITY MS 39194
MEADE FARMERS SUPPLY BRANDENBURG KY 40108	MONSANTO AGRI CENTER BOX 203 SLAUGHTERS KY 42456
MELLOW VALLEY PRODUCTS CO. P. O. BOX 540 SYLACAUGA AL 35150	MONSANTO COMPANY 800 N LINDBERGH ST. LOUIS MO 63166
METCALFF CO. FARMERS SUPPLY EDMONTON KY 42129	MONTGOMERY FARMERS COOP. CLARKSVILLE TN 37040
MEDINA AGRICULTURE PRODUCTS P.O. BOX 309 HONDO TX 78861	MONTGOMERY WARD CHICAGO IL 60607
MID-OHIO CHEMICAL COMPANY, INC P.O. BOX 193 MT. STERLING OH 43143	MOORE-HUTCHESON CO. MORGANTOWN KY 42261
MICHIGAN CHEMICAL CORP. 2 N. RIVERSIDE PLAZA CHICAGO IL 60601	MORRISON FARM SVC HODGENVILLE KY 42748

TABLE 4. (Continued)

M-S FARM SERVICE RT #3 BOX 387 HENDERSON KY 42420	OHIO VALLEY FERTILIZER, INC. BOX 36 MAYSVILLE KY 41056
MA-CHURS PLANT FOOD COMPANY 421 MONROE STREET MARION OH 43302	OLDHAM BROS FULTON AVE SHAWNEETOWN IL 62984
NATURAL DEVELOPMENT CO BOX 215 BAINBRIDGE PA 17502	OLIN CORP. 120 LONG RIDGE RD. STAMFORD CT 06904
NATURE'S BEST FARMS P. O. BOX 487 LAKE FOREST IL 60045	OLIN CORP AGRI DIV P. O. BOX 991 LITTLE ROCK AR 72203
NEW PLANT LIFE PO BOX 45 LA PORTE IN 46350	ORGANIC COMPOST CORP. P.C. BOX 217 GERMANTOWN WI 53022
NORTH AMERICAN FERTILIZER CO. 1419 S. PRESTON LOUISVILLE KY 40217	ORGANIC LABORATORIES, INC. 5050 WESTHEIMER #411 HOUSTON TX 77027
NORTHRUP, KING & CO. 1500 JACKSON ST. NE MINNEAPOLIS MN 55413	ORGANIC RECYCLING 967 S. MATLOCK ST. WEST CHESTER PA 19380
OBION FARMERS COOP. WEST PALMER ST. UNION CITY TN 38261	ORGO PRODUCTS CO. BOX 221 DAYTON OH 45401
OBION GRAIN CO OBION TN 38240	OTASCO BOX 885 TULSA OK 74102
OCCIDENTAL CHEMICAL CO. 5800 FAIRFIELD AVE. FT. WAYNE IN 46807	PARKER FERTILIZER CO. P. O. BOX 540 SYLACAUGA AL 35150
OCCIDENTAL CHEMICAL CO. BOX 1347 SIOUX FALLS SD 57101	PARRISH SHOP & SALES RT4. BOX 578 HENDERSON KY 42420

TABLE 4. (Continued)

PAYGRO DIV MEAD CORP
118 W FIRST ST
DAYTON OH 45402

PEACHEYS STORE & SADDLERY
ROUTE 2
GUTHRIE KY 42234

ROBERT B. PETERS, INC.
2933 PENNSYLVANIA ST
ALLENTOWN PA 18104

J. PETTY CO.
P O BOX 151
GRACEY KY 42232

PHELPS DODGE
300 PARK AVE.
NEW YORK NY 10022

PHELPS FARM SERVICE
424 SOUTH THIRD ST.
PADUCAH KY 42001

PICKETT FARMERS COOP.
P.O. BOX 155
BYRDSTOWN TN 38549

PIPES FEED & FERTILIZER INC
BOX 723
WINCHESTER KY 40391

PLANT MARVEL LABORATORIES
624 W 119TH ST.
CHICAGO IL 60628

PLANTARBS COPP.
TIMONIUM MD 21093

POOPES FERT & CHEMICALS INC
ROUTE #3
ALBANY KY 42602

PREMIER BRANDS, INC.
350 MADISON AVE.
NEW YORK NY 10017

PRICES MILL FARM SUPPLY
ROUTE #2
FRANKLIN KY 42134

PRINCETON GRAIN & SUPPLY CO.
P.O. BOX 388
PRINCETON KY 42445

RAIN BIRD NATIONAL SALES
7045 N. GRAND AVE.
GLENORA CA 91740

RA-PID-GROW CORPORATION
88 OSSIAN STREET
DANSVILLE NY 14437

RHODES FEED MILL
ROUTE #1
MAYFIELD KY 42066

RHODIA INC. AGRI. DIV.
P.O. BOX 125
MONMOUTH JUNC NJ 08852

RICH POND CROP SERVICE
RT. #4
BOWLING GREEN KY 42101

RINGER CORP.
6860 FLYING CLOUD DR
EDEN PRAIRIE MN 55343

RINKS BARGAIN CITY
TOLEDO OH 43607

ROBERTSON-CHEATHAM FARMERS COOP
SPRINGFIELD TN 37172

TABLE 4. (Continued)

ROBIN JONES PHOSPHATE CO BOX 50236 NASHVILLE TN 27205	SEA-BORN INC. 2000 ROCKFORD RD. CHARLES CITY IA 50616
ROCKLAND CHEMICAL CO., INC. BOX 809 W. CALDWELL NJ 07006	SEABOARD SEED COMPANY BRISTOL IL 60512
ROSS DANIELS INC 1720 FULLER RD W DES MOINES IA 50265	SEARS, ROEBUCK & COMPANY SEARS TOWER CHICAGO IL 60684
ROYSTER COMPANY DRAWER 1940 NORFOLK VA 23501	SEWERAGE COM., CITY MILWAUKEE 700 E. JONES ST. MILWAUKEE WI 53201
ROYSTER CO. & MR. WOMBLE DRAWER 1940 NORFOLK VA 23501	SEYMOUR CHEMICAL COMPANY P.O. BOX 307 SEYMOUR IN 47274
WILLIAM RUDY & SON RANDANA KY 42022	SHAKER FARM CENTER, INC. BOX 23 SOUTH UNION KY 42283
SACRAMENTO FEED MILL, INC. BOX 246 SACRAMENTO KY 42372	SIMPSON MILLING CO WAYNESBURG KY 40439
SCHOCHON CROP SERVICE ROUTE 5 RUSSELLVILLE KY 42276	SMITH-DOUGLAS DIV P O BOX 438 RUSSELLVILLE KY 42276
SCHULTZ COMPANY 11730 NORTHLINE MARYLAND HGTS MO 63043	SMITH-DOUGLASS, BORDEN INC. BOX 111 DANVILLE VA 24541
SCIENCE PRODUCTS CO, INC 5801 NO. TRIPP CHICAGO IL 60646	SMITH-DOUGLASS, BORDEN INC. BOX 419 NORFOLK VA 23501
O. M. SCOTT & SONS MARYSVILLE OH 43040	SMITHERS-OASIS DIVISION 919 MARVIN AVE. KENT OH 44240

TABLE 4. (Continued)

SMITHS GROVE FERTILIZER CO BOX E SMITHS GROVE KY 42171	S.S. BARDSTOWN COOP. 403 CATHEDRAL MANOR BARDSTOWN KY 40004
SMYLES LABORATORIES, INC. 6909 CRESTON RD., MINNEAPOLIS MN 55435	S. S. BOYLE COOP. R-4 LEBANON ROAD DANVILLE KY 40422
SOUTH FULTON LIME & FERT., INC P. O. BOX 66 SOUTH FULTON TN 42041	SS BOWLING GREEN COOP 920 CLAY STREET BOWLING GREEN KY 42101
SOUTHERN IMPORTERS, INC. P. O. BOX 8616 GREENSBORO NC 27410	S. S. BRECK COOP. ROUTE 1 HARDINSBURG KY 40143
SOUTHERN STATES COOP., INC. CURTIS BAY BALTIMORE MD 21226	S.S. COOP-CALDWELL SERVICE ROUTE #3 PRINCETON KY 42445
SOUTHERN STATES COOP., INC. ROUTE 5, BOX 70 BRISTOL VA 24201	S. S. CAMPBELLSVILLE COOP. P. O. BOX 428 CAMPBELLSVILLE KY 42718
SOUTHERN STATES COOP., INC. BOX 7611 CHESAPEAKE VA 23324	S. S. BULLITT COOP. BOX 644 SHEPHERDSVILLE KY 40165
SOUTHERN STATES COOP., INC. BOX 1656 RICHMOND VA 23213	S.S. CARLISLE COOP MAIN STREET CARLISLE KY 40311
SOUTHERN STATES COOP., INC. BOX 13065 C. T. STA LOUISVILLE KY 40213	S.S. CLARK COOP PENDLETON STREET WINCHESTER KY 40391
SOUTHERN STATES COOP., INC. BOX 408 RUSSELLVILLE KY 42276	S.S. COOP. CLAY PETROL SVC. P.O. BOX 175 CLAY KY 42404
SOUTHERN STATES COOP., INC. BOX 516 WINCHESTER KY 40391	S.S. CYNTHIANA COOP P.O. BOX 343 CYNTHIANA KY 41031

TABLE 4. (Continued)

S.S. FLEMINGSBURG COOP P.O. BOX 167 FLEMINGSBURG KY 41041	S.S. HOPKINSVILLE COOP 501 EAST 13TH ST HOPKINSVILLE KY 42240
S.S. FRANKFORT COOP DAILEY AVENUE FRANKFORT KY 40601	S.S. HORSE CAVE COOP 206 S. DIXIE HWY HORSE CAVE KY 42749
S.S. COOP FULTON SVC 201 CENTRAL AVE. FULTON KY 42041	S.S. IRVINGTON SERVICE IRVINGTON KY 40146
S.S. GEORGETOWN COOP. BOX 514-US 460 GEORGETOWN KY 40324	S.S. LAGRANGE COOP 2ND & WASHINGTON STS LA GRANGE KY 40031
S.S. GLASGOW COOP 504 WEST FRONT ST. GLASGOW KY 42141	S.S. LAWRENCEBURG COOP R. R. #3 LAWRENCEBURG KY 40342
S.S. GRAYSON COOP PO BOX 547 GRAYSON KY 41143	S.S. LEBANON COOP. 215 DEPOT STREET LEBANON KY 40033
S. S. GREENVILLE SERVICE W. DEPOT ST. GREENVILLE KY 42345	S. S. LEITCHFIELD COOP 118 W. WHITE OAK ST. LEITCHFIELD KY 42754
S.S. HARDIN COOP ROUTE 2 -- BOX 175 ELIZABETHTOWN KY 42701	S.S. LEXINGTON COOP 949 PINE ST. LEXINGTON KY 40508
S.S. HARRODSBURG COOP P. O. BOX 308 HARRODSBURG KY 40330	S.S. LONDON COOP P.C. BOX 604 LONDON KY 40741
S.S. HENDERSON COOP 146 MCKINLEY ST HENDERSON KY 42420	S.S. COOP. MANCHESTER SV 102 THIRD ST. MANCHESTER KY 40962
S.S. HENRY COOP BOX 167-EAST ELM ST. EMINENCE KY 40019	S.S. MADISONVILLE COOP 130 N. SEMINARY ST. MADISONVILLE KY 42431

TABLE 4. (Continued)

S.S. MAYSVILLE COOP
BOX 668-US 68 S.
MAYSVILLE KY 41056

S. S. COOP. MOREHEAD SVC.
P.O. BOX 366
MOREHEAD KY 40351

S.S. MORGANFIELD COOP
304 N. TOWNSEND ST.
MORGANFIELD KY 42437

S.S. OWENSBORO COOP
800 CRABTREE AVENUE
OWENSBORO KY 42301

S.S. OWENTON COOP
OWENTON KY 40359

S.S. PENDLETON COOP
P.O. BOX 231-RT. #2
FALMOUTH KY 41040

S. S. COOP--RICHMOND SERVICE
P.O. BOX 299
RICHMOND KY 40475

S.S. RUSSELLVILLE COOP
P.O. BOX 309
RUSSELLVILLE KY 42276

S. S. COOP. SEBREE SERVICE
BOX 345
SEBREE KY 42455

S.S. SHELBYVILLE COOP.
7TH & BRADSHAW STS.
SHELBYVILLE KY 40065

S.S. SIMPSON COOP
301 FINN ST-BOX 210
FRANKLIN KY 42134

S.S. SOMERSET COOP
BOX 500-N. HWY 27
SOMERSET KY 42501

S.S. COOP-TODD SVC.
P. O. BOX 278
ELKTON KY 42220

S. S. COOP-VANCEBURG SVC.
1015 FAIRLANE DR.
VANCEBURG KY 41179

SPARTA FERTILIZER INC.
SPARTA KY 41086

SPENCER FARM SERVICE
TAYLORSVILLE KY 40071

SPRINGFIELD FARM SERVICE
ROUTE #2
SPRINGFIELD KY 40069

ST. PAUL AMMONIA PROD. INC.
P.O. BOX 418
ST. PAUL MN 55057

THE STADLER FERTILIZER CO.
BOX 82
GRAND RAPIDS OH 43522

STANLEY CROP SERVICE
BOX #37
STANLEY KY 42375

STANLEY CROP SVC/SMITH-DOUGLAS
BOX 419
NORFOLK VA 23501

STERN'S NURSERIES INC
404 WILLIAM STREET
GENEVA NY 14456

TABLE 4. (Continued)

STEWART FERTILIZER SERVICE
MT. VERNON KY 40456

SWIFT CHEMICAL CO.
% MORGANTOWN FD MILL
MORGANTOWN KY 42261

STIM-U-PLANT LABORATORIES
2077 PARKWOOD AVE.
COLUMBUS OH 43219

SWIFT AGRICULTURAL CHEM CORP
S ESTILL AVE
RICHMOND KY 40475

SUMNER FARMERS COOP.
PORTLAND TN 37148

SWIFT AGRI CHEM CORP.
% BUCKS B & T SALES
UTICA KY 42376

SWIFT AGRI CHEM CORP
111W JACKSON BLVD
CHICAGO IL 60604

G.M. TAYLOR SEED CO.
P.O. BOX 485
GEORGETOWN KY 40324

SWIFT FARM CENTER
% BUGG BROS
CLINTON KY 42031

TEATER & CASSITY FARM SER.
THIRD & DEPOT ST.
NICHOLASVILLE KY 40356

SWIFT CHEMICAL CO.
COLUMBIA KY 42728

TEATER BROS & ELLIOTT
BOX 113
DANVILLE KY 40422

SWIFT CHEMICAL CO.
C/C MARTIN & DEWEESE
CUNNINGHAM KY 42035

TENNESSEE FARMERS COOPERATIVE
LAVERGNE TN 37086

SWIFT FARM CENTER
E BERNSTADT KY 40729

TEXAS SULPHUR PRODUCTS CO.
2801 W OSBORN RD.
PHOENIX AZ 85017

SWIFT AGRICULTURAL CHEM. CORP.
P.O. BOX 191
E. ST. LOUIS IL 62202

TEXAS SULPHUR PRODUCTS CO. INC
1502 PRIMROSE LANE
BOGGER TX 79007

SWIFT CHEMICAL CO.
% TODD CTY GRAIN CO.
FLKTON KY 42220

THERMOGAS CO. OF HARDINSBURG
HARDINSBURG KY 40143

SWIFT AGRICULTURAL CHEM CORP
BOX 548
HOPKINSVILLE KY 42240

THOMPSON SALES COMPANY
P. C. BOX 246
MONTGOMERY AL 36101

TABLE 4. (Continued)

THURSTON FERTILIZER CO. 1500 BLOW AVE. PADUCAH KY 42001	TRIPLE T CHEMICALS, INC. R.R. #1 VINCENNES IN 47591
TOBACCO STATES CHEMICAL CO. BOX 479 LEXINGTON KY 40501	TRIPLE T GRAIN & FERTILIZER R R #1 VINCENNES IN 47591
TODD COUNTY SEED TRENTON KY 42286	UNION FERTILIZER BOX 87 MORGANFIELD KY 42437
TRANSAGRA CORP. 1355 LYNNFIELD RD. MEMPHIS TN 38138	USS AGRI-CHEMICAL RT. 1 ADAIRVILLE KY 42202
TOMPKINSVILLE FERTILIZER CO. TOMPKINSVILLE KY 42167	USS AGRI-CHEMICALS P. O. BOX 1685 ATLANTA GA 30301
TRANSVAAL, INC. P.O. BOX 69 MARSHALL JACKSONVILLE AR 72076	USS FARM SERVICE CENTER BOX 87 CAMPBELLSVILL KY 42718
TRANSVAAL, INC. P. O. BOX 25 POWDER SPRNGS GA 30073	USS AGRI-CHEMICALS 685 DEKALB IND. WAY DECATUR GA 30033
TRAYLOR CHEM. & SUP. CO. P.O. BOX 343 ROYAL CENTER IN 46978	USS AGRI-CHEMICALS 400 WATER ST FRANKLIN KY 42134
TRICO PRODUCTS BOX 1104 STORM LAKE IA 50588	USS AGRI-CHEMICALS GUTHRIE KY 42234
TRI-CTY FARM SUPPLY BOX 495, US 25E CORBIN KY 40701	USS AGRI-CHEMICALS HARDINSBURG KY 40143
TRIMBLE COOP., INC. MILTON KY 40045	USS AGRI-CHEMICALS 14TH & WATT ST. JEFFERSONVILL IN 47130

TABLE 4. (Continued)

USS AGRI-CHEMICALS P.O. BOX 90447 NASHVILLE TN 37209	VOLUNTARY PURCHASING GROUPS BOX 460 BONHAM TX 75418
USS AGRI-CHEMICALS BOX 90446 NASHVILLE TN 37209	WABASH VALLEY SERVICE CO. 909 NORTH COURT GRAYVILLE IL 62844
USS FARM SERVICE CENTER BOX 128 UTICA KY 42376	WARNER FERTILIZER CO COLUMBIA KY 42728
U. S. STEEL CORP-FAIRFIELD P. O. BOX 599 FAIRFIELD AL 35064	WARNER FERTILIZER CO PO BOX 764 SOMERSET KY 42501
U S STEEL CORP GRANT BLDG ROOM 5988 PITTSBURGH PA 15230	WARNER FERTILIZER CO RUSSELL SPRNG KY 42642
THE VANCE CO. P. O. BOX 588 CHILHOWIE VA 24319	WARSAW CHEMICAL CO., INC. BOX 658 ARGONNE RD WARSAW IN 45580
THE VANCE CO. FERTILIZER DIV. FWING VA 24248	WEGRO DIV., OLD FORT IND., INC THIRD ST. GRAND RAPIDS OH 43522
VENTURI, INC. 1610 ROLLINS RD BURLINGAME CA 94010	N B WHEELER & SON BOX 8 SEDALIA KY 42079
VICKSBURG CHEMICAL CO. P. O. BOX 3 VICKSBURG MS 39180	MR. WIGGS 23175 COMMERCE PK RD CLEVELAND OH 44122
VIRGINIA CHEMICALS INC. 3340 W. NORFOLK RD PORTSMOUTH VA 23703	WOODFORD FEED CO., INC. BOX 116 VERSAILLES KY 40383
VISTRON CORP. BOX 628 LIMA OH 45802	YODER COMPOST, INC. R.R. #1 ARCHBOLD OH 43502
ZINC NATIONAL S.A. APT. 985 HILDALGO 640 PTE MONTEREY, N.L. MX	

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